Appendix A

IRP PROCESS

UG-160453

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #1

June 16th, 2016
Seattle International Airport Conference Center

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Agenda

- **Introductions**
- **About Cascade Natural Gas**
  - **IRP Timeline**
  - **2014 IRP issues**
- **Cascade's Demand Study Overview**
  - **Key Points**
  - **Inputs and Data Sources**
  - **Assumption**
  - **Scenarios**
- **Cascade Natural Gas Forecast Model**
  - **Demand Data**
  - **Growth Data**
  - **Weather Data**
  - **Regression Analysis changes**
  - **Scenarios**
  - **HDD Analysis**
  - **Demand Forecast**
  - **Peak Day**
- **Summary**
- **Next Steps**

A LITTLE HISTORY LESSON…

- Prior to 1955, natural gas was virtually unheard-of in the Pacific Northwest. Seeing an opportunity, Lester Pettit, Spencer Clark, and Stewart Matthews led a group of associates to form a company that would rise to the challenge. Cascade Natural Gas Corporation was incorporated January 2, 1953.
- In July 2007, Cascade was acquired by MDU Resources headquartered in Bismarck, ND.
  - Founded in 1924 as an electric utility in eastern Montana.
  - Core businesses are construction, utilities, pipeline, and refinery.
  - Approximately 8,600 employees, operating in 48 states.
  - Operates four utilities across eight states:
    - Montana-Dakota Utilities Co.
    - Great Plains Natural Gas Co.
    - Cascade Natural Gas Corporation
    - Intermountain Gas Co.

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AND TODAY WE ARE …

- Cascade Natural Gas Corp. serves 276,000 customers in 96 communities – 68 of which are in Washington and 28 in Oregon. Cascade's service areas are concentrated in western and south central Washington and south central and eastern Oregon.

- Today, Cascade serves a diverse service territory covering more than 32,000 square miles and 700 highway miles from one end of the system to the other. Interstate pipelines transmit Cascade's natural gas from production areas in the Rocky Mountains and western Canada.

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Resource Decision Making Process Overview

- Construct a range of possible demand forecasts for the core market.
- Calculate avoidable distribution system enhancement costs.
- Provide the optimization model the existing supply side and demand side resource options to meet demand.
- Run the optimization model to identify resource needs including the types of resources and their timing requirements. The existing portfolio is modeled under a range of demand forecast conditions.
- Identify incremental supply and demand side resources to satisfy a range of incremental growth scenarios.
- Run the optimization and Monte-Carlo simulation models to identify the best fit portfolio given an expected range of forecasted core loads and operating conditions.

Date	Process Element	Location (Subject to change)
Thursday, June 09, 2016	TAG 1 slides distributed to stakeholders	
Thursday, June 16, 2016	**TAG 1: Process, Key Assumptions, IRP Team, Timeline, Latest Economic Indicators, Price Forecast and Demand Forecast, Plan for dealing with issues raised in 2014 IRP**	
Thursday, July 14, 2016	TAG 2 slides distributed to stakeholders	
Tuesday, July 19, 2016	**TAG 2: Drilling down into segments of demand forecast, Current Supply Resources, Transport Issues, Alternative Resources, Update on 2 Year Plan**	**Seattle Airport Conference Center**
Friday, August 12, 2016	TAG 3 slides distributed to stakeholders	
Thursday, August 18, 2016	**TAG 3: Conservation, Distribution System Planning, Planned Scenarios and Sensitivities**	**Seattle Airport Conference Center**
Thursday, September 08, 2016	TAG 4 slides distributed to stakeholders	
Thursday, September 15, 2016	**TAG 4: Preliminary Resource Integration Results, Avoided Costs, Proposed new 2 year Plan**	**Seattle Airport Conference Center**
Tuesday, October 04, 2016	**TAG 5: Final Integration Results, finalization of plan components**	**Seattle Airport Conference Center**
Monday, October 17, 2016	Draft of 2016 IRP distributed	Kennewick, WebEx
Monday, November 07, 2016	Comments due on draft from all stakeholders	
Thursday, November 17, 2016	TAG 6, if needed	Seattle Airport Conference Center
Wednesday, November 23, 2016	Final IRP goes to press	
Thursday, December 01, 2016	Executive Summary Presentation to Senior Management	Kennewick, WebEx
Thursday, December 15, 2016	IRP filing in Washington	

- Resource Planning group
- Other Gas Supply members
- Regulatory Affairs
- Operations/Engineering
- Conservation, Energy Efficiency
- Finance/Accounting
- Information Technology

- **CASCADE WILL WORK WITH STAKEHOLDERS TO CLEARLY IDENTIFY BY TAG 5 THE SPECIFIC TIMING, POTENTIAL EXCEPTIONS, AND METHOD OF DEALING WITH UPSTREAM PIPELINE CAPACITY DEFICITS AT DEMAND AREAS.**

- **BY COMPLETION OF TAG 2, CASCADE WILL WORK WITH STAKEHOLDERS TO DEFINE THE SPECIFIC EXPECTATIONS FOR THIS ISSUE.**

- **CASCADE WILL WORK WITH STAKEHOLDERS DURING THE 2016 IRP PROCESS TO IDENTIFY STAFF'S SPECIFIC CONCERNS REGARDING THE INSUFFICIENT ANALYSIS AND EXPLANATION OF CONSERVATION POTENTIAL.**

- **WITH THE PUBLICATION OF THE DRAFT 2016 IRP, CASCADE WILL PROVIDE AN IMPROVED DESCRIPTION OF THE STAKEHOLDER PARTICIPATION PROCESS THROUGH INCLUSION OF TAG MEETING PRESENTATIONS, MINUTES AND RESPONSEs TO COMMENTS.**

- **CASCADE IS CURRENTLY PARTICIPATING IN WUTC'S HEDGING DOCKET UG-132019. THROUGHOUT THIS PROCESS CASCADE HAS PROVIDED COMMENTS AND EXPLANATIONS OF OUR RISK MANAGEMENT EFFORTS. WE WILL CONTINUE TO PARTICIPATE IN UG-132019 AND WILL PROVIDE OUR 2016 IRP RISK MANAGEMENT GUIDANCE BY TAG 4.**

- **CASCADE IS COMMITTED TO WORKING ON AN IMPROVED NARRATIVE TAKING INTO ACCOUNT COMMENTS MADE BY STAKEHOLDERS IN REFERENCE TO THE 2014 IRP. THE NARRATIVE IN THE DRAFT 2016 WILL BE A SIGNIFICANT IMPROVEMENT.**

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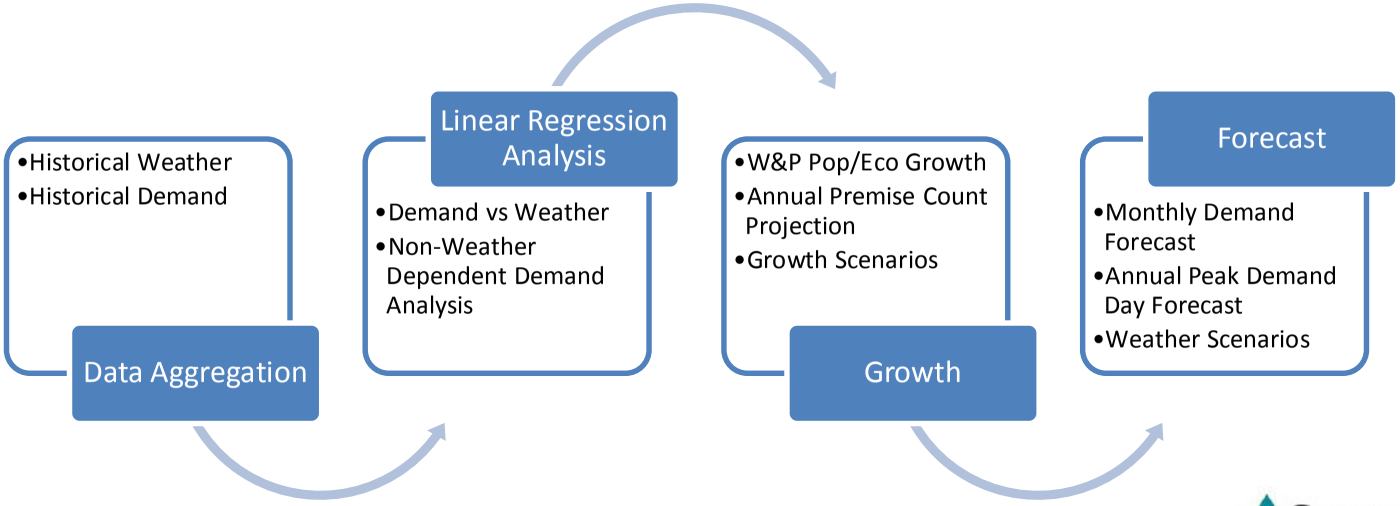
CASCADE DEMAND STUDY

High Level overview of the 20 Year demand forecast

Overview

- The Cascade demand forecast developed for the IRP is a forecast of customers, core natural gas demand, and core peak demand for the next 20 years.
- Cascade's core load consists of approximately 53% residential and 47% commercial and industrial.



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Overview

- Forecast demand at the CityGate and CityGate Loop level.
- CityGate Loops are a group of CityGates that service a similar area that are forecasted together due to pipeline operations.
- CNGC forecast model is flexible giving Cascade the ability to:
  - Update input data (gas demand and weather)
  - Modify assumptions
  - Modify CityGates and loops to be forecasted
  - Run several scenarios

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Key Points

- Cascade's demand is principally weather and customer driven; the colder the weather or greater the customer count, the greater the demand.
- This forecast uses 30 years of recent weather history as the "normal" temperatures.
- Forecasted under various weather and growth scenarios – average year, cold year, warm year, extreme cold day, high growth, low growth, etc.
- Analyze weather and demand for each of 55 CityGates and CityGate Loops that serve Core customers.
- Growth factors are applied to each of the 20 years in the forecast for each CityGate.
- Heating demand does not appreciatively start until average temps dip below 60° F, therefore a 60° F threshold is used.

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Input Data

- Historical Demand
  - Pipeline actuals
  - Gas Management System (GMS)
  - Customer Care and Billing (CC&B)
- Weather
  - Schneider Electric
- Population and Economic
  - Woods & Poole
  - Acquiring local market intelligence
- Customer Count
  - CC&B

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Key Assumptions

- Seven weather locations effectively cover Cascade's service territory.
- Using population growth assumes 1% increase in population translates to a 1% increase in residential customer count.
- Using employment growth assumes 1% increase in employment translates to a 1% increase in commercial and industrial customer count.

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Forecast Scenarios

- Base case regression correlation of weather to demand by citygate and loops.
- Sensitivity capability for cold and warm weather.
- Sensitivity for low and high customer growth.

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Non-Weather dependent demand

- Demand that is not influenced by weather.
- Typically caused by a customer who ramps up production based on the time of season.
- Demand is removed prior to running the demand vs. weather analysis.
- After the HDD and customer information is input in the regression to come up with the forecast the non-weather dependent demand is added back in.

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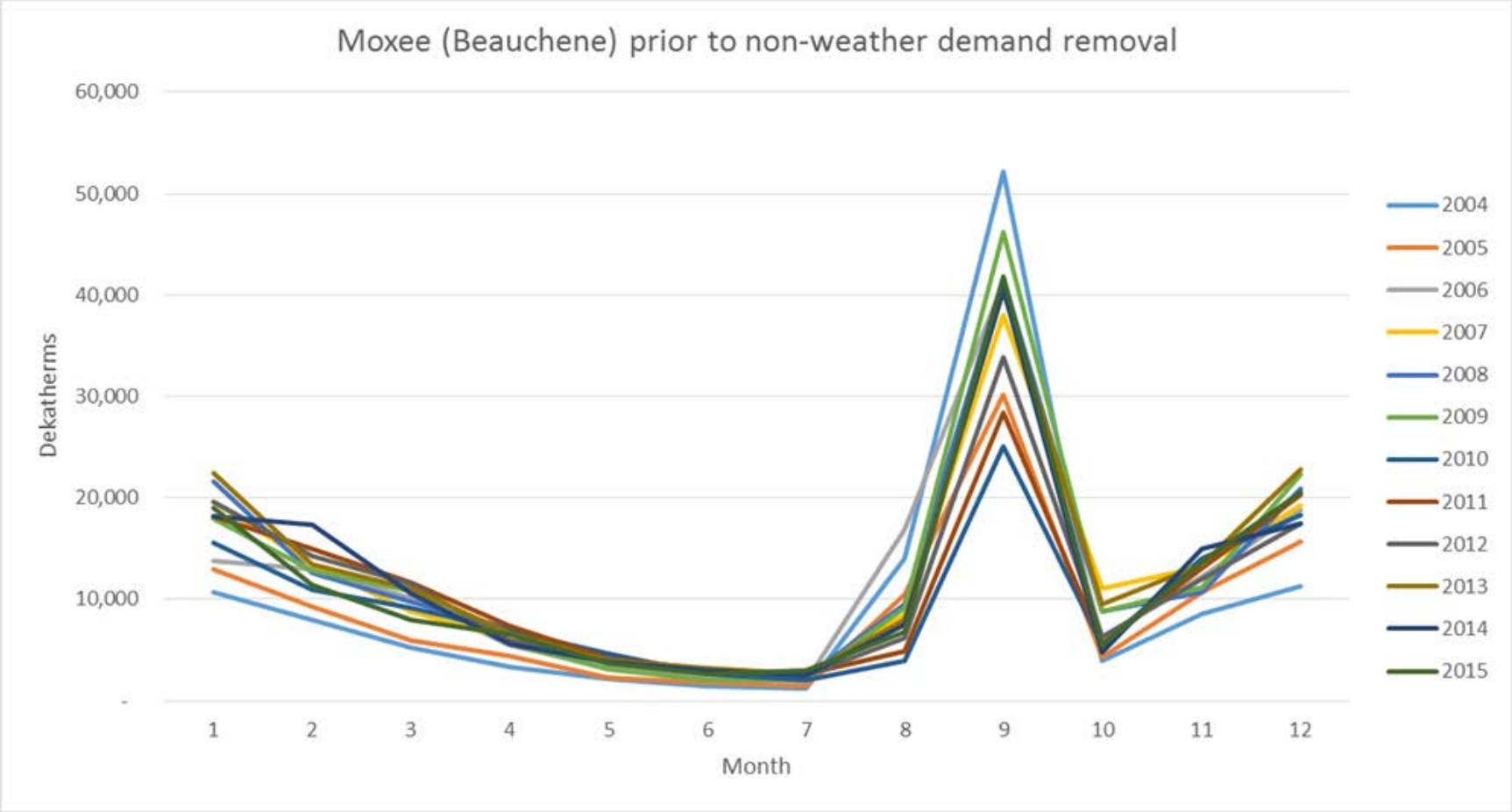

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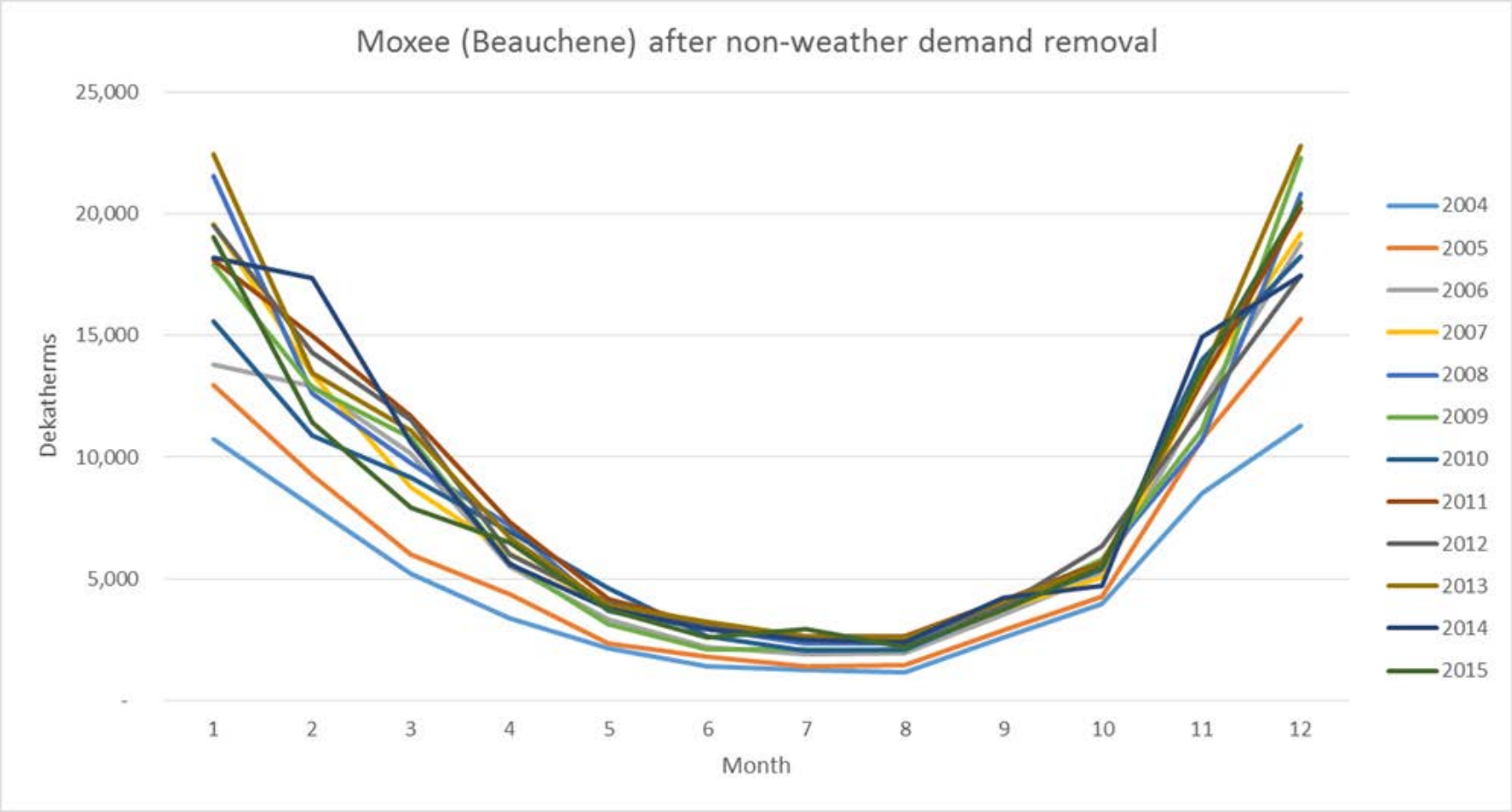

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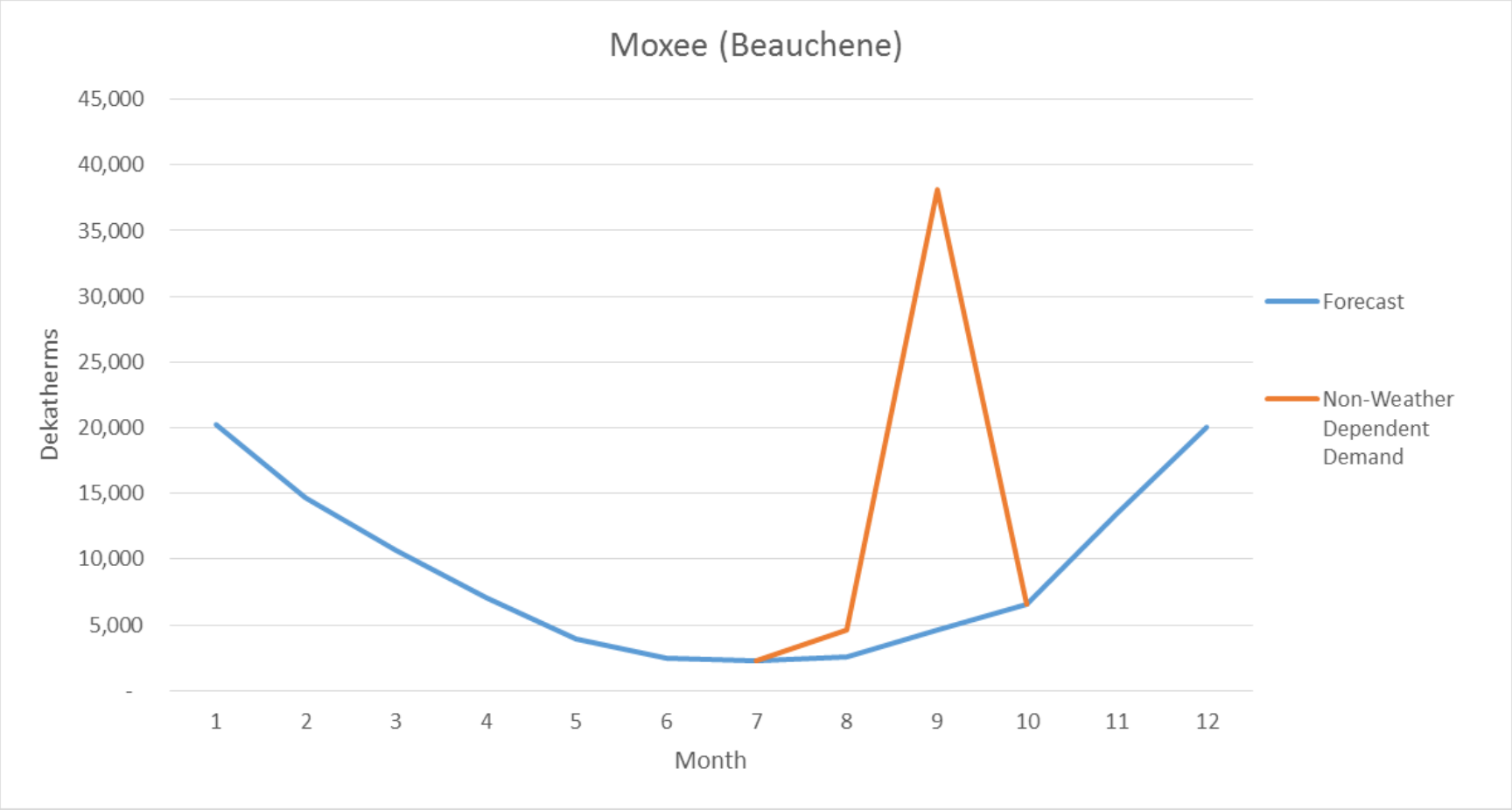

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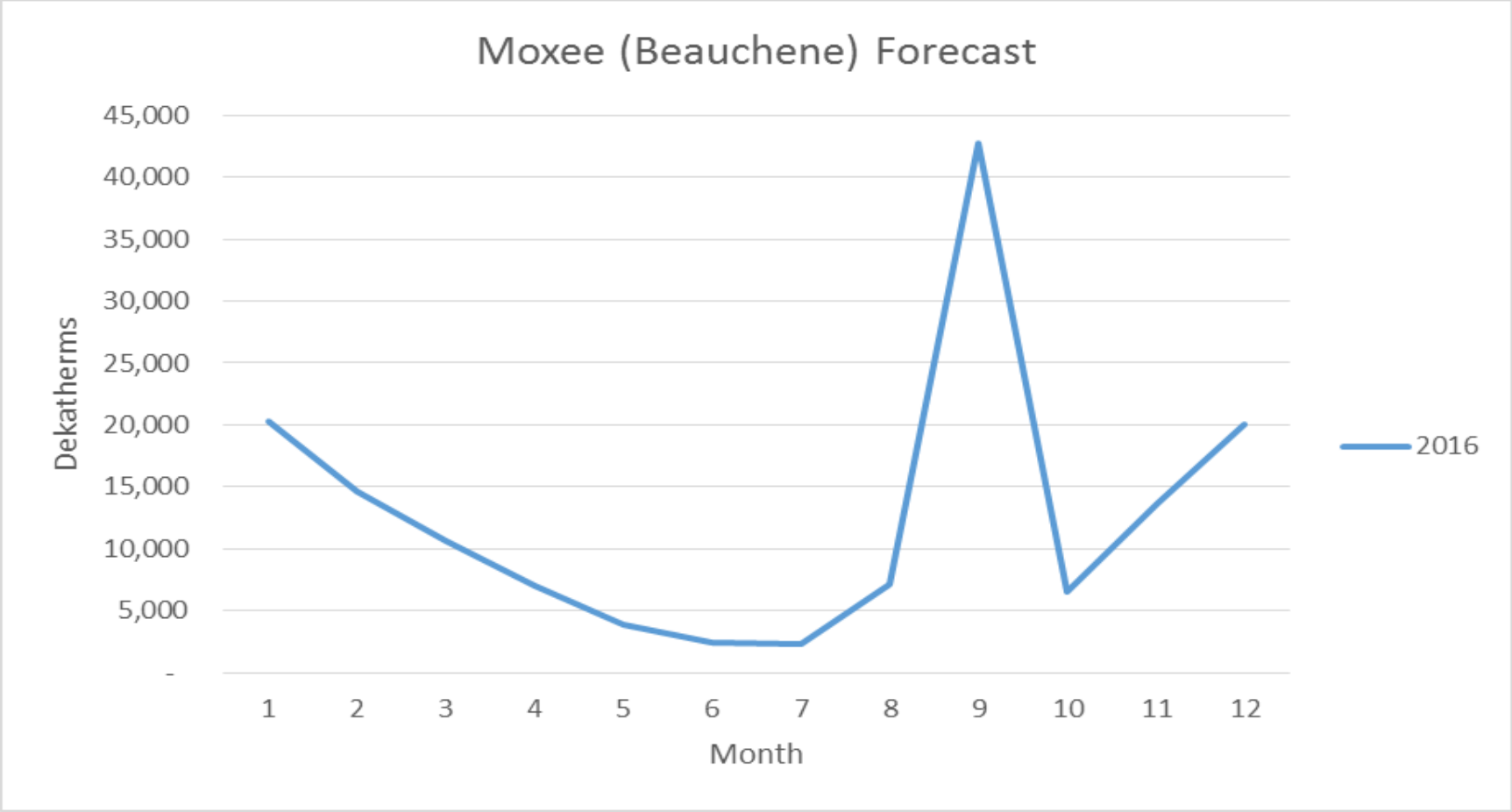

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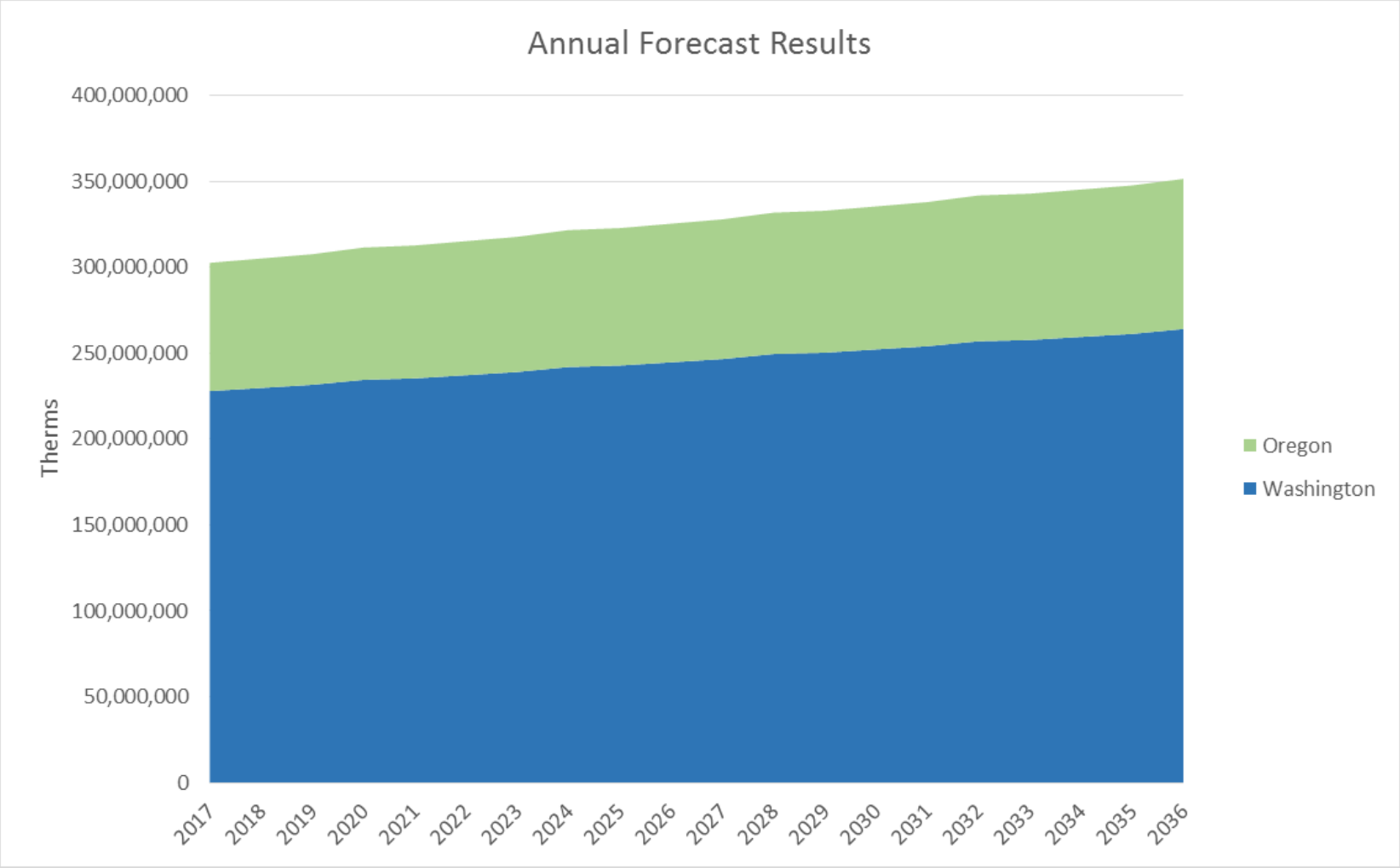
Forecast Results



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Cascade Natural Gas Forecast Model

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Demand Data

- Historical core monthly demand by CityGate was primarily drawn from:
  - Pipeline actuals from Electronic Bulletin Board (EBB)
  - Cascade's own Gas Management System (GMS)
- Also examined CC&B (Customer Care and Billing) for data verification and premise count information.
- Analyzing demand data from 2004 to 2015.

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Growth Data

- Woods & Poole State Profile data is used for customer forecast.
- Population data is used for the Residential Customers.
- Commercial and Industrial growth factors used Farm, Construction, and Manufacturing earnings in previous model.
- New model uses: Farm Employment, Forestry, Fishing, Related Activities & Other, Mining Employment, Utilities Employment, Construction Employment, Manufacturing Employment, Wholesale Trade Employment, Retail Trade Employment, Transportation & Warehousing Employment, Information Employment, Arts, Entertainment, & Recreation Employment, Finance & Insurance Employment, Real Estate, Rental & Leasing Employment, Professional & Technical Services Employment, Administrative & Waste Services Employment, Educational Services Employment, Health Care & Social Assistance Employment, Federal Civilian Government Employment, State & Local Government Employment, and Federal Military Government Employment

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Growth Data cont'd

- To project the natural gas demand forward, growth factors for each year are applied to gas demand predicted after assuming a weather scenario (average, cold, mild).
- Cascade uses regional (county) economic demographics data formulated by Woods and Poole to derive a projected customer growth by town and year or local economic growth information if available.
- Woods and Poole Employment, Income, Population, and Housing demographics were reviewed. Cascade derived Population and Economic growth factors formulated from Woods and Poole's forecasted Population and Employment growth.
- Growth factors derived from W&P can manually be replaced by Cascade derived growth figures based on such factors as customer growth, engineering estimates, and internal customer projections.

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Residential Growth

- Cascade uses population growth data formulated by Woods and Poole to derive a projected residential customer growth by CityGate and year.

- Woods and Poole population growth forecast is provided by county and year and directly assigned to a CityGate. Cascade assumes a 1% growth in population translates to a 1% increase in customer growth.

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Residential Growth Formulas

W&P Growth by CityGate was calculated utilizing the equations defined below:

$WP_P_{[CityGate,Yr]} = \sum WP_P_{[County,Yr]}$

$WP_G_{[CityGate,Yr]} = (WP_P_{[CityGate,Yr]} - WP_P_{[CityGate,Yr-1]}) / WP_P_{[CityGate,Yr-1]}$

Definitions:

- $WP_P_{[County, Yr]}$: Woods and Poole annual population forecast based on numerous demographic factors by county and by year
- $WP_P_{[CityGate,Yr]}$: Sum of all Woods and Poole annual population figures for all counties assigned to a CityGate
- **$WP_G_{[CityGate,Yr]}$: Woods and Poole growth factor percentage calculated from Woods and Poole population forecast by CityGate and year**

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Commercial and Industrial Growth

- To create an economic growth figure, Woods and Poole's employment factors were combined for each county and year (2015-2050) to produce a total employment number.
- The sum of all raw earning growth figures assigned to a CityGate was used to calculate the Economic Growth by year for each CityGate.

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Commercial and Industrial Growth formulas

W&P Economic Growth by CityGate was calculated utilizing the equations defined below:

$WP_TE_{[County, Yr]}$ = (($WP_FarmEmployment_{[County, Yr]}$ * Farm Employment Allocation) + ($WP_Forestry_{[County, Yr]}$ * Forestry Allocation) + … + ($WP_FederalMilitaryGovernment_{[County, Yr]}$ * Federal Military Government Allocation)

$WP_TE_{[CityGate, Yr]} = \sum WP_TE_{[County, Yr]}$

$WP_EG_{[CG, Yr]} = (WP_TE_{[CityGate, Yr]} - WP_TE_{[CityGate, Yr-1]}) / WP_TE_{[CityGate, Yr-1]}$

Definitions:

- $WP_TE_{[County, Yr]}$: Woods and Poole total employment by county and by year
- $WP_TE_{[CityGate, Yr]}$: Sum of all total employment by county and by year allocated to a CityGate
- **$WP_EG_{[CG, Yr]}$: Woods and Poole commercial or industrial economic growth percentage by CityGate and year**

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Cumulative Impacts

- Growth factors are primarily cumulative, growth in one year impacts growth in subsequent years.
- Forecast model allows for non cumulative impacts that modify demand at a specified CityGate and time period.
- Normal demand resumes after non cumulative impact event is over.

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Growth Scenarios

- Forecast assumes three different growth scenarios.
- Base case assumes expected growth with figures primarily from growth factors derived from W&P population and economic employment forecast.
- High growth scenario assumes high economic and population growth and boosts growth by a given percentage (50%).
- Low growth scenario assumes low economic and population growth and decreases growth by a given percentage (50%).

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Growth Tab

GATE As Defined in Foreca:	Tariff	W&P population/economic growth	Apply EIA Efficiency	2015	2016	2017
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA502	Population Growth	No	0.0%	0.5%	1.0%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA503	Population Growth	No	0.0%	0.5%	1.0%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA504	Economic Growth	No	0.0%	1.2%	2.4%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA505	Economic Growth	No	0.0%	0.5%	0.8%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA511	Economic Growth	No	0.0%	1.4%	2.8%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA570	Economic Growth	No	0.0%	0.4%	0.6%

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Weather Data

- Define weather in terms of HDDs (Heating Degree Day).
- 30 years of weather data for seven weather stations was used to make weather scenarios.
- Weather data is from Schneider Electric.
- Assign a weather station to each CityGate or CityGate Loop.

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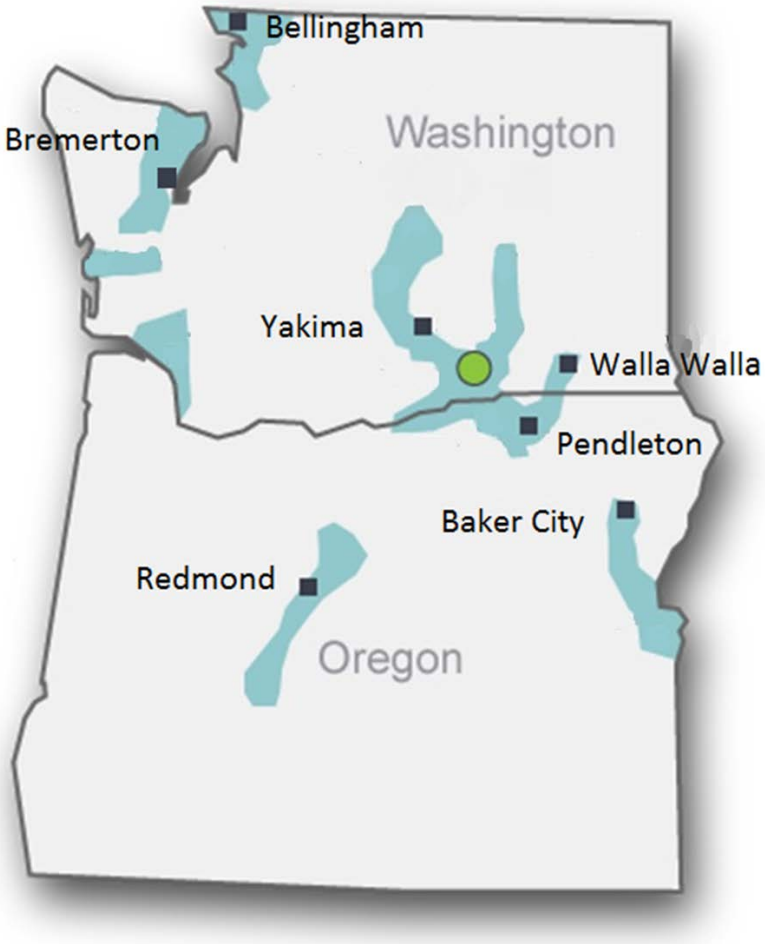
Weather Stations



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Weather Scenario

- The average scenario forecast assumes weather (HDD) for 12 months of the year from the 30 year average.
- Average weather scenario is the base case forecast.
- Same demand equations were used to forecast the peak demand day for each citygate.

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Weather Scenarios

- For weather scenarios, system wide HDDs are used by giving appropriate weight to the weather stations that have greater impact on system wide demand.
- To determine the high case HDD weather scenario, the six coldest years were selected (20% of the coldest years out of 30). These years have the highest yearly total of HDDs.
- To determine the low case HDD weather scenario, the six warmest years were selected (20% of the warmest years out of 30). These years have the lowest yearly total of HDDs.

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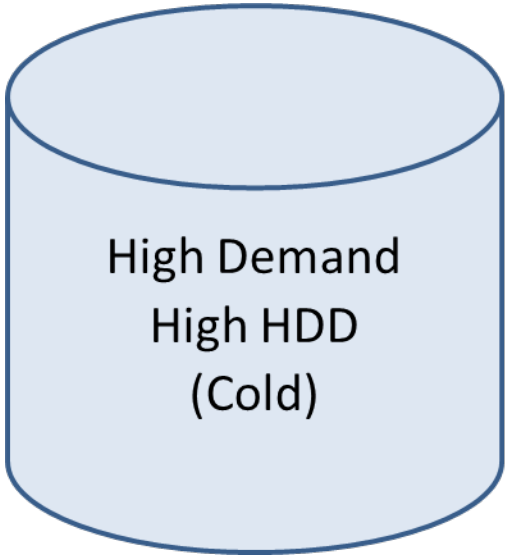
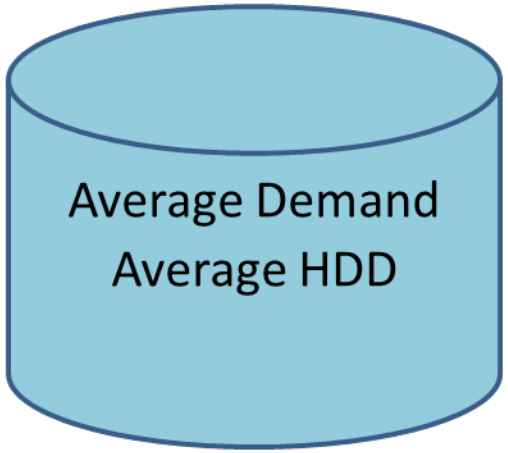
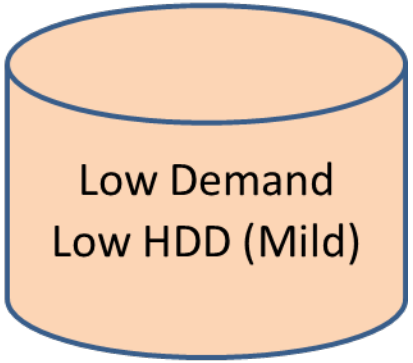
Normal Weather 1986-2015

WeatherStatio	City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
KBKE	Baker City	33.28	28.47	20.62	15.12	8.19	3.08	0.33	0.51	4.03	13.82	25.48	33.09
KBLI	Bellingham	19.89	18.45	15.02	10.74	5.64	1.96	0.34	0.26	2.58	8.94	15.91	20.53
KPWT	Bremerton	20.13	19.06	15.47	11.93	6.47	2.68	0.50	0.37	2.37	8.97	16.74	21.15
KPDT	Pendleton	24.72	21.64	14.81	9.60	4.11	0.82	0.03	0.04	1.03	8.05	18.59	25.84
KRDM	Redmond	25.64	24.20	18.88	14.79	8.58	3.36	0.54	0.58	3.66	11.56	21.16	27.37
KALW	Walla Walla	23.70	20.38	12.85	7.58	2.82	0.45	0.00	0.02	0.51	6.39	17.29	24.93
KYKM	Yakima	28.25	23.25	16.24	10.12	3.96	0.92	0.08	0.09	1.71	10.00	21.51	29.82







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Linear Regression Analysis for previous model

GATE As Defined in Fore	State	Weather Station	b	c	R^2
MCCLEARY (ABERDEEN/HOQUIAM)	Washington	Bremerton	111.71	657.73	0.93
ACME	Washington	Bellingham	2.03	2.56	0.98
ARLINGTON	Washington	Bellingham	98.60	611.77	0.96
ATHENA	Oregon	Pendleton	9.45	45.45	0.89
BAKER	Oregon	Baker City	55.67	153.95	0.98
BREMERTON (SHELTON)	Washington	Bremerton	631.49	2429.23	0.96
UMATILLA	Oregon	Pendleton	19.86	105.52	0.83
CASTLE ROCK	Washington	Bremerton	2.79	15.72	0.85
CHEMULT	Oregon	Redmond	0.75	5.55	0.80
WALLA WALLA	Washington	Walla Walla	238.55	1098.85	0.99
GILCHRIST	Oregon	Redmond	3.81	9.05	0.91
DEMING	Washington	Bellingham	3.21	9.21	0.95
WENATCHEE	Washington	Yakima	72.16	436.45	0.95

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Linear Regression Analysis for new model

GATE As Defined in Fo	Tariff		Weather Statio	Analysis Start	Analysis End	b	c	R^2
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA502	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA502	Bremerton	1/1/2004	12/1/2015	0.01	0.00	0.11
		MCCLEARY						0.36
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA503	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA503	Bremerton	1/1/2004	12/1/2015	0.02	0.04	0.95
		MCCLEARY						0.92
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA504	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA504	Bremerton	1/1/2004	12/1/2015	0.06	0.31	0.93
		MCCLEARY						0.88
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA505	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA505	Bremerton	1/1/2004	12/1/2015	0.27	1.76	0.76
		MCCLEARY						0.68
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA511	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA511	Bremerton	1/1/2004	12/1/2015	2.17	61.31	0.53
		MCCLEARY						0.37
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA570	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA570	Bremerton	1/1/2004	12/1/2015	0.31	35.53	0.03
		MCCLEARY						0.57

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Tariff Allocation

GATE	TARRIF	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA502	0.02%	0.02%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.03%	0.02%	0.02%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA503	44.00%	42.86%	42.46%	40.31%	35.21%	29.10%	26.83%	25.55%	32.25%	40.51%	44.80%	44.93%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA504	40.36%	38.81%	38.47%	37.71%	37.42%	36.86%	38.51%	38.40%	38.31%	37.98%	39.81%	40.51%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA505	1.96%	2.75%	2.30%	2.48%	2.47%	2.61%	2.70%	2.67%	2.60%	2.21%	2.23%	2.22%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA511	11.97%	13.93%	14.70%	16.87%	21.80%	25.96%	27.93%	28.59%	23.80%	17.31%	12.40%	11.36%
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA570	1.69%	1.62%	2.06%	2.63%	3.09%	5.46%	4.03%	4.78%	3.04%	1.96%	0.74%	0.96%

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Linear Regression Analysis for new model

GATE As Defined in Fo	Tariff		Weather Statio	Analysis Start	Analysis End	b	c	R^2
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA502	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA502	Bremerton	1/1/2004	12/1/2015	0.01	0.00	0.11
		MCCLEARY						0.36
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA503	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA503	Bremerton	1/1/2004	12/1/2015	0.02	0.04	0.95
		MCCLEARY						0.92
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA504	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA504	Bremerton	1/1/2004	12/1/2015	0.06	0.31	0.93
		MCCLEARY						0.88
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA505	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA505	Bremerton	1/1/2004	12/1/2015	0.27	1.76	0.76
		MCCLEARY						0.68
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA511	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA511	Bremerton	1/1/2004	12/1/2015	2.17	61.31	0.53
		MCCLEARY						0.37
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA570	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA570	Bremerton	1/1/2004	12/1/2015	0.31	35.53	0.03
		MCCLEARY						0.57

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Previous Linear Regression Analysis

- Weather is the input variable and gas demand is the output:

$$\boldsymbol{Demand = b \times WeatherHDD + C}$$

- Where b is demand/HDD and C is the constant baseload demand.

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New Linear Regression Analysis

- Weather and Customers are the input variables and gas demand is the output:

$$\boldsymbol{Demand = b \times WeatherHDD \times Customers + C \times Customers}$$

- Where b is demand/HDD/Customer and C is the constant baseload demand/Customer.
- Goal is to predict demand at each CityGate/loop based on given weather (HDD) and customer.
- Perform a linear regression or best fit analysis of monthly gas demand versus monthly HDDs and customers at each citygate for the past 12 years of data.

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Linear Regression Analysis for new model

GATE As Defined in Fo	Tariff		Weather Statio	Analysis Start	Analysis End	b	c	R^2
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA502	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA502	Bremerton	1/1/2004	12/1/2015	0.01	0.00	0.11
		MCCLEARY						0.36
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA503	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA503	Bremerton	1/1/2004	12/1/2015	0.02	0.04	0.95
		MCCLEARY						0.92
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA504	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA504	Bremerton	1/1/2004	12/1/2015	0.06	0.31	0.93
		MCCLEARY						0.88
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA505	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA505	Bremerton	1/1/2004	12/1/2015	0.27	1.76	0.76
		MCCLEARY						0.68
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA511	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA511	Bremerton	1/1/2004	12/1/2015	2.17	61.31	0.53
		MCCLEARY						0.37
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA570	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA570	Bremerton	1/1/2004	12/1/2015	0.31	35.53	0.03
		MCCLEARY						0.57

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Goodness of fit

- In the previous model if the R^2 was below the 80% threshold, we would use previous year's demand with growth applied as the forecast.
- Using the previous year's demand is a type of forecasting. This is called the naïve forecast.

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Goodness of fit

- In the new model, both the linear forecast and the naïve forecast method were analyzed.
- The naïve method is a method of using the previous year's demand as the current year's demand. (Ex. January 2015 forecast would use January 2014 actuals).
- If the correlation for the naïve model is higher than the correlation for the linear regression, then the naïve method is used.
- If the correlation for the naïve model is lower than the correlation for the linear regression, then the linear regression is used.

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Heating Degree Day (HDD)

- Heating degree day is used as the unit of measure for weather in the linear regression analysis .
- Heating degree day is calculated by:
  - Determine average high and low temperature for a given day.
  - Daily average is subtracted from an HDD threshold (for example 60°F).
  - If this produces a negative number, a value of zero is assigned.
- Example:
  - Daily high temperature = 60°F; Daily low temperature = 50°F
  - Calculate average → 55°F
  - Subtract from HDD threshold (we will use 60): 60-55 = 5
  - This example day has 5 HDD

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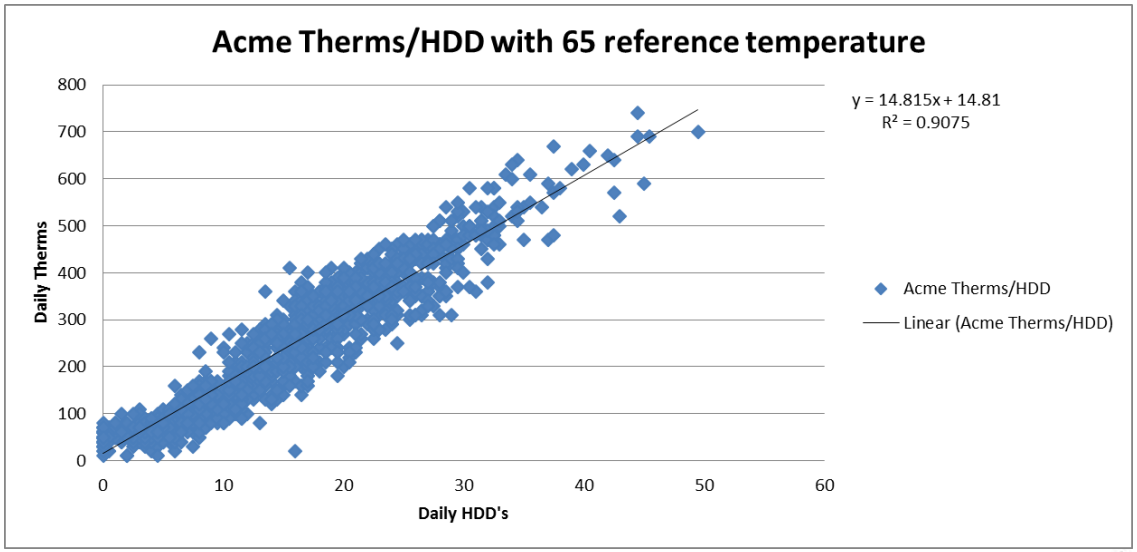
65 vs 60 HDD Threshold

- The historical threshold for calculating HDD has been 65°F .
- It was determined that lowering the threshold to 60°F produces better results for Cascade's service territory.
- The graph shows that heating demand does not begin to increase until an HDD of five if the traditional 65°F is utilized.



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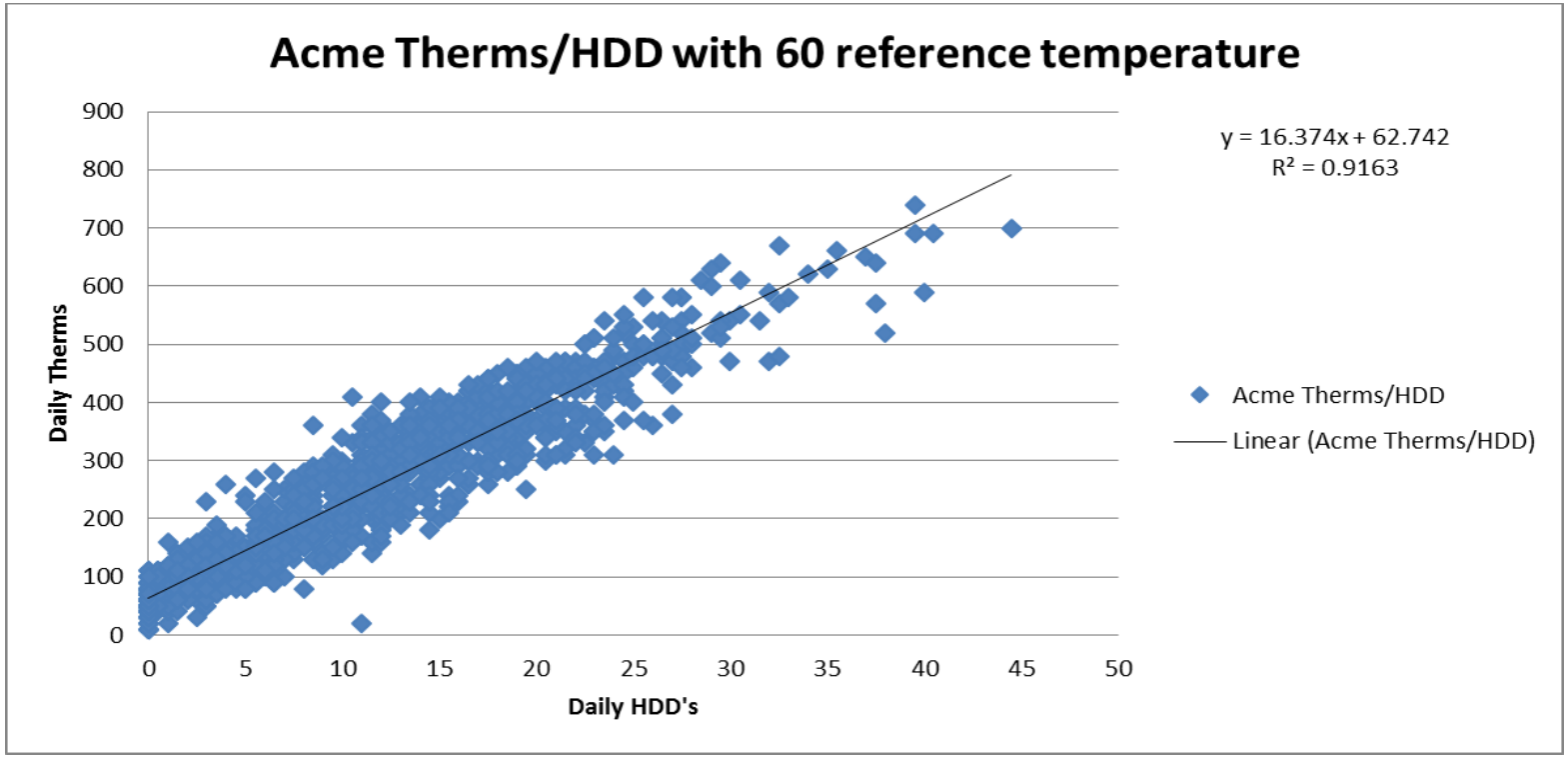
Acme Therms/HDD with 60 degree reference temperature



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Final Demand Forecast

- The Monthly Demand Forecast by year, month, rate schedule and CityGate was based upon:
  - The calculated forecast for weather dependent load plus the most recent year's (2015) non weather dependent core load with applied growth factors.
  - Core load was forecasted by CityGate by rate schedule.

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Demand Forecast

Month	Tariff	System Demand (Dth)	OR Forecast (Dth)	WA Forecast (Dth)	PRINEVILLE	REDMOND	STANFIELD	STEARNS (SUNRIVER)	DAVE RASMUSSEN	PRONGHORN	SOUTH HERMISTON	KOSMOS FARMS	Bend Loop	MCCLEARY (ABERDEEN/HOQUIAM)	ACME	ARLINGTON
Jan-16	CNGOR101	639,215	639,215	-	18,831	63,707	2,634	52,297	-	3,950	-	-	318,275	-	-	-
Jan-16	CNGOR104	430,036	430,036	-	21,059	47,065	1,142	12,781	-	2,551	-	-	160,653	-	-	-
Jan-16	CNGOR105	34,191	34,191	-	3,892	5,387	-	179	-	-	-	-	4,044	-	-	-
Jan-16	CNGOR111	20,155	20,155	-	2,160	1,532	-	-	-	-	-	-	3,325	-	-	-
Jan-16	CNGOR170	31,670	31,670	-	-	-	-	-	-	-	-	-	-	-	-	-
Jan-16	CNGWA502	4,984	-	4,984	-	-	-	-	-	-	-	-	-	16	-	68
Jan-16	CNGWA503	1,927,602	-	1,927,602	-	-	-	-	-	-	-	-	-	38,396	793	48,833
Jan-16	CNGWA504	1,296,095	-	1,296,095	-	-	-	-	-	-	-	-	-	34,559	566	26,012
Jan-16	CNGWA505	187,013	-	187,013	-	-	-	-	-	-	-	-	-	2,865	-	4,016
Jan-16	CNGWA511	110,388	-	110,388	-	-	-	-	-	-	-	-	-	9,727	-	-
Jan-16	CNGWA512	349	-	349	-	-	-	-	-	-	-	-	-	-	-	-
Jan-16	CNGWA541	234	-	234	-	-	-	-	-	-	-	-	-	-	-	-
Jan-16	CNGWA570	49,771	-	49,771	-	-	-	-	-	-	-	-	-	1,233	-	-
Jan-16	CNGWA577	2,708	-	2,708	-	-	-	-	-	-	-	-	-	-	-	-
Feb-16	CNGOR101	536,778	536,778	-	16,468	55,474	1,524	45,802	-	3,547	-	-	280,495	-	-	-
Feb-16	CNGOR104	364,337	364,337	-	18,447	40,939	862	11,408	-	2,264	-	-	141,839	-	-	-
Feb-16	CNGOR105	28,667	28,667	-	4,151	4,789	-	146	-	-	-	-	3,270	-	-	-
Feb-16	CNGOR111	16,749	16,749	-	1,885	1,326	-	-	-	-	-	-	2,997	-	-	-
Feb-16	CNGOR170	17,880	17,880	-	-	-	-	-	-	-	-	-	-	-	-	-

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Demand Forecast

Forecast T	System Demand (	OR Forecast (I	WA Forecast (I	Bend Loop	MCCLEARY (ABERDEEN/HOQUIAM)	ACME	ARLINGTON
Jan-16	4,734,411	1,155,266	3,579,145	486,297	86,796	1,359	78,930
Feb-16	3,931,601	964,411	2,967,189	428,601	77,123	1,180	65,915
Mar-16	3,191,664	773,888	2,417,776	358,506	68,394	1,042	60,937
Apr-16	2,328,744	588,224	1,740,520	280,209	54,363	740	48,654
May-16	1,531,821	390,361	1,141,460	194,486	38,447	447	32,638
Jun-16	1,010,988	244,620	766,368	120,806	27,163	223	22,231
Jul-16	870,305	203,300	667,005	91,787	22,041	140	19,073
Aug-16	870,069	205,127	664,941	92,242	21,805	136	19,382
Sep-16	1,144,404	270,682	873,722	125,496	25,866	260	25,180
Oct-16	2,086,188	517,724	1,568,464	240,219	42,302	647	41,865
Nov-16	3,656,233	917,597	2,738,637	397,236	66,929	1,056	70,562
Dec-16	5,018,787	1,251,669	3,767,118	537,912	86,668	1,404	85,358

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Peak Day Forecast

- 3 Peak Day Scenarios:
  - Average Peak Day
  - Max Peak Day
  - CityGate Peak Day
- HDD weighting
  - To determine the peak day HDDs Cascade had to weight each HDD based on weather location.
    - Held customer count to the December 2015 actual and used the coefficient b in the linear regressions.
    - The amount of demand at each weather location based on an increase in 1 HDD determined how each weather location should be weighted.

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System Weighted HDD

	b	Dec 2015 CC	ΔHDD					
Baker CNGOR101	0.01	3274	1	34.6				
	Baker City	**Bellingham**	**Bremerton**	**Pendleton**	**Redmond**	**Walla Walla**	**Yakima**	
Sum of Coefficient (b)	144	1,814	919	252	846	893	797	***5,667***
Weather Weight	3%	32%	16%	4%	15%	16%	14%	
12/31/2015	HDD	Weights						
Baker City	49	3%	1.23					
Bellingham	29	32%	9.28					
Bremerton	28	16%	4.54					
Pendleton	38	4%	1.69					
Redmond	40	15%	5.90					
Walla Walla	36	16%	5.60					
Yakima	42	14%	5.91					
			34					

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Average Peak Day Forecast

- The Average Peak Day Forecast ensures that Cascade can plan for the expected peak day during a year.
  - Using the weighted HDDs, Cascade found the coldest day in each of the most recent 30 years (1986-2015).
  - Using those HDDs, Cascade averaged each day for each weather location to come up with 7 HDDs.
  - Those HDDs were then applied to the regressions to come up with an average peak day forecast.

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Max Peak Day Forecast

- The Max Peak Day Forecast allows Cascade to plan for the coldest day in the past 30 years with today's usage rates and customer counts.
  - Using the weighted HDDs, Cascade found the coldest day from the past 30 years (This is December 21st, 1990).
  - The HDDs for each weather location from this day were used in the regressions to come up with the Max Peak Day Forecast.

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CityGate Peak Day Forecast

- The CityGate Peak Day Forecast allows Cascade to plan for the coldest day in the past 30 years at each individual weather location.
  - Using weather location HDDs, Cascade found the coldest HDD in the past 30 years for each individual weather location.
  - The HDDs for each weather location were used in the regressions to come up with the CityGate Peak Day Forecast.

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Max and CityGate Peak HDDs

			Max Peak HDD						
Peak Rank	System Peak Day	System Peak HDD	Baker City	Bellingham	Bremerton	Pendleton	Redmond	Walla Walla	Yakima
1	12/21/90	55.9	70.5	46	46	67	70.5	65	58
2	02/03/89	53.7	68	46	46	63.5	64.5	60.5	55.5
3	12/29/90	52.4	60	47	44	65.5	53.5	59	60
4	12/20/90	51.6	59	46	42	63	62	57.5	53
5	12/22/90	51.4	72.5	41	41.5	61.5	62.5	60.5	57.5
6	02/02/89	51.2	52	51.5	45	60.5	50	53	53.5
7	01/05/04	50.0	70	39	37	63	55.5	64	61
8	01/30/96	50.0	61.5	40.5	37	64	55.5	63.5	59

City Gate Peak HDD						
Baker City	Bellingham	Bremerton	Pendleton	Redmond	Walla Walla	Yakima
72.5	51.5	46	67	70.5	65.5	64.5

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Average Peak Demand Day Forecast

Forecast Tim	Peak Day Demand (Dtl	OR Peak Day (Dth)	WA Peak Day (Dth)	Bend Loop	MCCLEARY (ABERDEEN/HOQUIAM)	ACME	ARLINGTON	BREMERTON (SHELTON)	CASTLE ROCK	WALLA WALLA
2016	270,725	69,847	200,878	28,614	4,201	78	4,420	26,774	129	12,295
2017	273,626	70,809	202,817	29,022	4,236	79	4,478	27,159	130	12,423
2018	276,453	71,767	204,687	29,448	4,265	80	4,538	27,528	132	12,545
2019	279,289	72,693	206,596	29,856	4,295	82	4,595	27,896	134	12,662
2020	282,132	73,643	208,490	30,282	4,325	83	4,655	28,265	135	12,786
2021	285,000	74,613	210,387	30,727	4,355	84	4,712	28,634	137	12,902
2022	287,848	75,579	212,269	31,172	4,383	85	4,770	29,002	138	13,014
2023	290,743	76,545	214,198	31,617	4,411	86	4,827	29,370	140	13,129
2024	293,646	77,530	216,116	32,080	4,439	87	4,884	29,756	141	13,248
2025	296,561	78,517	218,044	32,544	4,466	89	4,940	30,124	143	13,359

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Max Peak Demand Day Forecast

Forecast Tim	Peak Day Demand (Dtl	OR Peak Day (Dth)	WA Peak Day (Dth)	Bend Loop	MCCLEARY (ABERDEEN/HOQUIAM)	ACME	ARLINGTON	BREMERTON (SHELTON)	CASTLE ROCK	WALLA WALLA
2016	349,810	95,986	253,825	41,080	5,481	97	5,387	34,675	153	17,211
2017	353,593	97,332	256,261	41,670	5,526	99	5,458	35,171	155	17,390
2018	357,287	98,675	258,612	42,287	5,563	100	5,531	35,646	157	17,560
2019	360,988	99,974	261,014	42,877	5,603	102	5,601	36,120	159	17,722
2020	364,703	101,307	263,396	43,494	5,643	103	5,674	36,594	161	17,895
2021	368,457	102,672	265,785	44,138	5,681	104	5,744	37,069	163	18,057
2022	372,183	104,031	268,152	44,782	5,718	106	5,814	37,543	165	18,213
2023	375,973	105,390	270,584	45,426	5,754	107	5,883	38,016	166	18,373
2024	379,776	106,778	272,998	46,096	5,790	109	5,953	38,513	168	18,538
2025	383,594	108,168	275,426	46,767	5,826	110	6,022	38,987	170	18,693

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CityGate Peak Demand Day Forecast

Forecast Tim	Peak Day Demand (Dtl	OR Peak Day (Dth)	WA Peak Day (Dth)	Bend Loop	MCCLEARY (ABERDEEN/HOQUIAM)	ACME	ARLINGTON	BREMERTON (SHELTON)	CASTLE ROCK	WALLA WALLA
2016	365,474	96,274	269,201	41,080	5,481	108	5,955	34,675	153	17,333
2017	369,388	97,622	271,766	41,670	5,526	110	6,033	35,171	155	17,514
2018	373,207	98,966	274,241	42,287	5,563	112	6,115	35,646	157	17,684
2019	377,039	100,266	276,772	42,877	5,603	113	6,192	36,120	159	17,847
2020	380,882	101,600	279,282	43,494	5,643	115	6,272	36,594	161	18,022
2021	384,765	102,966	281,800	44,138	5,681	116	6,349	37,069	163	18,185
2022	388,620	104,326	284,294	44,782	5,718	118	6,427	37,543	165	18,342
2023	392,544	105,685	286,858	45,426	5,754	120	6,504	38,016	166	18,503
2024	396,476	107,075	289,401	46,096	5,790	121	6,581	38,513	168	18,670
2025	400,427	108,466	291,961	46,767	5,826	123	6,657	38,987	170	18,825

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Summary

- Cascade acknowledges 2014 IRP issues and plans to resolve those in the 2016 IRP.
- Demand Forecast Model
  - Methodology
  - Assumptions
  - Scenarios
  - Results

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Questions/Next Steps

- **Review Plans for TAG 2 Discussion**
  - **Update on any Action items.**
  - **Drill down further into the 20 year forecast, select CityGates and customer segments.**
  - **Current and Potential Supply Resources.**
  - **Next TAG is Tuesday, July 19th at SeaTac International Airport Conference Center.**

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1st External TAG Meeting

6/16/2016, 9:00 - 10:40 AM

Presenters: Mark Sellers-Vaughn & Brian Robertson

In attendance: Mark Sellers-Vaughn, Brian Robertson, Bob Morman, Mike Parvinen, Marty Saldivar – NWP, David Nightingale & Kathi Scanlan – WUTC

Called in: Kary Burin, Garret Senger, Amanda Sargent, Chad Luginbill, Josh Romine, Miki Bode Jones – NWP, Tom Pardee – Avista, Monica Cowlisha, Jeremy Ogden, Carolyn Stone, Pam Archer, Becky Mellinger, Brian Hoyle, Mike Clapp, Chris Robbins & Eric Wood

Minutes by: Carolyn P Stone

Bob Morman introduced himself and welcomed all of today's participants. He discussed the Cascade 2014 IRP not being recognized by the Commission. He assures that he, as well as the IRP staff at Cascade is committed to Success for the 2016 IRP!

Mark then lead the group through today's agenda

Mark named the members of the newly formed IRP Steering Committee as follows:

- Garret Senger
- Bob Morman
- Mike Parvinen

The finished plan to hire a consultant is to be presented for approval to the IRP Steering Committee.

Next was discussion of issues that caused the 2014 IRP to not be recognized. Mark went over our plans for resolution to all of these issues, including the organization and presentation of it. It will really be cleaned up!

Brian Robertson then went over the contents of the IRP, as follows:

CNG Demand Study:

●CNG contracted MRE and Gilbert & Associates to help build a model including customer core natural gas demand and peak demand for 20 years.
●Shows demand at the City Gate & City Gate loop level
●Demand is weather and customer driven, rolling 30 years using "Normal' temps

Inputs include:

*Historical demand = Pipeline EBB, GMS (Aligne), & CC&B
*Weather = Schneider Electric
*Population & Economic data = Woods & Poole
*Customer Count = CC&B

*Assumption of 1% increase in population & in employment

●Last year non-weather dependent demand was used. Customers ramp up production based on season... These customers were removed prior to the demand run. Demand was placed back in for forecast.

Question 1: Does this show a "system wide event" that drives heating demand?
Answer: We use 3 types of Peak Day forecasts. We will go through those.
Question 2: Is this linear only?
Answer: The current model is linear only. We will improve/change this forecast by analyzing other regressions to get a bigger broader picture in the future.

Forecast & Results:
●Demand data = Pipeline EBB's & GMS (Aligne)
●Data verification & customer count = CC&B

Growth Data:
●Woods & Poole State profile data used

Question: Were demand profiles done for each SIC code? Growth numbers for educational services for example....
Answer: We will be taking a look at that.

Residential Growth:
●Population growth (1%) via Woods & Poole

Growth Scenarios
●3 used, Base Case, high growth + 50% and low growth -50%

Weather Data = HDD
Using Schneider Electric data
●30 years
●Has a more rural focus representative of our service territory (not just airports)
●This service uses NOAA and provides consistency

Weather Stations:

●Uses 7 stations

Question: On the low side, would the growth get below zero...i.e. negative growth?
Answer: YES

Tariff Allocation:

●Weighted Average used for every Citygate and every Rate Schedule
●Manual adjustments can be made to correct and smooth data

Previous Linear Regression vs Current Linear Regression

Goodness of fit:
●Naïve Methodology vs Regression

HDD Calculation:
● High & Low average

Why use 65 vs 60?
●60 is better for our service territory
●Linear model is a better fit with 60.

Final Demand Forecast:
● Year, Month, RS, Citygate, Zone District (or can create an area "sectors")
●Core load forecasted by City Gate by RS

Weather Scenario:
●Average is base case
●6 warmest/coldest years selected for high/low scenario

Peak Day Forecasts:
●Weighted each HDD based on its weather location
●Average - Cascades plans for expected Peak day during the year!
●Max - Plan for coldest day in past 30 years, on 12/21/1990
●Citygate - At each weather location

Question: Max Peak Day – using the coldest day as they happen, projected forward?
Answer: YES
Question: Did you look at the engineering side and system planning?
Answer: YES

Mark Summarized:
1. We intend to resolve the 2014 issues
2. We will continue to work on solid methodologies

●Still 2 months until we lock down the forecast so those numbers CAN change.

Mark stated that if there are any particular Citygates or Customer Segments wanted, please let them know.

Action Plan:
1. Cascade will work on gathering growth information from other locations to compare with Woods & Poole.
2. We will verify distribution planning information with Engineering for peak day analysis.

Question: The City Gate Peak Demand is good, but how does Cascade use that information?
Answer: This will be addressed at TAG 3.

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #2

Tuesday, July 19, 2016
Seattle-Tacoma International Airport
Conference Center

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Agenda

- **Introductions**
- **IRP staffing and Support Update**
- **Cascade demand study review from TAG 1**
- **Results**
  - **Comparison to 2011 and 2012 IRP**
  - **Annual base case**
  - **Scenario results**
  - **Tariff Breakdown**
  - **Peak Day**
  - **Scenario HDDs**
- **Cascade Gas Supply Overview**
  - **Current Resources**
  - **Transport**
  - **Supply**
  - **Alternative Resources**
- **Next Steps**

IRP Staffing and Support

- Two positions added
- Resource planning analysts
- First new analyst starts late July
- Have posted for the second new analyst

- Hired Bruce Folsom as IRP consultant

IRP CONSULTANT

- Cascade has hired Bruce Folsom
- 23 years with Avista Corporation
- 8 years with the Washington Utilities and Transportation Commission (WUTC)
- Bruce has a B.S. in Environmental Studies from the University of Washington and an MBA in Business Administration from Seattle University.

Among consultant tasks and deliverables

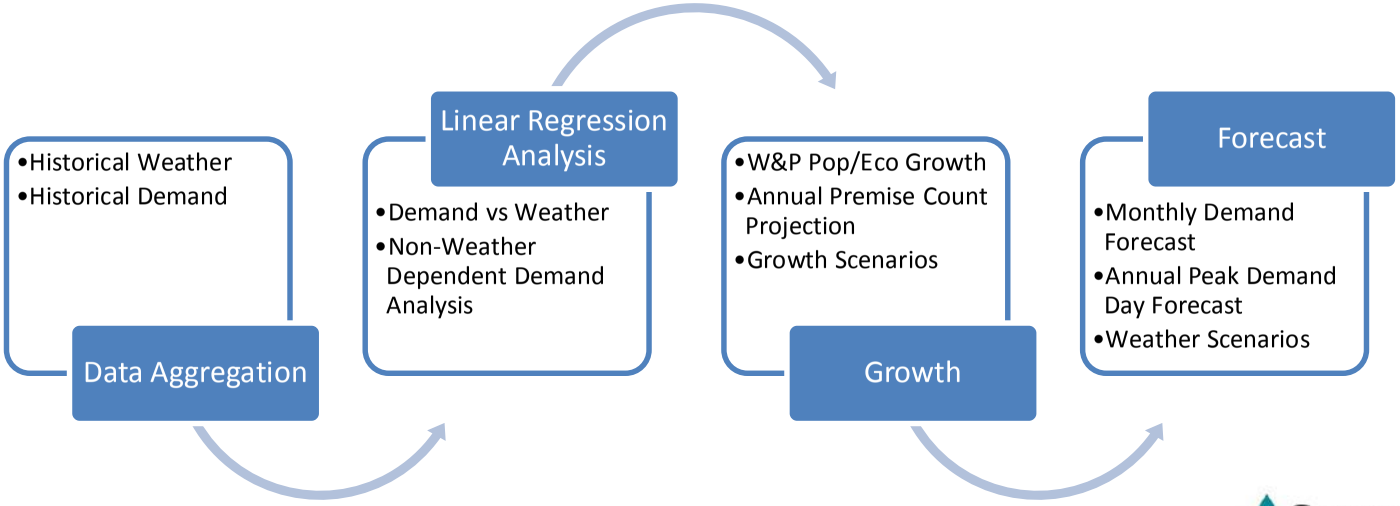
- Providing recommendations and guidance to internal IRP team, suggesting alternative solutions, identify potential regulatory solutions related to the IRP, and assist in the development of the narrative of the 2016 WA IRP and addressing the 2017 OR IRP Annual Update.
- Produce a discussion narrative on Alternative Forecasting Methodologies
- Produce a discussion narrative on price elasticity in the Pacific Northwest region
- Produce a discussion narrative on carbon legislation impacts on price forecast, system, supplies and recommend how Cascade should describe its “carbon policy” as it relates to the IRP
- Working with the internal IRP team on ensuring the Company meets all OR and WA IRP guidelines
- Assist Cascade in addressing open OPUC DRs from the 2014 IRP.

CASCADE DEMAND STUDY

Recap of the 20 Year demand forecast

Overview

- The Cascade demand forecast developed for the IRP is a forecast of customers, core natural gas demand, and core peak demand for the next 20 years.
- Cascade's core load consists of approximately 53% residential and 47% commercial and industrial.



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Overview

- Forecast demand at the CityGate and CityGate Loop level.
- CityGate Loops are a group of CityGates that service a similar area that are forecasted together due to pipeline operations.
- CNGC forecast model is flexible giving Cascade the ability to:
  - Update input data (gas demand and weather)
  - Modify assumptions
  - Modify CityGates and loops to be forecasted
  - Run several scenarios

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Key Assumptions

- Seven weather locations effectively cover Cascade's service territory.
- Using population growth assumes 1% increase in population translates to a 1% increase in residential customer count.
- Using employment growth assumes 1% increase in employment translates to a 1% increase in commercial and industrial customer count.

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Key Points

- Cascade's demand is principally weather and customer driven; the colder the weather or greater the customer count, the greater the demand.
- This forecast uses 30 years of recent weather history as the "normal" temperatures.
- Forecasted under various weather and growth scenarios – average year, cold year, warm year, extreme cold day, high growth, low growth, etc.
- Analyze weather and demand for each of 55 CityGates and CityGate Loops that serve Core customers.
- Growth factors are applied to each of the 20 years in the forecast for each CityGate.
- Heating demand does not appreciatively start until average temps dip below 60° F, therefore a 60° F threshold is used.

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Input Data

- Historical Demand
  - Pipeline actuals
  - Gas Management System (GMS)
  - Customer Care and Billing (CC&B)
- Weather
  - Schneider Electric
- Population and Economic
  - Woods & Poole
  - Acquiring local market intelligence
- Customer Count
  - CC&B

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Demand Data

- Historical core monthly demand by CityGate was primarily drawn from:
  - Pipeline actuals from Electronic Bulletin Board (EBB)
  - Cascade's own Gas Management System (GMS)
- Also examined CC&B (Customer Care and Billing) for data verification and premise count information.
- Analyzing demand data from 2004 to 2015.

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Weather Data

- Define weather in terms of HDDs (Heating Degree Day).
- 30 years of weather data for seven weather stations was used to make weather scenarios.
- Weather data is from Schneider Electric.
- Assign a weather station to each CityGate or CityGate Loop.

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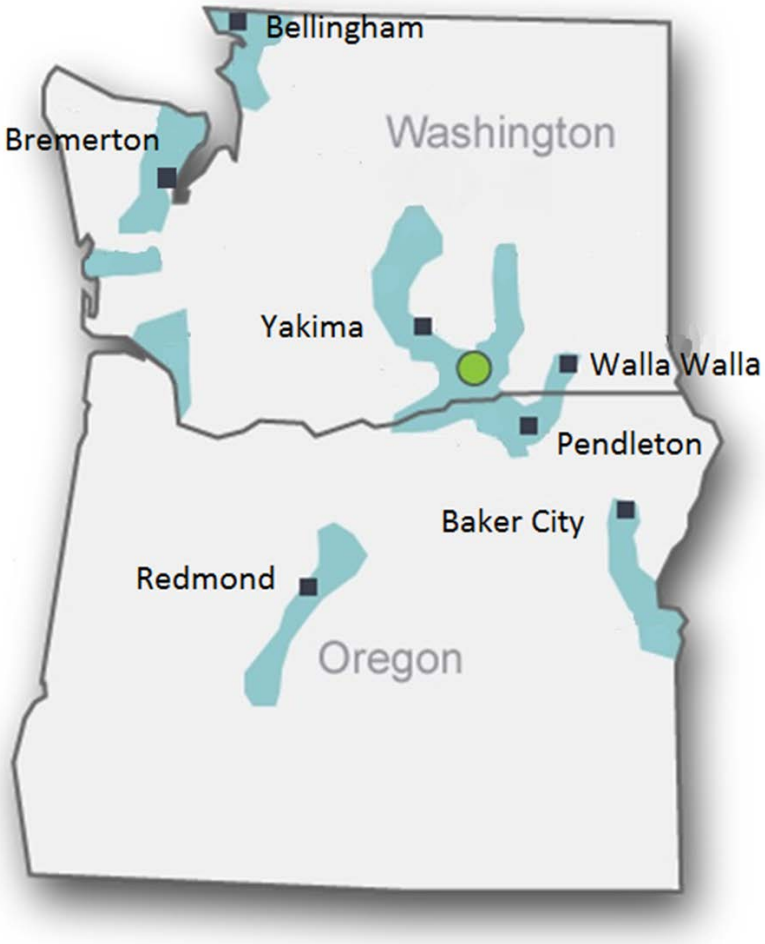
Weather Stations



- The seven weather stations are shown on the map.
- Cascade's customer base is shaded in aqua.
- Each CityGate and loop is assigned to a weather station.

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New Linear Regression Analysis

- Weather and Customers are the input variables and gas demand is the output:

$$\boldsymbol{Demand = b \times WeatherHDD \times Customers + C \times Customers}$$

- Where b is demand/HDD/Customer and C is the constant baseload demand/Customer.
- Goal is to predict demand at each CityGate/loop based on given weather (HDD) and customer.
- Perform a linear regression or best fit analysis of monthly gas demand versus monthly HDDs and customers at each citygate for the past 12 years of data.

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Linear Regression Analysis for new model

GATE As Defined in Fo	Tariff		Weather Statio	Analysis Start	Analysis End	b	c	R^2
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA502	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA502	Bremerton	1/1/2004	12/1/2015	0.01	0.00	0.11
		MCCLEARY						0.36
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA503	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA503	Bremerton	1/1/2004	12/1/2015	0.02	0.04	0.95
		MCCLEARY						0.92
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA504	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA504	Bremerton	1/1/2004	12/1/2015	0.06	0.31	0.93
		MCCLEARY						0.88
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA505	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA505	Bremerton	1/1/2004	12/1/2015	0.27	1.76	0.76
		MCCLEARY						0.68
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA511	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA511	Bremerton	1/1/2004	12/1/2015	2.17	61.31	0.53
		MCCLEARY						0.37
MCCLEARY (ABERDEEN/HOQUIAM)	CNGWA570	MCCLEARY (ABERDEEN/HOQUIAM)-CNGWA570	Bremerton	1/1/2004	12/1/2015	0.31	35.53	0.03
		MCCLEARY						0.57

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Heating Degree Day (HDD)

- Heating degree day is used as the unit of measure for weather in the linear regression analysis .
- Heating degree day is calculated by:
  - Determine average high and low temperature for a given day.
  - Daily average is subtracted from an HDD threshold (for example 60°F).
  - If this produces a negative number, a value of zero is assigned.
- Example:
  - Daily high temperature = 60°F; Daily low temperature = 50°F
  - Calculate average → 55°F
  - Subtract from HDD threshold (we will use 60): 60-55 = 5
  - This example day has 5 HDD

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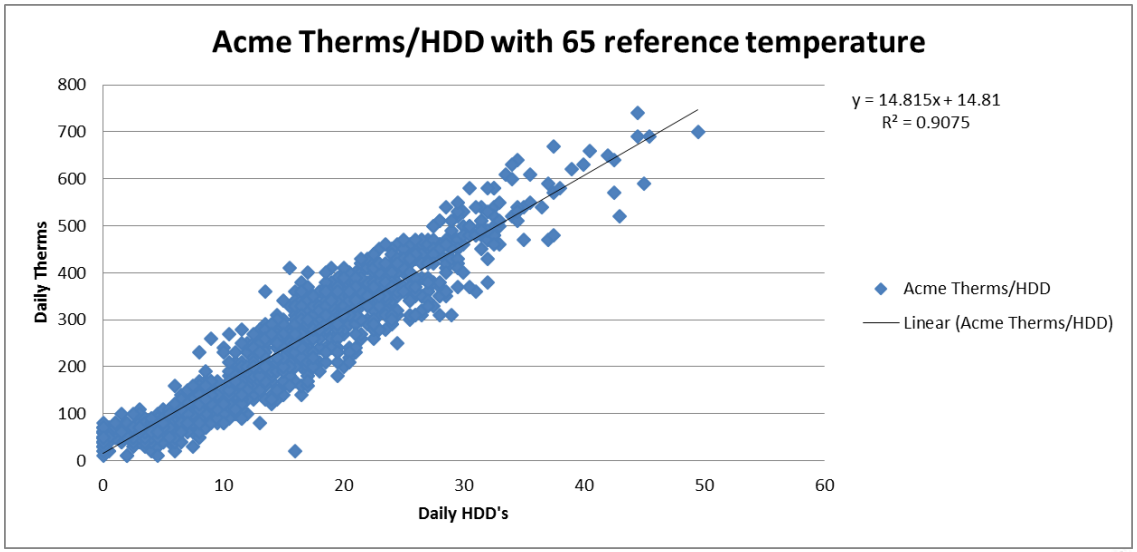
65 vs 60 HDD Threshold

- The historical threshold for calculating HDD has been 65°F .
- It was determined that lowering the threshold to 60°F produces better results for Cascade's service territory.
- The graph shows that heating demand does not begin to increase until an HDD of five if the traditional 65°F is utilized.



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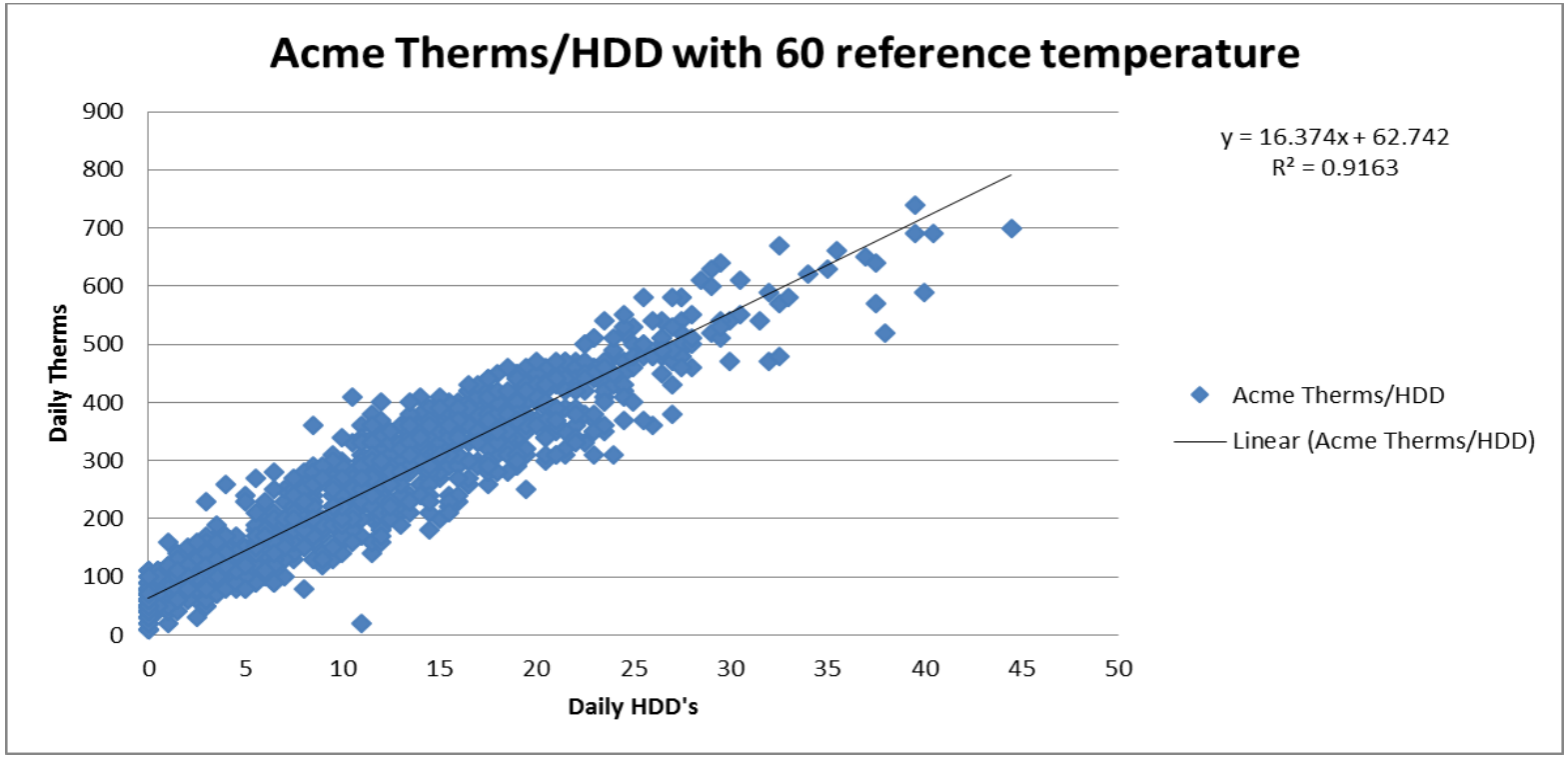
Acme Therms/HDD with 60 degree reference temperature



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Forecast Scenarios

- Base case is normal weather with expected customer growth.
- Sensitivity capability for cold and warm weather.
- Sensitivity for low and high customer growth.

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Weather Scenarios

- For weather scenarios, system wide HDDs are used by giving appropriate weight to the weather stations that have greater impact on system wide demand.
- To determine the high case HDD weather scenario, the six coldest years were selected (20% of the coldest years out of 30). These years have the highest yearly total of HDDs.
- To determine the low case HDD weather scenario, the six warmest years were selected (20% of the warmest years out of 30). These years have the lowest yearly total of HDDs.

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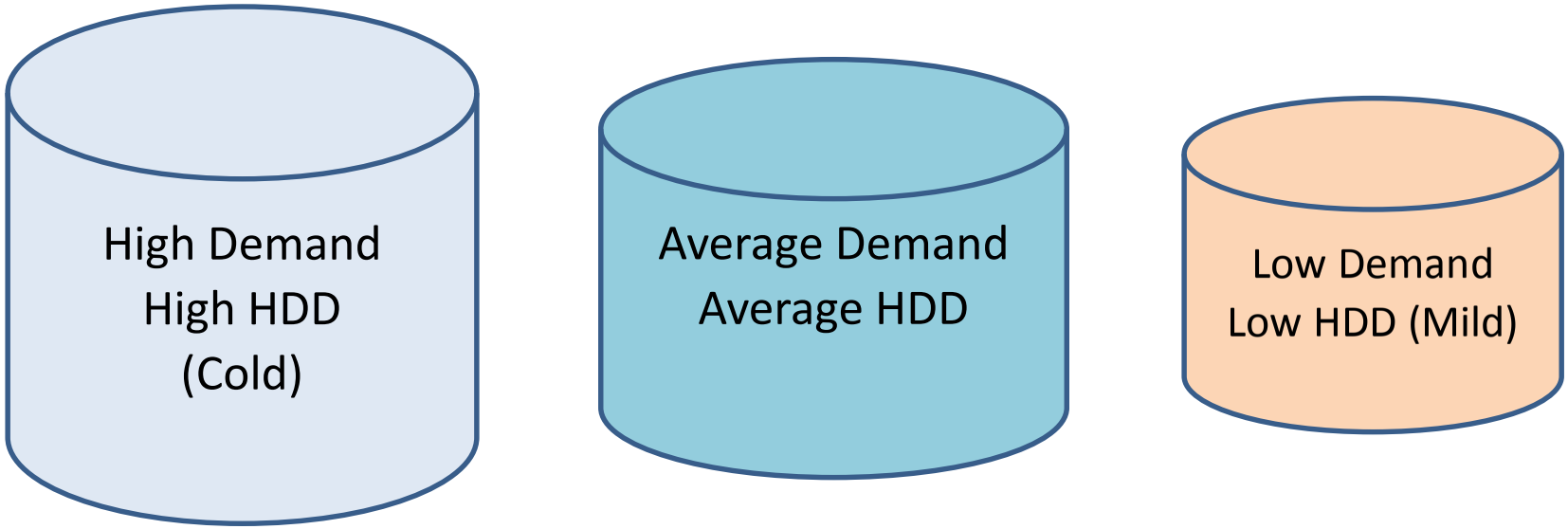
Weather Scenarios



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Growth Data

- Woods & Poole State Profile data is used for customer forecast.
- Population data is used for the Residential Customers.
- Commercial and Industrial growth factors used Farm, Construction, and Manufacturing earnings in previous model.
- New model uses: Farm Employment, Forestry, Fishing, Related Activities & Other, Mining Employment, Utilities Employment, Construction Employment, Manufacturing Employment, Wholesale Trade Employment, Retail Trade Employment, Transportation & Warehousing Employment, Information Employment, Arts, Entertainment, & Recreation Employment, Finance & Insurance Employment, Real Estate, Rental & Leasing Employment, Professional & Technical Services Employment, Administrative & Waste Services Employment, Educational Services Employment, Health Care & Social Assistance Employment, Federal Civilian Government Employment, State & Local Government Employment, and Federal Military Government Employment

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Residential Growth Formulas

W&P Growth by CityGate was calculated utilizing the equations defined below:

$WP_P_{[CityGate,Yr]} = \sum WP_P_{[County,Yr]}$

$WP_G_{[CityGate,Yr]} = (WP_P_{[CityGate,Yr]} - WP_P_{[CityGate,Yr-1]}) / WP_P_{[CityGate,Yr-1]}$

Definitions:

- $WP_P_{[County, Yr]}$: Woods and Poole annual population forecast based on numerous demographic factors by county and by year
- $WP_P_{[CityGate,Yr]}$: Sum of all Woods and Poole annual population figures for all counties assigned to a CityGate
- **$WP_G_{[CityGate,Yr]}$: Woods and Poole growth factor percentage calculated from Woods and Poole population forecast by CityGate and year**

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Commercial and Industrial Growth formulas

W&P Economic Growth by CityGate was calculated utilizing the equations defined below:

$WP_TE_{[County, Yr]}$ = (($WP_FarmEmployment_{[County, Yr]}$ * Farm Employment Allocation) + ($WP_Forestry_{[County, Yr]}$ * Forestry Allocation) + … + ($WP_FederalMilitaryGovernment_{[County, Yr]}$ * Federal Military Government Allocation)

$WP_TE_{[CityGate, Yr]} = \sum WP_TE_{[County, Yr]}$

$WP_EG_{[CG, Yr]} = (WP_TE_{[CityGate, Yr]} - WP_TE_{[CityGate, Yr-1]}) / WP_TE_{[CityGate, Yr-1]}$

Definitions:

- $WP_TE_{[County, Yr]}$: Woods and Poole total employment by county and by year
- $WP_TE_{[CityGate, Yr]}$: Sum of all total employment by county and by year allocated to a CityGate
- **$WP_EG_{[CG, Yr]}$: Woods and Poole commercial or industrial economic growth percentage by CityGate and year**

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Final Demand Forecast

- The Monthly Demand Forecast by year, month, rate schedule and CityGate was based upon:
  - The calculated forecast for weather dependent load plus the most recent year's (2015) non weather dependent core load with applied growth factors.
  - Core load was forecasted by CityGate by rate schedule.

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Peak Day Forecast

- 3 Peak Day Scenarios:
  - Average Peak Day
  - Max Peak Day
  - CityGate Peak Day
- HDD weighting
  - To determine the peak day HDDs Cascade had to weight each HDD based on weather location.
    - Held customer count to the December 2015 actual and used the coefficient b in the linear regressions.
    - The amount of demand at each weather location based on an increase in 1 HDD determined how each weather location should be weighted.

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Average Peak Day Forecast

- The Average Peak Day Forecast ensures that Cascade can plan for the expected peak day during a year.
  - Using the weighted HDDs, Cascade found the coldest day in each of the most recent 30 years (1986-2015).
  - Using those HDDs, Cascade averaged each day for each weather location to come up with 7 HDDs.
  - Those HDDs were then applied to the regressions to come up with an average peak day forecast.

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Max Peak Day Forecast

- The Max Peak Day Forecast allows Cascade to plan for the coldest day in the past 30 years with today's usage rates and customer counts.
  - Using the weighted HDDs, Cascade found the coldest day from the past 30 years (This is December 21st, 1990).
  - The HDDs for each weather location from this day were used in the regressions to come up with the Max Peak Day Forecast.

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CityGate Peak Day Forecast

- The CityGate Peak Day Forecast allows Cascade to plan for the coldest day in the past 30 years at each individual weather location.
  - Using weather location HDDs, Cascade found the coldest HDD in the past 30 years for each individual weather location.
  - The HDDs for each weather location were used in the regressions to come up with the CityGate Peak Day Forecast.

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Max and CityGate Peak HDDs

			Max Peak HDD						
Peak Rank	System Peak Day	System Peak HDD	Baker City	Bellingham	Bremerton	Pendleton	Redmond	Walla Walla	Yakima
1	12/21/90	55.9	70.5	46	46	67	70.5	65	58
2	02/03/89	53.7	68	46	46	63.5	64.5	60.5	55.5
3	12/29/90	52.4	60	47	44	65.5	53.5	59	60
4	12/20/90	51.6	59	46	42	63	62	57.5	53
5	12/22/90	51.4	72.5	41	41.5	61.5	62.5	60.5	57.5
6	02/02/89	51.2	52	51.5	45	60.5	50	53	53.5
7	01/05/04	50.0	70	39	37	63	55.5	64	61
8	01/30/96	50.0	61.5	40.5	37	64	55.5	63.5	59

City Gate Peak HDD						
Baker City	Bellingham	Bremerton	Pendleton	Redmond	Walla Walla	Yakima
72.5	51.5	46	67	70.5	65.5	64.5

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Average Peak Demand Day Forecast

Forecast Tim	Peak Day Demand (Dtl	OR Peak Day (Dth)	WA Peak Day (Dth)	Bend Loop	MCCLEARY (ABERDEEN/HOQUIAM)	ACME	ARLINGTON	BREMERTON (SHELTON)	CASTLE ROCK	WALLA WALLA
2016	270,725	69,847	200,878	28,614	4,201	78	4,420	26,774	129	12,295
2017	273,626	70,809	202,817	29,022	4,236	79	4,478	27,159	130	12,423
2018	276,453	71,767	204,687	29,448	4,265	80	4,538	27,528	132	12,545
2019	279,289	72,693	206,596	29,856	4,295	82	4,595	27,896	134	12,662
2020	282,132	73,643	208,490	30,282	4,325	83	4,655	28,265	135	12,786
2021	285,000	74,613	210,387	30,727	4,355	84	4,712	28,634	137	12,902
2022	287,848	75,579	212,269	31,172	4,383	85	4,770	29,002	138	13,014
2023	290,743	76,545	214,198	31,617	4,411	86	4,827	29,370	140	13,129
2024	293,646	77,530	216,116	32,080	4,439	87	4,884	29,756	141	13,248
2025	296,561	78,517	218,044	32,544	4,466	89	4,940	30,124	143	13,359

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Max Peak Demand Day Forecast

Forecast Tim	Peak Day Demand (Dtl	OR Peak Day (Dth)	WA Peak Day (Dth)	Bend Loop	MCCLEARY (ABERDEEN/HOQUIAM)	ACME	ARLINGTON	BREMERTON (SHELTON)	CASTLE ROCK	WALLA WALLA
2016	349,810	95,986	253,825	41,080	5,481	97	5,387	34,675	153	17,211
2017	353,593	97,332	256,261	41,670	5,526	99	5,458	35,171	155	17,390
2018	357,287	98,675	258,612	42,287	5,563	100	5,531	35,646	157	17,560
2019	360,988	99,974	261,014	42,877	5,603	102	5,601	36,120	159	17,722
2020	364,703	101,307	263,396	43,494	5,643	103	5,674	36,594	161	17,895
2021	368,457	102,672	265,785	44,138	5,681	104	5,744	37,069	163	18,057
2022	372,183	104,031	268,152	44,782	5,718	106	5,814	37,543	165	18,213
2023	375,973	105,390	270,584	45,426	5,754	107	5,883	38,016	166	18,373
2024	379,776	106,778	272,998	46,096	5,790	109	5,953	38,513	168	18,538
2025	383,594	108,168	275,426	46,767	5,826	110	6,022	38,987	170	18,693

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CityGate Peak Demand Day Forecast

Forecast Tim	Peak Day Demand (Dtl	OR Peak Day (Dth)	WA Peak Day (Dth)	Bend Loop	MCCLEARY (ABERDEEN/HOQUIAM)	ACME	ARLINGTON	BREMERTON (SHELTON)	CASTLE ROCK	WALLA WALLA
2016	365,474	96,274	269,201	41,080	5,481	108	5,955	34,675	153	17,333
2017	369,388	97,622	271,766	41,670	5,526	110	6,033	35,171	155	17,514
2018	373,207	98,966	274,241	42,287	5,563	112	6,115	35,646	157	17,684
2019	377,039	100,266	276,772	42,877	5,603	113	6,192	36,120	159	17,847
2020	380,882	101,600	279,282	43,494	5,643	115	6,272	36,594	161	18,022
2021	384,765	102,966	281,800	44,138	5,681	116	6,349	37,069	163	18,185
2022	388,620	104,326	284,294	44,782	5,718	118	6,427	37,543	165	18,342
2023	392,544	105,685	286,858	45,426	5,754	120	6,504	38,016	166	18,503
2024	396,476	107,075	289,401	46,096	5,790	121	6,581	38,513	168	18,670
2025	400,427	108,466	291,961	46,767	5,826	123	6,657	38,987	170	18,825

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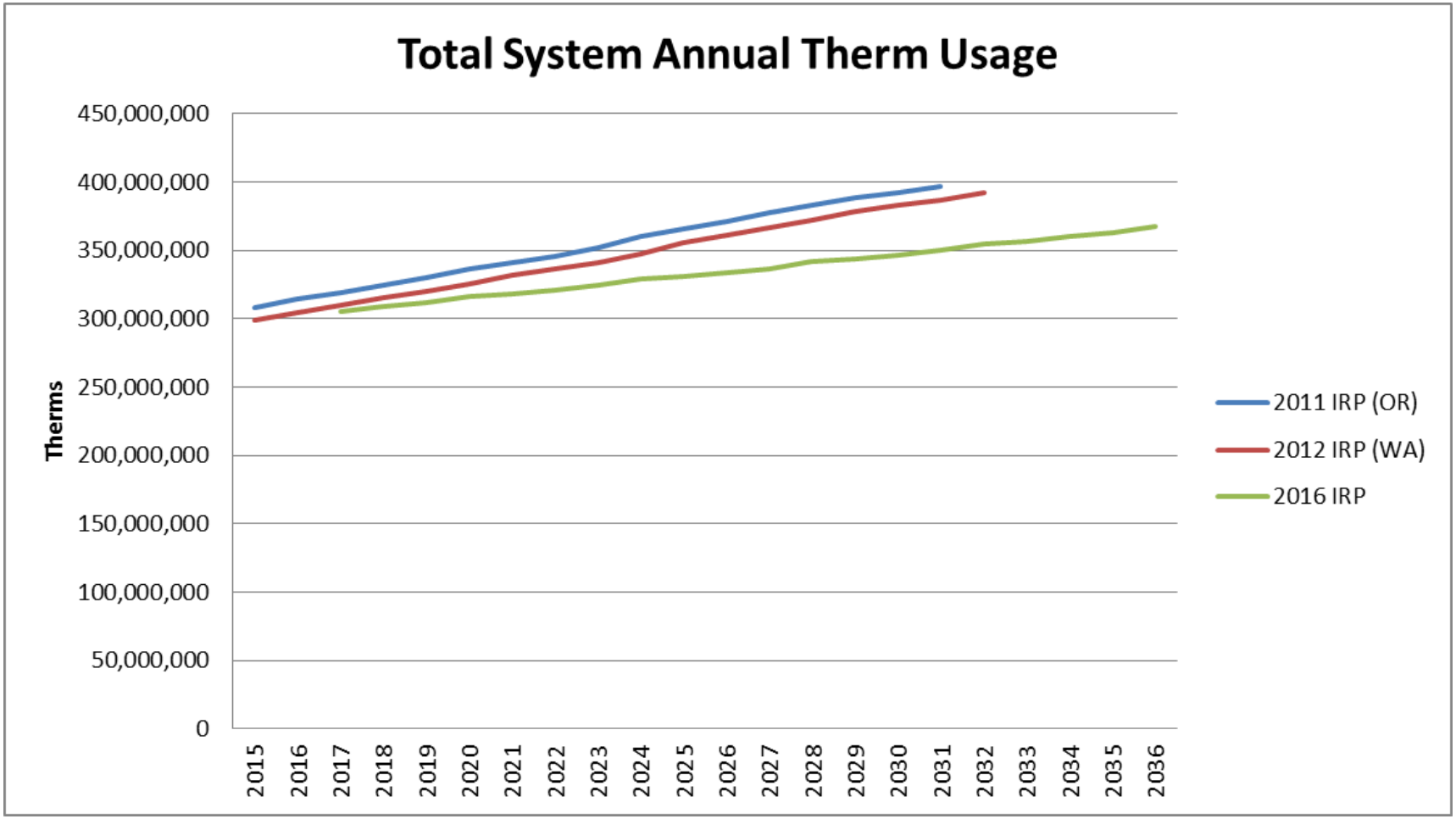
Total System



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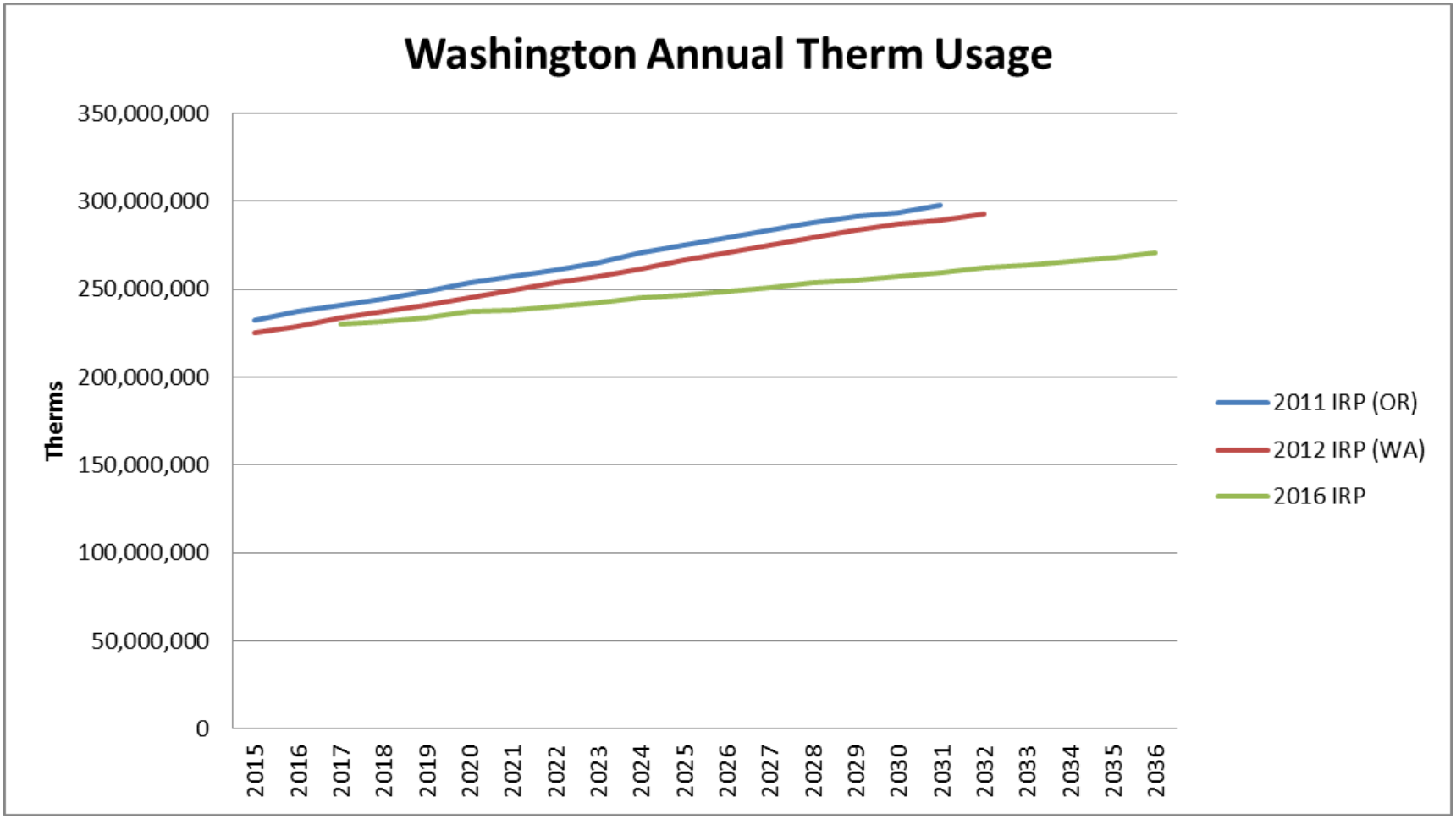
Washington



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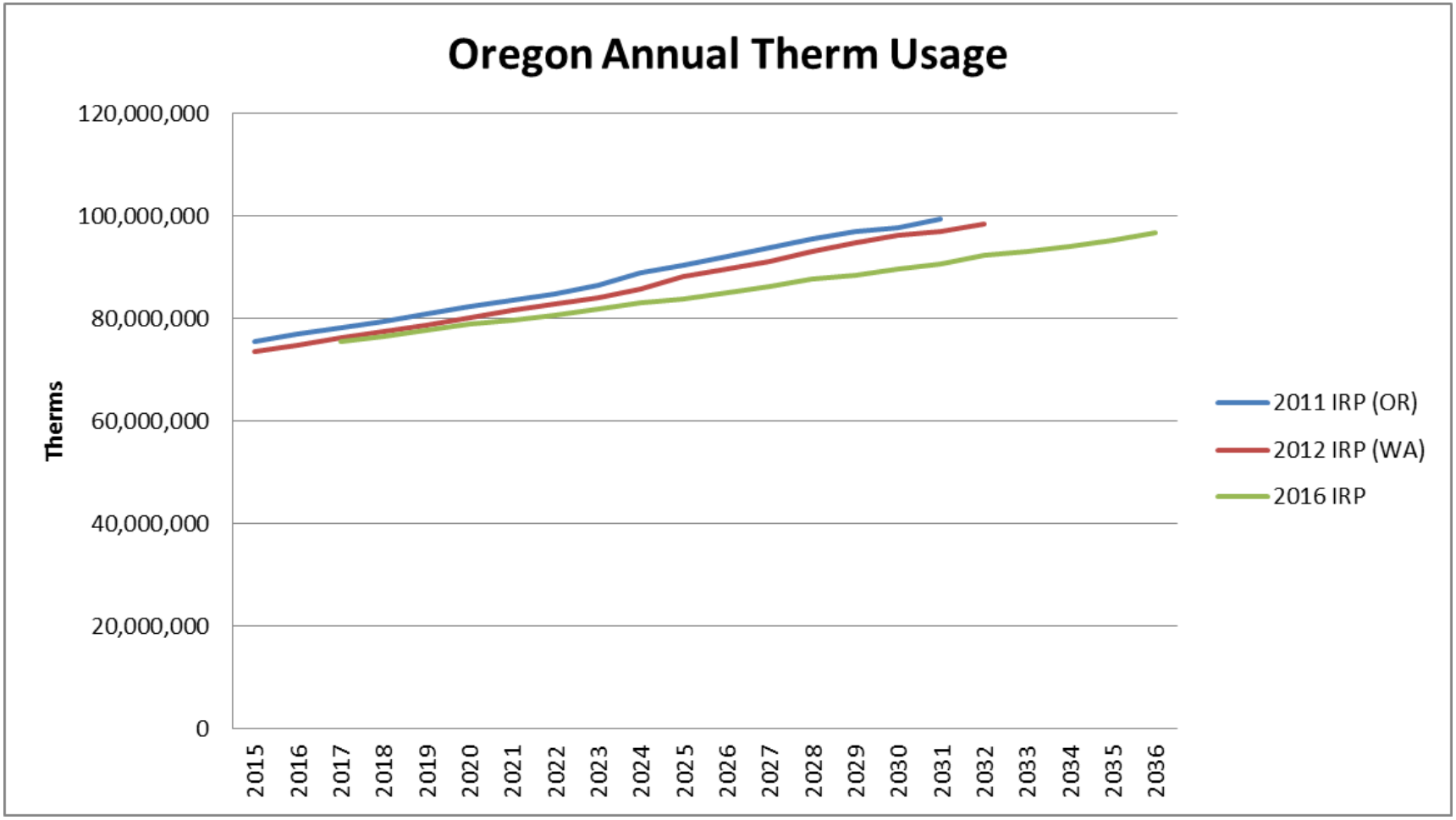
Oregon



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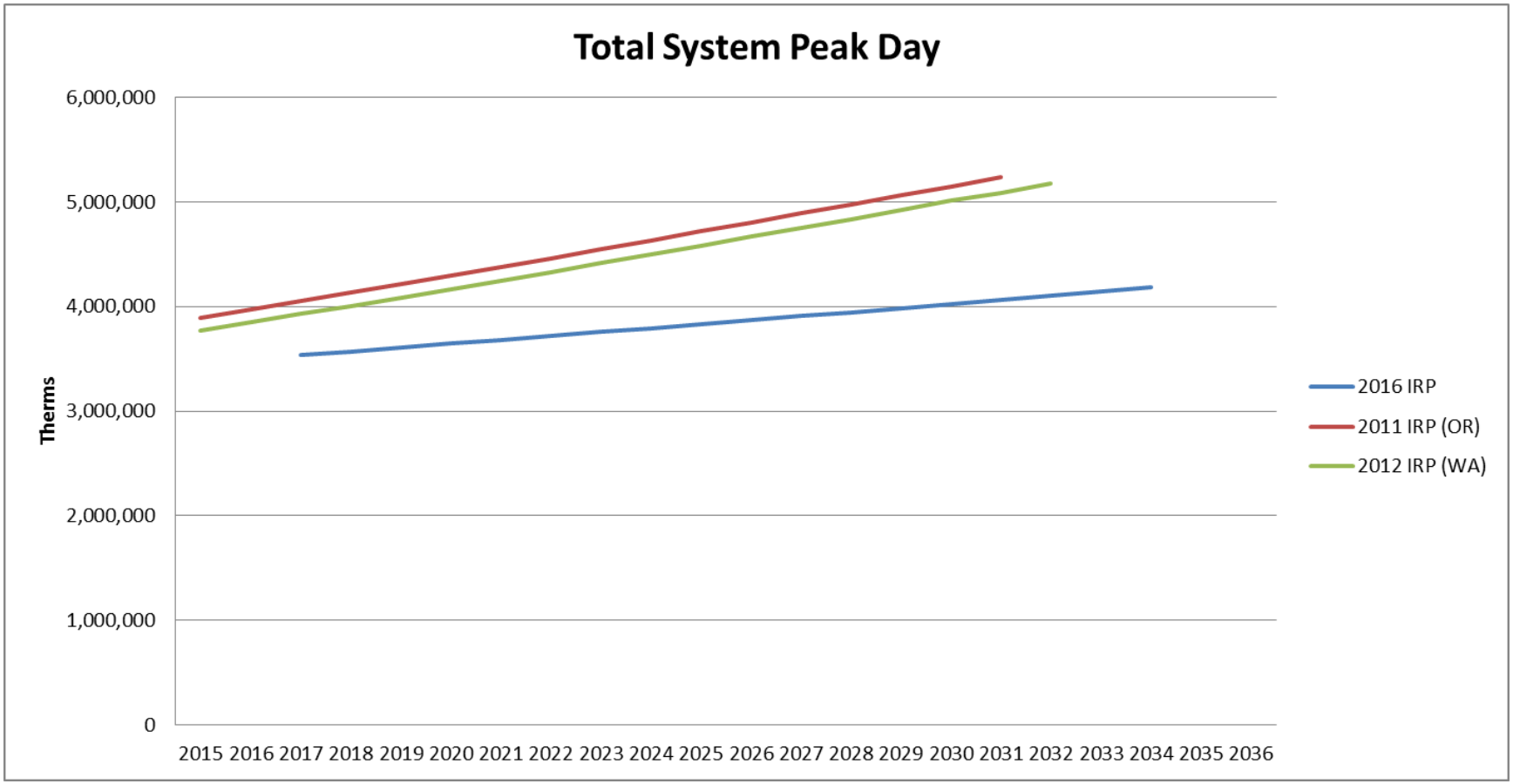
Total System Peak Day Comparison to previous IRP's



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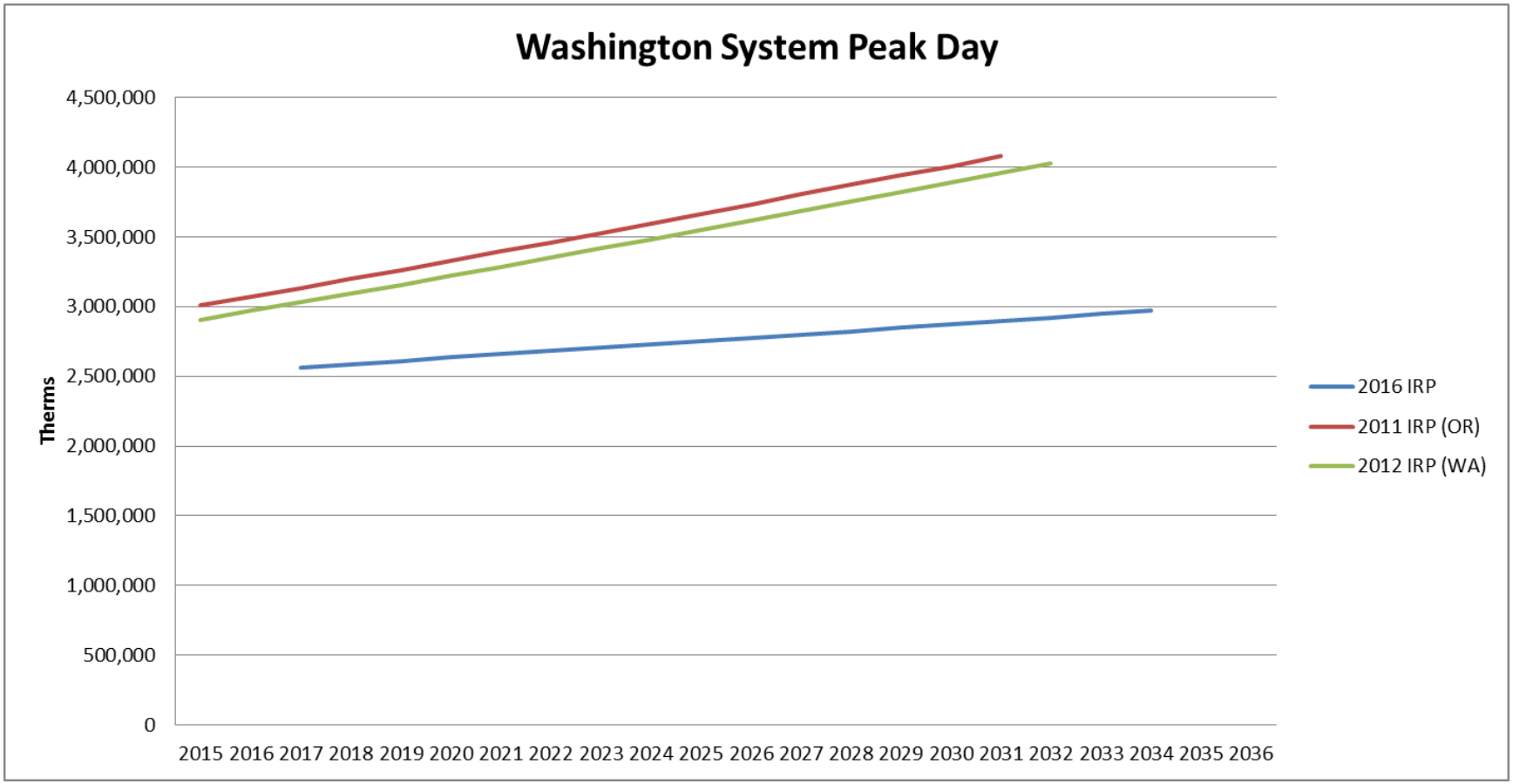
Washington Peak Day Comparison to previous IRP's



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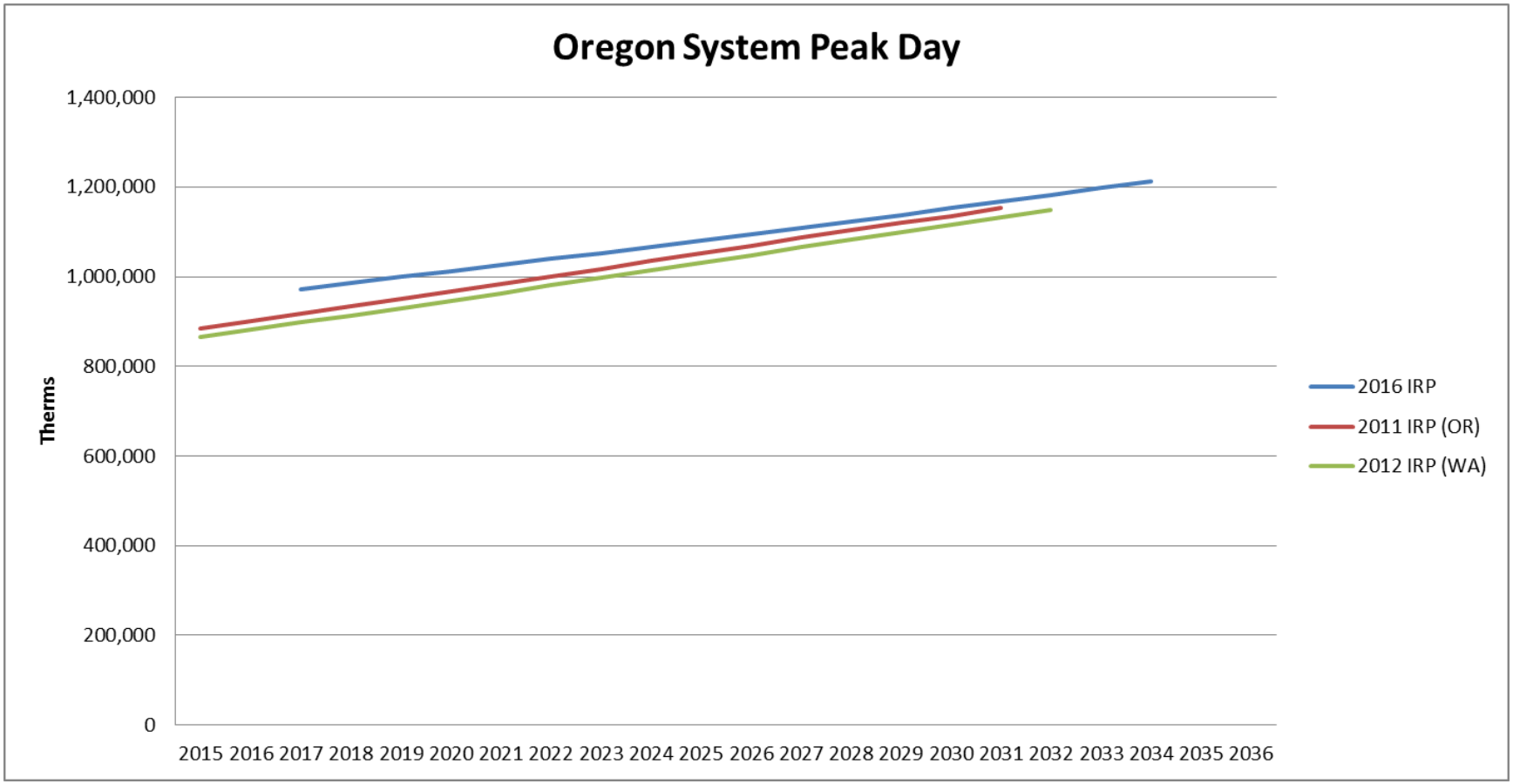
Oregon Peak Day Comparison to previous IRP's



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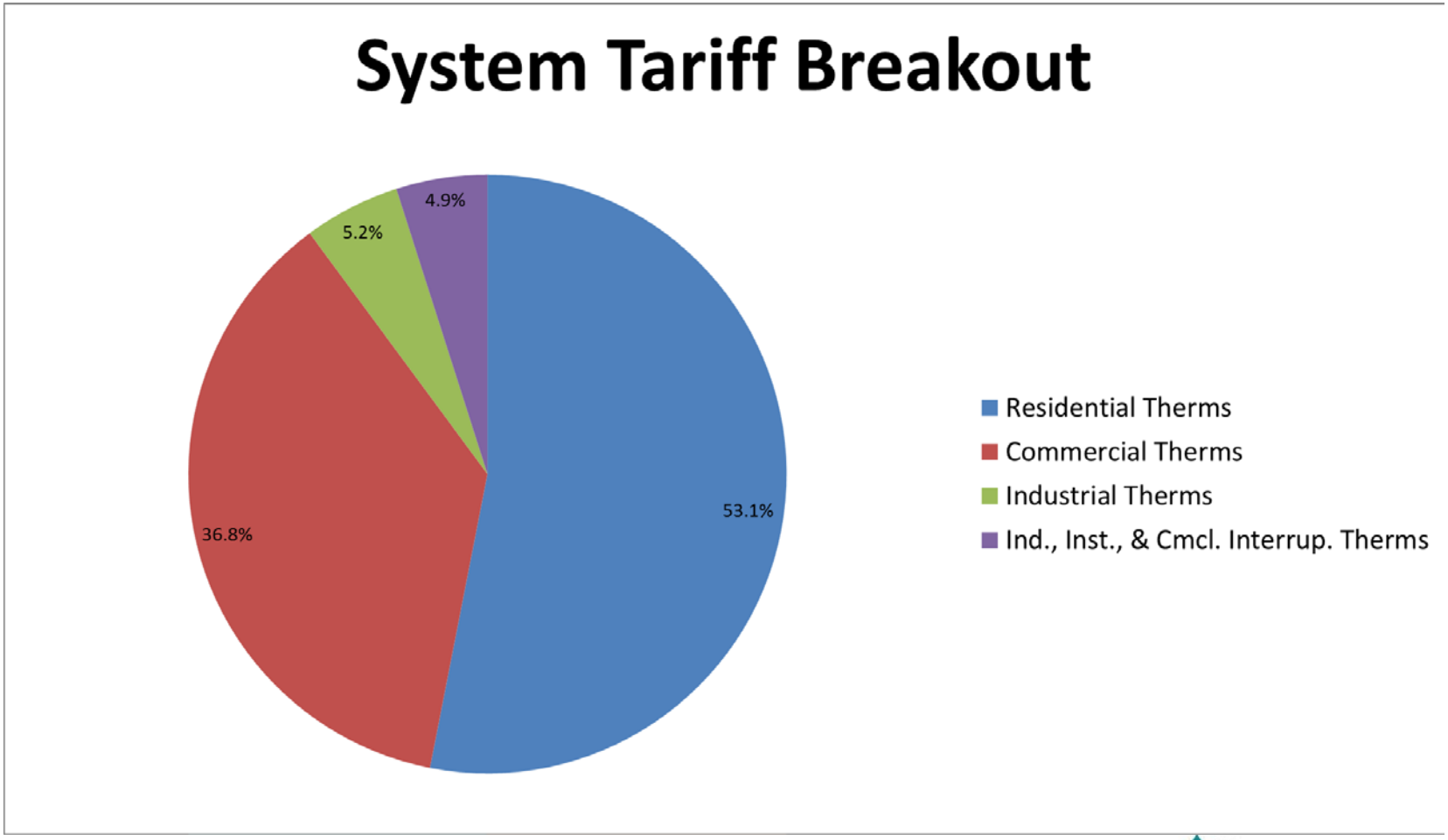
Total System Tariff Breakout



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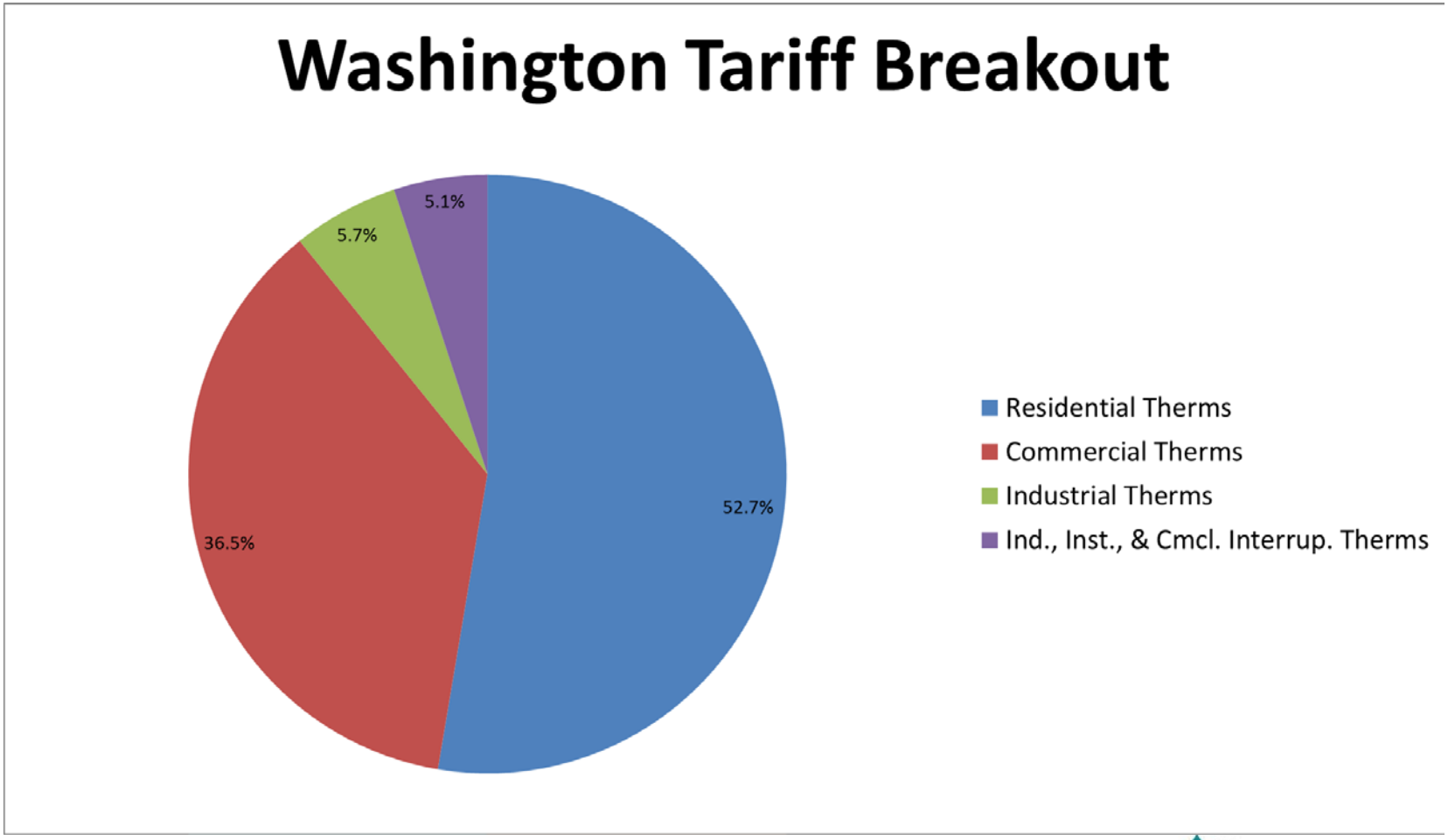
Washington Tariff Breakout



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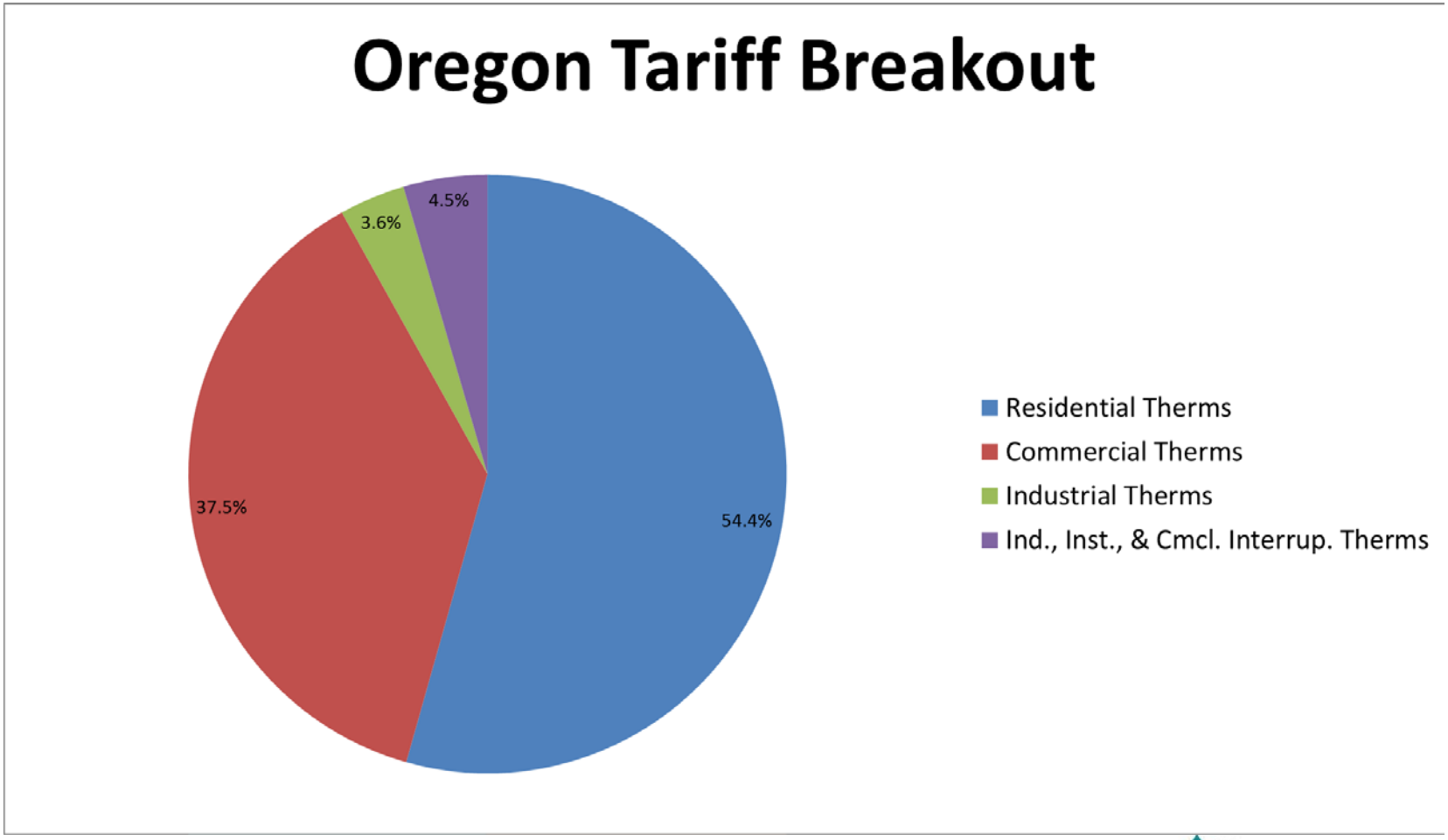
Oregon Tariff Breakout



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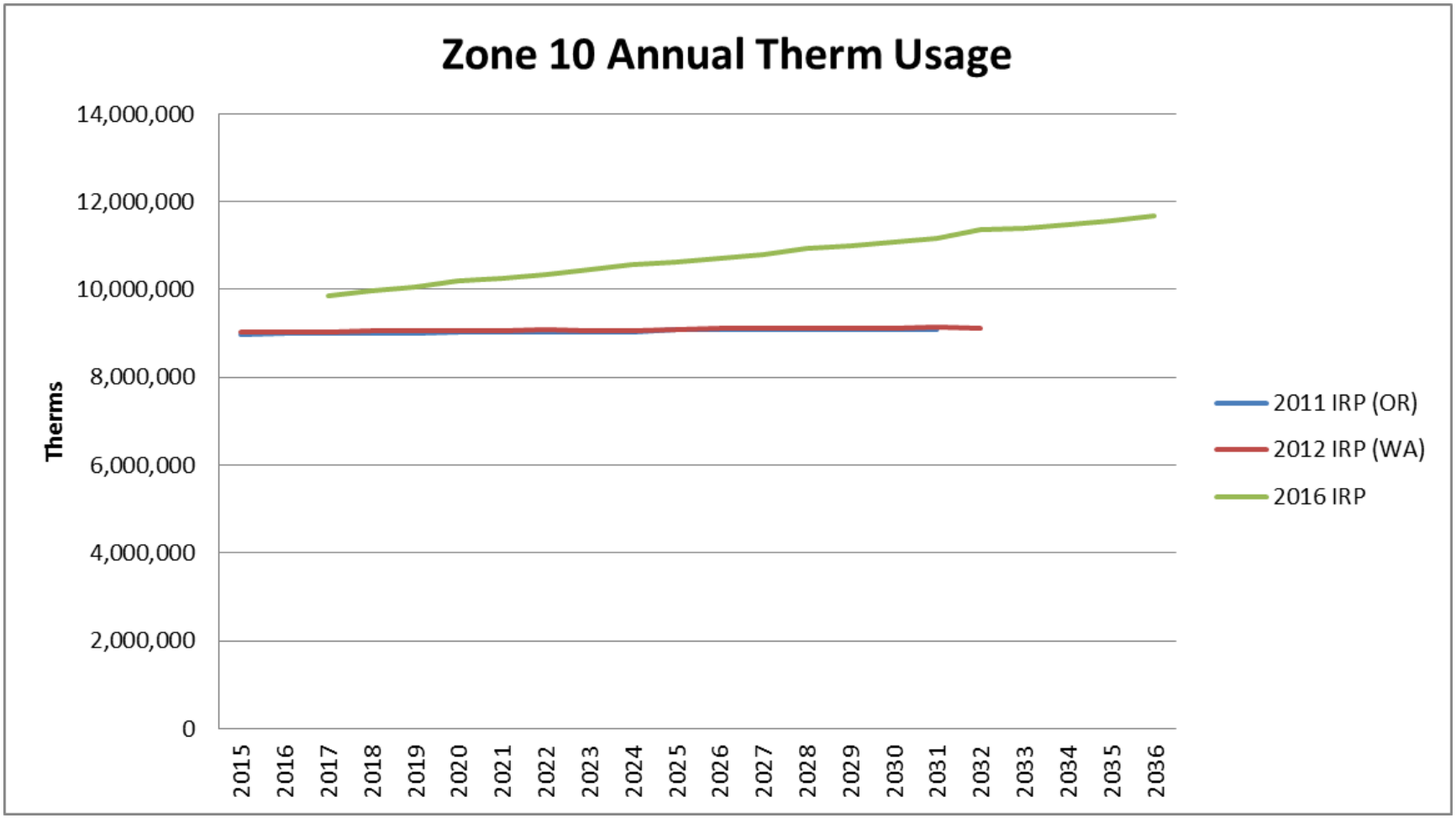
Zone 10



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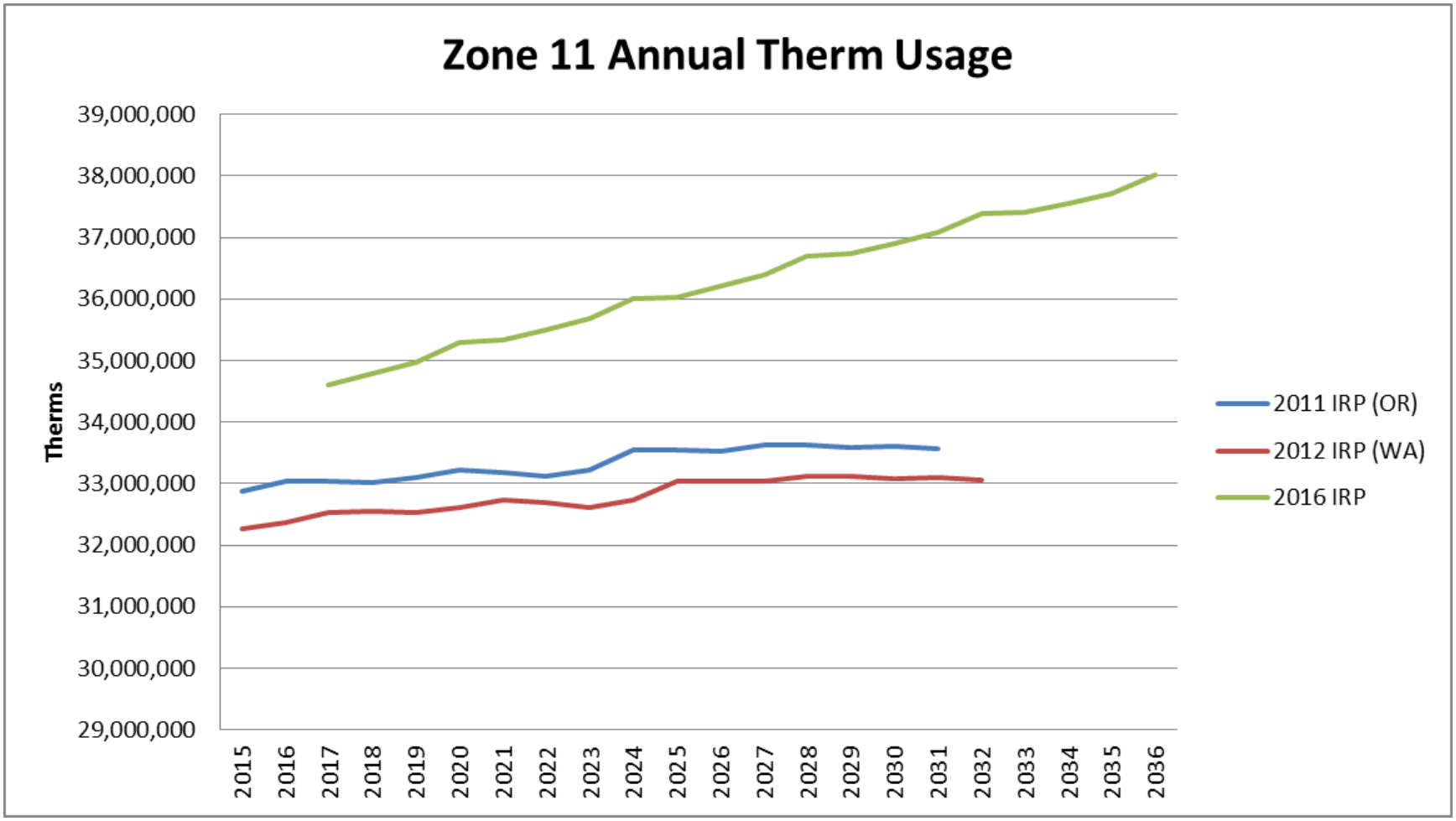
Zone 11



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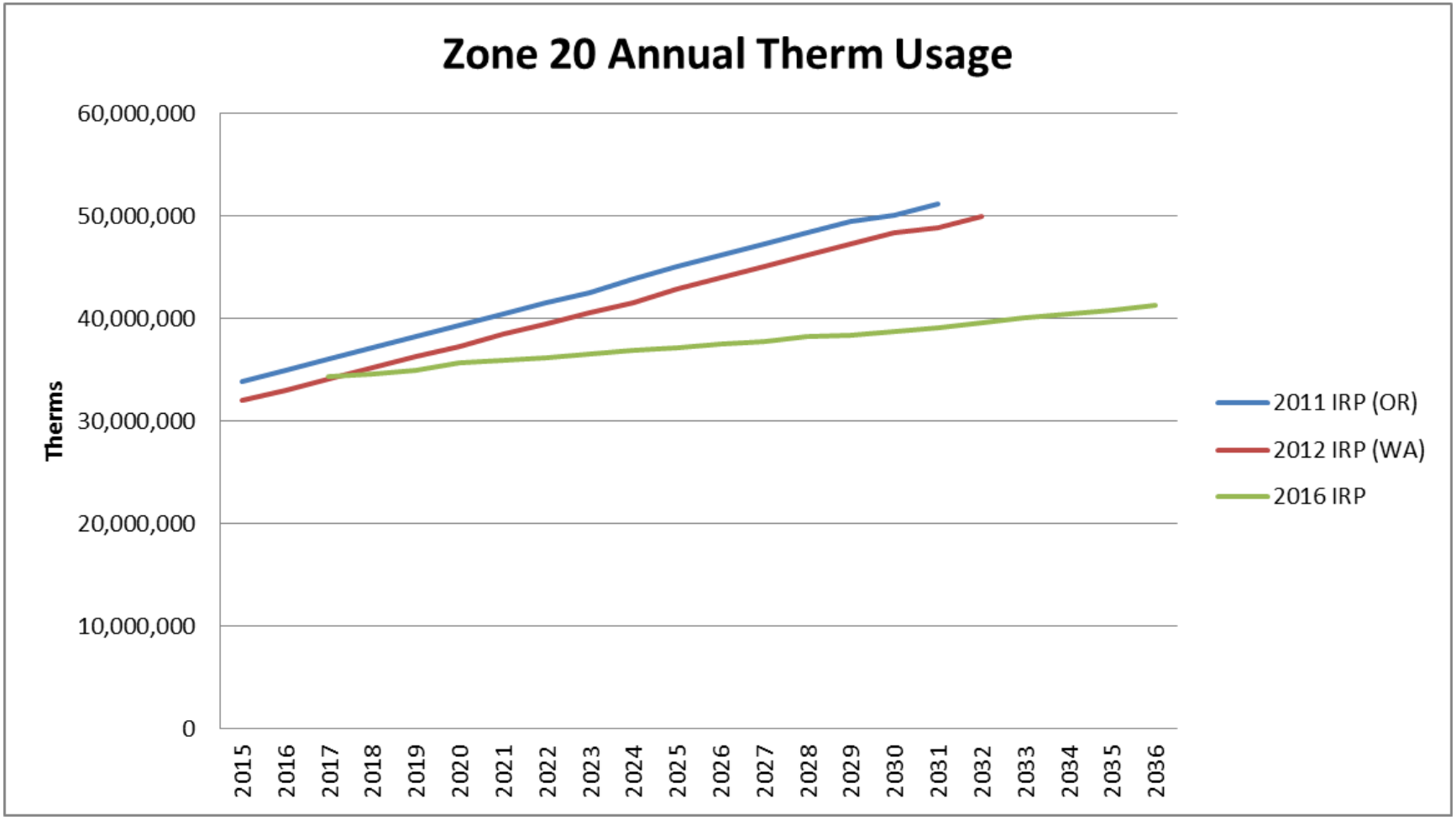
Zone 20



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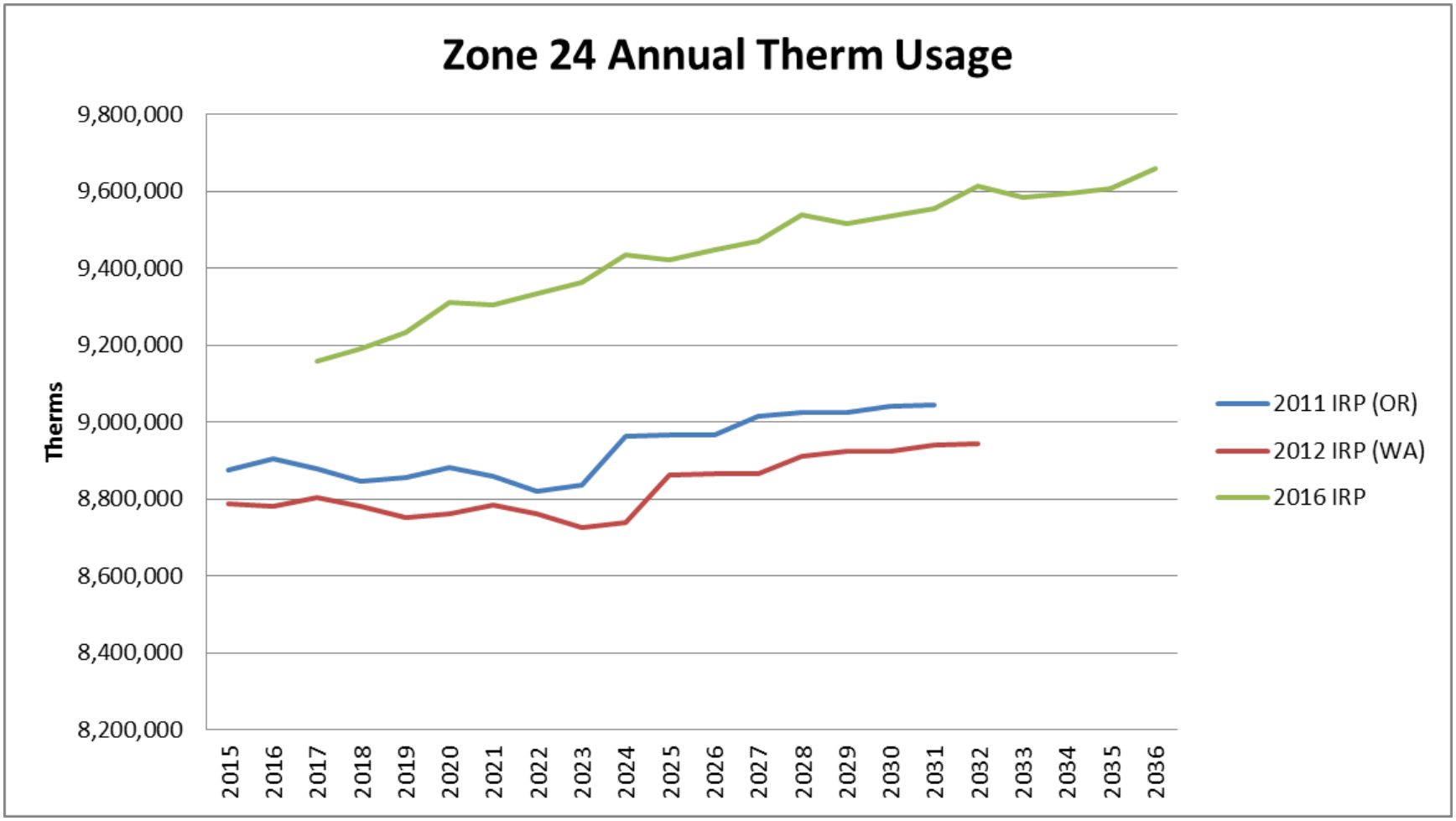
Zone 24



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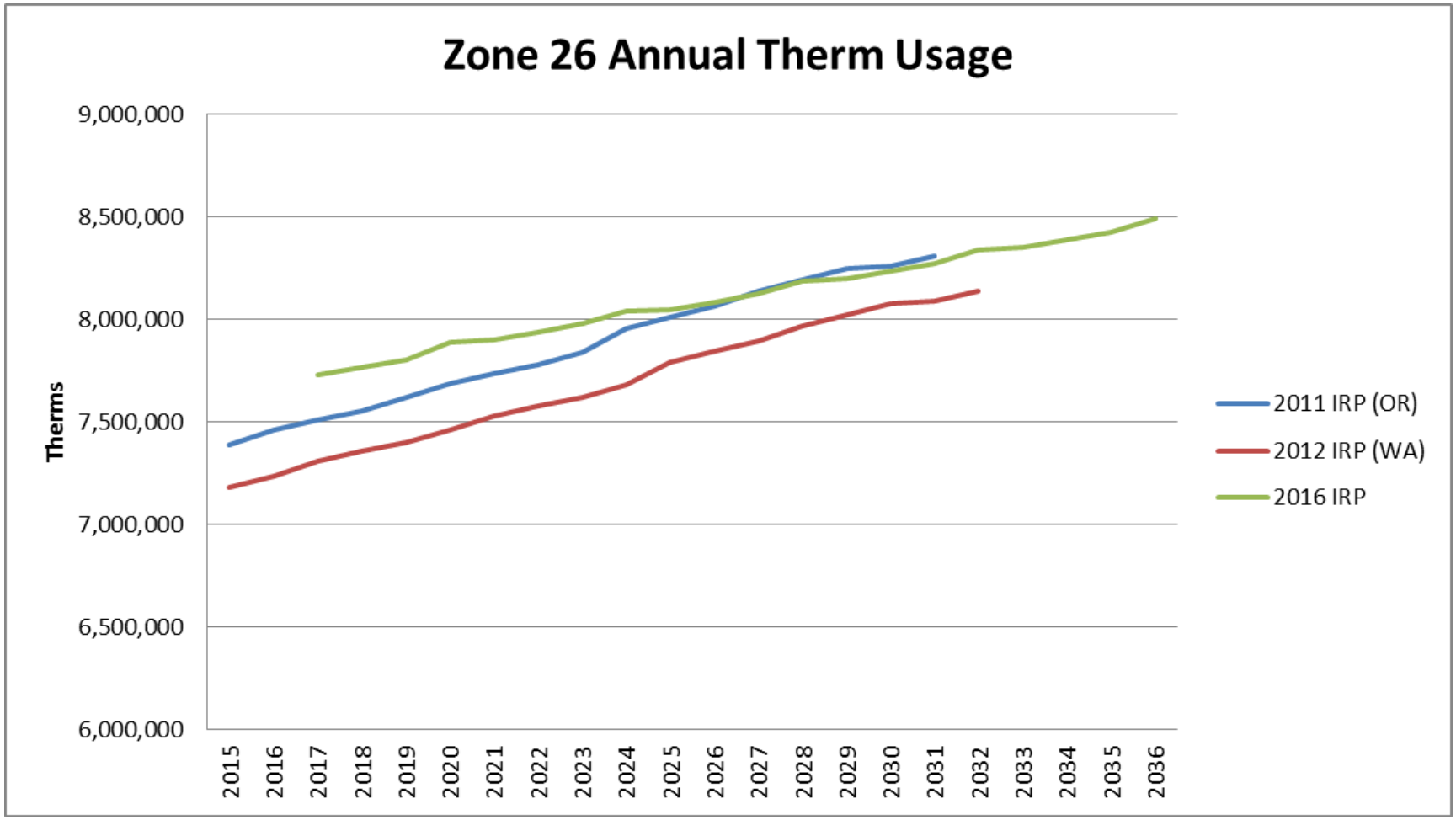
Zone 26



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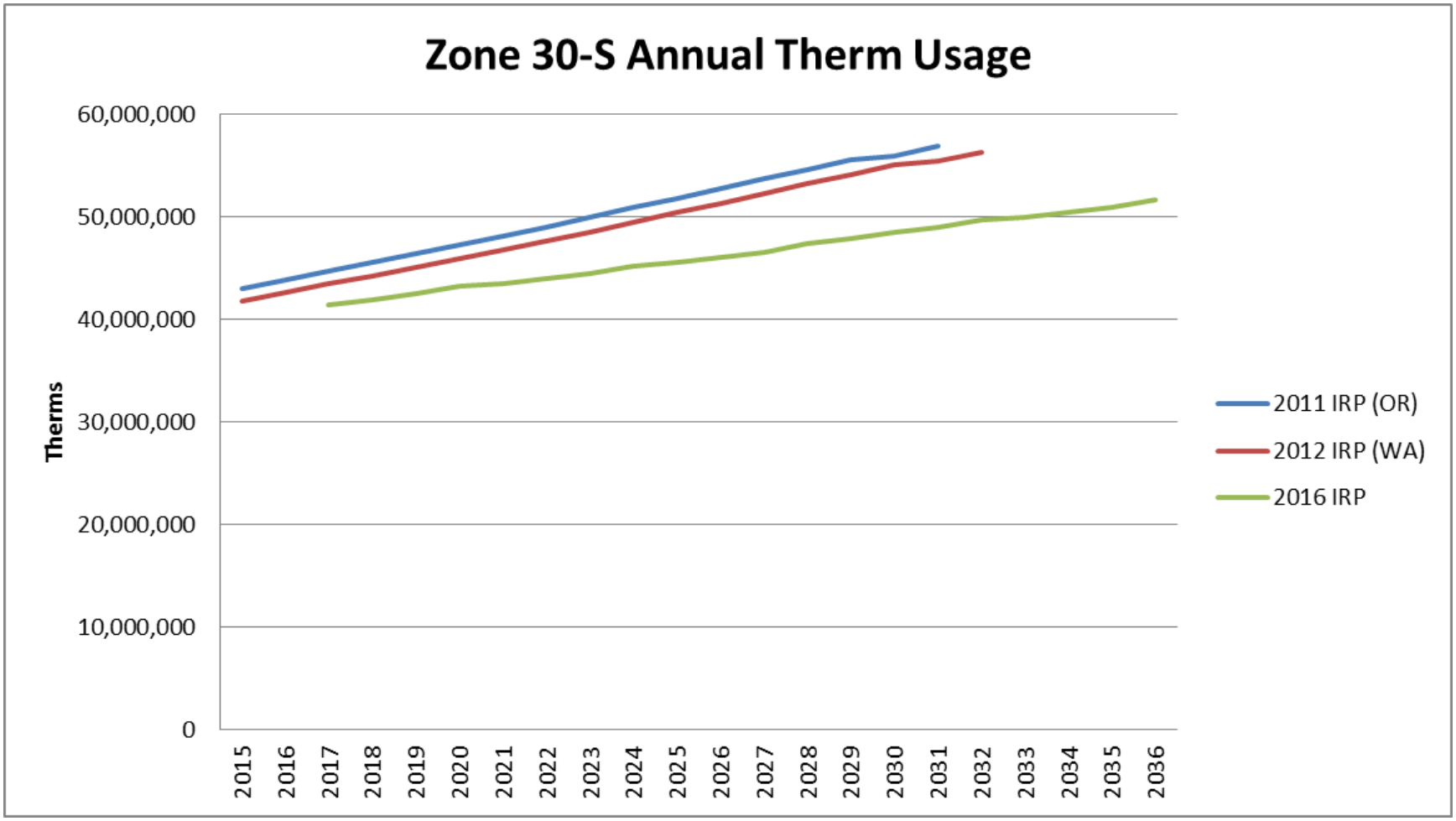
Zone 30-S



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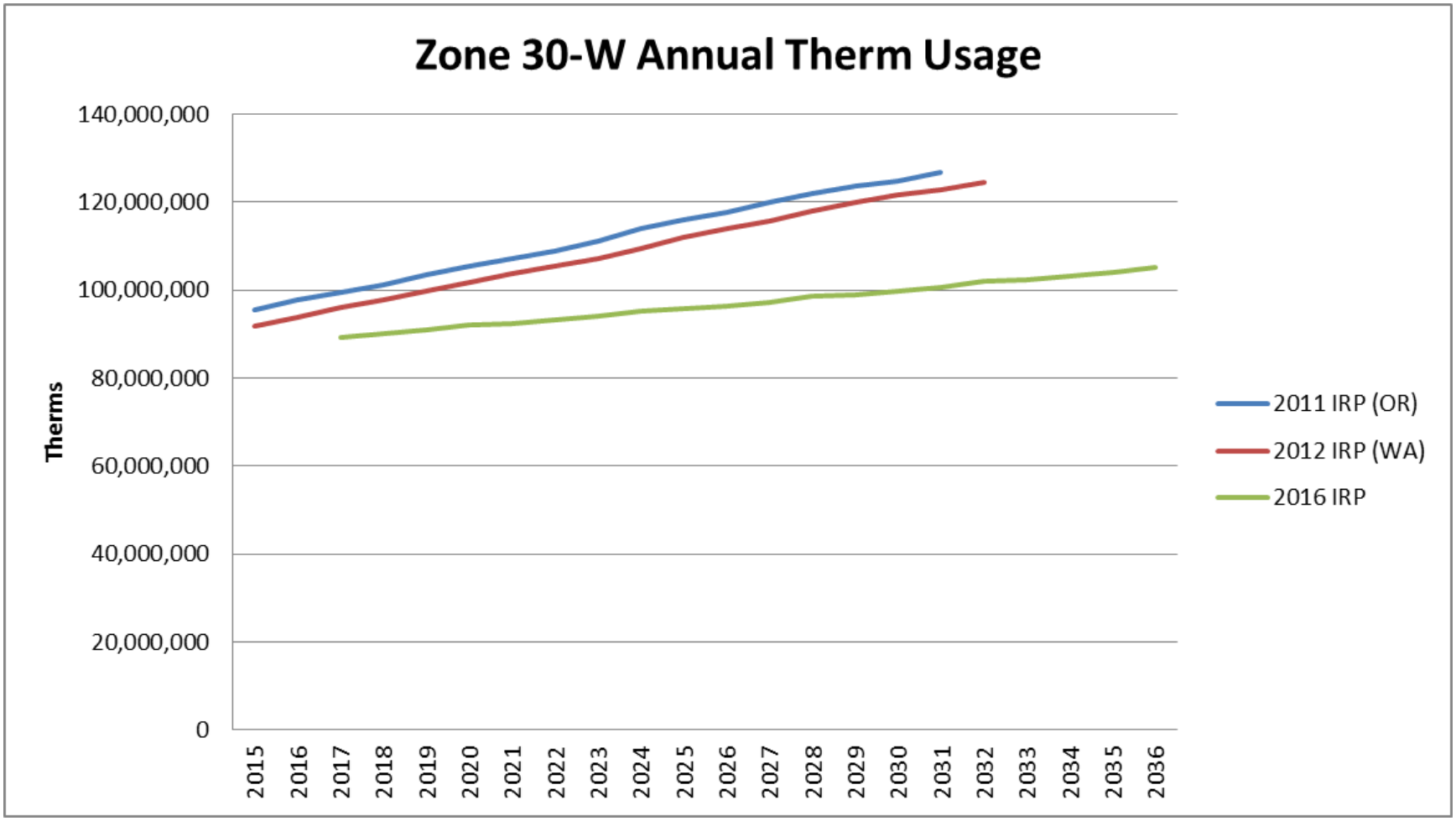
Zone 30-W



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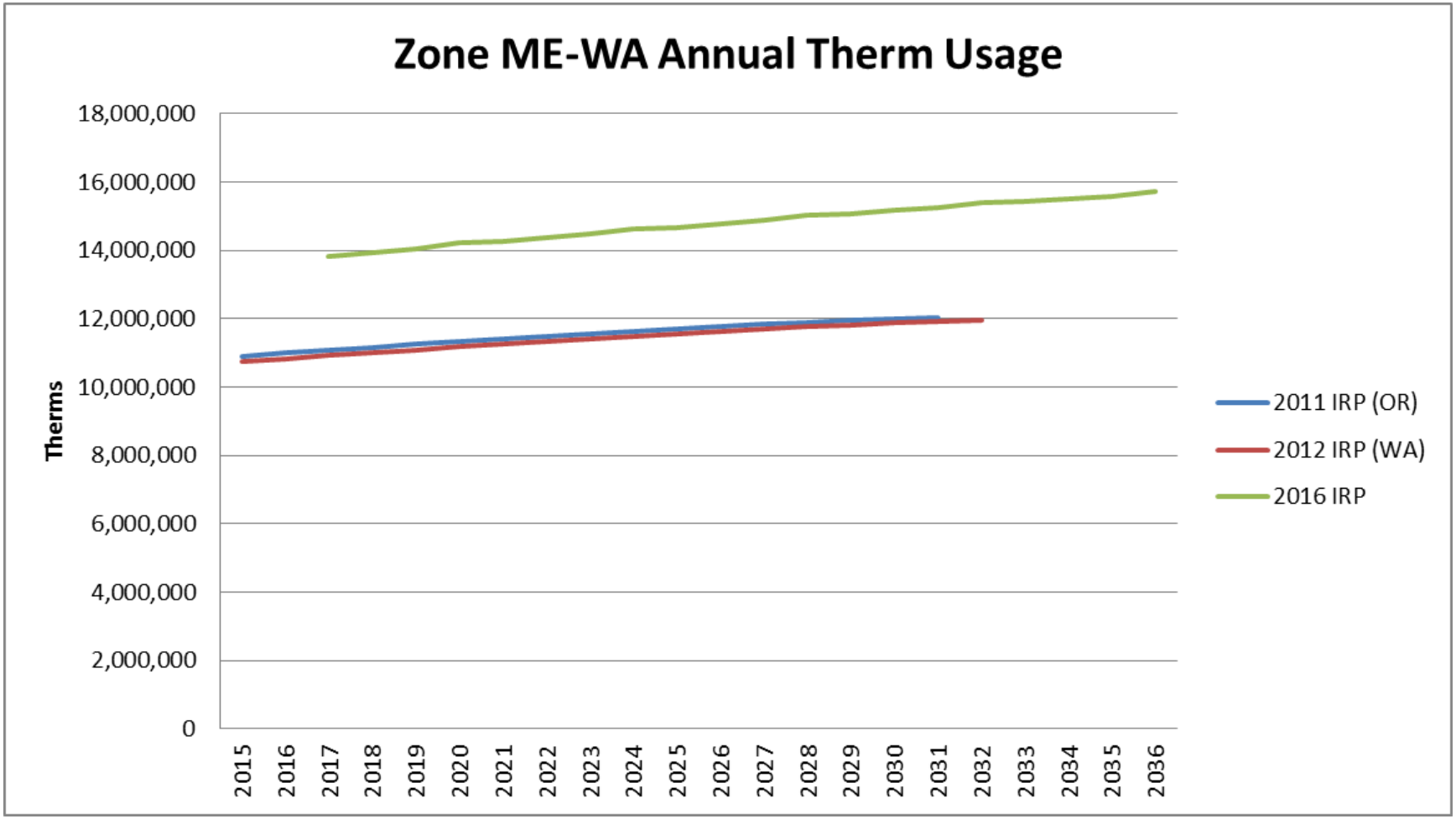
Zone ME-WA



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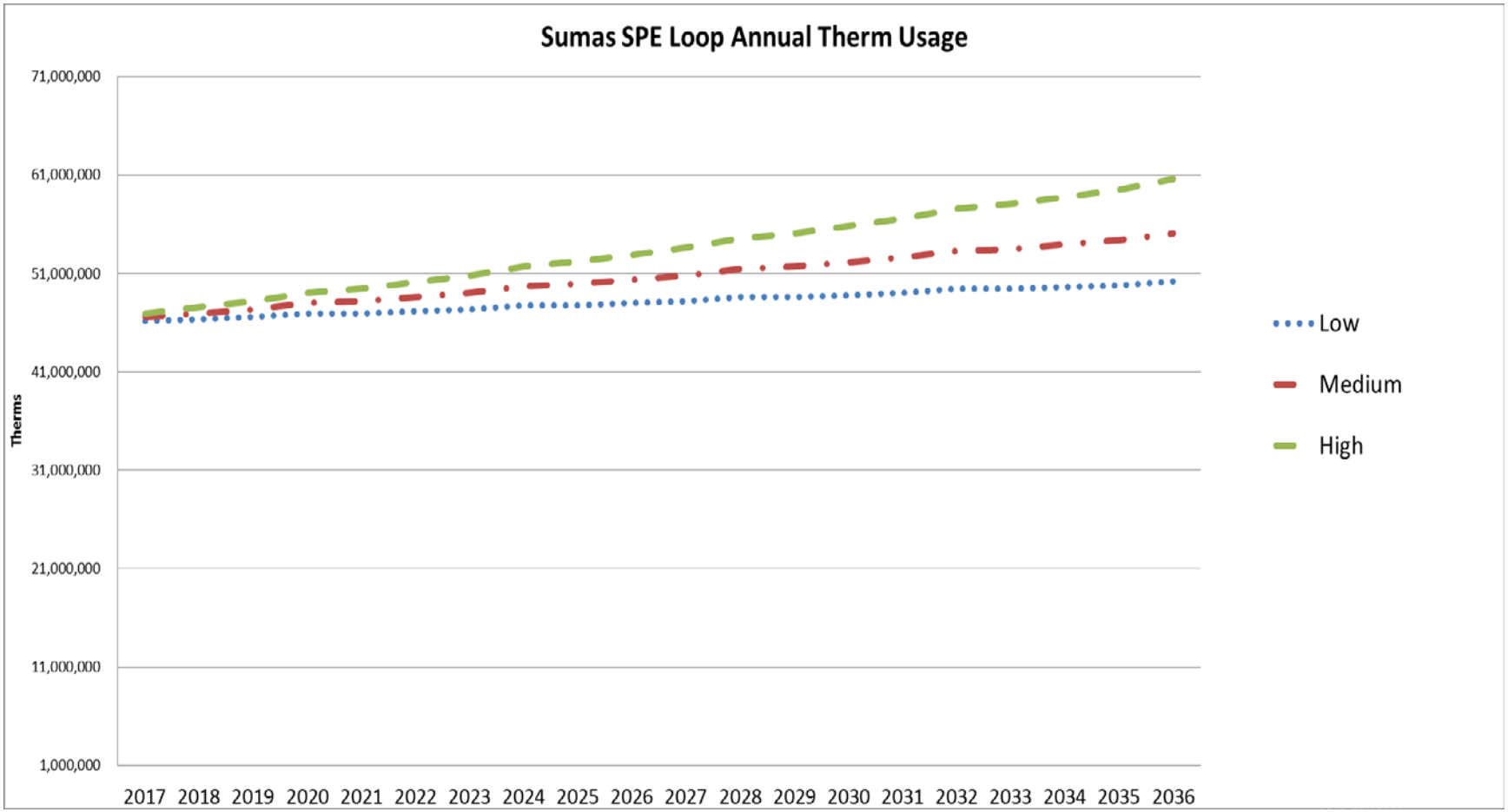
Sumas SPE Loop with Normal Weather



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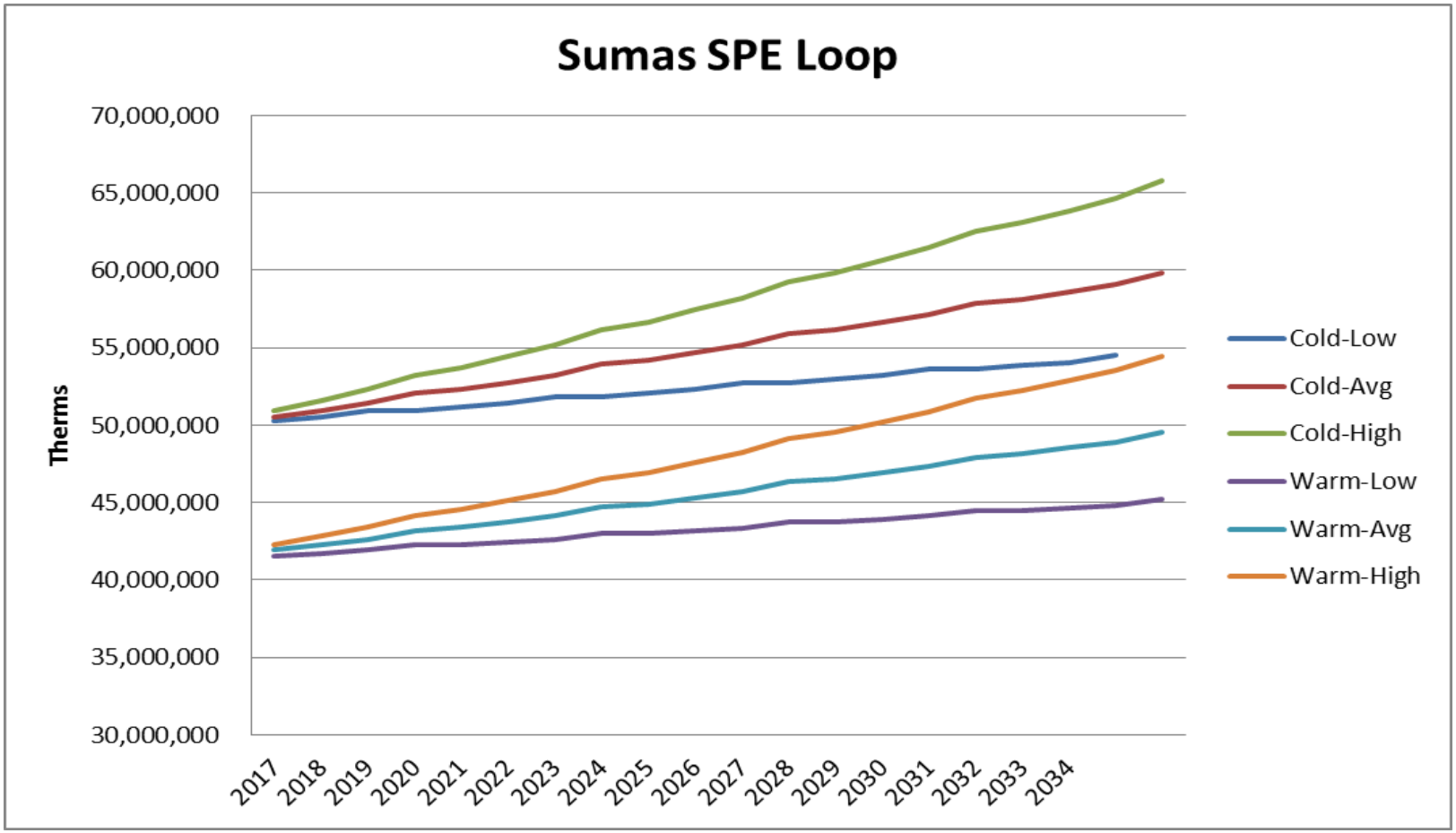
Sumas SPE Loop with High and Low Weather Scenarios



Cascade Natural Gas Corporation
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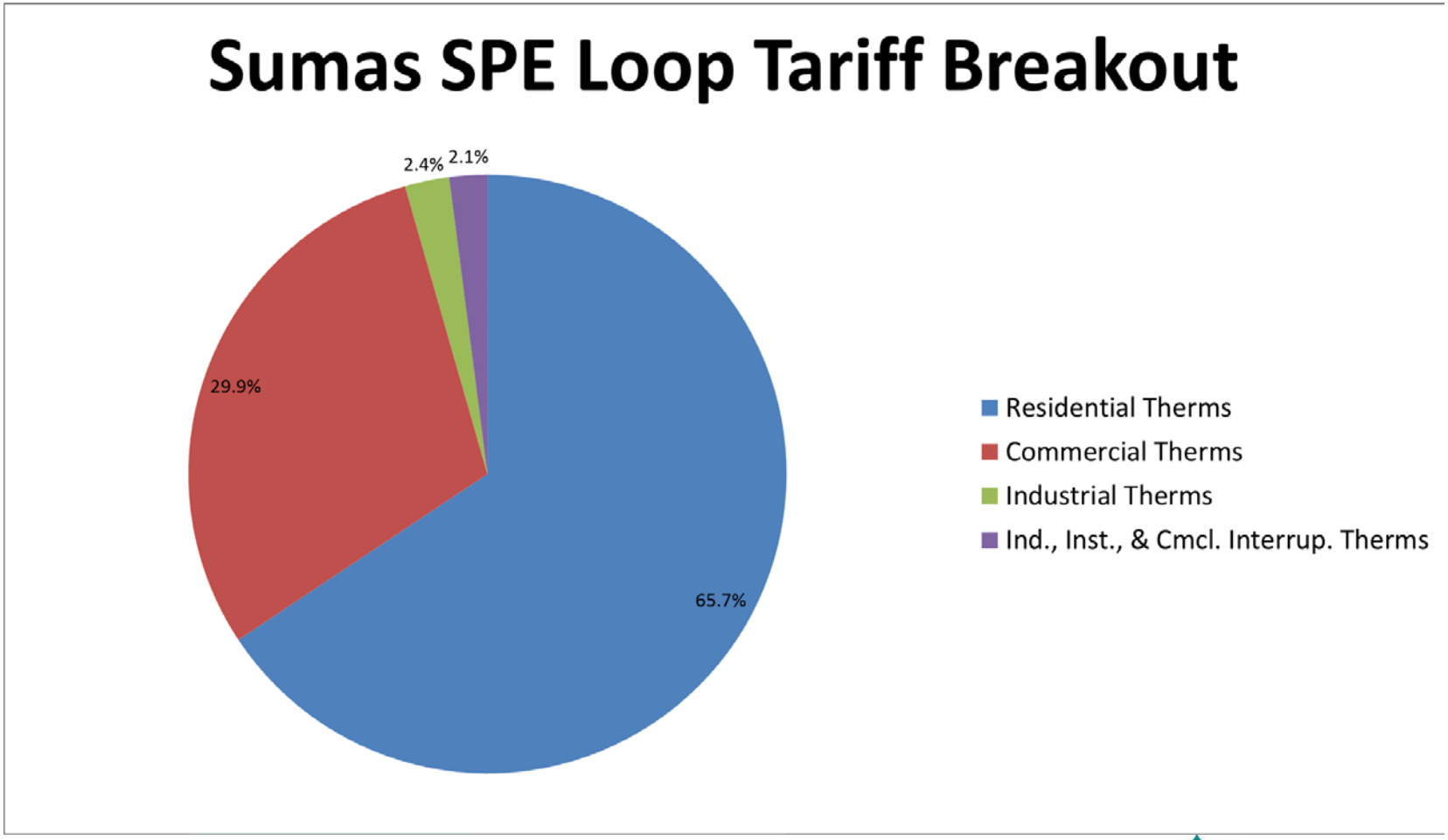
Tariff Breakout



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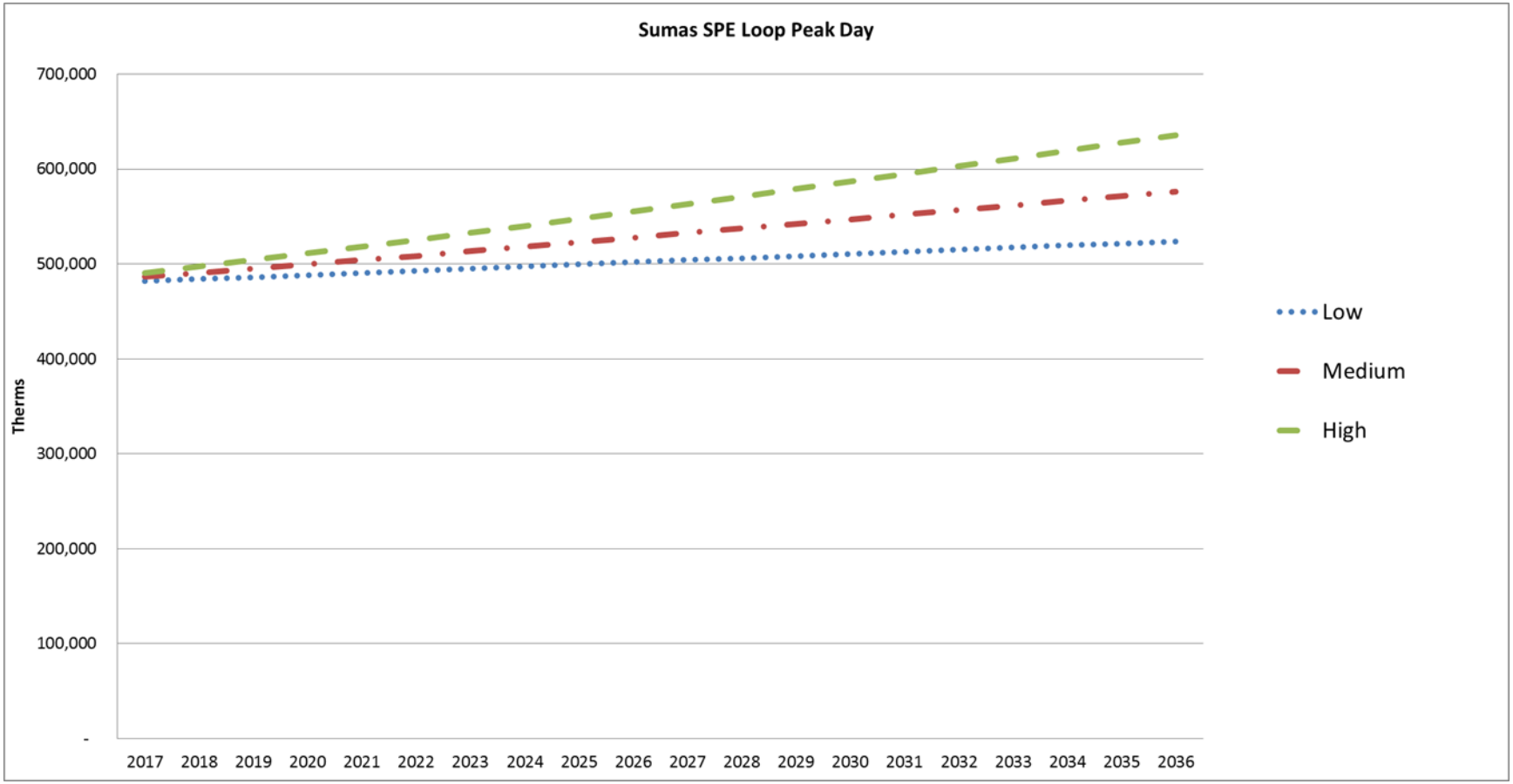
Sumas SPE Loop Peak Day



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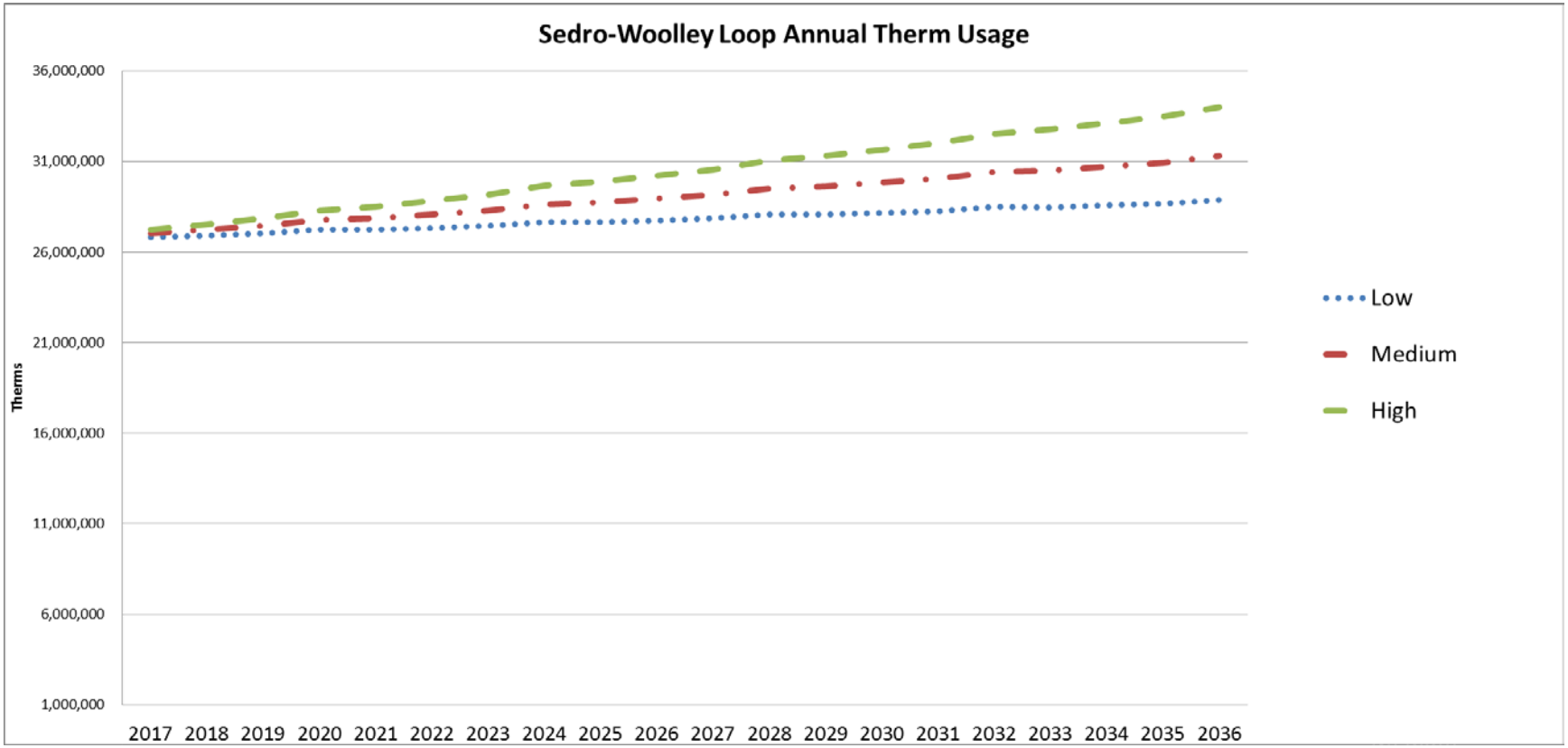
Sedro-Woolley Loop With Average Weather



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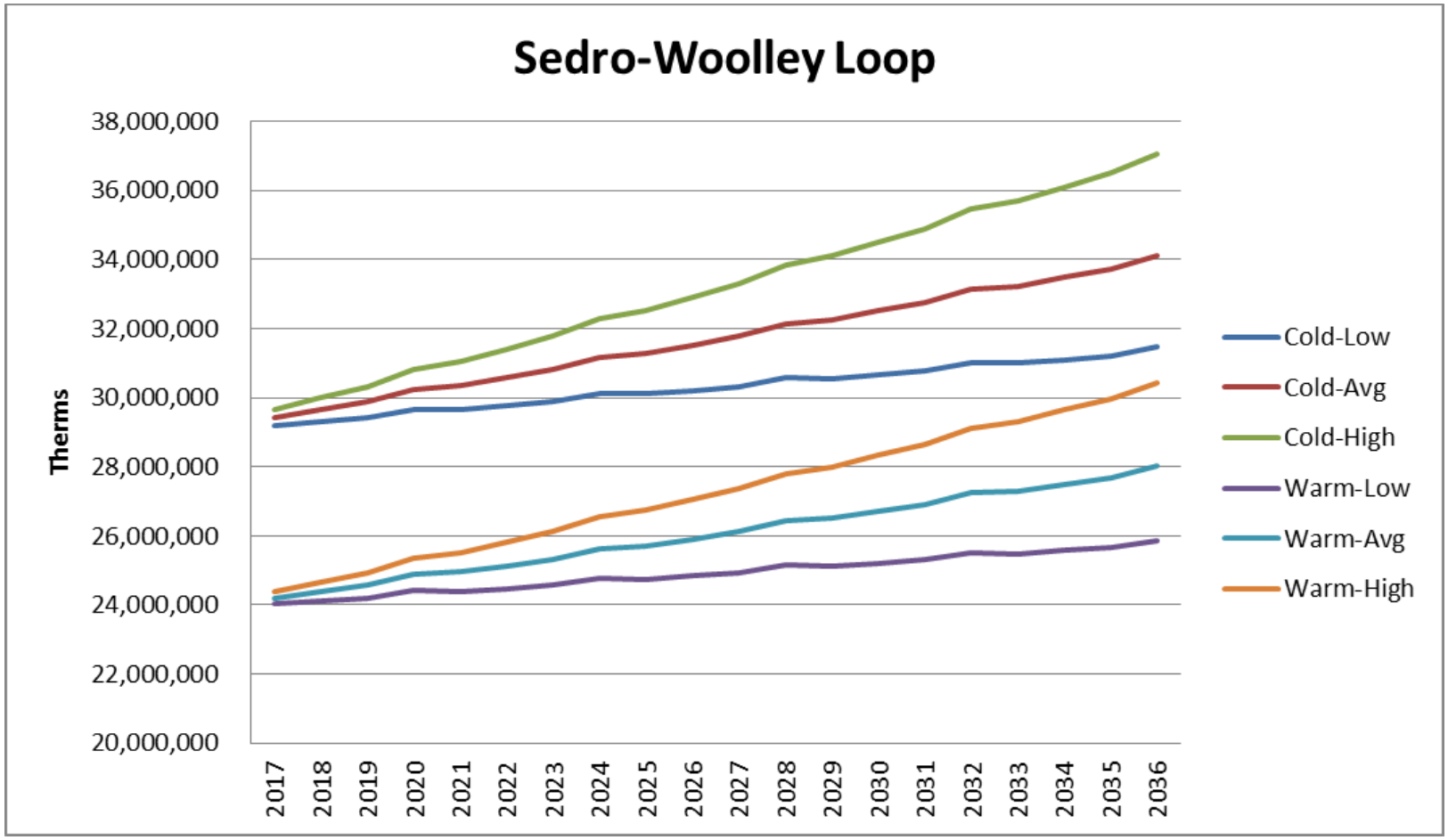
Sedro-Woolley Loop with High and Low Weather Scenarios



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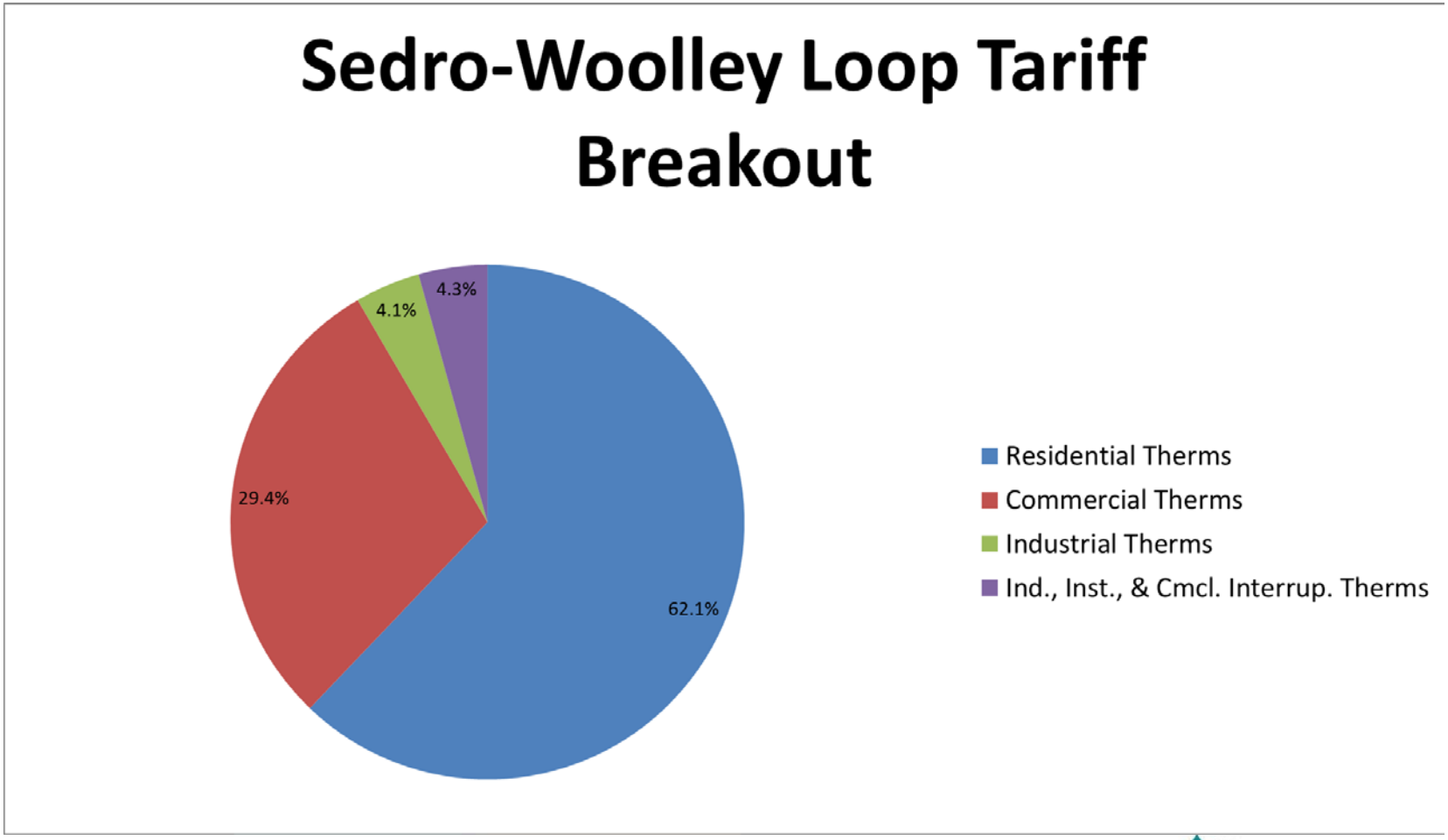
Tariff Breakout



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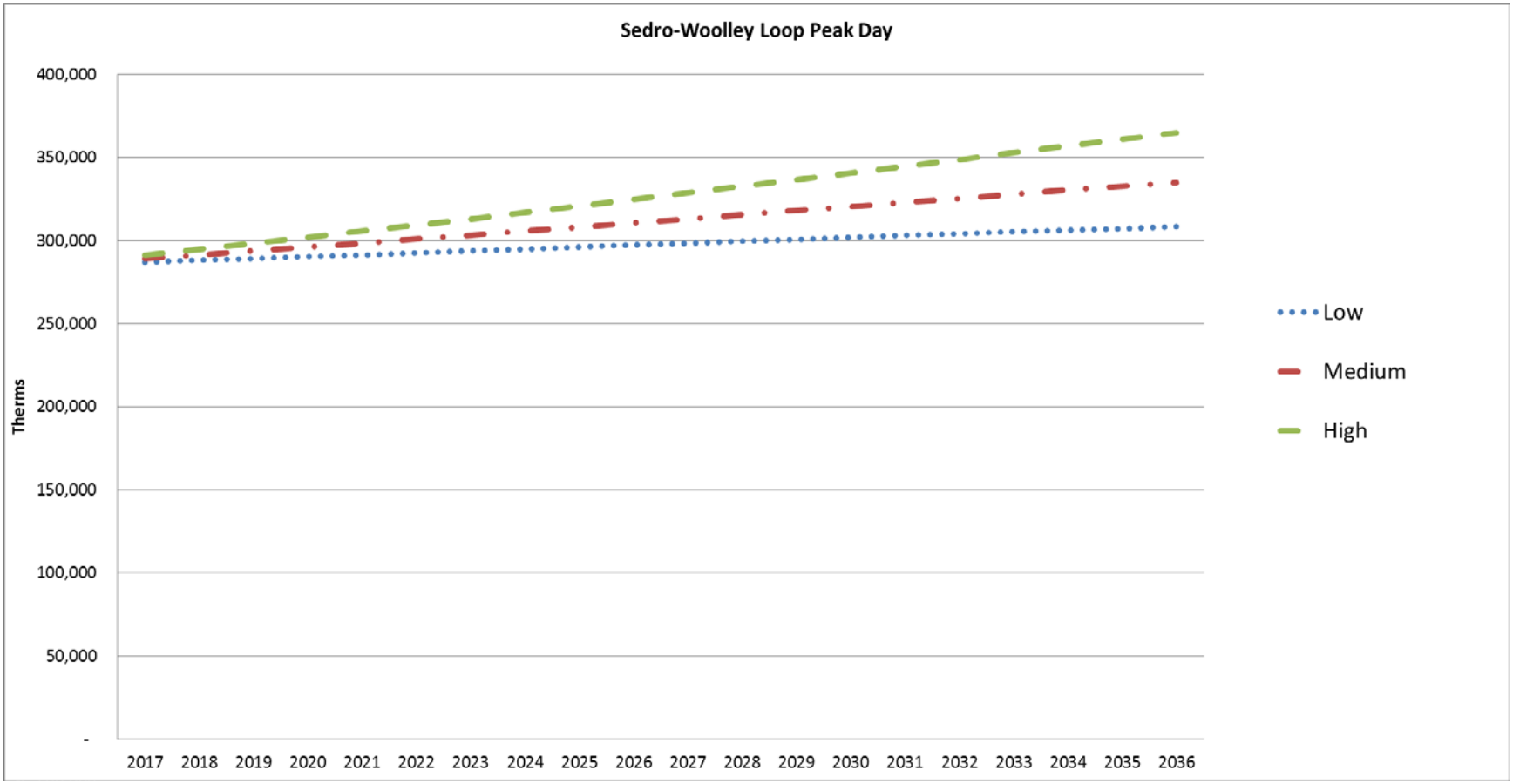
Sedro-Woolley Loop Peak Day



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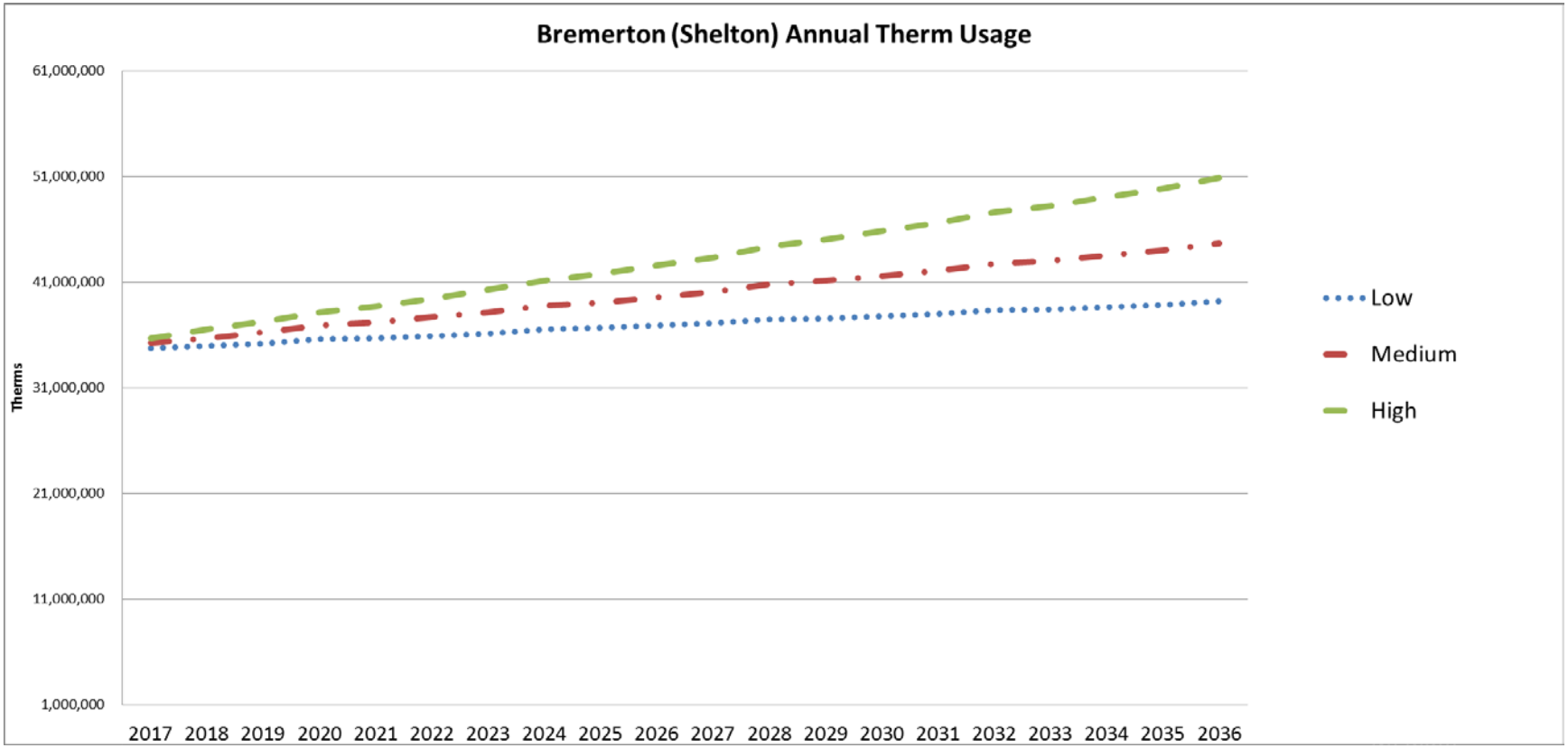
Bremerton (Shelton) With Average Weather



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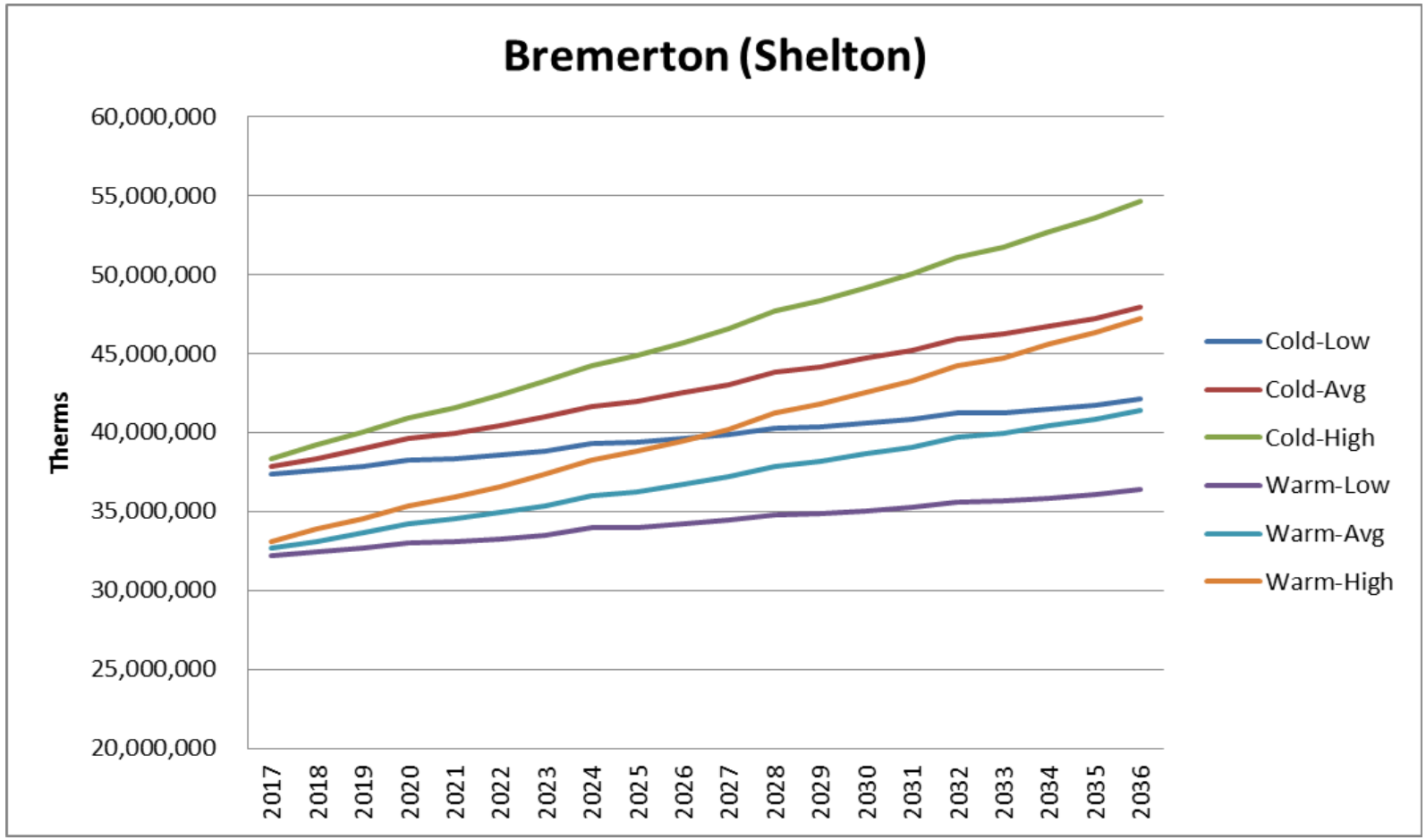
Bremerton (Shelton) with High and Low Weather Scenarios



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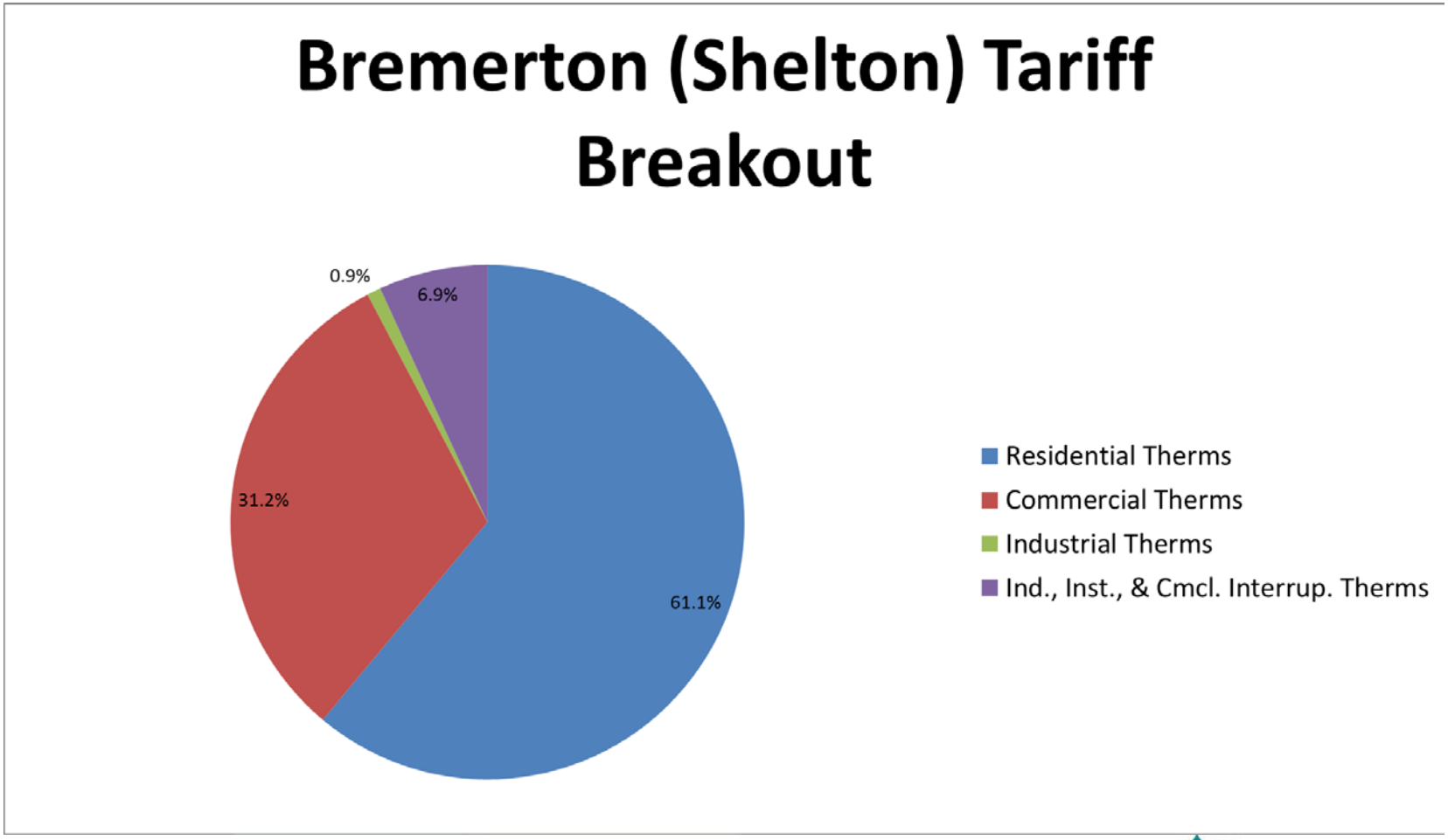
Tariff Breakout



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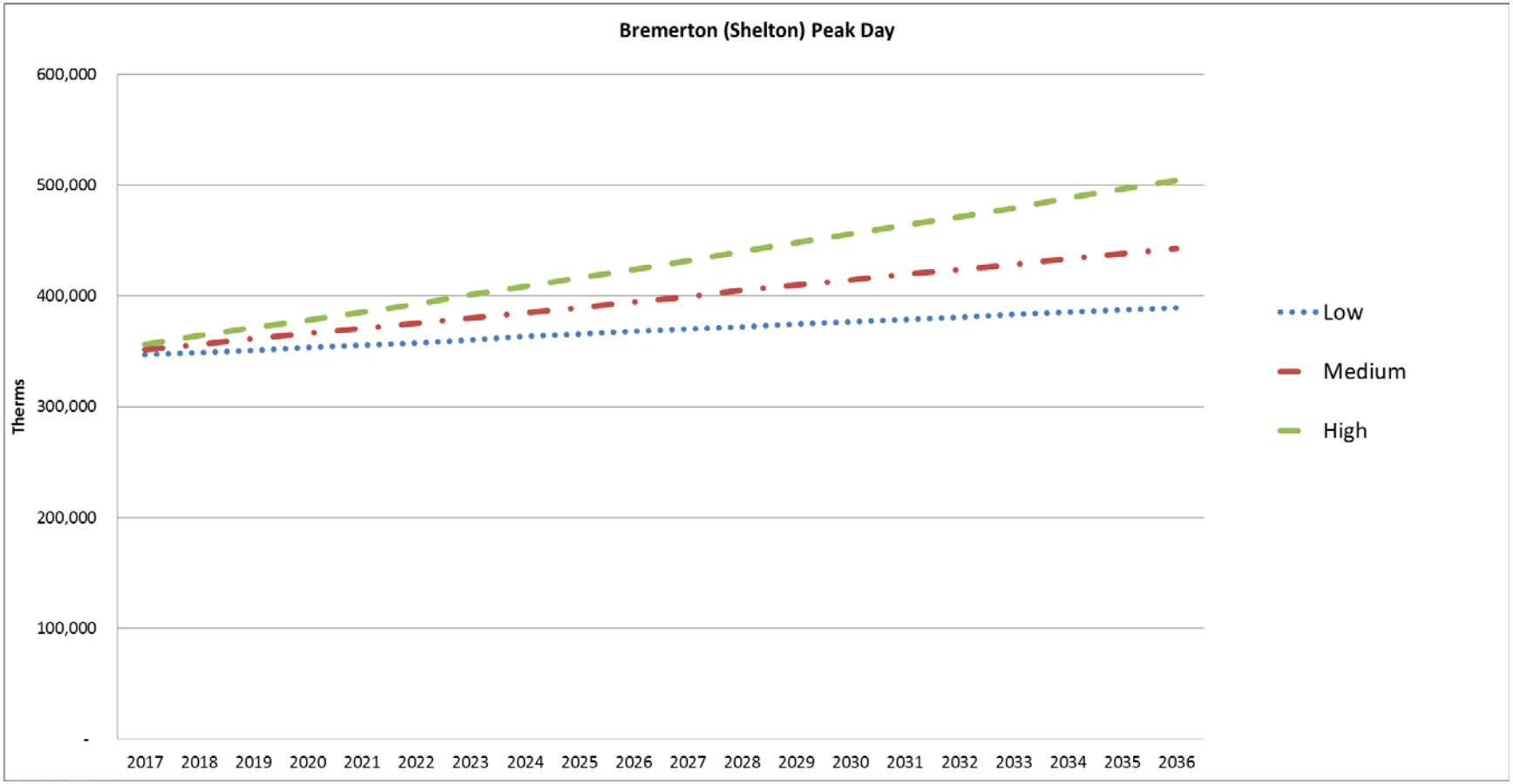
Bremerton (Shelton) Peak Day



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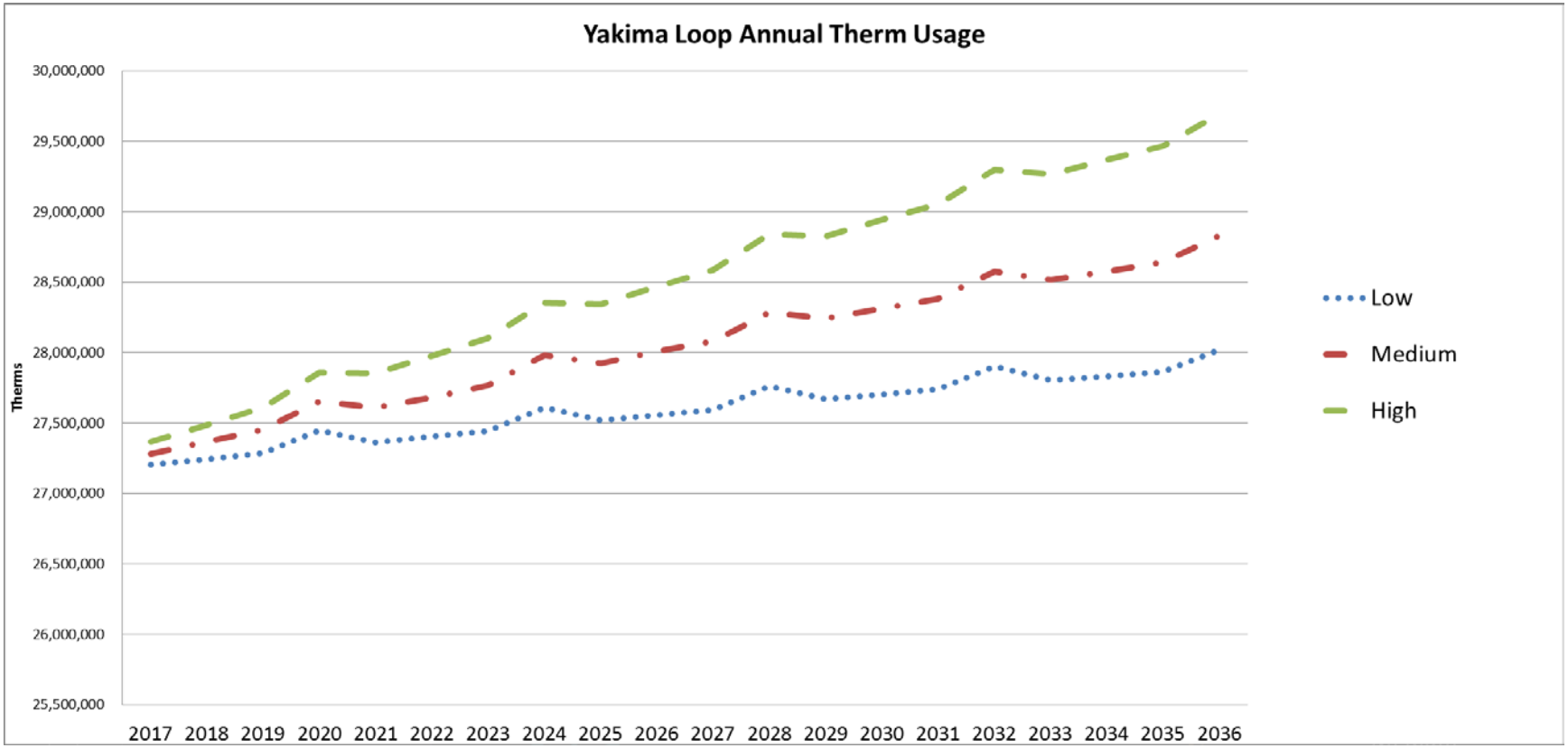
Castle Rock with Normal Weather



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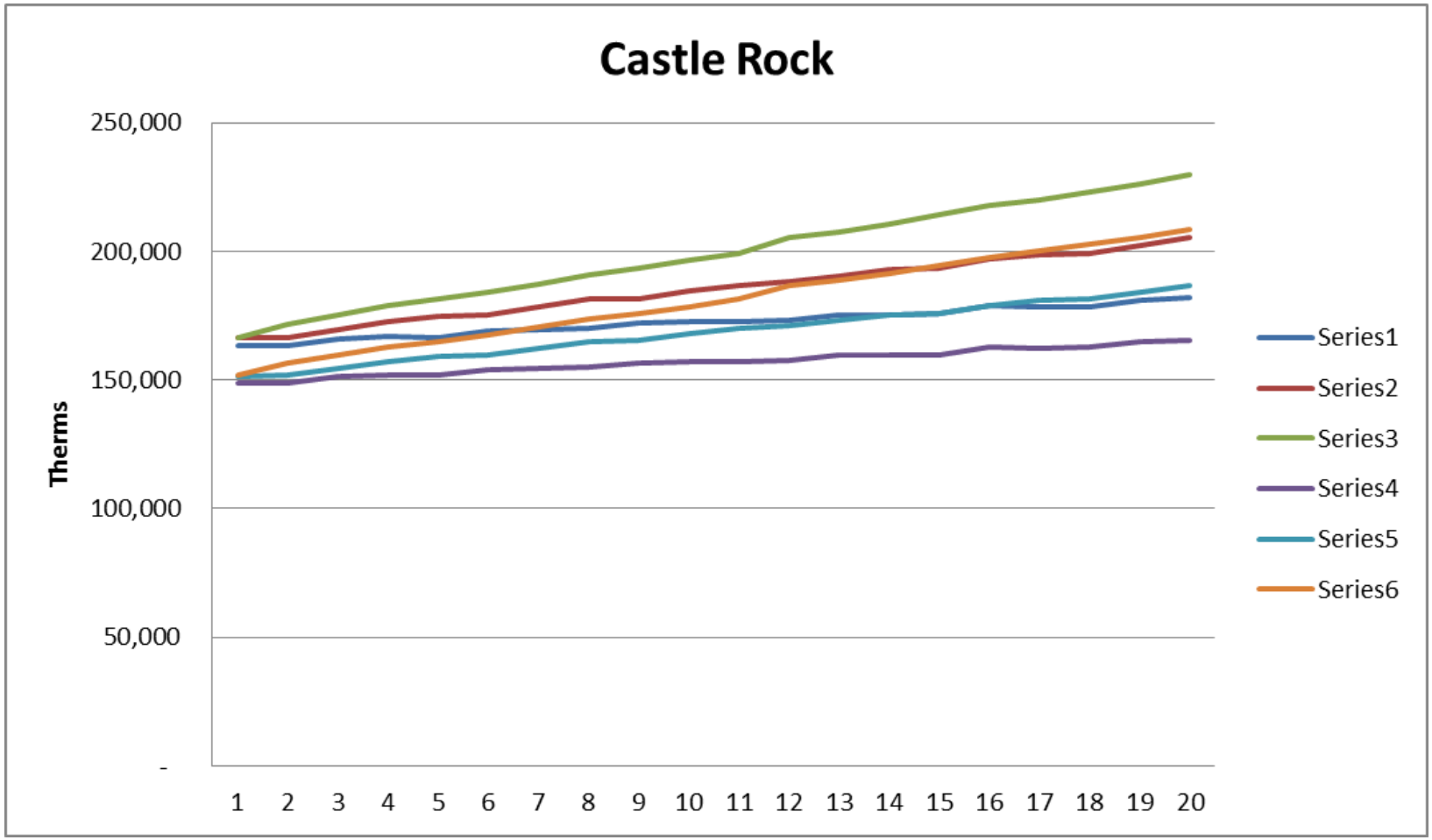
Castle Rock with High and Low Weather Scenarios



CASCADE NATURAL GAS CORPORATION
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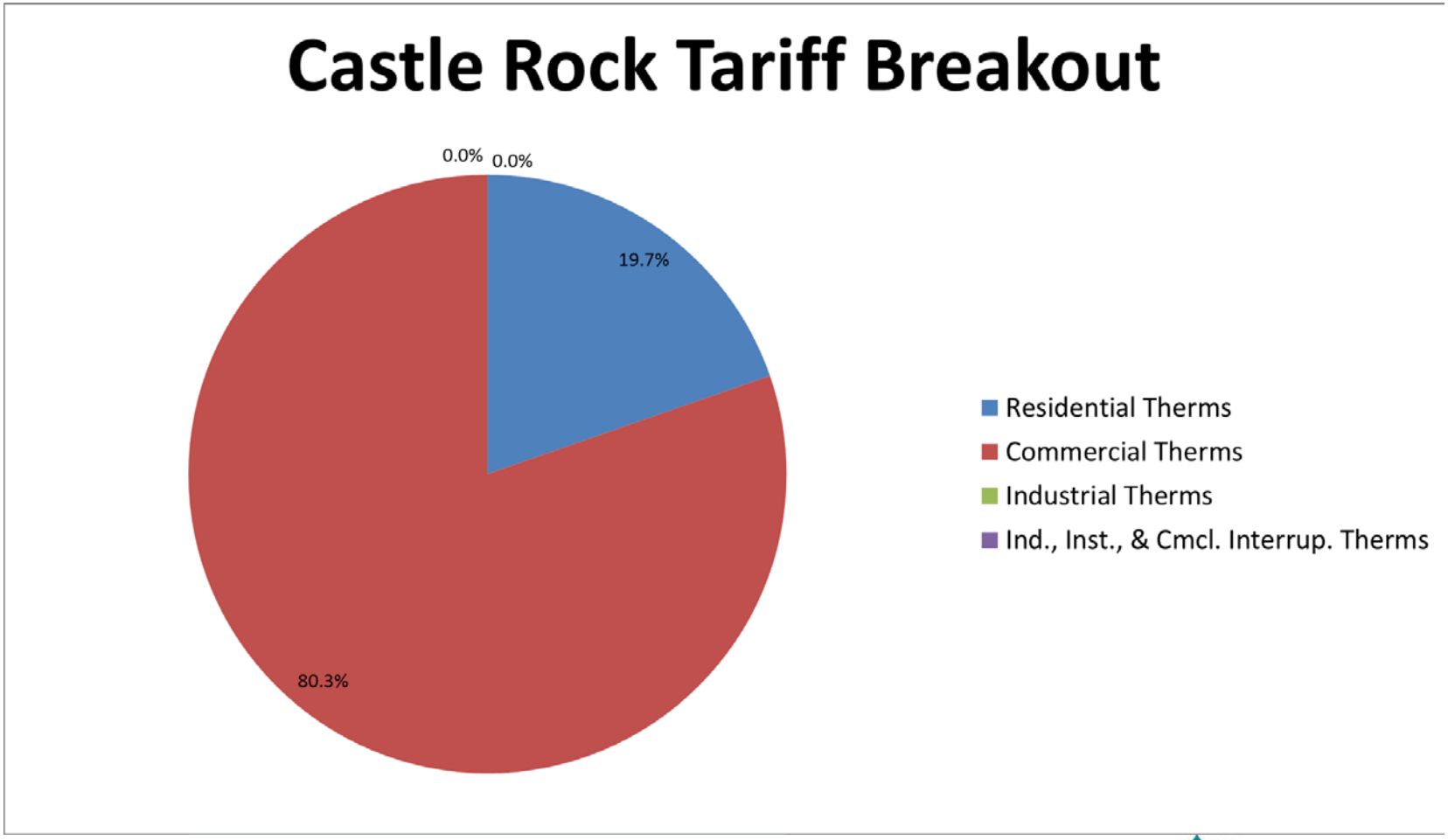
Tariff Breakout



Cascade Natural Gas Corporation
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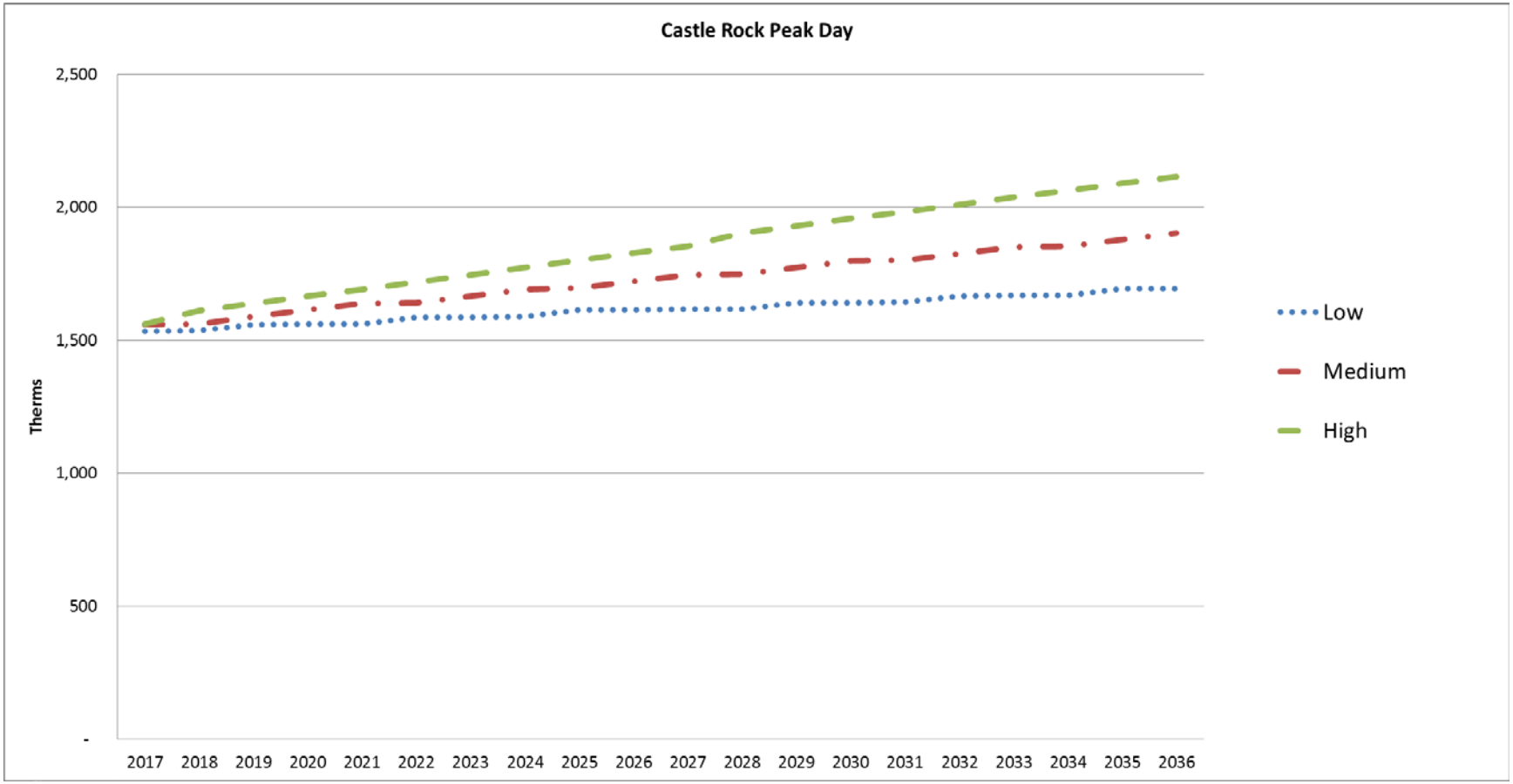
Castle Rock Peak Day



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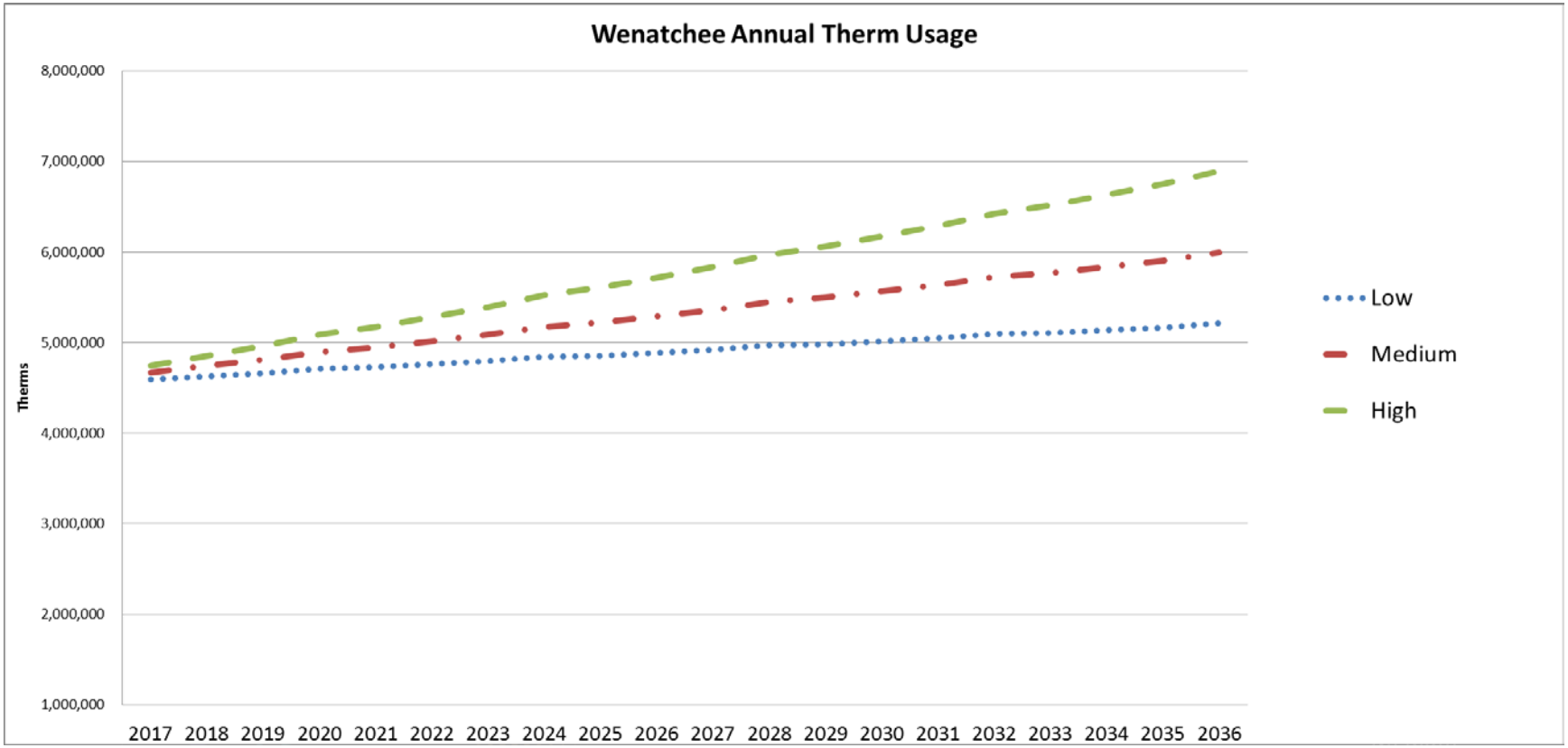
Wenatchee With Average Weather



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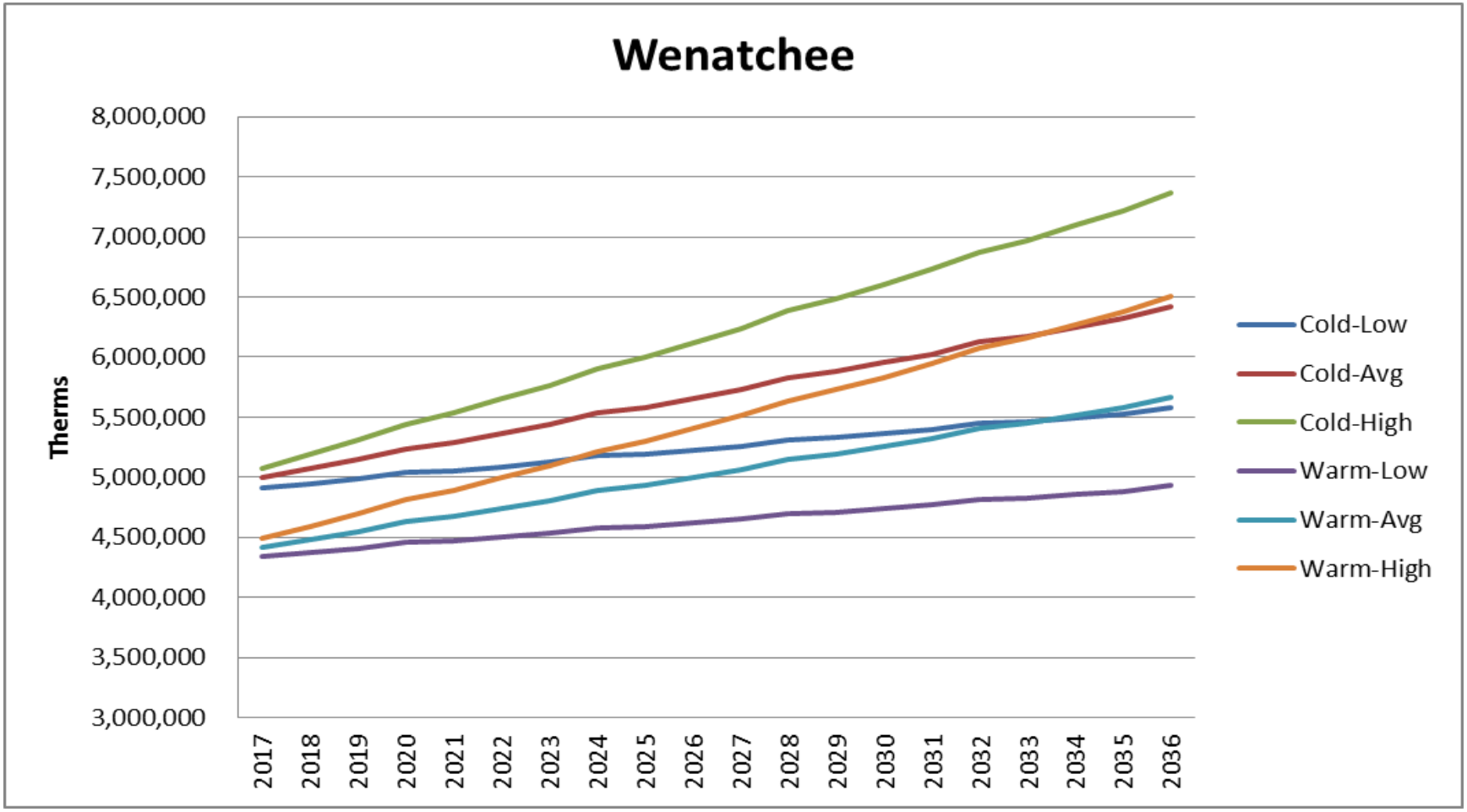
Wenatchee with High and Low Weather Scenarios



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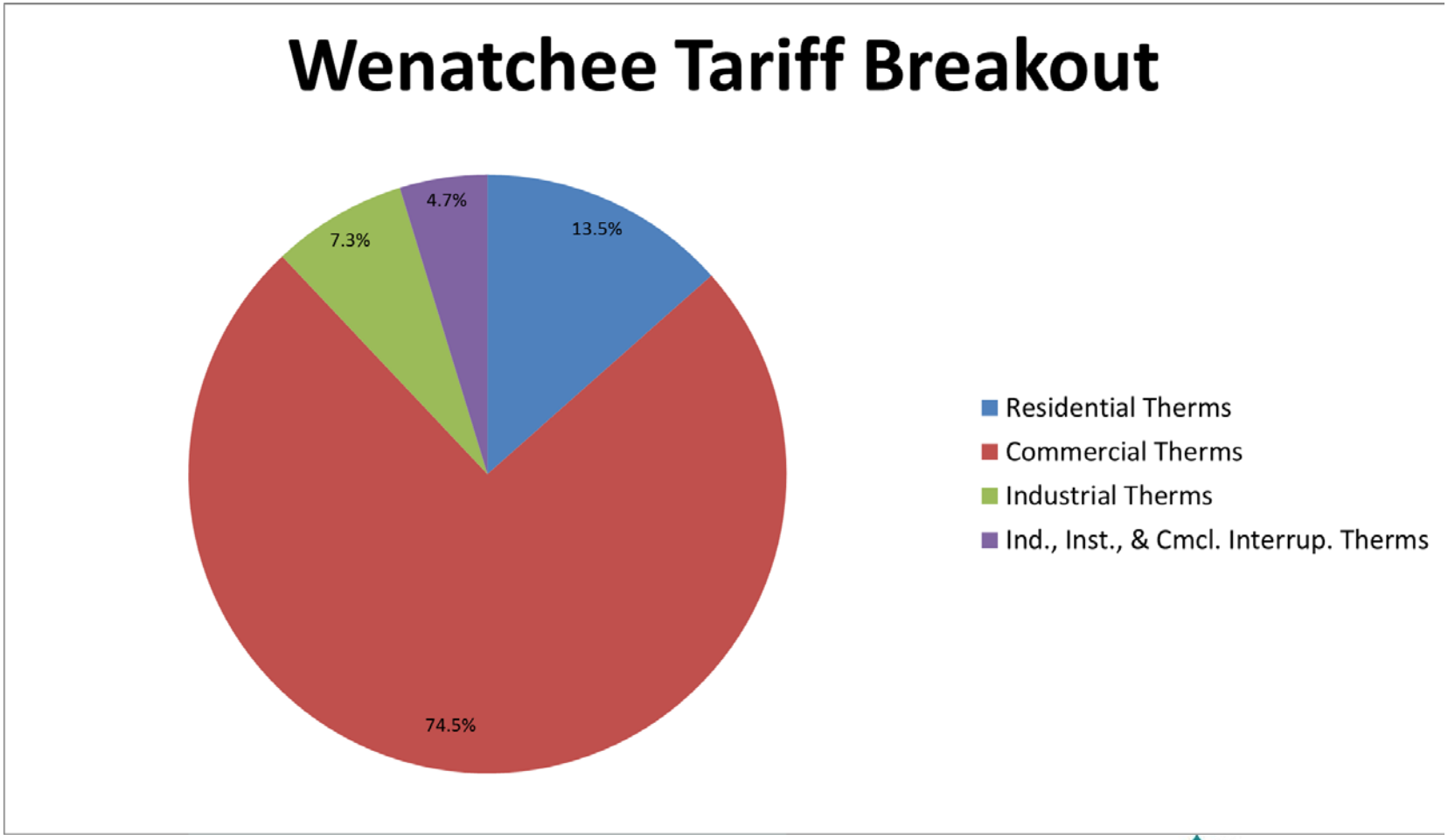
Tariff Breakout



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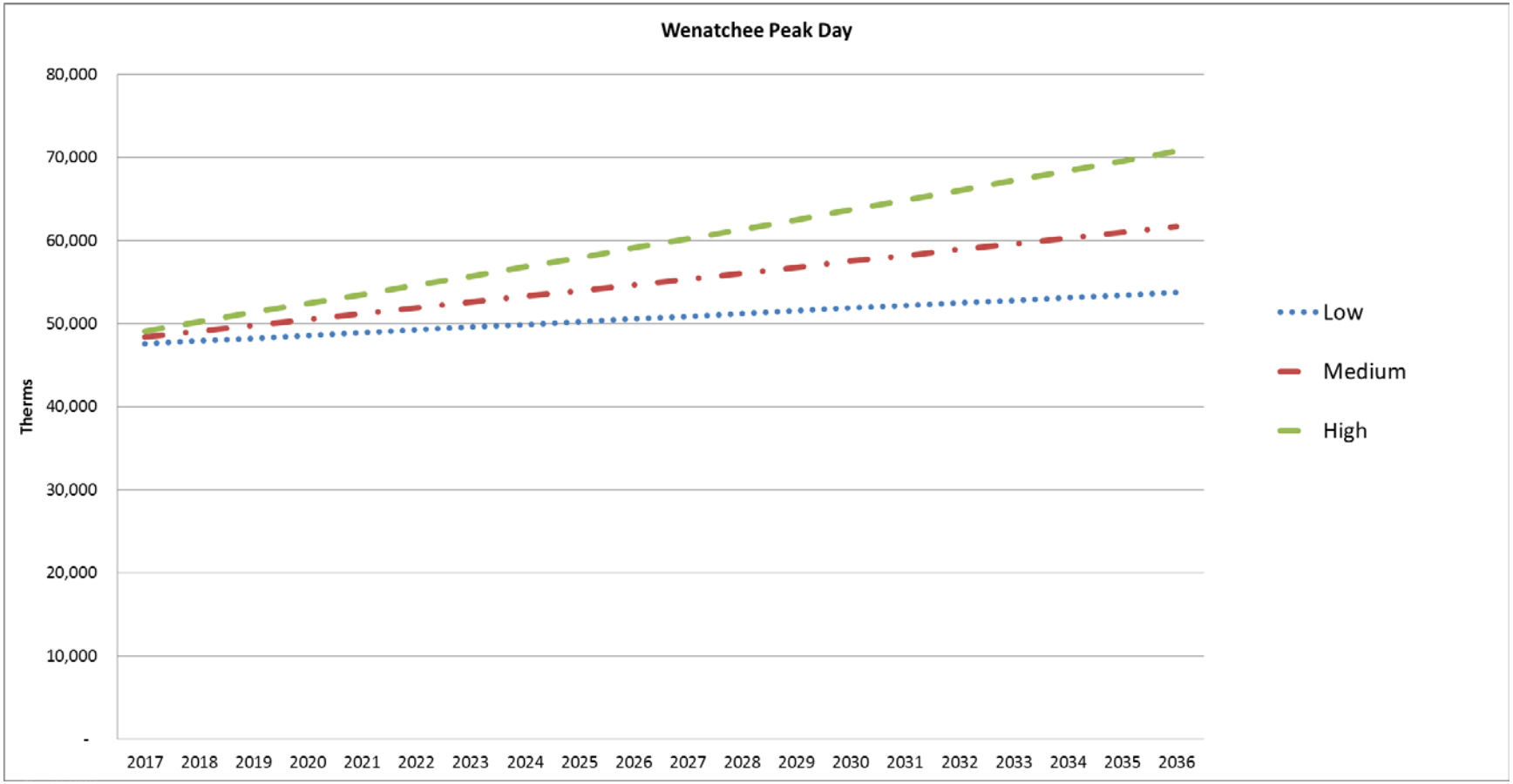
Wenatchee Peak Day



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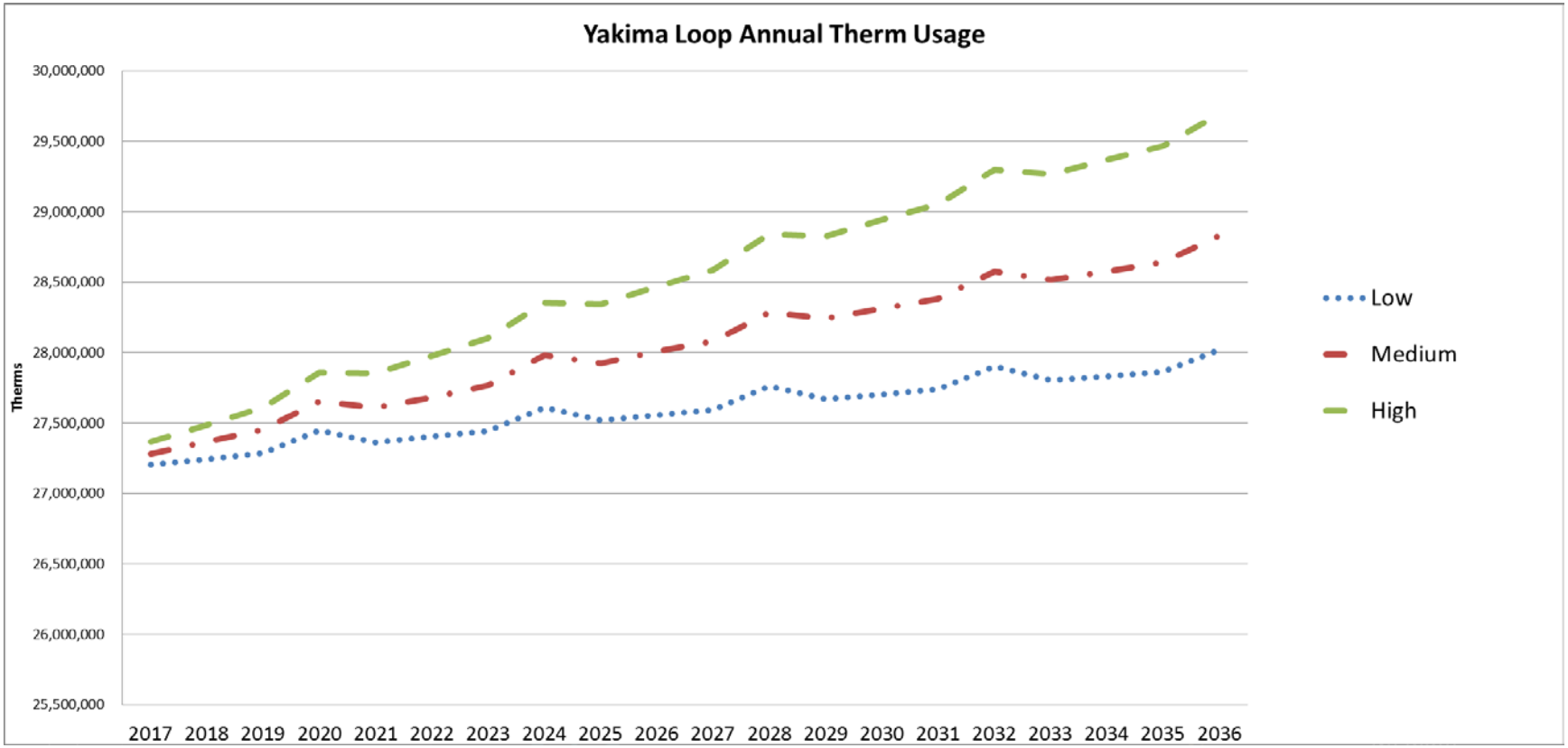
Yakima Loop with Normal Weather



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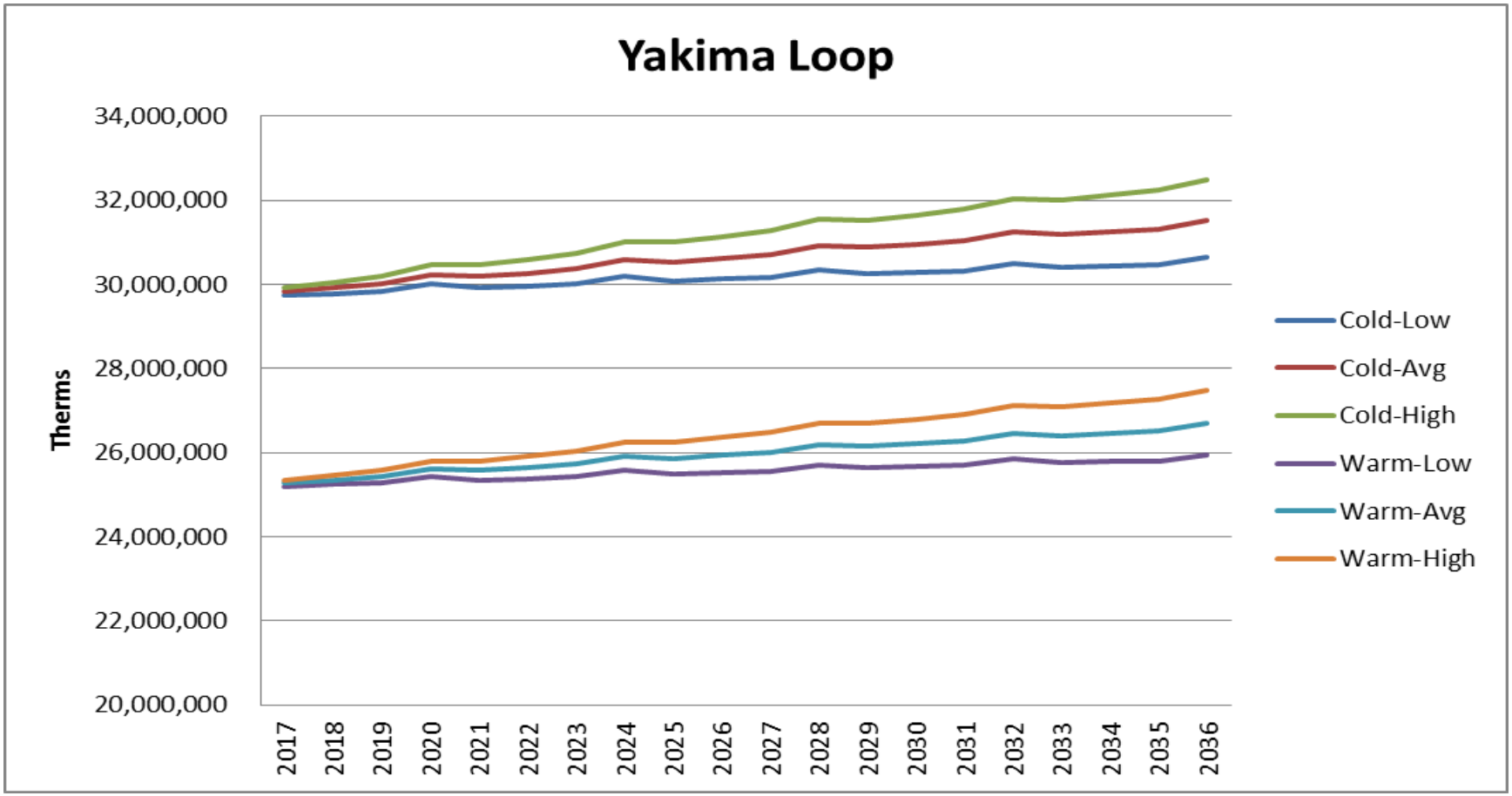
Yakima Loop with High and Low Weather Scenarios



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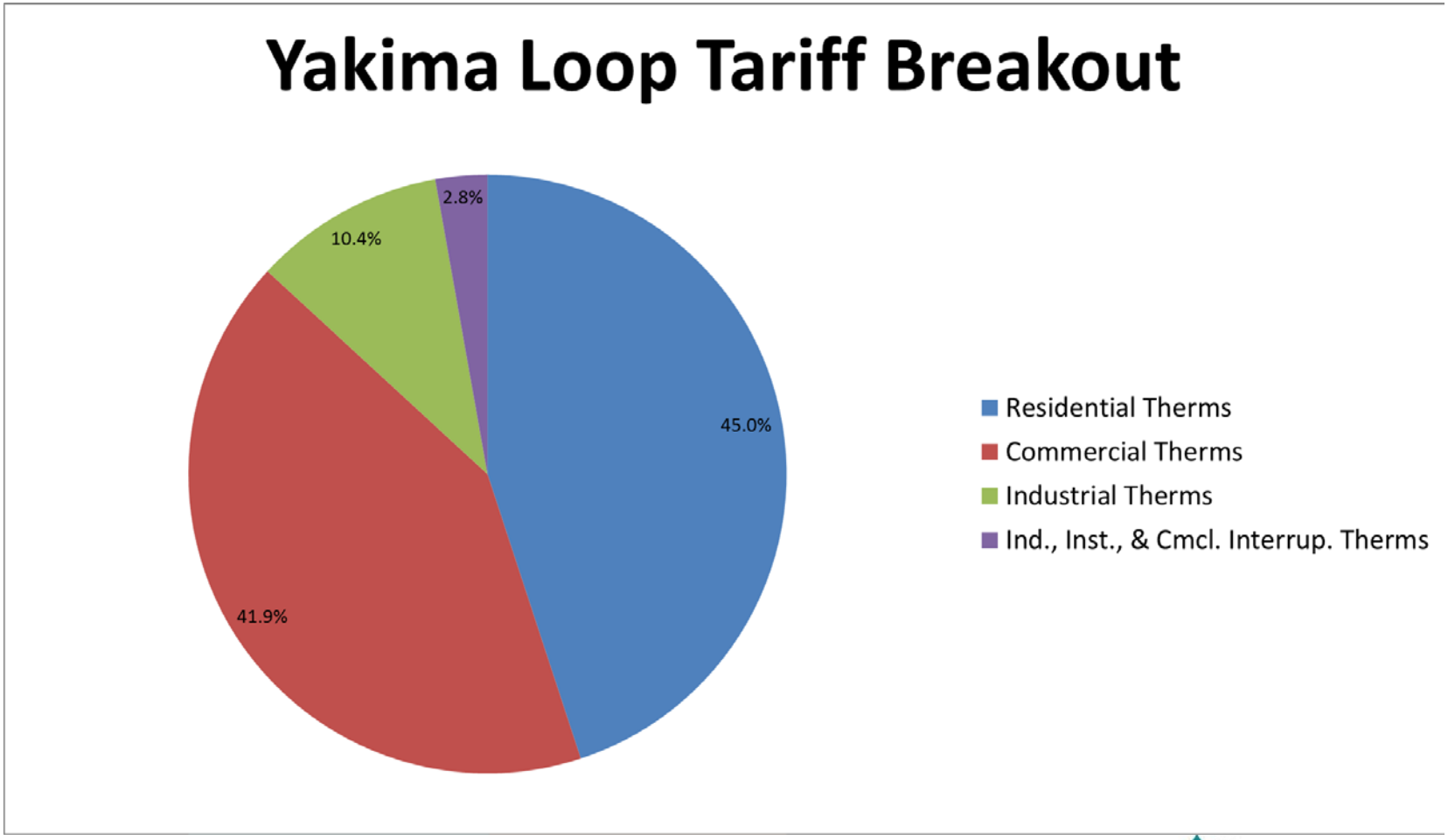
Tariff Breakout



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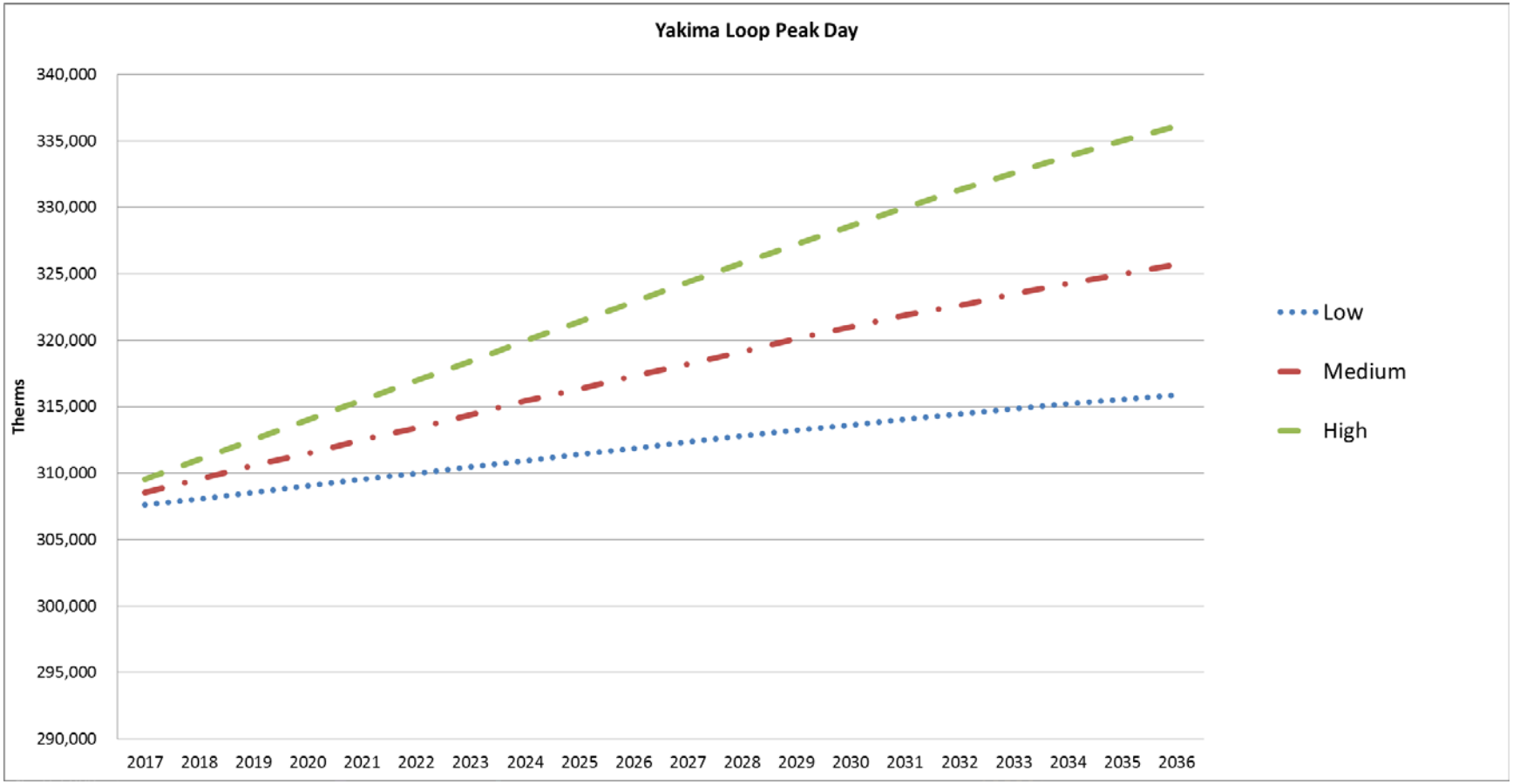
Yakima Loop Peak Day



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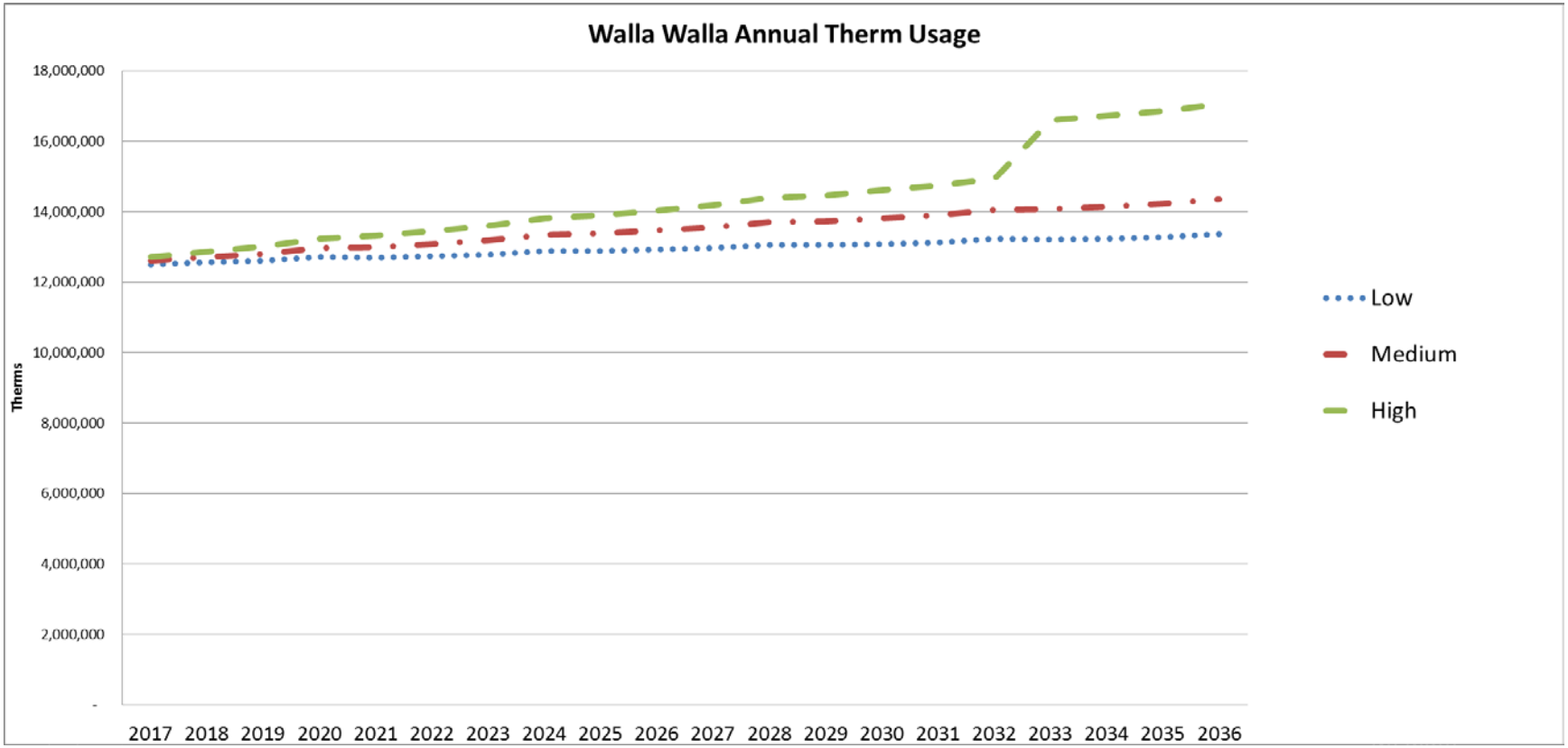
Walla Walla with Normal Weather



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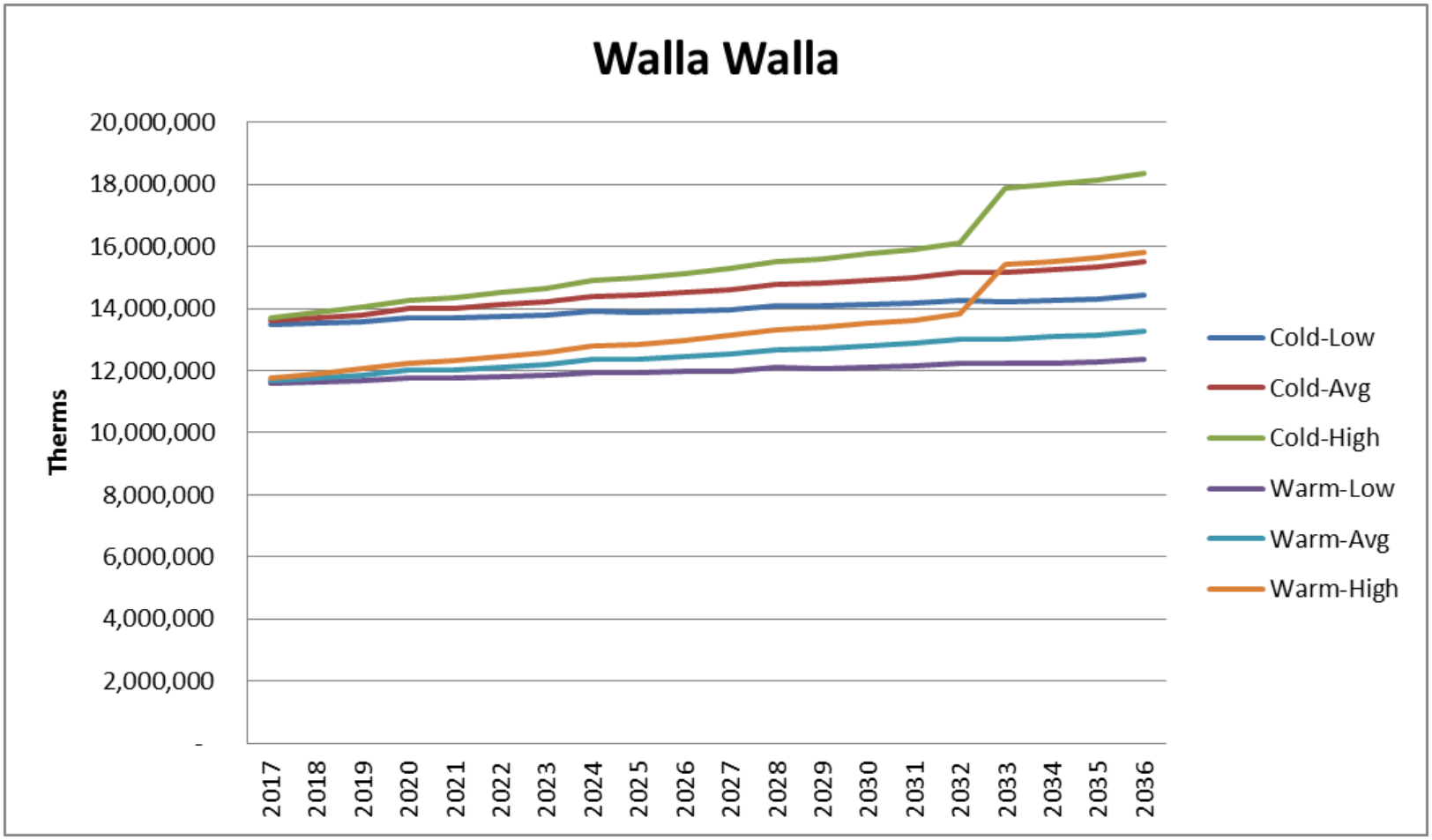
Walla Walla with High and Low Weather Scenarios



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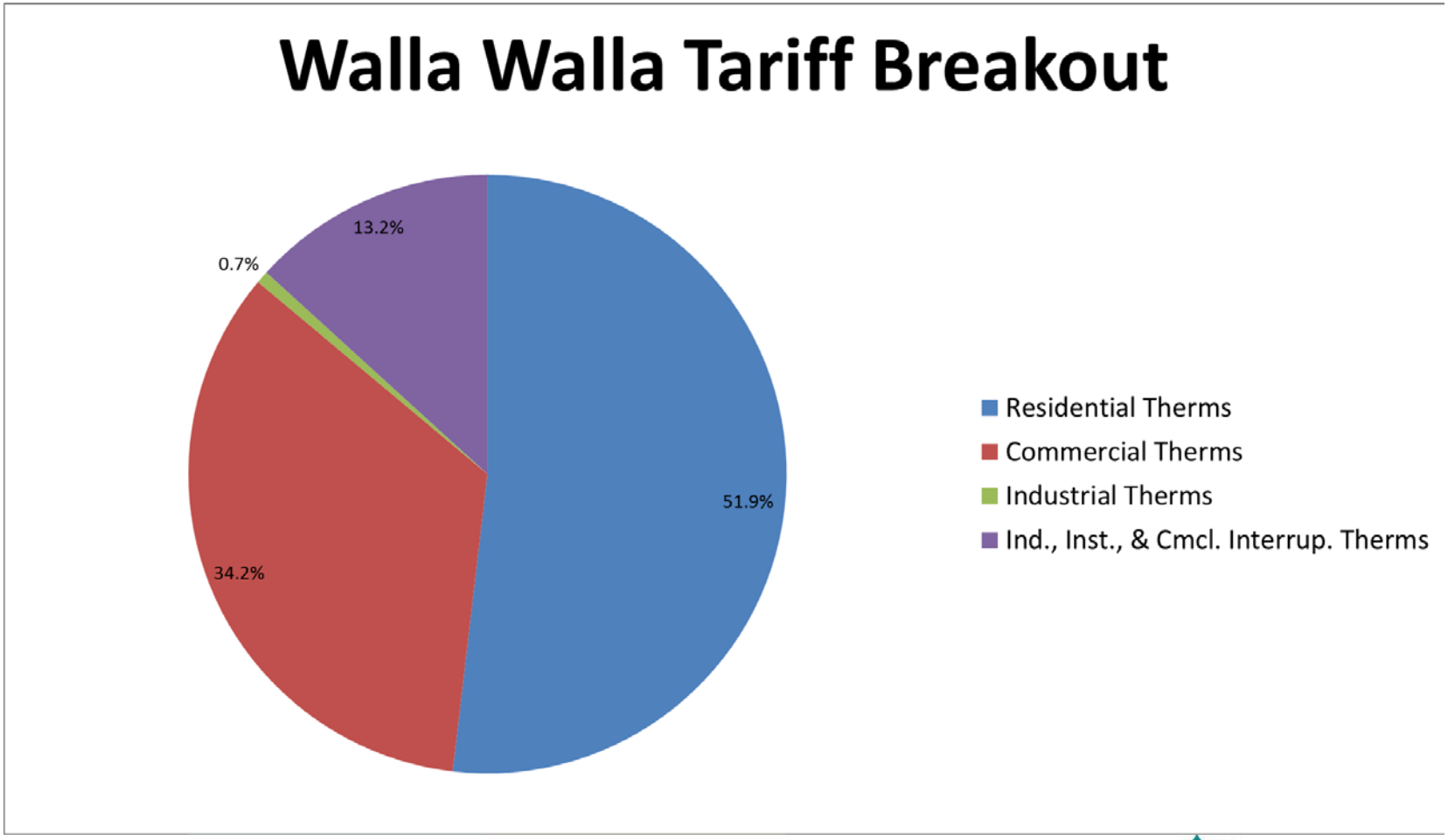
Tariff Breakout



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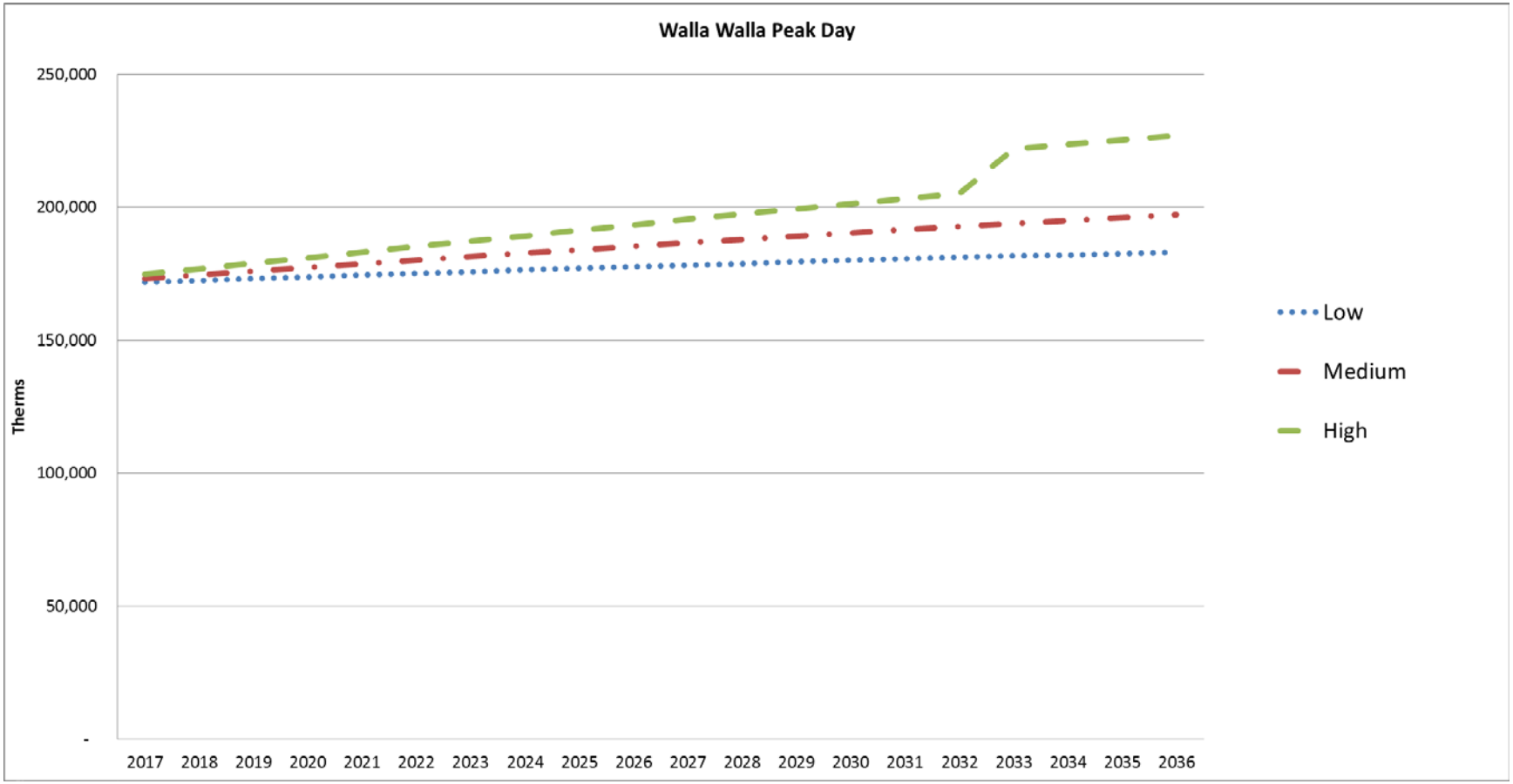
Walla Walla Peak Day



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Average HDD by month for each Weather Station (30 year history)

City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Baker City	33.28	28.47	20.62	15.12	8.19	3.08	0.33	0.51	4.03	13.82	25.48	33.09
Bellingham	19.89	18.45	15.02	10.74	5.64	1.96	0.34	0.26	2.58	8.94	15.91	20.53
Bremerton	20.13	19.06	15.47	11.93	6.47	2.68	0.50	0.37	2.37	8.97	16.74	21.15
Pendleton	24.72	21.64	14.81	9.60	4.11	0.82	0.03	0.04	1.03	8.05	18.59	25.84
Redmond	25.64	24.20	18.88	14.79	8.58	3.36	0.54	0.58	3.66	11.56	21.16	27.37
Walla Walla	23.70	20.38	12.85	7.58	2.82	0.45	0.00	0.02	0.51	6.39	17.29	24.93
Yakima	28.25	23.25	16.24	10.12	3.96	0.92	0.08	0.09	1.71	10.00	21.51	29.82

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Cold Scenario HDD by month for each Weather Station (6 years out of 30 year history)

City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Baker City	35.73	29.63	23.12	16.78	8.62	3.78	0.58	0.55	4.33	14.67	27.00	33.37
Bellingham	23.12	19.85	16.24	11.80	6.59	2.24	0.43	0.49	2.92	9.63	17.38	23.31
Bremerton	22.77	20.07	17.20	13.73	7.16	3.28	0.78	0.65	2.80	9.75	18.24	22.79
Pendleton	27.20	23.94	17.36	10.55	4.35	0.88	0.00	0.04	1.34	9.23	20.38	28.14
Redmond	29.18	26.62	21.06	16.18	9.32	3.80	0.96	0.84	4.07	12.94	22.80	28.49
Walla Walla	26.13	23.13	15.15	8.47	3.01	0.44	0.00	0.01	0.74	7.30	18.84	27.27
Yakima	31.34	25.58	18.54	12.05	4.55	0.88	0.11	0.14	2.33	10.87	24.37	32.97

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Warm Scenario HDD by month for each Weather Station (6 years out of 30 year history)

City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Baker City	30.28	24.86	18.57	13.18	5.78	2.19	0.23	0.58	3.11	11.98	26.69	31.76
Bellingham	17.33	16.94	12.56	8.94	3.46	0.91	0.10	0.19	1.68	6.97	15.13	19.74
Bremerton	18.18	17.47	12.96	10.22	4.48	1.78	0.28	0.33	1.94	7.34	16.48	21.06
Pendleton	23.78	20.46	12.74	8.38	2.53	0.68	0.06	0.05	0.74	6.29	19.04	25.13
Redmond	23.19	22.35	16.85	13.26	6.58	2.57	0.49	0.62	2.97	9.49	22.35	27.19
Walla Walla	21.92	18.56	10.41	5.88	1.18	0.32	0.02	0.04	0.28	4.65	17.33	23.38
Yakima	25.94	21.57	14.03	8.43	2.12	0.70	0.01	0.10	1.30	7.95	20.83	28.82

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Cascade Gas Supply Overview
Current Resources

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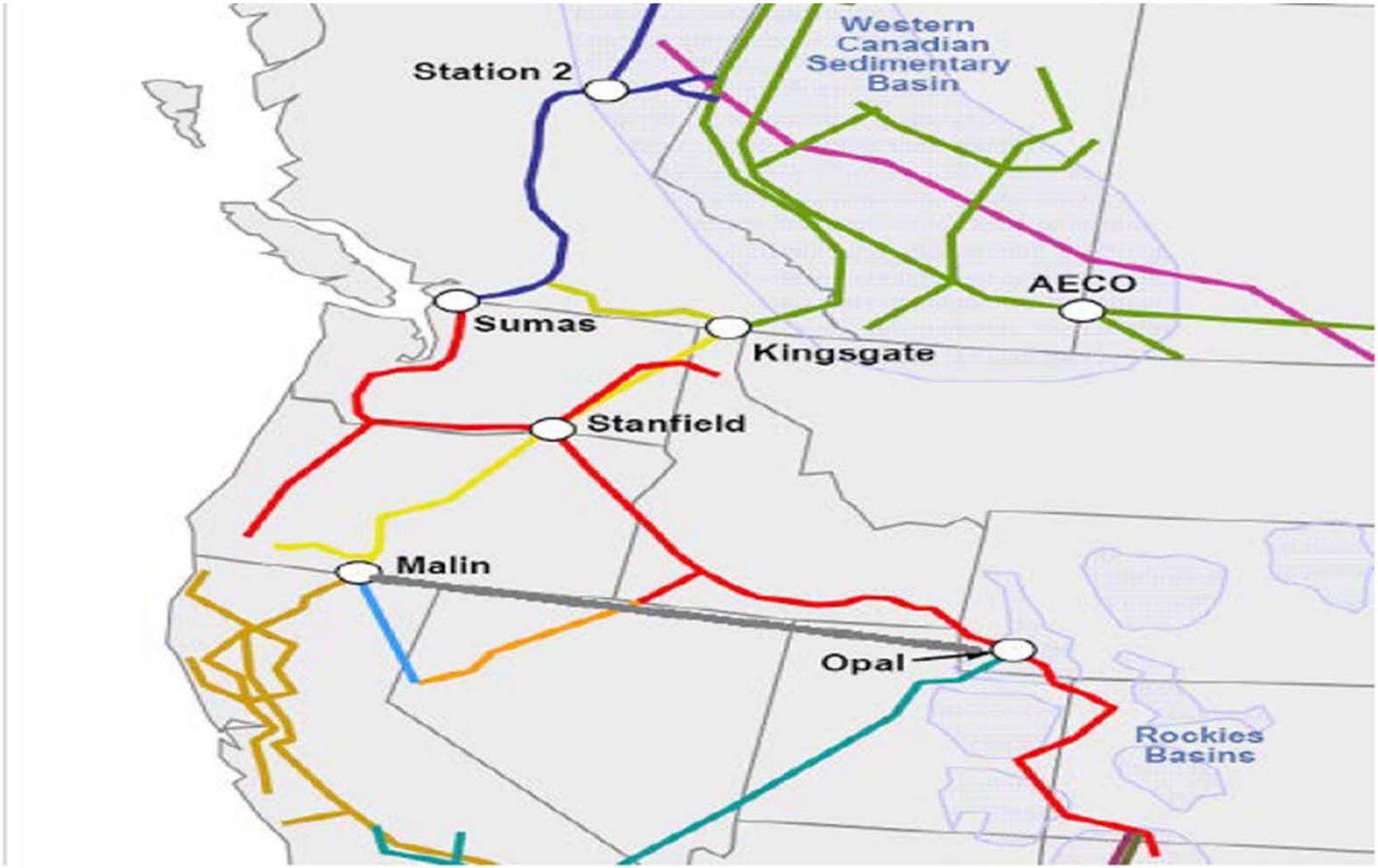
System Overview



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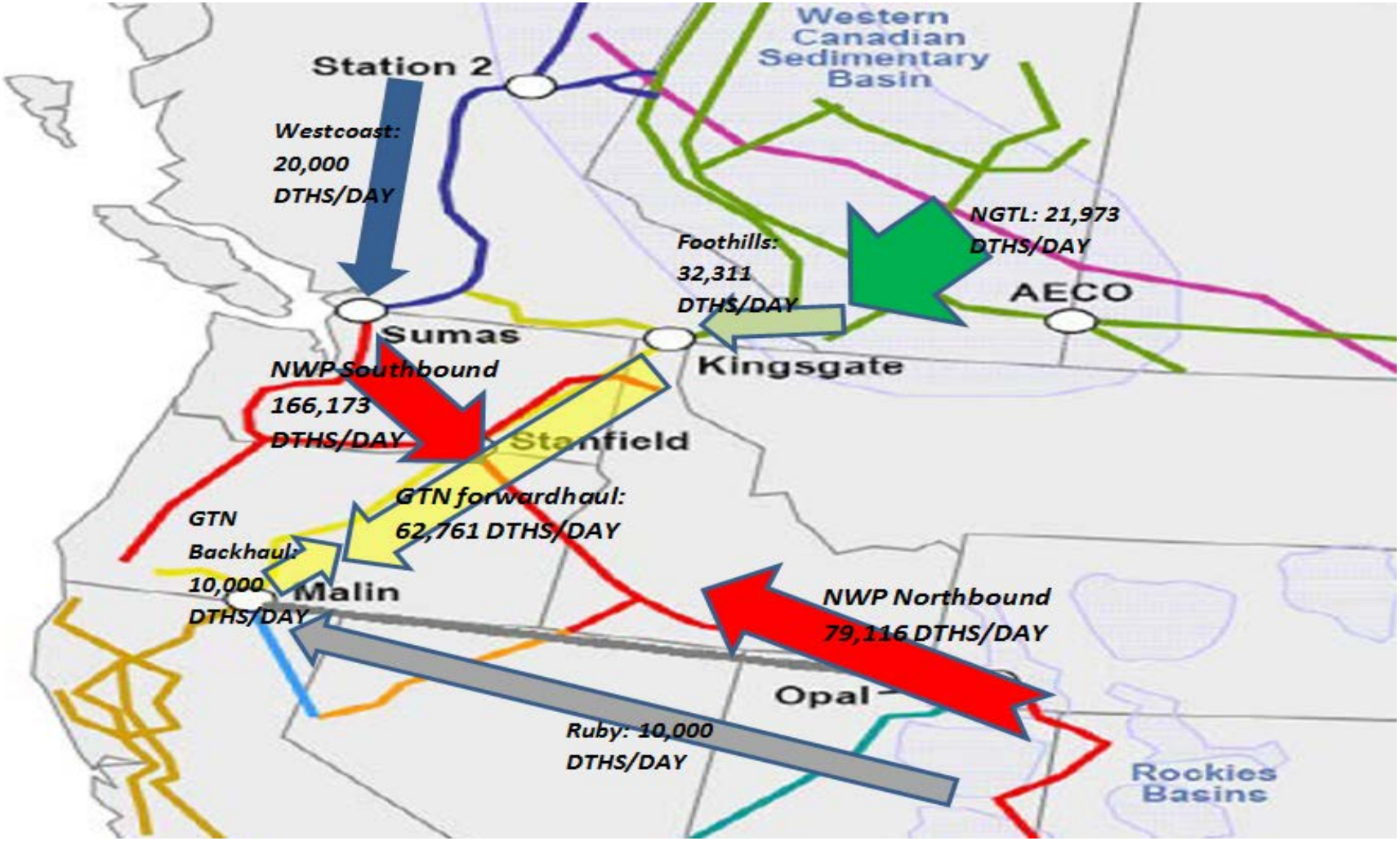
Transport

EXAMPLE OF POSSIBLE CNGC WINTER TRANSPORT CAPACITY FLOW



NWP Transport

CONTRACT			Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
DESCRIPTION	RECEIPT	DELIVERY	31	29	31	30	31	30	31	31	30	31	30	31
NWP														
Contract #100002	all rec	all del	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384	jackson prairie	bremerton/mt vernon	30420	30420	30420	30420	30420	30420	30420	30420	30420	30420	30420	30420
Contract #135558	sumas	stanfield/portland west	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400
Contract #139382	sumas	sedro wooley	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract #139383	sumas	sedro wooley	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract #139384	sumas	sedro wooley	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134	sumas/ignacio	burbank/yakima/aberdeen	330	330	330	330	330	330	330	330	330	330	330	330
Contract #100149	sumas/ignacio	walla walla	75	75	75	75	75	75	75	75	75	75	75	75
Contract #100150	sumas/ignacio	menan starch	160	160	160	160	160	160	160	160	160	160	160	160
Contract #100064	sumas	hermiston/pasco	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078
Contract #132329	sumas	kern river	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Contract #139090	sumas	plymouth/umatilla/bellingham	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637	sumas	hermiston/oak harbor/selah	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630	stanfield	durkee/pendelton/mission	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
			335,840	335,840	335,840	335,840	335,840	335,840	335,840	335,840	335,840	335,840	335,840	335,840

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GTN Transport

CONTRACT			Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
DESCRIPTION	RECEIPT	DELIVERY	31	29	31	30	31	30	31	31	30	31	30	31
GTN														
#17037	kingsgate	malin	23,980	23,980	23,980	23,980							23,980	23,980
#17019	kingsgate	Spokane NPC	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558
#17021	kingsgate	Kosmos Farm	200	200	200	200	200	200	200	200	200	200	200	200
#17022	kingsgate	Stanfield City	232	232	232	232	232	232	232	232	232	232	232	232
#17023	kingsgate	Madras	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078
#17025	kingsgate	Prineville	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984
#17026	kingsgate	Redmond	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734
#17028	kingsgate	Bend	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927
#17031	kingsgate	Stearns	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189
#17033	kingsgate	LaPine	45	45	45	45	45	45	45	45	45	45	45	45
#17034	kingsgate	Gilchrist	313	313	313	313	313	313	313	313	313	313	313	313
#17036	kingsgate	Chemult	75	75	75	75	75	75	75	75	75	75	75	75
#17023	kingsgate	Madras	331	331	331								331	331
#17025	kingsgate	Prineville	827	827	827								827	827
#17026	kingsgate	Redmond	662	662	662								662	662
#17028	kingsgate	Bend	4,137	4,137	4,137								4,137	4,137
#17031	kingsgate	Stearns	1,241	1,241	1,241								1,241	1,241
#17034	kingsgate	Gilchrist	248	248	248								248	248
#13687	turqouise flats	stanfield	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
#13688	turqouise flats	stanfield	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
			77,761	77,761	77,761	70,315	46,335	46,335	46,335	46,335	46,335	46,335	77,761	77,761

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Other Transport

CONTRACT			Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
DESCRIPTION	RECEIPT	DELIVERY	31	29	31	30	31	30	31	31	30	31	30	31
FOOTHILLS														
(CNG FS-2)	AB/C border	kingsgate	3,126	3,126	3,126	3,126	3,126	3,126	3,126	3,126	3,126	3,126	3,126	3,126
(CNG FS-3)	AB/C border	kingsgate	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
(CNG FS-1)	AB/C border	kingsgate	7,602	7,602	7,602								7,602	7,602
			32,311	32,311	32,311	24,709	24,709	24,709	24,709	24,709	24,709	24,709	32,311	32,311
NOVA														
(NOVA) (#2003039348-1)	NIT	AB/C border	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
SPECTRA														
(#FI-2583-B-00)	station 2	huntingdon	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
RUBY PIPELINE LLC														
#61036000B	pearl creek	turqouise flats	15,000	15,000	15,000	15,000	-	-	-	-	-	-	15,000	15,000

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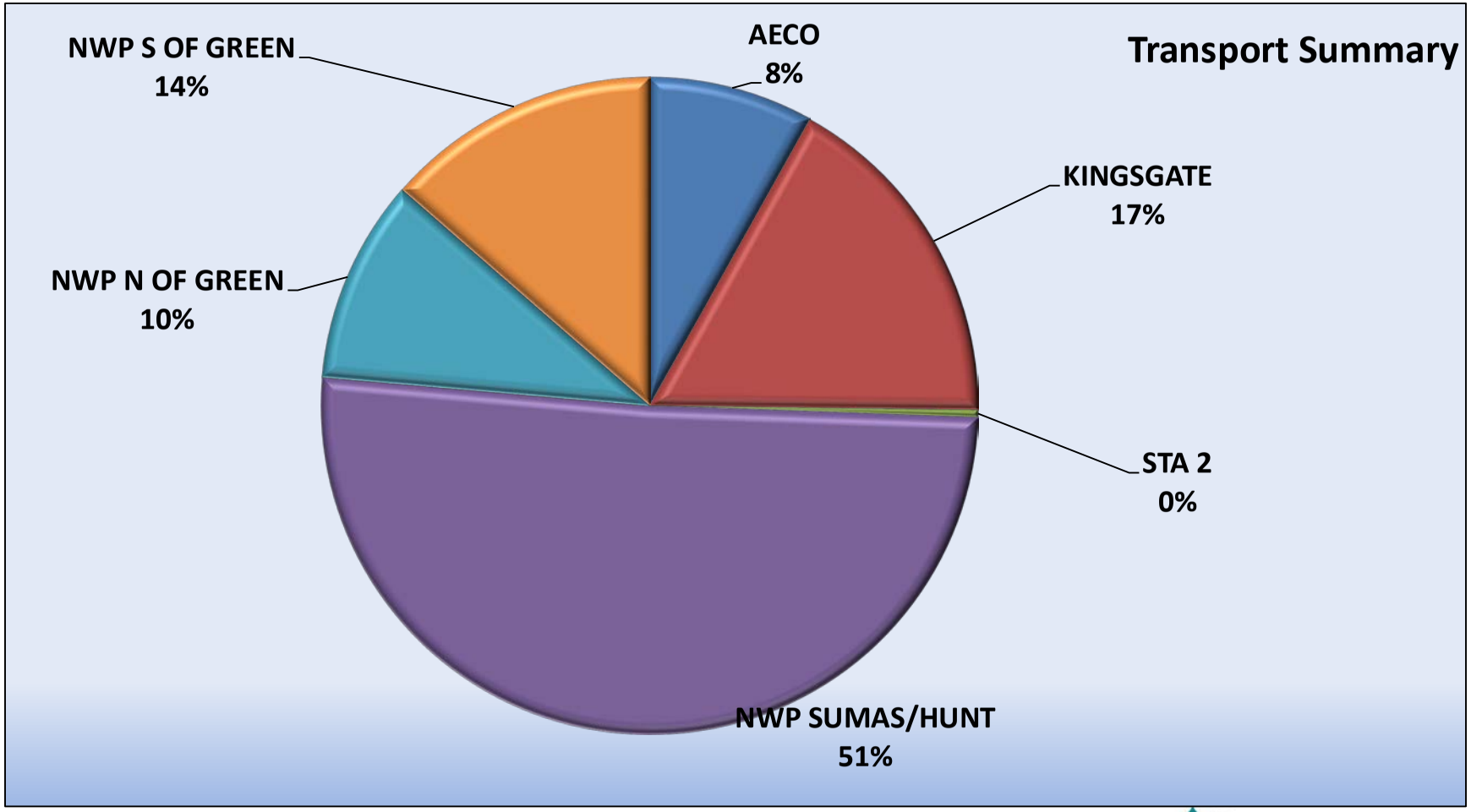

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Impact of Constraints, OFO's and Entitlements

- Tools used by the pipeline to ensure appropriate pressure , flow and deliveries.
- NWP will use line pressure and storage volumes to balance deliveries with receipts of gas.
- Entitlement Examples
  - If pressures sag and deliveries are low- Entitlement may be called. (NWP Storage Level is Critical)
  - Entitlement places penalties on shipper to stay within a tolerance.
  - Same scenario can apply in reverse- pressure too high
  - Places Penalties on Shippers for non-compliance
- OFO Examples
  - Pricing may be low in the Rockies.
  - Shippers modify behavior to take advantage of pricing.
  - This cause a displacement of more flows from South to North
  - Constraints come into Play- ie.Kemmerer
  - NWP may issue OFO from Sumas south to alleviate shortfall in the north.
- NWP may use Proposed Entitlements or OFO's as warnings.
  - NWP will use their own resources first.
  - Notices may be issued to attempt shipper to modify behavior
  - OFO and Entitlements used as last resort.

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Asset Management Agreement

- Tenaska Marketing Ventures-
  - Transport and Storage Released to Tenaska in exchange for annual payment made to CNG
  - Provide Scheduling Services
  - Market Analysis as needed
  - Can help to Isolate CNG from Cuts and potential Pipeline Operational issues.
  - Tenaska is very familiar with our assets – extracting maximum value from our assets. Competitive pricing for AMA compared to others.
  - Privately help company that assumes more risk that CNG can tolerate.
  - Expertise that Cascade doesn't currently possess.

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Storage Resources

- Jackson Prairie-
  - 4 account with 1,235,593 Dth Capacity
  - We were approximately 90% Cycled over the past winter season
  - CNGC remains committed to cycling or Jackson Prairie
- Plymouth-
  - 2 accounts with 662,200 Dth Capacity
  - New account of 100,000 Dth added for the upcoming season
  - In addition to above we acquired TF-2 (Firm Redelivery Transportation) of 10,675
  - Plymouth returned to fully functional operation for 04/01/2016.
  - CNGC remains committed to using Plymouth as a peaking resource.

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Supply

HIGHLIGHTS FOR THE 2016 PORTFOLIO DESIGN

- PORTFOLIO PROCURMENT DESIGN BASED ON A DECLINING PERCENTAGE EACH YEAR, ACCORDINGLY: Approximately Year 1: 80% of annual requirements; Year 2: 40%, Year 3: 20%.
  - 80% allows more flexibility operationally
  - Allows us to be in the market monthly through FOM purchase or Day Gas purchases
- GSOC would consider a modification from a three year rolling portfolio if: 1) reasonable concerns exist regarding the availability of supply in a particular basin; 2) the outer year 3 year forward price is 20% higher/lower than the front month over a reasonably sustained period.
- Hedged Percentages (fixed-price physical) Currently max 40% of annual requirements. Second year should be set at 25%, and 20% hedged volumes for year three.
- GSOC would consider a modification of this plan if the outer year 3 year forward price is 20% higher/lower than the front month over a reasonably sustained period.
- Annual load expectation (Nov-Oct) is approximately 30,000,000 dths, consistent with recent load history.
- GSOC has requested a review of possible 5 year deal at AECO. Gas Supply currently analyzing scenarios.

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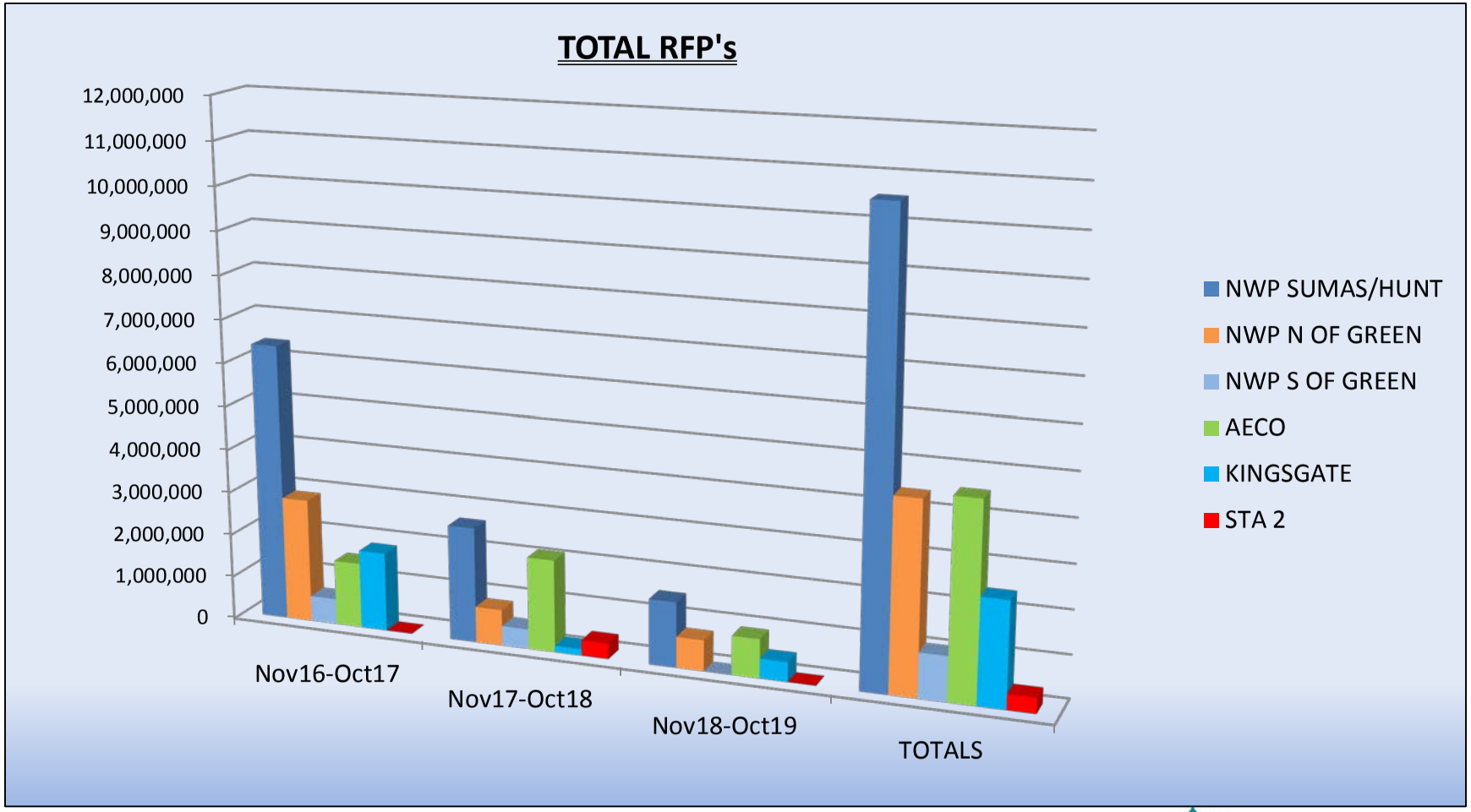

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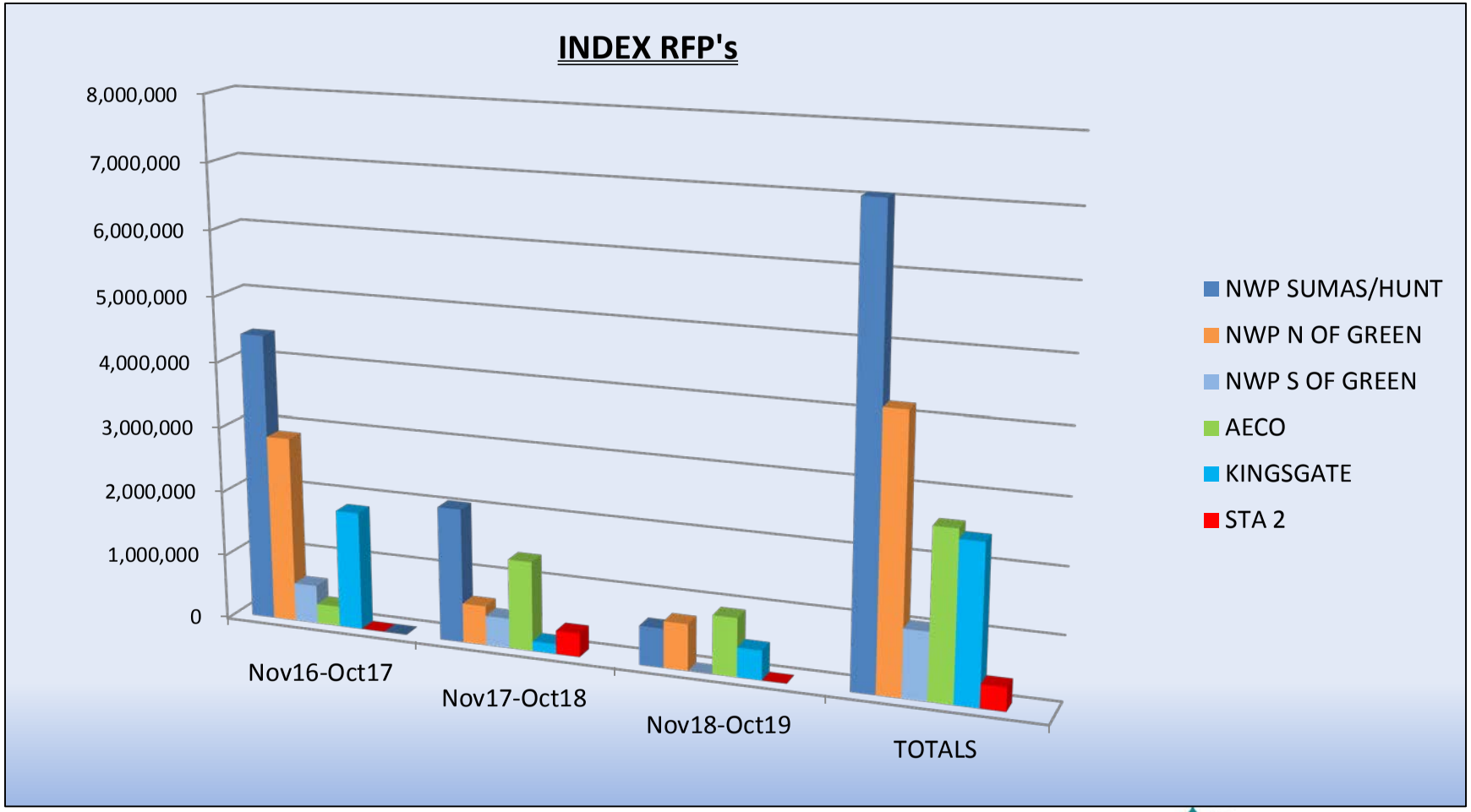

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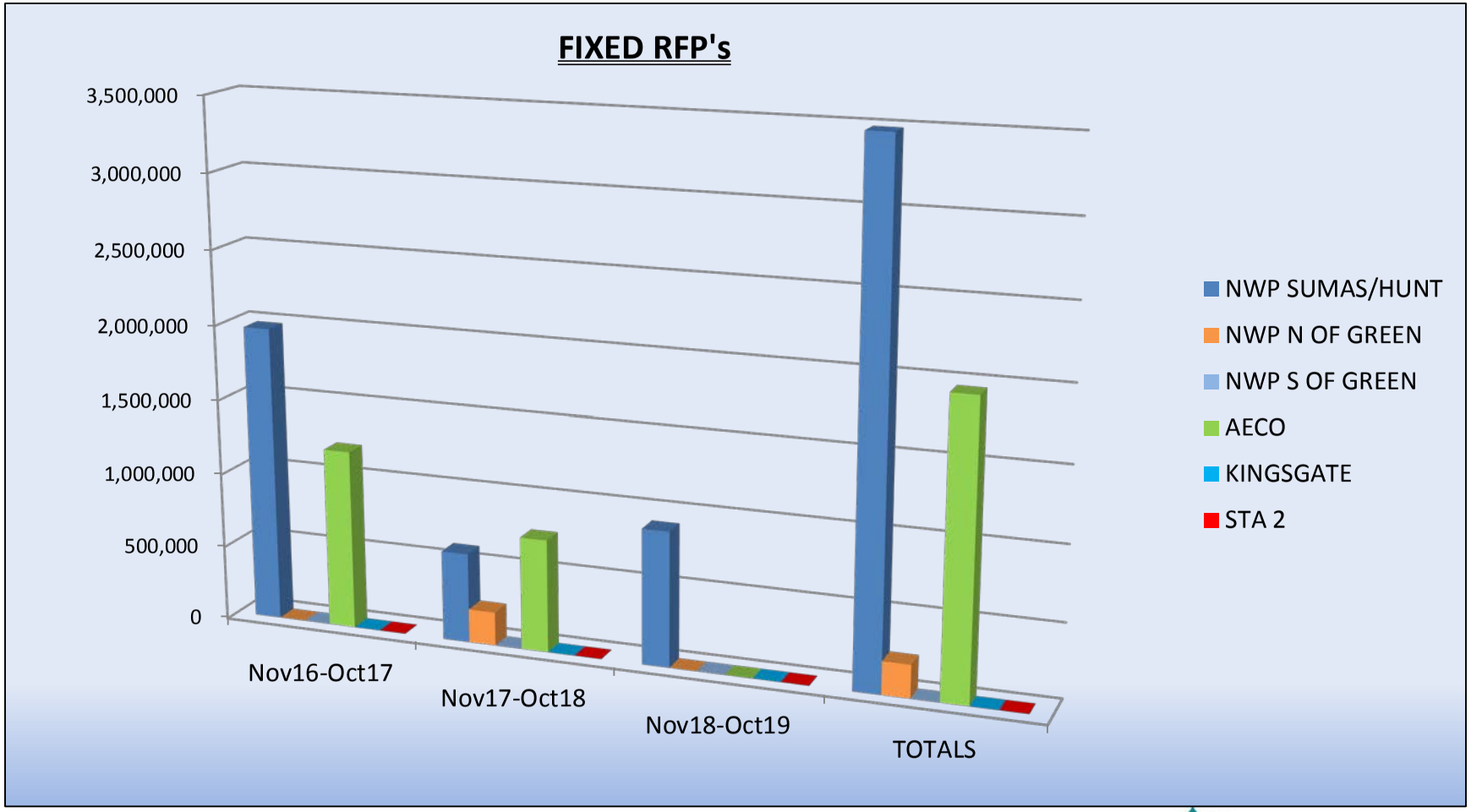

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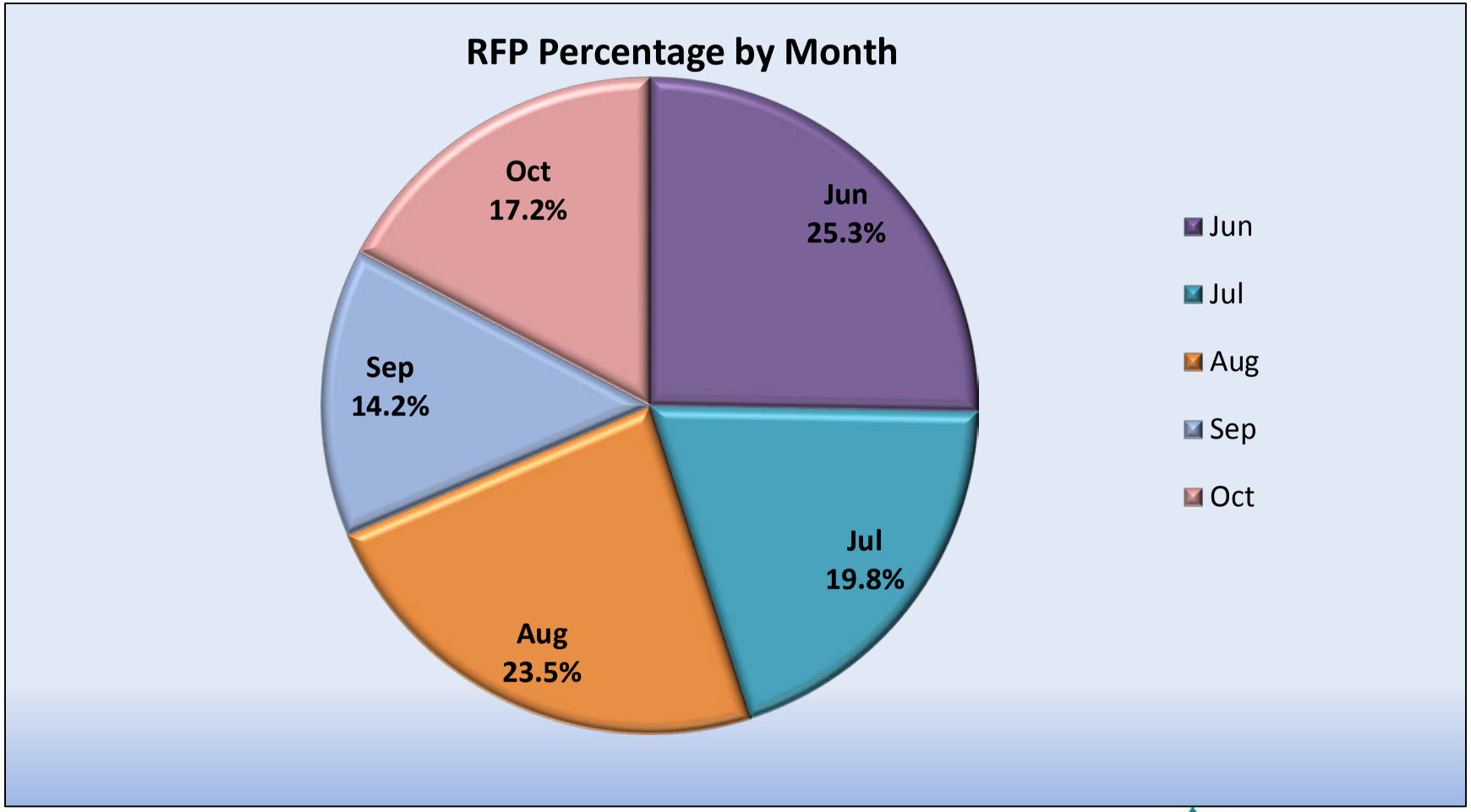

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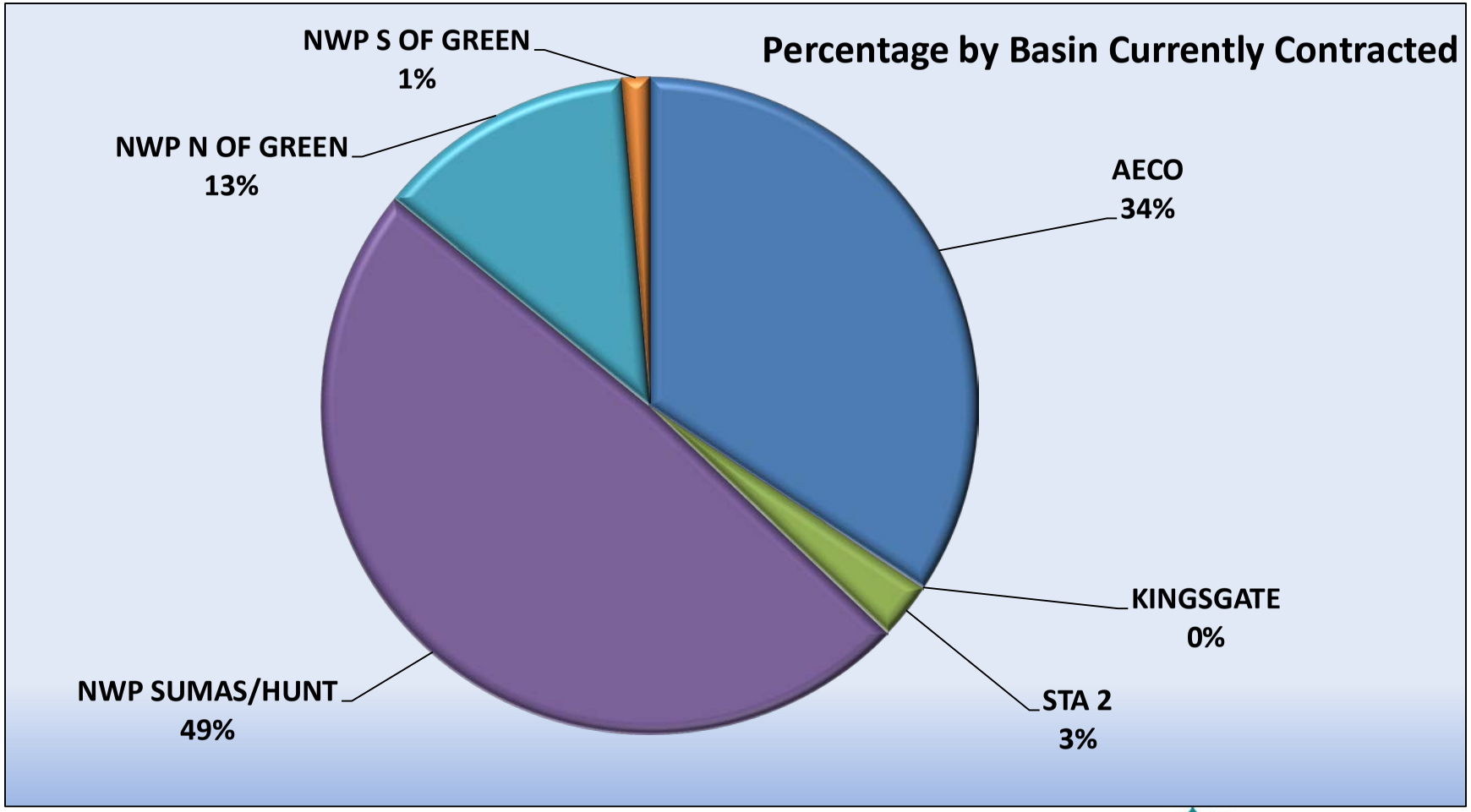

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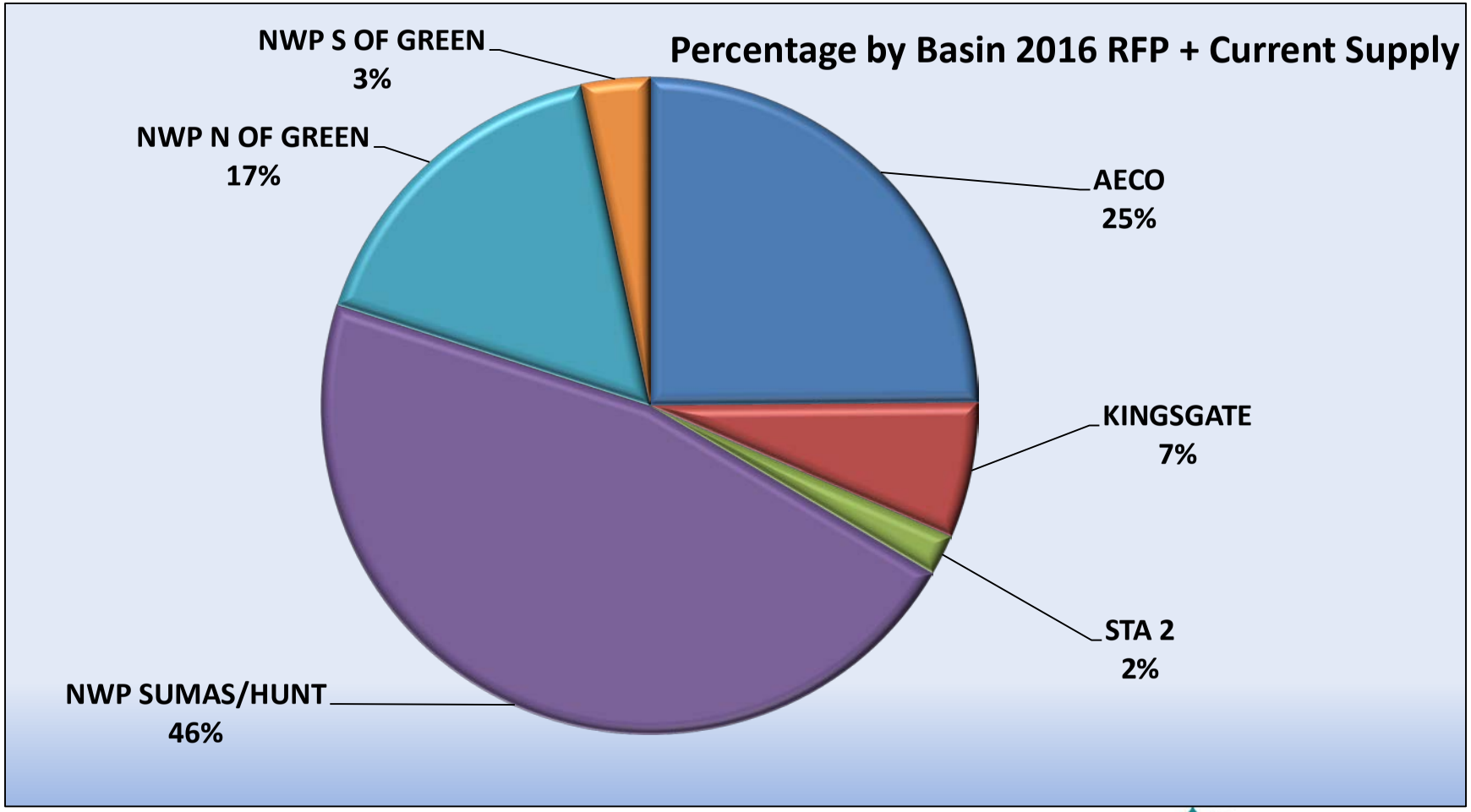

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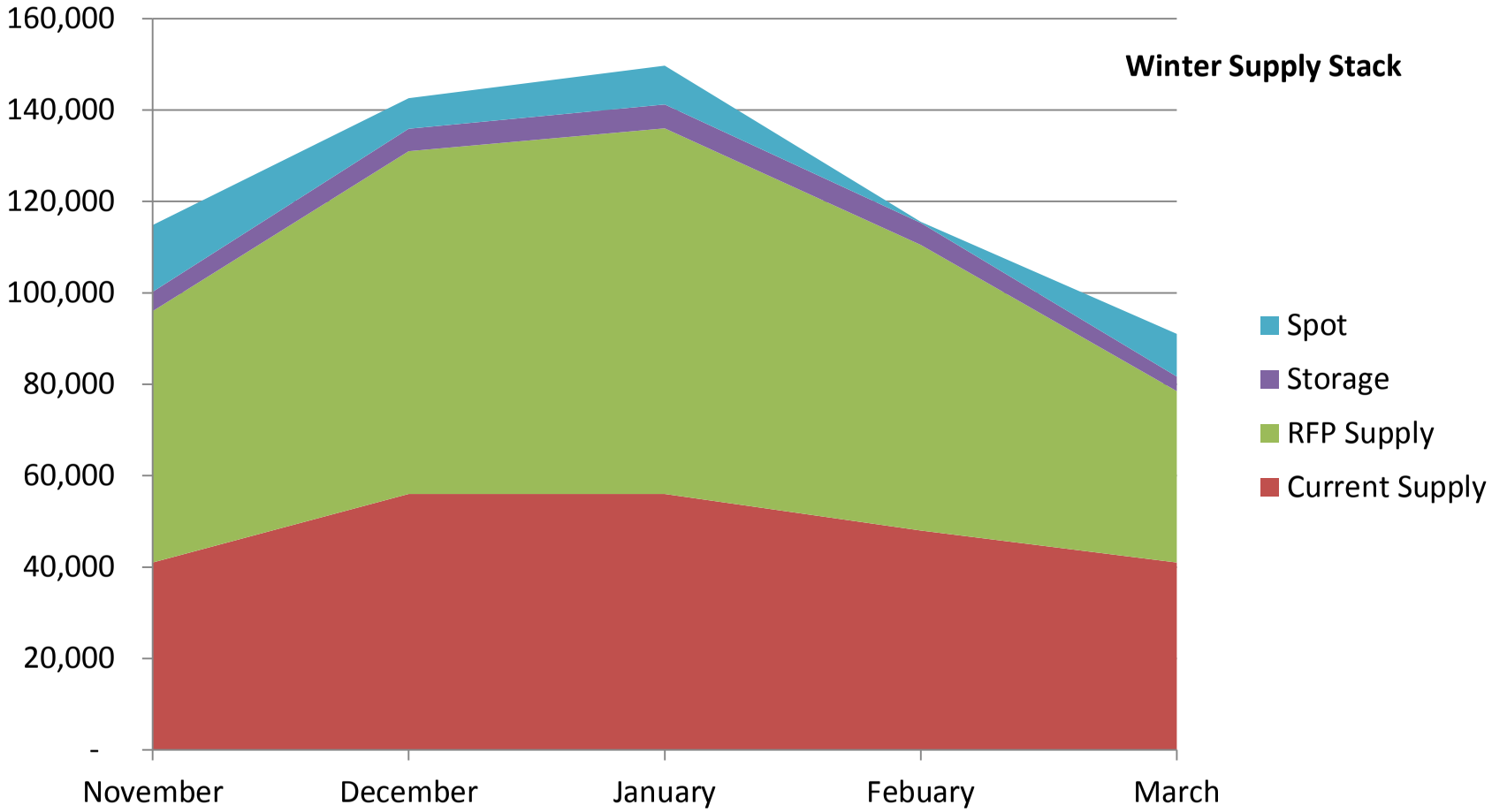
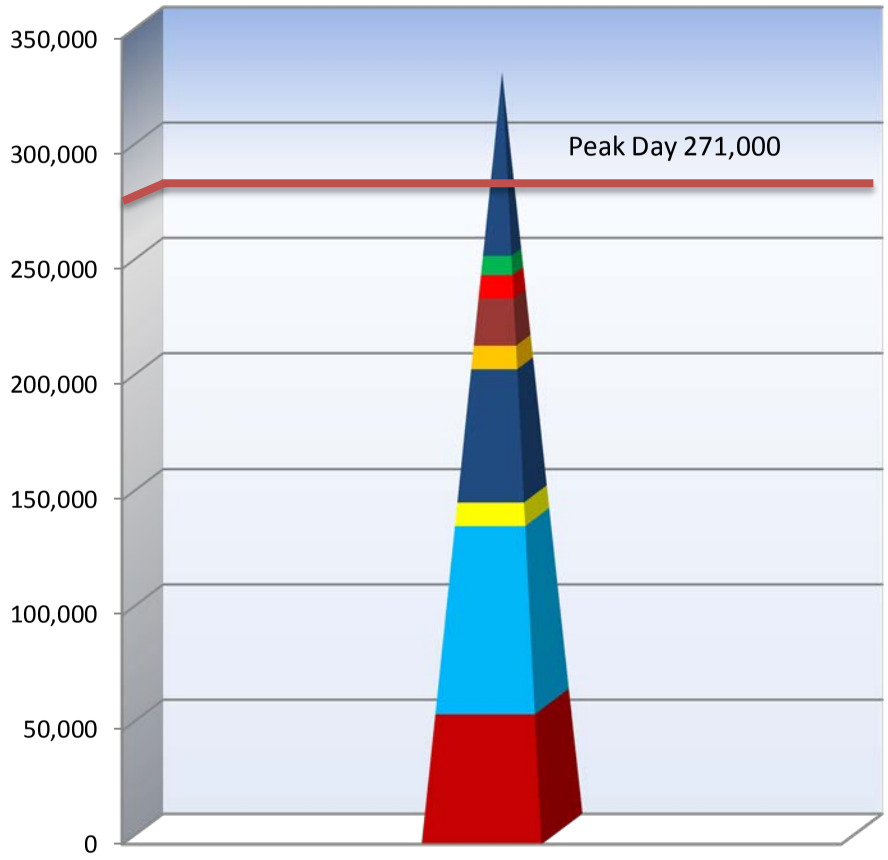

Winter Supply Stack
160,000
140,000
120,000
100,000
80,000
60,000
40,000
20,000
-
November
December
January
Febuary
March
Spot
Storage
RFP Supply
Current Supply



Peak Day Stack Example

78,125	LS Storage
8,156	Pipeline Pack
10,000	3rd Party Citygate
20,000	Peaking Deal
10,000	Daily Spot Gas
56,366	SGS Storage
10,000	FOM Spot Gas
80,000	RFP Supply
56,000	Current Supply

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Cascade Gas Supply Overview
Alternative Resources

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Proposed Natural Gas Infrastructure Projects

(source: Northwest Gas Association draft 2016 Outlook)

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Washington Expansion Project

- In response to a request for an incremental 750 million cubic feet per day (MMcf/d) of capacity, Williams Northwest Pipeline (NWP) is planning to construct the Washington Expansion Project.
- 140 miles of 36-inch diameter loop to be constructed in 10 different segments in or near NWP's existing right-of-way along the I-5 corridor between Sumas and Woodland, WA, plus additional compression at five existing compressor stations.
- In conjunction with this project, NWP is also proposing an incremental scalable expansion from Sumas to markets in the I-5 corridor as far south as Molalla, OR.
- This phase of the project is not contingent upon the aforementioned expansion and could go in service fall of 2018.
- Opportunity to potentially address any shortfalls along the I-5 corridor

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Northwest Market Access Expansion (NWP N-MAX)/Trail West (aka Palomar)

- NWP is working with NW Natural and TransCanada GTN
- In conjunction with an expansion of the existing NWP system. The project would consist of a 106-mile, 30-inch diameter pipeline that would run from GTN's mainline in central Oregon to a NW Natural/NWP hub near Molalla — enhancing delivery capacity to the I-5 Corridor.
- Project's initial design capacity is 300 MMcf/d, expandable to 750 MMcf/d. It would be linked to the N-MAX project on the NWP system to deliver gas to other markets along the I-5 corridor.
- Potential to make additional supplies available to Central Oregon
- Potential to move supplies to I-5 corridor

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Spectra T-South Expansions

- Spectra Energy continues to evaluate expansion of its T-South system to provide incremental delivery options for growing Western Canada gas supply to markets in the Pacific Northwest.
- All expansions on T-South would require pipeline looping and compression and can be brought into service between 2018-2020.
- T-South expansion options include the following from Station 2:
  - to Sumas delivering gas to the BC Lower Mainland and Northwest Markets
  - to Kingsvale delivering up to 450 MMcf/day gas to Fortis Energy's Southern Crossing system;
  - to Summit Lake delivering gas to PNG's pipeline system

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FortisBC Kingsvale–Oliver Reinforcement Project (KORP)

- Expanding Fortis Energy's existing bi-directional Southern Crossing system (connecting Spectra's T-South system at Kingsvale, BC, to TransCanada's system at Yahk, BC)
- Would facilitate access to an additional 300-400 MMcf/d of AECO priced gas supply for westbound delivery to markets in the Lower Mainland of BC and the I-5 corridor where several new large industrial projects are proposed.
- The expansion of the Southern Crossing system will require a 100-mile pipeline-looping project on the Kingsvale to Oliver, BC, segment, as well as an expansion of Spectra's T-South system from Kingsvale to Huntingdon to meet the incremental flow.

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Pacific Connector Gas Pipeline Project (PCGP)

- The Pacific Connector Gas Pipeline Project (PCGP) is a 232-mile 36-inch diameter pipeline extending from Malin to Coos Bay, OR.
- Williams and Veresen, Inc. are proposing PCGP to serve the Jordan Cove LNG export terminal, as well as potential regional markets between Malin and Coos Bay.
- PCGP includes 41,000 horsepower of compression to be installed near Malin yielding a total project design capacity of 1.06 Bcf/d.
- PCGP will provide access to supplies from Western Canada and the U.S. Rockies via interconnections with Gas Transmission Northwest and the Ruby Pipeline.
- This could be a potential source of additional supplies for the distribution system

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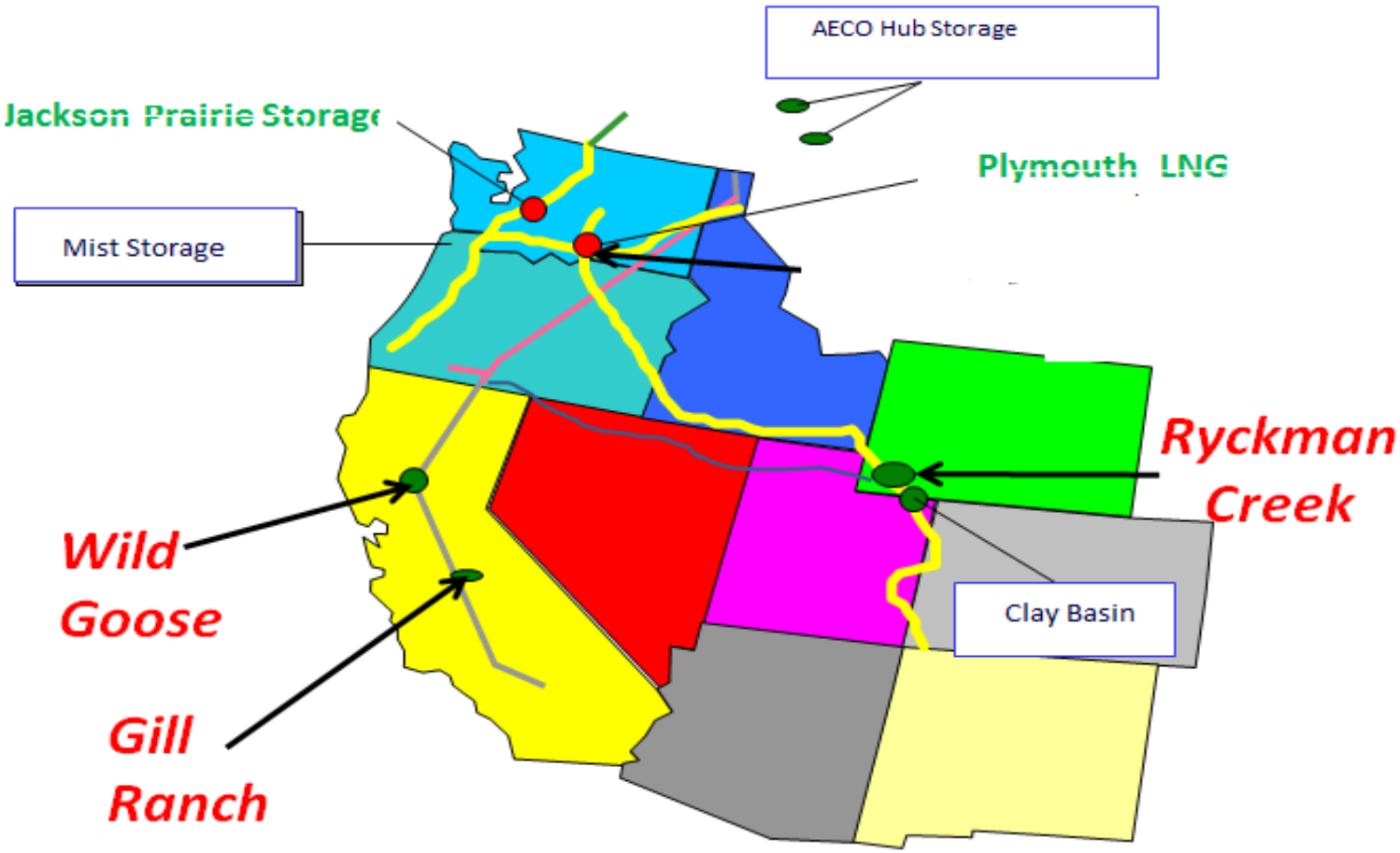
Regional Storage



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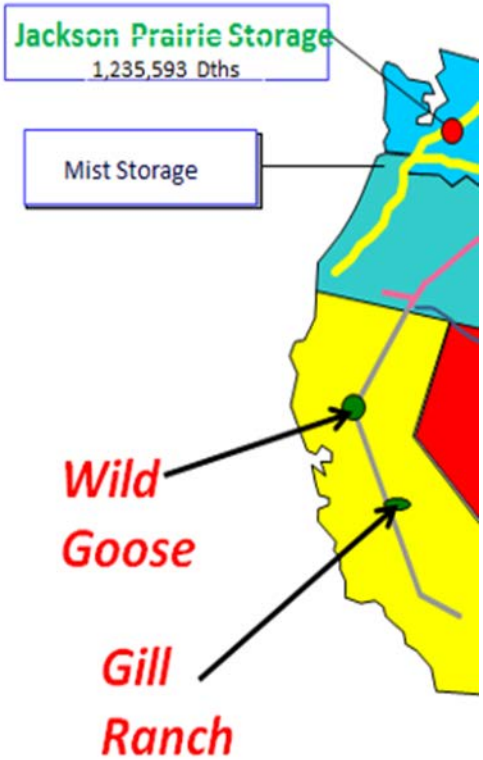
Jackson Prairie (JP)

- PSE, NWP and Avista Utilities each own an undivided one-third interest in the Jackson Prairie Gas Storage Project (Jackson Prairie), which is operated by PSE under FERC authorization
- Jackson Prairie is a potential resource for expansion opportunities. At this time, any future JP storage expansion capacity does not include transportation and therefore cannot be considered an incremental peak day resource.
- We will continue to look for exchange and transportation release opportunities that could fully utilize these additional resource options
- There are no current plans for immediate expansion of Jackson Prairie.



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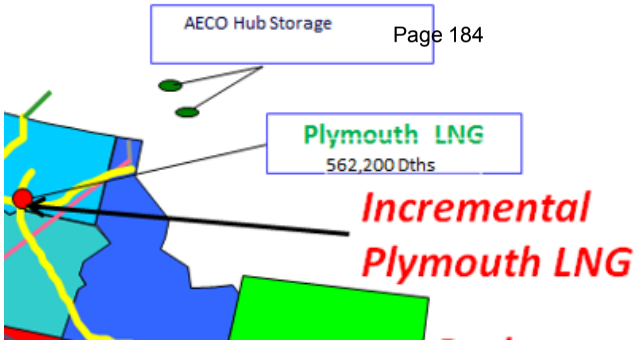
AECO Hub Storage



- The AECO Hub™, Niska's commercial natural gas storage business in Alberta, Canada, is comprised of two gas storage facilities:
  - Suffield (South-eastern Alberta)
  - Countess (South-central Alberta)
- Although the two AECO facilities are geographically separated across Alberta, the toll design of the NOVA (NGTL) system means that they are both, commercially, at the same point.
- Total gas storage and deliverability capacity of the AECO Hub™:
  - Working Gas Capacity 154 BCF
  - Peak Withdrawal Rate 3.05 BCF per day
  - Peak Injection Rate 2.75 BCF per day
- Capacity at one of the facilities are possibilities as alternative resources. Currently, there is no open season planned. However, some services are available for limited periods of time. Incremental transport involving Nova, Foothills, GTN and possibly NWP would be necessary.

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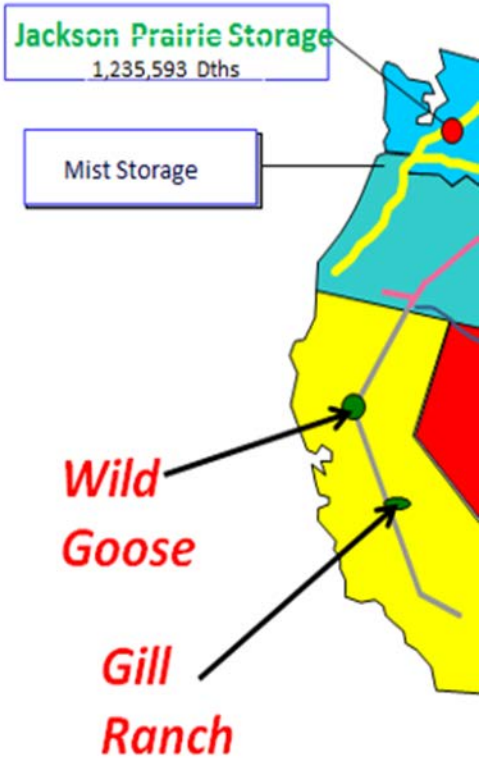
Wild Goose Storage

- Wild Goose is located north of Sacramento in northern California and was the first independent storage facility built in the state. The facility commenced full commercial operations in April 1999 and in April 2004 completed its first expansion. Customers have direct access to Pacific Gas and Electric's (PG&E) backbone system.

- Total gas storage and deliverability capacity at Wild Goose currently is as follows:

- Working Gas Capacity: 75.0 Bcf
- Peak Withdrawal Rate 950 mmcf/d
- Peak Injection Rate 525 mmcf/d
- Key Features

- Citygate pricing, liquidity, arbitrage opportunities;
- the ability to manage OFO/EFO's on the PG&E system; and
- supply reliability



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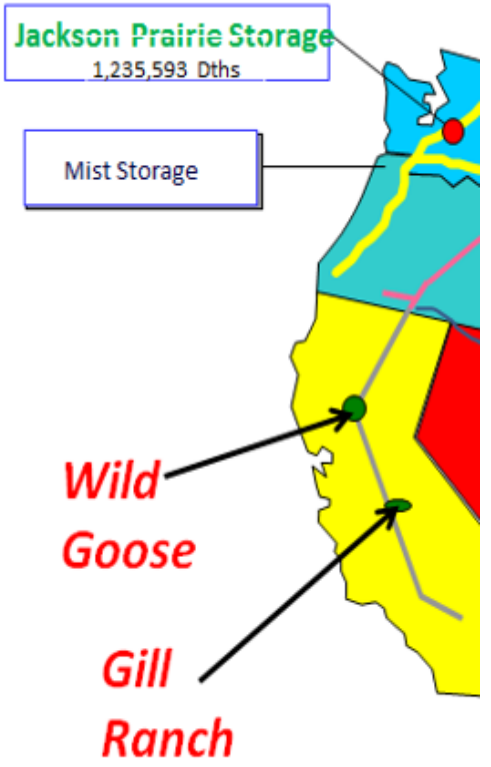
Gill Ranch Storage

- Gill Ranch Storage is an underground intra-state natural gas storage facility near Fresno, Calif. It includes a pipeline that links the facility to Pacific Gas & Electric Company's (PG&E) mainline transmission system, allowing it to serve customers throughout California.

- GRS has the capacity to ultimately provide approximately 20 billion cubic feet (Bcf) of underground natural gas storage.
- The facility is located about 25 miles west of Fresno and includes an approximately 27-mile, 30-inch pipeline, which is connected to the PG&E Line 401 north of Panoche, Calif.
- The premium storage location offers a unique opportunity to access five interconnects.
- The site was developed in a joint agreement by Gill Ranch Storage, LLC, a subsidiary of NW Natural, and PG&E.
- The site has potential for future expansion.



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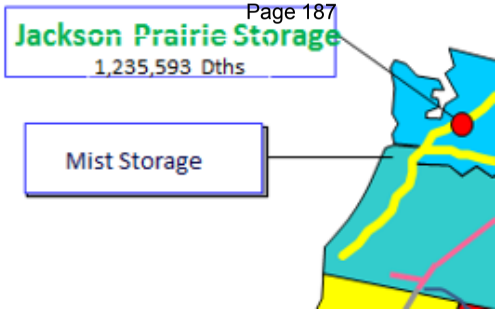
Mist



- NW Natural Gas Company, the owner and operator of the Mist underground storage facility near Portland, Ore., is investigating a potential expansion project to be completed in 2016-2017.
- We are modeling the assessing the cost-effectiveness of leasing storage capacity beginning November 2018, once Mist is built.
- This would also require expansion of NWP's interstate along the I-5 corridor and possibly across the Columbia Gorge. We may be able to acquire discounted winter only capacity from a third party from Mist to our citygates if NWP their system from Sumas to Portland (NWP I-5 expansion)

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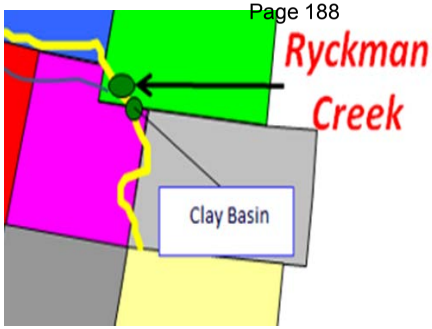
Clay Basin



- Questar Pipeline owns and operates the Clay Basin storage facility in Daggett County, Utah. This reservoir stores gas during the summer for withdrawal in the winter.
- Earlier this year Shell Energy offered to temporarily or permanently assign to CNGC their Clay Basin capacity prior to notice period.
- QPC stated they would accept a 1 year extension vs. the 3yr previously discussed, and CNGC would obtain annual renewal rights thereafter.
- Clay Basin would require incremental capacity from Overthrust Pipeline. Ruby was willing to consider allowing Cascade to re-align portions of our seasonal Ruby capacity to move gas during the heating season.
- We elected to pass on the opportunity at the time. First, we still have long-term concerns regarding Kemmerer constraints to address on NWP. Most importantly, we didn't know if we could make the case for Washington to absorb the bulk of Clay Basin's expense; OPUC would still ask why is Washington getting yet more storage when Oregon is still lacking a significant storage resource.
- We will consider Clay Basin again with the 2016 IRP.

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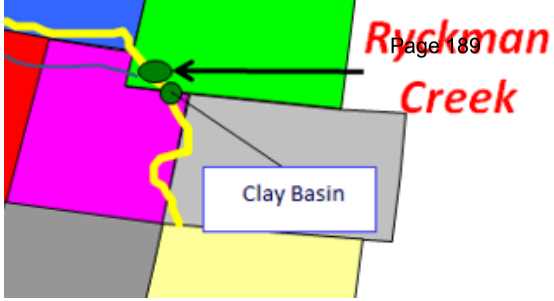
Ryckman Creek Storage



- Ryckman Creek Resources, LLC, a wholly-owned subsidiary of Peregrine Midstream Partners, LLC
- Ryckman Creek is located in Uinta County, Wyoming, near the Opal Hub.
- Ryckman Creek has converted a partially depleted oil and gas reservoir into a gas storage facility with 35 BCF of working gas and a maximum daily withdrawal rate of 480,000 Dths/d.
- Ryckman Creek Gas Storage Facility is located near the town of Evanston, Wyoming and approximately twenty-five miles southwest of the Opal Hub.
- Ryckman Creek currently has interconnects with Questar Gas Pipeline, Kern River Transmission, Questar Overthrust Pipeline, Ruby Pipeline and Northwest Pipeline.
- Previously conducted a non- binding Open Season to determine the interest of prospective customers in contracting for up to 8 BCF of firm working gas storage capacity beginning April 1, 2013.
- Ryckman still has a bit of proving to do regarding reliability since the NRU fire a few years ago; the facility is up and running. Ryckman Creek began commercial operations in August 2012. The facility currently has approximately 25 Bcf under contracts of varying lengths (longest belonging to Anadarko through March 2023). A lengthy force majeure at Ryckman was lifted in January 2016.
- Still, even with the combination of plunging gas prices, bankruptcy and a fire the facility is still open. Ryckman is currently flowing about 60-70,000 dths day to Ruby.

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Conclusions about the proposals

- Historically, our incremental storage focus has been directed at providing Oregon with a larger storage resource other than the 10% of JP/LS they currently have.
- All the alternatives except Ryckman require incremental GTN capacity.
- Ryckman storage would utilize our 15,000 dths/day of winter only capacity that would be used for both storage activities and regular nomination activities.
- The two California storage alternatives would also require California Gas Transmission capacity to Malin. The demand charge is huge - $1.68 p/dth
  - Ruby still is an option for the California storage, but due to rate stacking Ruby would be at a lower contracted level, primarily for the purposes of injecting Rockies gas and to provide supply diversity in the storage facility.
- Ryckman Creek appears to be the least expensive and most flexible option; however, Ryckman's on-going operational difficulties are a concern.
- All storage alternatives will be modeled for the 2016 IRP. Resource Planning will provide an update on modeling results at a GSOC meeting later this summer.

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Major resource issues on the horizon

- **Addition alternatives to be considered during IRP process**
  - **NWP I-5 Expansion**
  - **Realignment of MDDOs to citygates**
  - **Palomar/Cross Cascades**
  - **Pacific Connector**
  - **Incremental Nova**
  - **Incremental Foothills**
  - **Incremental GTN (north to south)**
  - **Biofuel**
  - **Satellite LNG**
  - **Mist Storage**
  - ***AECO Storage***
  - ***Wild Goose Storage***
  - ***Gill Ranch Storage***
  - ***Ryckman Creek Storage***

- Began discussions with Niska Partners to gather information to model AECO Hub Storage in the 2016 IRP. In addition, we will be considering Wild Goose, Gill Ranch, Mist and Ryckman Creek storage

- Working with GTN to develop a narrative to explain how our long path capacity can be used to meet peak day shortfalls.

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NEXT STEPS

- TAG 3 is scheduled for August 23rd and will be held at Cascade's Headquarters in Kennewick, WA.
- TAG 3 will cover Conservation, Distribution System Planning, and Planned Scenarios and Sensitivities.
- Other items Cascade has not mentioned?

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Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #2

Tuesday, July 19, 2016
Seattle-Tacoma International Airport
Conference Center

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2nd External TAG Meeting

07/17/2016 – 09:00-11:30 AM

Presenters: Mark Sellers-Vaughn & Brian Robertson

In attendance: Mark Sellers-Vaughn, Brian Robertson, Mike Parvinen, Chris Robbins, Eric Wood, Bruce Folsom – Consultant, Connor Reiten – NWGA, Deborah Reynolds – WUTC, Kathy Scanlan- WUTC

Called in: Bob Morman, Garret Senger, Laura Flanders - NWP, Chad Luginbill, Josh Romine, Tom Pardee – Avista, Monica Cowlisha, Carolyn Stone, Pam Archer, Mark Chiles, Deborah Reynolds, Ed Finklea – NWIGU, Brian Cunnington.

Minutes by: Carolyn P Stone

The meeting began with introductions to those attending in person and by phone. Bruce Folsom talked briefly about his experience with IRP's. Garret Senger thanked everyone for attending. Bob Morman reiterated that he is committed to the IRP and thanked everyone.

IRP Staffing & Support

Mark Sellers-Vaughn went over the Agenda and then began the meeting discussing new and changed staffing for the IRP as follows:

1. Brian Robertson is now a Senior Resource Analyst and will head up the IRP work.
2. One additional analyst has been hired and will start at the end of this month.
3. Another analyst will be hired soon as well.
4. The IRP staff has a new Consultant, Bruce Folsom.

Mark went over the deliverables Bruce will provide for Cascade. He explained that Bruce has already suggested areas for improvement. His input will provide transparency for stakeholders.

Bruce went over his experience and said that he believes Cascade to be 100% committed to the IRP.

Mark also mentioned that today's meeting has a lot of information contained within and if there is some confusion or further need for clarification on this material another meeting will be scheduled.

Case Demand Study

Brian Robertson then went over his Demand Forecast, starting with Slide #7. Brian explains the overview shows the changes from the old forecast model to the new. He emphasized the model is flexible as many inputs can be modified.

Question: How big is Non-core load?
Answer: Mark said Non-core has the largest load but we only supply distribution services to Non-core customers, not transport.

Question: Would CNG provide more descriptive labels in the last 3 columns, referencing Slide 16?
Answer: YES

Brian explained the use and calculation of Heating Degree Day (HDD) on Slide #17. On Slide 18 & 19 you can see what the difference is in using a 60 degree HDD vs. a 65 degree HDD. Demand is flat using 65, but increases using 60.

Question: Is that true with all scenarios? Did you calculate using each CityGate?
Answer: Brian explained that each CityGate has different temperatures so it would be possible to test this using Citygate but "tricky".

Question: Does your weather data show that cold or warm weather "trends" at the beginning or end of the years used?
Answer: I do not know, but I can say that for year 2015 warmer temperatures are more recent. We can look this up for you.
****Staff would like that sent to them***.

Brian then went over the Growth Data. This data is obtained from Woods & Poole's (W&P) State Profiles

Question: Is this data used for just CORE or all customers?
Answer: Just Core customers. Mark mentioned that the average data is over a 3-5 year time period and that there must be care in how this information is applied to certain locations.

Question: How do the W&P numbers compare with the State Economist Report? This analysis will likely be needed.
Answer: We have not done this analysis yet.

Brian then went over the Commercial and Industrial Growth formulas and definitions used by W&P. He stated that the final Demand forecast is done by year, month, rate schedule and CityGate.

Brian explained that the HDD weighting is applied to CityGates to determine which day produced the coldest day in 30 years (1986-2015). This ensures Cascade can plan for that coldest day. The coldest day was Dec 21, 1990.

Question: What was the coldest day reported in the last IRP?
Answer: The same date. Although this coldest day hasn't happened in recent years it is still applied to the forecast.

Question by CNG: Do you want us to prepare a forecast using the 2014, unacknowledged IRP or a narrative comparing 2014's IRP to 2016's?
Answer: I don't know, I will ask the commissioners and get back to you.

Question by CNG: Mark asked if CNG should show the rate schedules for each of the regions?
Answer: Staff said yes, at some point.

Question: Staff asked if it is more useful to have these graphs to show residential vs commercial or number of therms?
Answer: Mark said it depends on the CityGate.

Cascade Gas Supply Overview – Current Resources
Eric Wood discussed current resources, transport, and supply.

The next Slide #88 shows our NWP (Northwest Pipeline) Transport by transport contract. This slide is a little hard to see but Eric notes that some contracts drop off during the summer months.

Question: GTN has a TF-2 rate schedule?
Answer: TF-2 is essentially storage but treated as "firm". TF-1 is considered "firm". Laura Flanders from NWP, on the on phone agrees this is correct. Mark stated that historically TF-2 came out of JP (Jackson Prairie storage facility) but 2 years ago that changed and Plymouth became available. We can now access Plymouth 100% on a Peak Day!

Eric showed the "Transport Summary" graph Slide #91 & the Impact of Constraints, OFO's and Entitlements explanation Slide, #92. He explains that the OFO's and Entitlements are "tools" NWP uses to get customer behavior to change.

Question: What does "drafting" mean?
Answer: That is when the gas that is being delivered is less than that being used. This means we "owe" the pipeline more gas.

Question: What is an "OFO"?
Answer: That is an "Operational Flow Order". Eric gives an example of a Kemmerer OFO. There can be a constraining in this area and not enough gas can get through to satisfy NWP customers. In this case NWP wants shippers to modify their behavior to redirect supply. NWP can call individual shippers.

Eric then discussed Gas Supply's Asset Management Agreement (AMA) with Tenaska Marketing Ventures (TMV). TMV provides scheduling services, isolates CNG from cuts and pipeline operational issues, and assumes risk that CNG cannot tolerate, Slide #93.

Eric then discussed the portfolio that was agreed upon by the Gas Supply Oversight Committee (GSOC).

Mark clarified that the GSOC consisting of senior management (Regulatory, Gas Supply, Finance & Operations executives) approves the Portfolio and reviews our Risk Management policy and our Hedging Policy.

On Slide #100 it shows RFP Percentage by Month, and Slide #101 by Basin. Sumas/Hunt is the highest.

Question: Are these "actual" purchases?
Answer: These are planned purchases. Some have already been purchased but not all.

Mark mentioned that CNG has 25 signed NAESB's and Comet automatically sends out RFP's to all of our suppliers (who are signed up with Comet) at the same time. Comet provides liquidity and transparency.

Mark discussed the "Hedging Strategy". CNG has been contributing to a docket regarding our Hedging Strategies for LDC's and the possibility of Financial Hedges. CNG is waiting to see what the other LDC's have done. We are working with Staff and other stakeholders on this matter!

Cascade Gas Supply Overview Alternative Resources

Mark started this presentation by mentioning that in the previous IRP there were indications of shortfalls in Oregon and parts of Washington. He will talk more about this in Tag meeting #4.

Mark then discusses potential storage solutions. Choices include Mist, AECO Hub, Clay Basin, Wild Goose, Ryckman Creek & Gill Ranch.

*Ryckman Creek - is near OPAL in Wyoming. This would be an ideal location for us but it has a reliability concerns.
*Wild Goose - has a high demand cost at .41 per Dth! Customers have access to PG&E system.
*Gill Ranch - charges $1.16 for transportation, located in California. This site has potential
*Mist storage may not be available now. This is owned by Northwest Natural. It is a long way to get storage!
*Jackson Prairie – is a potential resource for expansion but doesn't include transportation so can't be used as a peak day resource. There are no plans to model JP as an alternative resource at this time.
AECO Hub – Possible alternative.
Clay Basin – Not a good fit for our system at this time due to possible constraints and financial concerns.

All of the above mentioned storage resources except Ryckman Creek require incremental GTN capacity!

Mark then showed Slide #121, Major Resource Issues on the horizon…

Question: Mike Parvinen asked if these are resources in which someone else would be the "driver"?
Answer: Mark said we wouldn't "drive", we would "zig zag"! We would use the one which fits into our optimum Portfolio.

Mark explained that the ultimate decision will be made by the GSOC including analysis. The IRP is a "**tool**" not the end result!

Question: There are a lot of stakeholders here today, but some are missing. How can we make sure everyone sees this presentation?
Answer: Mark reassures that everyone gets the material and can make comments and states that CNG will be happy to come to your shop for a day and explain everything but reminds that Stakeholders have some responsibility to look at the materials and provide input!

Deborah asked if there will be minutes. She also said perhaps Mark could state who is "expected" to attend. She mentioned that it might be worth a call to Public Council.

Next Steps (Slide #122)

1. TAG #3 is on August 23rd, all day at the Kennewick GO
2. TAG #3 covers conservation, distribution system planning, planned scenarios & sensitivities
3. Other items??

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #3

Tuesday, August 23, 2016

Cascade HQ – Kennewick, WA

AGENDA

- Safety and housekeeping items
- Introductions
- Demand Side Management
- IRP Carbon Assumptions
- Market Outlook and Long Range Price Forecast
- Price Elasticity
- Scenarios, Sensitivities Planned
- Avoided Costs Methodology
- 2016 IRP Timeline
- Adjournment

DEMAND SIDE MANAGEMENT

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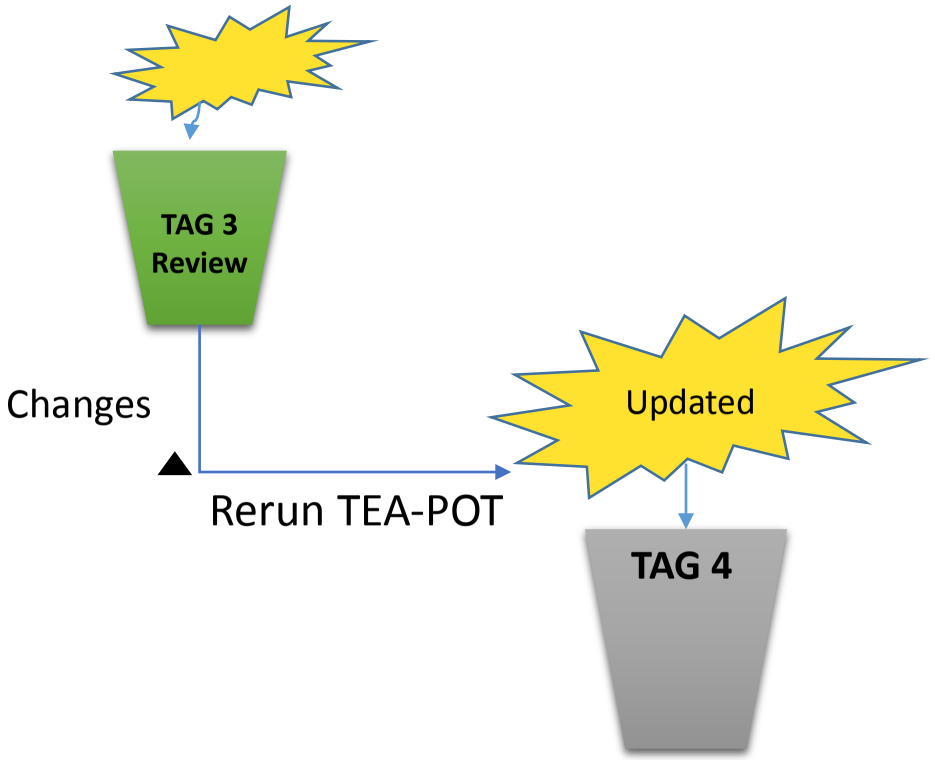
Purpose [of re-Running TEA-Pot]

Cascade Natural Gas uses Nexant Inc.'s in house developed Microsoft Excel-based modeling tool – TEA-POT (Technical/Economic/Achievable Potential) to run multiple scenarios to establish our market potential savings based on variable inputs within our Washington Service territory.

TEA-POT was rerun with updated inputs for the Demand Side Management Chapter of Cascade's 2016 Integrated Resource Plan. For the first time, it was run at the climate zone level of granularity, with separate unique inputs for each of the three geographic service territories.

This run represents proposed revisions to the Conservation Incentive Program tariffs discussed with our Conservation Advisory Group which will be submitted to the WUTC in September.

Key Inputs



- Long term discount rate updated to 3.52% from 4.17%, derived from the average U.S. 30 year mortgage.
- Inflation rate – decreased from 2% to 1%.
- Updated transmission loss rate of 0.1348%.
- Revised Administrative Budget forecast -Residential $550k based on transition to in-house rebate processing. Commercial/Industrial expected total investment increased to $900k for additional outreach efforts.
- New proportional measure category cost distribution.
- Updated Load Profile
- New Demand Forecast & Avoided Costs* by Climate Zone.

*NOTE – Avoided Costs differ from July and may be updated one last time in September.

NEW SCENARIOS

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Scenarios

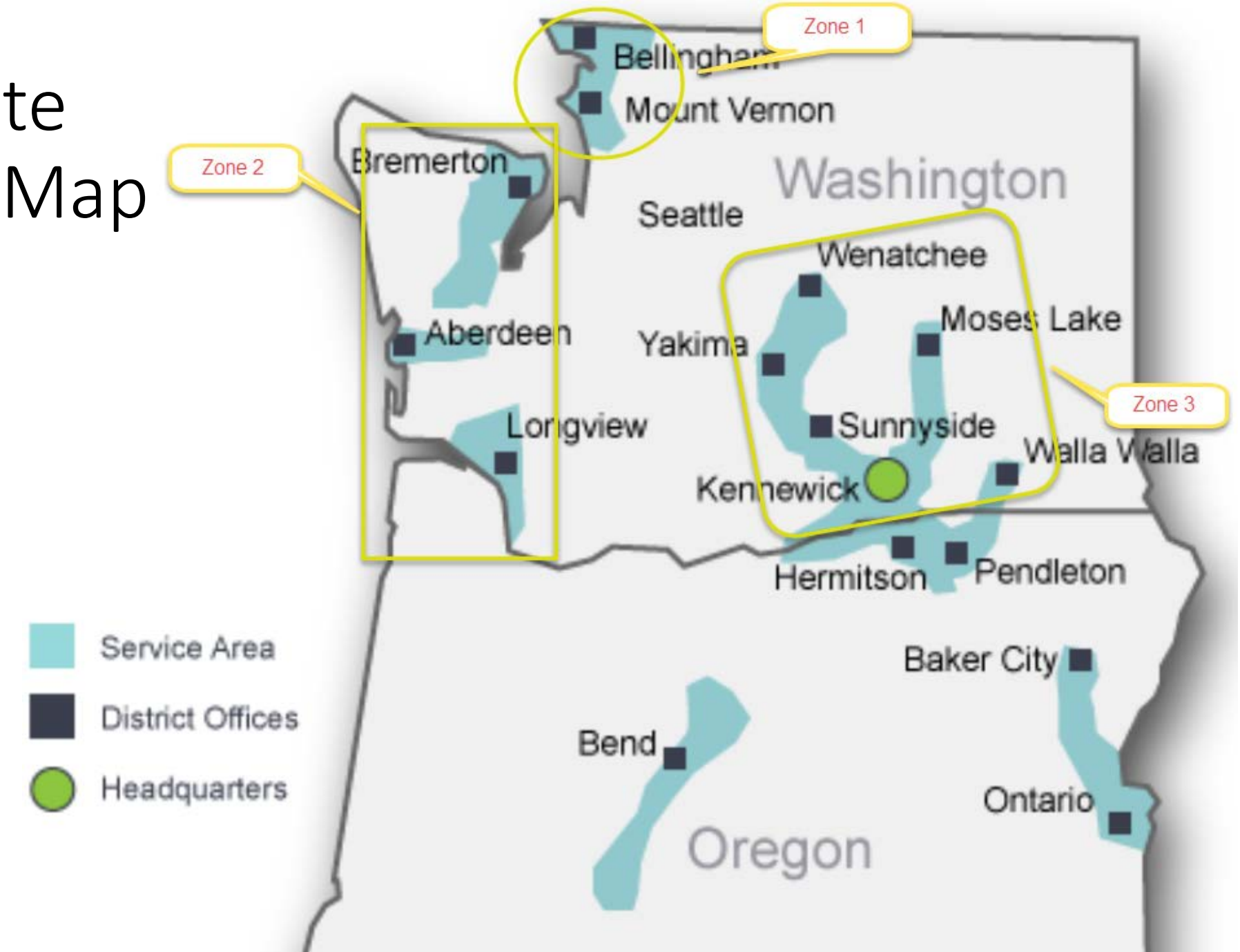
Residential

- Uses measures offered under the new proposed tariff
- A mix of 30 and 50 percent of incremental costs for the incentive level, dependent upon the measure's cost-effectiveness – as per consultation with the CAG.

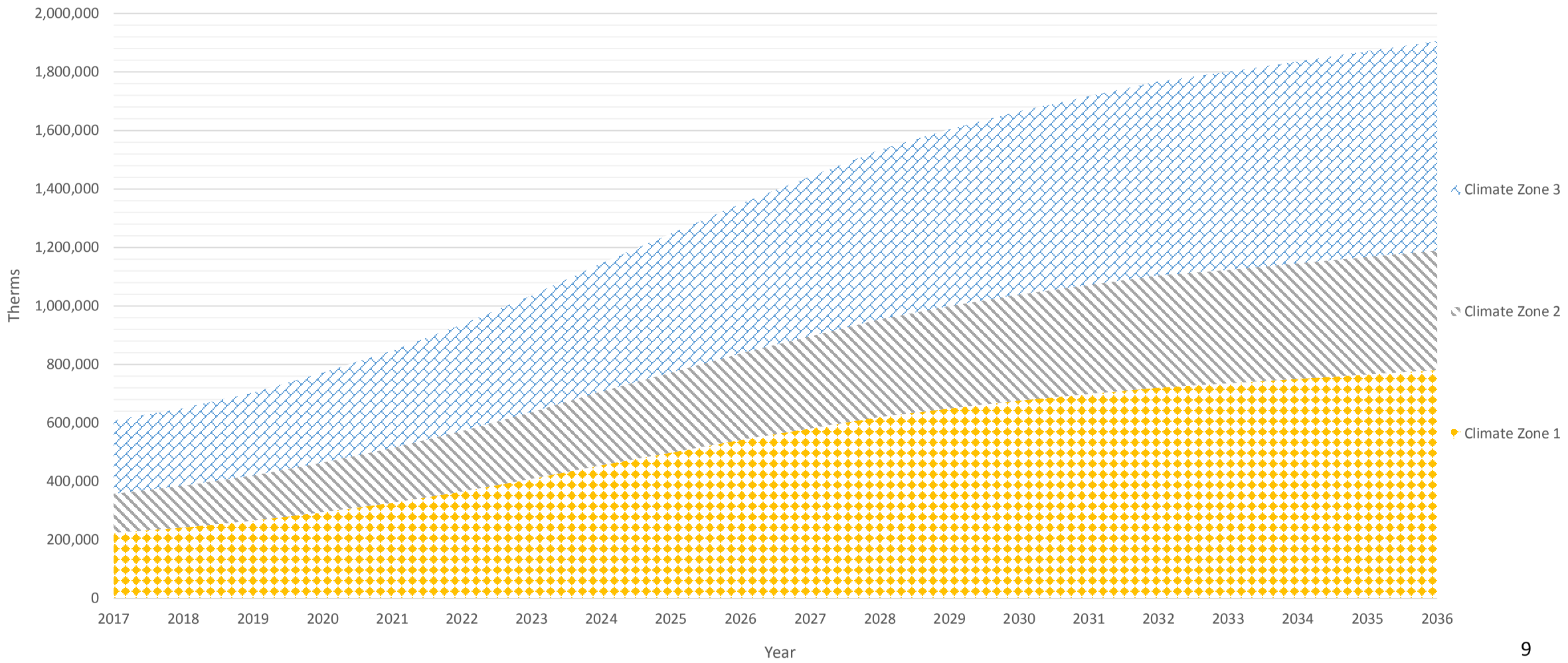
Commercial & Industrial

- Includes ALL measures from the Nexant Potential Study to reflect both Custom and Prescriptive program offerings
- A mix of 30 & 50 percent incentive levels based on each measure's cost-effectiveness

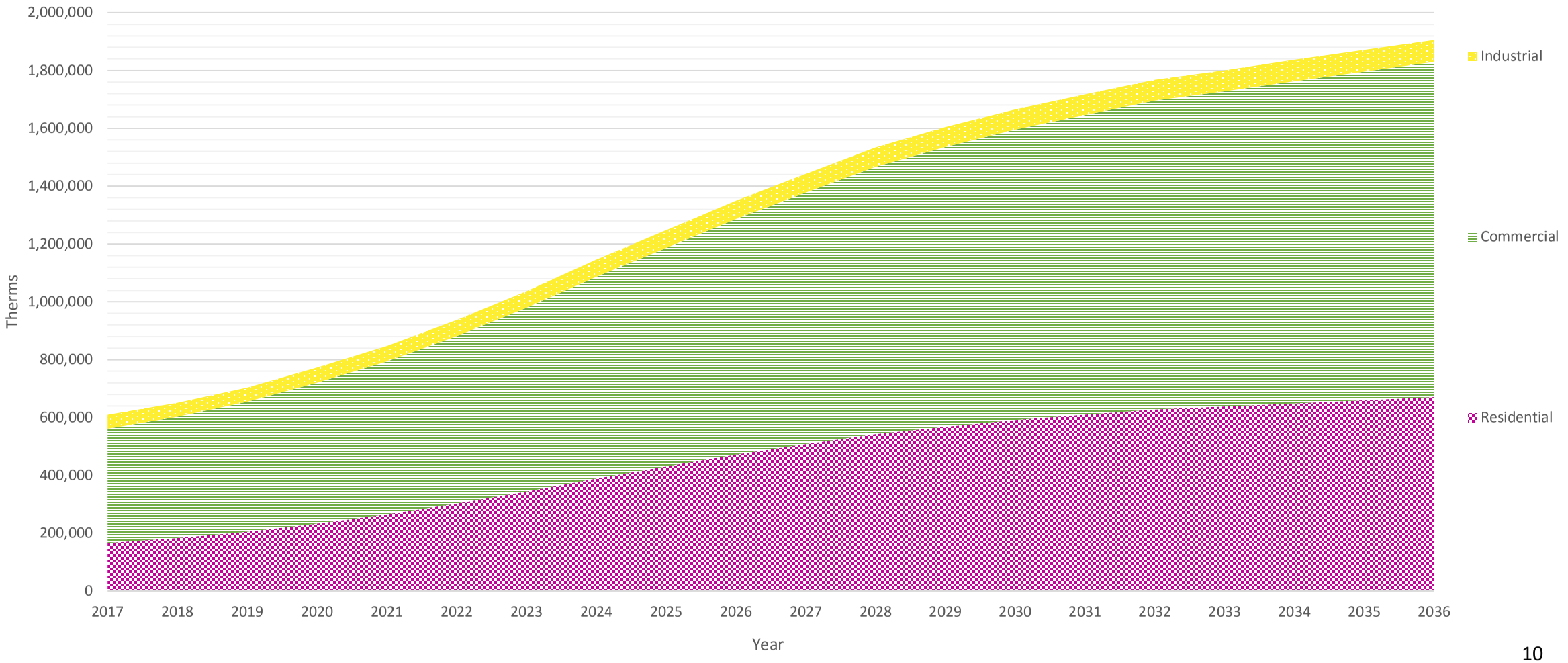
Climate Zone Map



Full Portfolio by Climate Zone



Full Portfolio by Customer Class



REGIONAL AWARENESS

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Areas of interest

- Clean Air Rule
- NEEA Regional Market Transformation Collaboration
  - Building Stock Studies
- GUEP (Georgetown Utility Energy Prize) & other community involvement

DSM IN THE IRP

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Noteworthy Changes

- The DSM Chapter will be an Executive Summary in accordance with the commitment made to transition towards a separate Conservation Plan provided each December where the majority of the energy-efficiency planning process will take place
- The majority of the Low Income program elements have been pulled out of the IRP to be addressed in the annual Conservation Plan per the July Conservation Advisory Group meeting
- Smoother assimilation into the other IRP chapters will be reflected by moving from statewide conservation forecasts to a climate zone granularity. Focus will also be placed on how the Company incorporates the goals into its resource allocations and how the Company has the pieces in place to make sure its achievement potential is reached, including insights into items needing to be accomplished in the future10 year range to meet its goals
- The DSM Chapter will discuss the Company's motivation (through policy, commission directive, etc.), what has been accomplished, and how the Company is going to move forward including what the Company will do differently to accomplish our goals in the near future
- Contains information pertaining to the Company's study needs, Company's regional collaborative efforts and the long-term benefits to its service territory in relation to those efforts

Residential Scenarios

- Uses measures offered under the new proposed tariff
- A mix of 30 and 50 percent of incremental costs for the incentive level, dependent upon the measure's cost-effectiveness – as per consultation with the CAG.

Residential Measures' Incentive Levels

30% of Incremental Costs

- Tankless Hot Water Heater
- All Non Equipment Measures:
  - Insulation
  - Air Sealing
  - Built Green®
  - ENERGY STAR®
  - Entry Door
  - ESKs

50% of Incremental Costs

- Water Heater 0.67 EF
- Combination Hydronic Space & Water Heat
- Furnace, 95 percent AFUE
- Hearths

Commercial & Industrial Scenario

- Includes ALL measures from the Nexant Potential Study to reflect both Custom and Prescriptive program offerings
- A mix of 30 & 50 percent incentive levels based on each measure's cost-effectiveness

Commercial: Equipment Measures

30% Incentive Level

- Combination Boiler and Hot Water Heater
- Combination Oven
- Conveyor Oven
- Direct Fired Radiant Heater
- High Efficiency Condensing Boiler
- High Efficiency Condensing Unit Heater 92% AFUE
- High Efficiency Non-Condensing Unit Heater
- High Efficiency Tank Condensing Water Heater
- High Efficiency Tankless Water Heater
- High Efficiency Water Heater
- Solar Hot Water Heater
- Heat Pump Water Heater
- Natural Gas Heat Pump

50% Incentive Level

- ENERGY STAR
- Convection Oven
- ENERGY STAR Fryer
- ENERGY STAR Griddle
- High Efficiency Condensing Furnace
- High efficiency steam cooker

Commercial: NON-Equipment Measures

30% Incentive Level

- Boiler Power Burner
- Boiler Repair/Maintenance
- Boiler Stack Economizer
- Boiler Steam Trap
- Boiler vent damper
- Boiler Waste Water Heat Exchanger
- Duct Sealing and Insulation
- Faucet Aerator
- Floor Insulation
- Heat Recovery
- Hot Water Temperature Reset
- HVAC Controls
- HVAC System Commissioning
- Low Flow Showerhead
- Low-flow Pre-Rinse Spray Valve
- Low-temp Door-Type ENERGY STAR Dishwasher
- Ozone injection laundry systems
- Pool Cover
- Pool Spa Solar Heat
- Refrigeration system superheat recovery DHW
- Roof insulation (retrofit only)R-45
- Solar Wall
- Steam System Efficiency Improvements
- Variable Volume Air System
- Wall insulation - Tier 2: Min R-19
- Windows - Non-Tinted AL Code to Class 36
- Windows - Non-Tinted AL Code to Class 45
- Windows - Tinted AL Code to Class 36
- Windows - Tinted AL Code to Class 45
- Ventilation Hood / Makeup Air

50% Incentive Level

- Boiler Pipe Insulation
- Demand Controlled Ventilation
- Drainwater Heat Recovery
- High Efficiency Commercial Gas Clothes Washer
- Hot Water Pipe Insulation
- Hot Water Temperature Setback
- Motion Faucet Controls
- Multi-tank Conveyor ENERGY STAR Dishwasher
- Recirculation Controls
- Roof insulation (retrofit only) R-30
- Wall insulation (Retrofit Only) R-11
- Windows - Add Argon to Vinyl Lowe
- Windows - Add Low E and Argon to Vinyl Tint
- Windows - Add Low E to Vinyl Tint
- Windows - Non-Tinted AL Code to Class 40

Industrial Measures

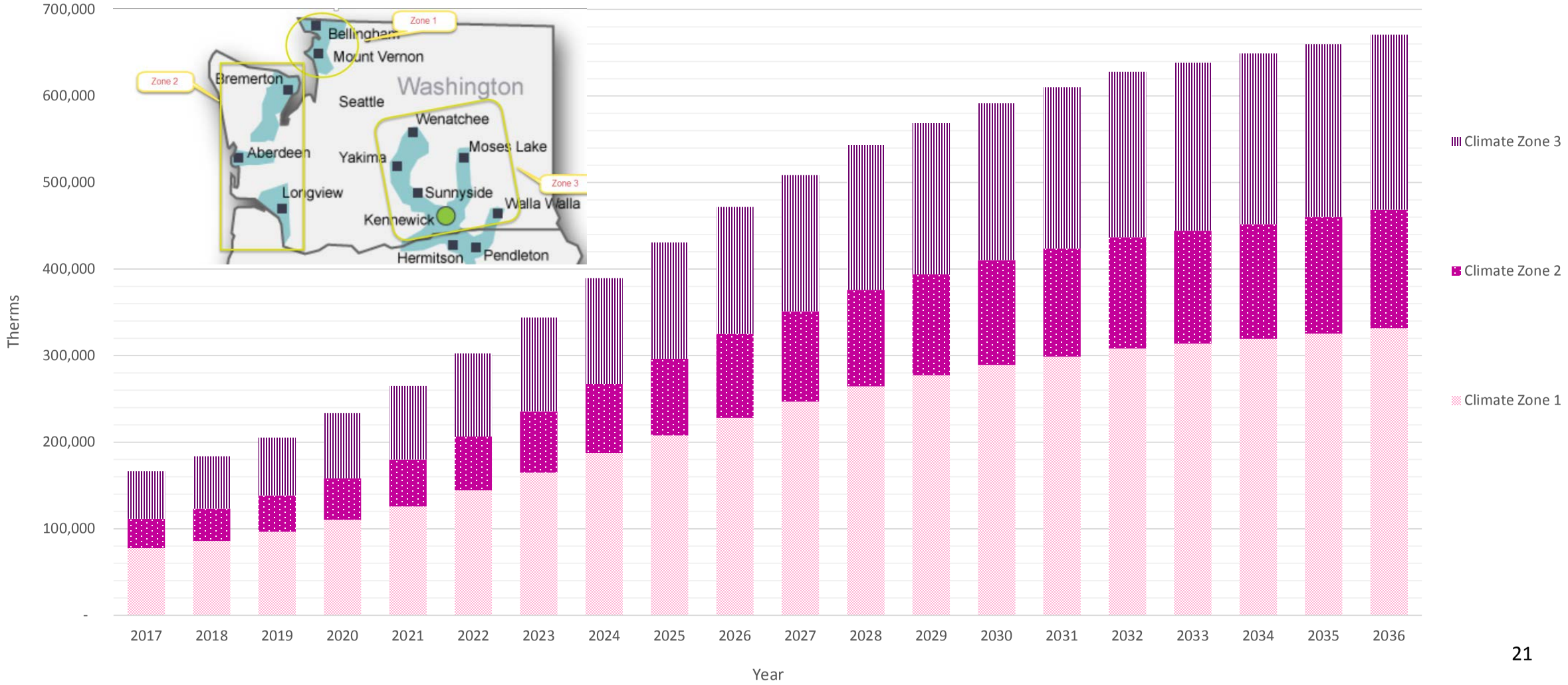
50% Incentive Level

- Direct Fired Radiant Heater
- Demand Controlled Ventilation
- Improved Process Heating Controls
- Optimized Furnace Operations/Improved O&M
- Windows - Add Argon to Vinyl Lowe
- Windows - Add Low E and Argon to Vinyl Tint
- Windows - Add Low E to Vinyl Tint

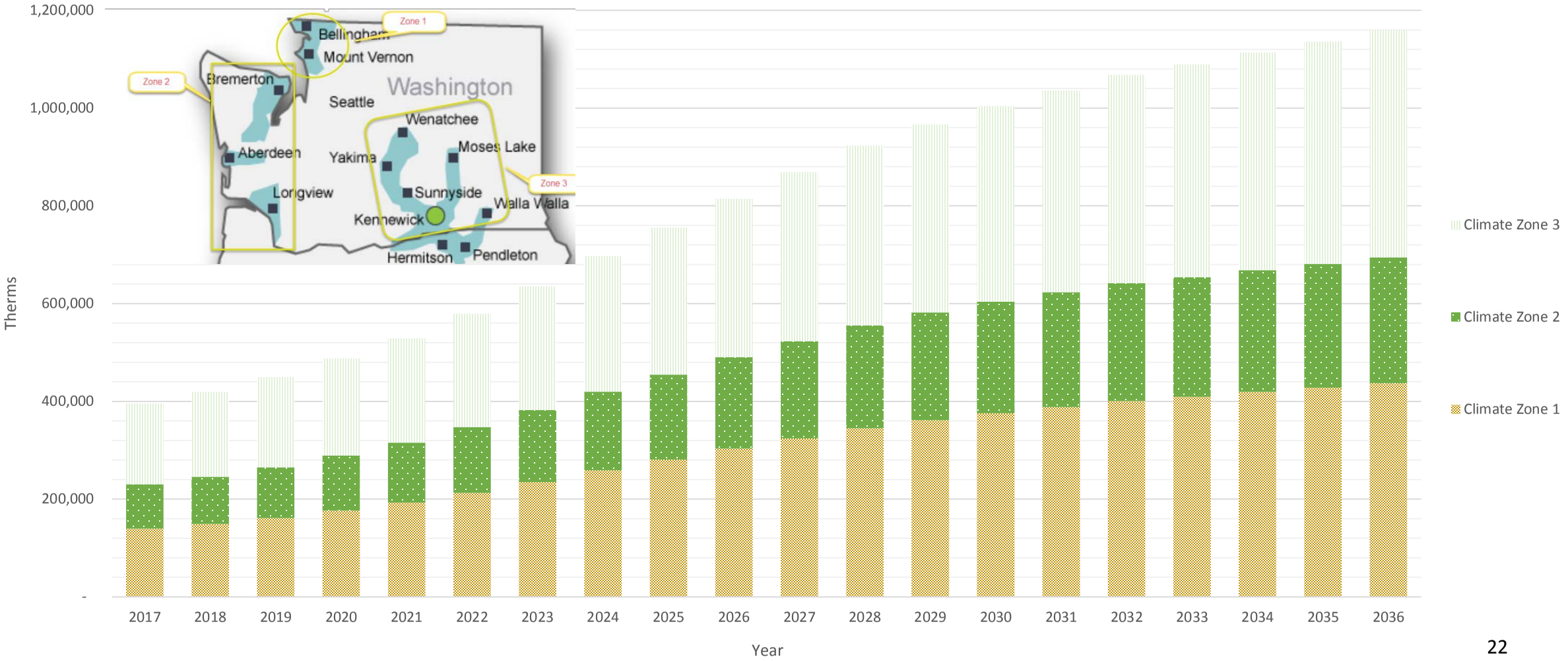
30% Incentive Level

- Condensing Boiler
- Condensing Unit Heater 92% AFUE
- Non-Condensing Unit Heater
- Process Heating: HE Furnace
- HE Condensing Furnace
- Boiler Power Burner
- Boiler Repair/Maintenance
- Boiler Stack Economizer
- Boiler Steam Trap
- Boiler vent damper
- Duct Sealing and Insulation
- HVAC Controls
- HVAC System Commissioning
- Refrigeration system superheat recovery
- Roof insulation (retrofit only) R-30
- Roof insulation (retrofit only) R-45
- Space Heating O&M
- Steam System Eff. Improvements
- Wall insulation (retrofit only)R-11
- Wall insulation (retrofit only)R-19
- Waste Water Heat Exchanger
- Windows - Non-Tinted AL Code to Class 36
- Windows - Non-Tinted AL Code to Class 40
- Windows - Non-Tinted AL Code to Class 45
- Windows -Tinted AL Code to Class 36
- Windows -Tinted AL Code to Class 45

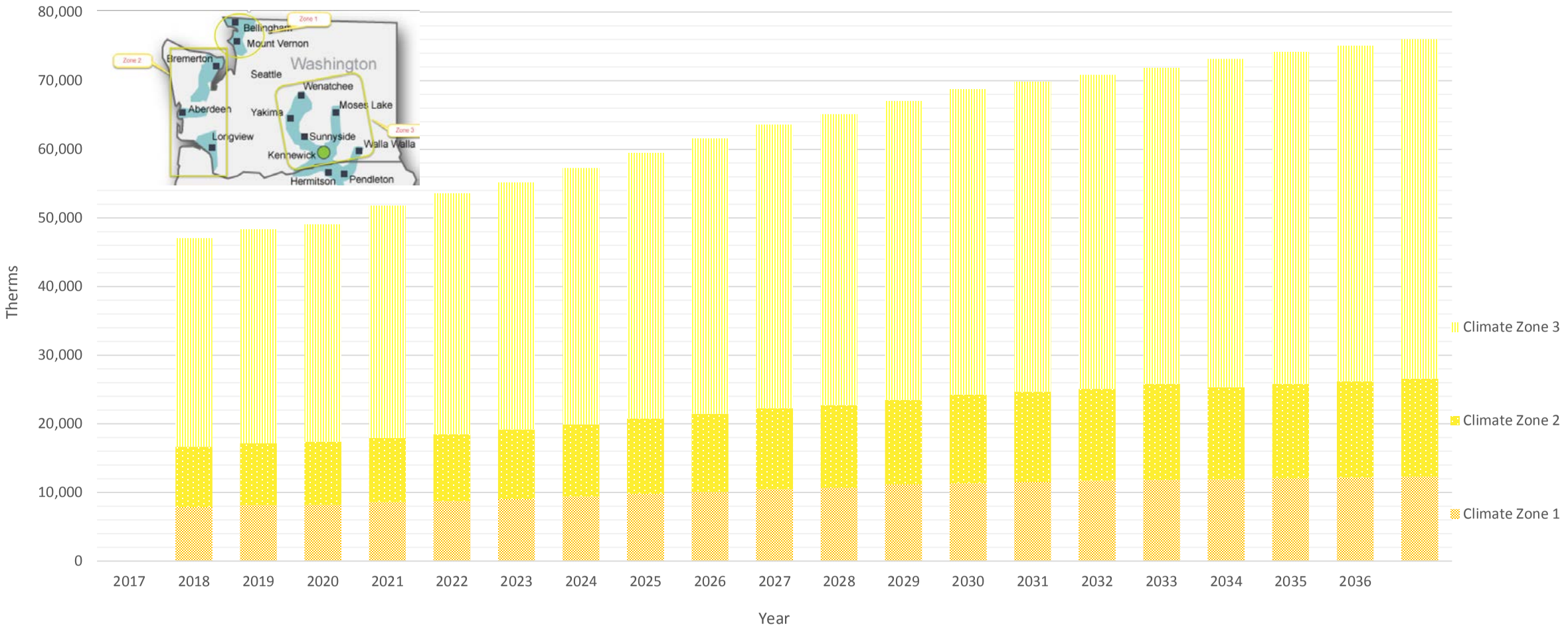
Residential Conservation Forecast Potential



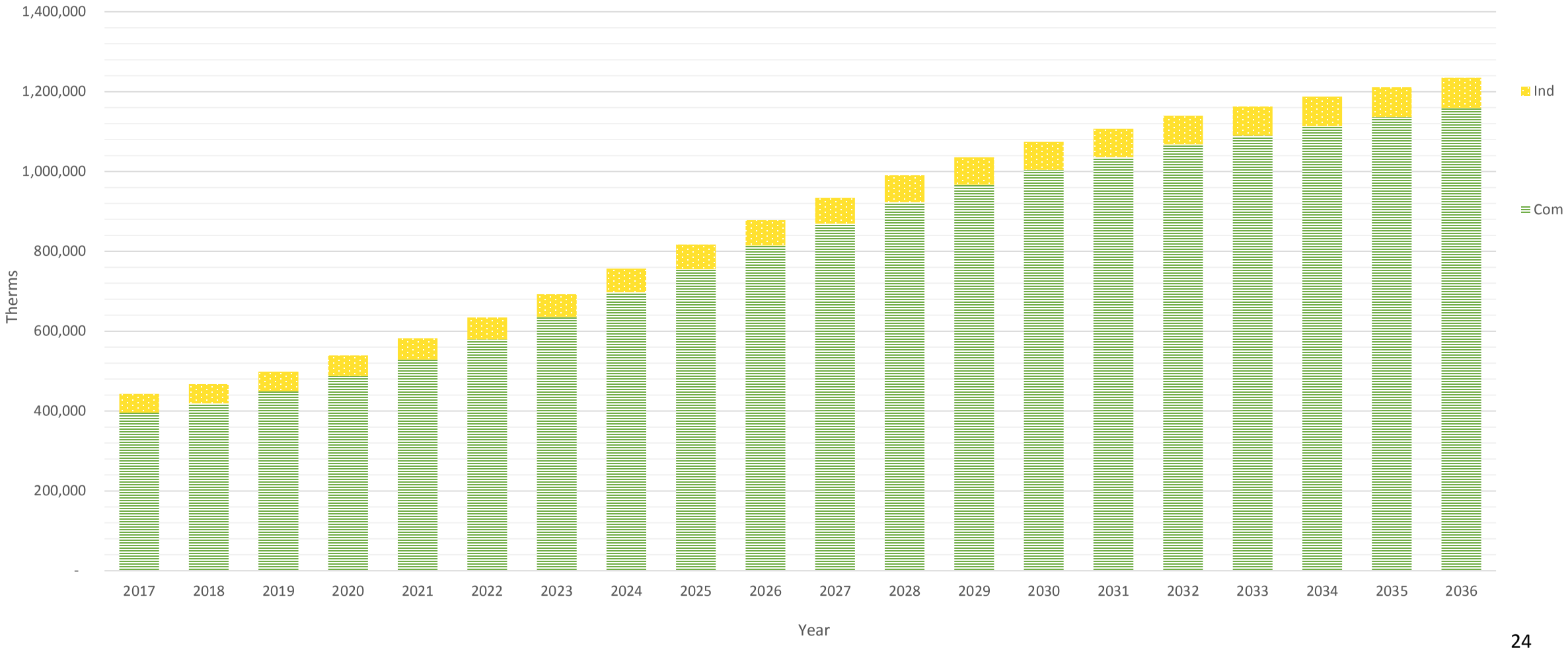
Commercial Conservation Forecast Potential



Industrial Conservation Forecast Potential



Commercial/Industrial combined Savings Potential Forecast



Climate Zone 1: Bellingham & Mt Vernon

Climate Zone 2: Bremerton, Aberdeen & Longview

Climate Zone 3: Kennewick, Walla Walla, Wenatchee, & Yakima

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IRP CARBON ASSUMPTIONS

MARK SELLERS-VAUGHN AND BRUCE FOLSOM

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Topics to Cover Today

- Purpose
- Laying the Foundation
- The National Focus
- The Regional Focus
- Washington
- Oregon
- Types of CO2 Adder Analyses
- Fugitive Methane Emissions
- Washington and Oregon Commission-Jurisdictional Planning Treatment
- Sensitivities and Impacts on Prices
- Proposed Direction
- Next Steps and Conclusion

Purpose

- To support policies that cost-effectively achieve state and federal carbon emission reduction policies and regulations

- To determine carbon methodology and assumptions for calculating inputs towards a 20 year avoided cost of natural gas, with associated two-year action items

Laying the Foundation

- Carbon dioxide is the primary source of greenhouse gas emissions (GHG)

- The US Environmental Protection Agency (EPA) released its final Clean Power Plan (August 2015) rule with required CO2 reductions by state, primarily directed towards electric generation

- Electricity production fueled by natural gas produces significantly less CO2 emissions than coal plants; fugitive methane emissions from natural gas production wells, pipelines, storage, and distribution is a contributor to GHG but involves considerable uncertainty

- CO2 cost-adders are to be applied to avoided costs to address the above

(NOTE: Numbers shown in this presentation are “draft” as this remains a work-in-process)

The National Focus

- Clean Air Act, Section 111(d) gave the US EPA authority to promulgate state Clean Power Plan rules
  - Reduce greenhouse gas emissions from covered power plants by 32% from 2005 levels by 2030
  - US Supreme Court stayed implementation (February 2015)
  - Oral arguments heard June 2016 (DC Circuit Court of Appeals)
- States may comply in two ways:
  - Rate-based – Reducing the average CO_2 emissions rate (pounds of CO_2/kilowatt-hour) from electric generating plants
  - Mass-based – Limiting the total emissions (tons of CO_2 per year)

The Regional Focus

- The Northwest Power Planning and Conservation Council (NPPC or Council) recently published its 7th Power Plan
  - Released May 2016
  - Significant discussion, analysis, and scenarios regarding CO2 contained in Chapters 3 and 15

SEVENTH NORTHWEST POWER PLAN

- Considerable prior regional collaboration regarding GHG
  - Such as the proposed cap and trade program of the Western Climate Initiative

Washington

- Draft Clean Air Rule published by the Department of Ecology (January 2016), with new draft in June
  - If adopted, would require LDCs to reduce CO2 emissions by 5% from a rolling baseline
  - Reductions to come from efficiency, investment in Washington facilities, and/or purchased allowances and offsets

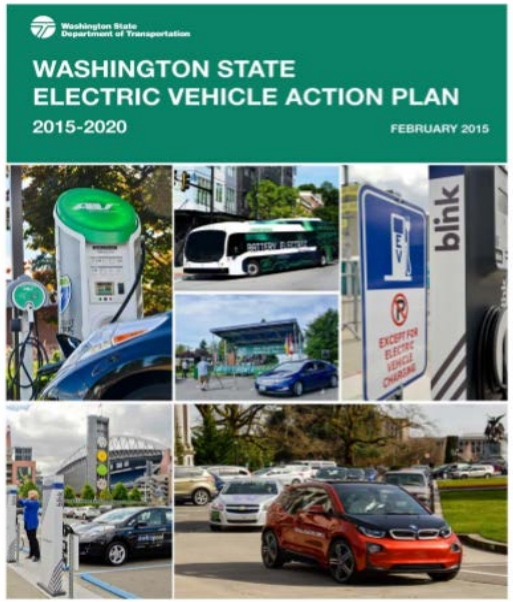
DEPARTMENT OF ECOLOGY
State of Washington

- Initiative 732 (I-732) – Clean Energy Future
  - Charges a carbon tax of $25 per ton of carbon
  - Lowers the sales tax by 1%
  - Grants tax rebate of up to $1,500 annually to 400,000 low income families
  - Eliminates the business and occupation (B&O) tax on manufacturing

Washington (continued)

- Potential other initiative in-progress

- Significant other state policies with CO2 impacts
  - Energy Independence Act ("I-937")
  - Electric Vehicle Action Plan
  - And others



Oregon

- "Coal to Clean" law adopted in 2016 (SB 1547)
  - Effectively eliminates coal power by 2030
  - 50% renewable electric generation by 2040
- Several other legislative proposals considered without adoption in 2016:
  - Replace GHG emission goal with cap and trade program (SB 1574)
  - Repeal GHG emission goal; requires Environmental Quality Commission to adopt goals and limits (HB 4068)
- Additional proposals expected in the 2017 legislative session
- Monitoring Northwest Natural Gas' carbon program

Types of CO2 Adder Analyses

- The Northwest Power and Planning Council summarizes applicable approaches. <u>While directed to the electric industry, these are provided as illustrations of the potential scope of methodologies and recently-performed analyses</u>

- Eight approaches were applied by the Council:
  - Social Cost of Carbon (Mid-Range and High) – two approaches
  - Carbon Cost Risk (e.g., $0 - $110/ton) – one approach
  - Regional Renewable Portfolio Standards at 35% – one approach
  - Maximum Carbon Reduction (Existing Technology, Coal Retirement, Coal Retirement with the Social Cost of Carbon, Coal Retirement with the Social Cost of Carbon and No New Gas) – four approaches

Types of CO2 Adder Analyses (continued)

- Four additional scenarios included:
  - Planned Loss of a Major Non-GHG Emitting Resource (i.e., 1,000 aMW of hydro)
  - Unplanned Loss of a Major Non- GHG Emitting Resource
  - Faster Conservation Deployment
  - Slower Conservation Deployment

- Four sensitivity analyses were performed:
  - No Demand Response
  - Low Natural Gas and Wholesale Electricity Prices
  - Increased Market Reliance
  - Lower Conservation

Fugitive Methane Emissions

- Fugitive methane (a major component of natural gas) occurs during production, transportation and distribution
  - Ranges of methane emissions vary, with new production facilities now coming in around 1%
- Council's 7th Power Plan
  - "…there is considerable uncertainty around such issues as whether its impacts compared to carbon dioxide are over or under-stated…and whether accounting for the methane emissions from coal production would also raise that fuel's full life-cycle climate impacts…"
  - "…will likely draw on gas production new wells which have lower fugitive emissions…"
  - "…unless new pipeline capacity is needed, fugitive emissions from pipeline leaks remain relatively constant…"
- Summary: Electric generation fueled by natural gas has significantly less CO2 emissions than electric generation from coal. Including fugitive methane emissions, natural gas remains with lower CO2 emissions

Washington and Oregon Commission-Jurisdictional Planning Treatment of CO2 Emissions

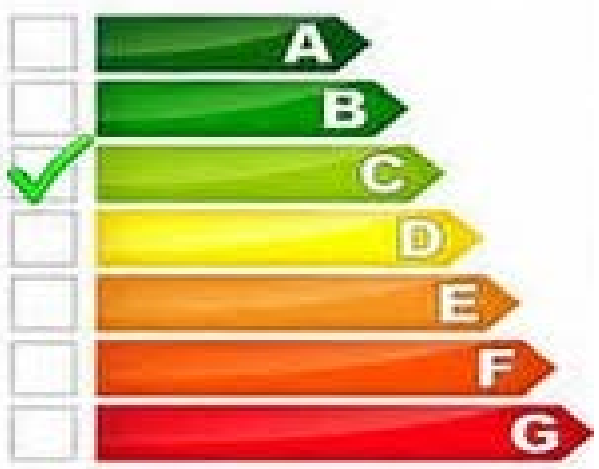
- Local Distribution Companies:
  (note all based on NPPC forecast using the carbon cost risk approach)
  - PSE
    - In its 2015 IRP, modeled three CO2 prices: No Federal CO2 price ($0/ton); Mid CO2 price ($13/ton in 2016 to $54/ton in 2035); High CO2 price ($35/ton in 2020 to $120/ton in 2035)
  - Northwest Natural Gas
    - In its "2016 IRP Draft for Public Comment," for Oregon, begins in 2021 at $7/ton with $28/ton in 2035 and for Washington, starts at $7/ton in 2017 with $32/ton in 2035)
  - Avista
    - In it draft 2016 slides, adder begins in 2018 ($10/ton), escalating to $20/ton (2035)

Current Efforts by Cascade re GHG Reduction

- Cascade is addressing CO2 in the following manner
  - Energy efficiency programs
  - Encouragement of the direct use of natural gas
  - Methane recapturing and leak prevention

Proposed Direction

- Apply CO2 adders from 7th Plan
  - Apply Carbon Cost Risk approach
  - Near time price of $10/ton escalating to $35 per ton in 2035



- Include:
  - Ranges
  - Sensitivity analyses

- Determine impact on prices

Next Steps and Conclusion

- Incorporate carbon planning assumptions into modeling
- Will provide a brief update of the modeling impacts at TAG 4
- Conclusion…
  - Regarding expectations, lesser impact on customers as compared to the electric utility industry
  - Impact of ranges and sensitivity analyses will be presented to the TAG when modeling is performed

Questions…

…and thank you

MARKET OUTLOOK AND LONG RANGE PRICE FORECAST

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Market Outlook

- **Reductions in projected demand, a slow economic recovery, and the new reality of a vast North American supply of natural gas all combined to change the nature of projects now being considered by the region. Today's market for regional infrastructure capacity has evolved from valuing diversity to equally valuing reliability**
- **Although US Economic growth underperformed many projections, there are reasons to be optimistic about the US economy on a macro level, including fairly low unemployment rates and a possible signaling of an increase to the Fed Funds rate before the end of the year**
- **Currently, the Yakima River Basin reservoir is filled to about 54% capacity, while the 5 major Oregon River Basins are filled to about 44% capacity. According to a recent report by the DoE, the US has the ability to increase the amount of gigawatts generated by dams by 50%, by the year 2050, through a more efficient use of our current dam system.**
- **With CO2 emissions from Natural Gas surpassing that of Coal for the first time since 1972, regulators are looking at cracking down on Methane emissions from the Oil and Gas industries. These regulations are being challenged by industry groups, who look to highlight the positive impact natural gas has had in lowering CO2 emissions.**
- **Natural Gas Storage continues to rise. As of August 12th 2016 stocks are 361 Bcf higher than last year YoY, a 12.2% increase. Forward projections indicate that storages will continue to rise in the US over the next few weeks. In addition, the Southern California Gas Company is looking to resume injections at their Aliso Canyon facility, subject to regulatory review and well tests.**
- **US Economic Growth was only 1.2% for Q2 2016, unemployment at 4.9%**
- **Indications from the President of the NY Fed may be signaling at least one more Fed rate increase before the end of 2016**

Long Range Price Forecast

- Cascade's long term planning price forecast is based on a blend of current market pricing along with long term fundamental price forecasts.
- The fundamental forecasts include Wood Mackenzie, the Energy Information Administration (EIA), the Northwest Power Planning Council, Bentek and the Financial Forecast Center's long term price forecasts.
- Market, particularly in near term is heavily influenced by Henry Hub prices
- While not a guarantee of where the market will ultimately finish, Henry Hub NYMEX is the most current information that provides some direction as to future market prices

Long Range Price Forecast

- Wood Mackenzie's long-term forecast is at a monthly level by basin. We use this to help shape the forecast's monthly basis pricing.
- We also rely on EIA's forecast; however, it has its limitations since it is not always as current as the most recent market activity. Further, the EIA forecast provides monthly breakdowns in the short term, but longer term forecasts are only by year.
- We assign a weight to each source to develop the monthly Henry Hub price forecast for the 20 year planning horizon.
- Although it is impossible to accurately estimate the future, for trading purposes the most recent period has been the best indicator of the direction of the market. However, Cascade also considers other factors (historical constraints) which can lead to minor adjustments to the final long range forecast.

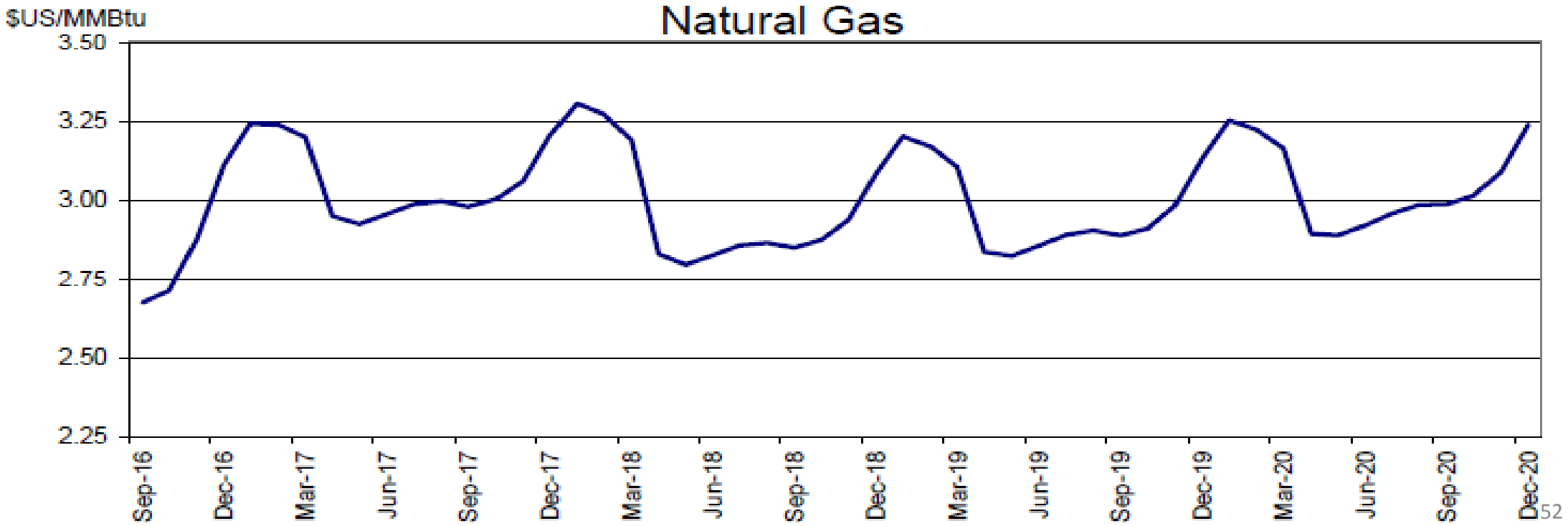
Long Range Price Forecast

- Considerations in weight assignments
  - Typically, highest weight is given to NYMEX for the near term (approximately 3-5 years) then the others take on increasing weight over the horizon
    - Wood Mackenzie (monthly, covers all basins)
    - EIA (industry barometer, annual long term
    - NPPC (regional perspective, but recognize it is also a blend)
    - Bentek (3-5 years out years)
    - Financial Forecast Center (typically only a few years)

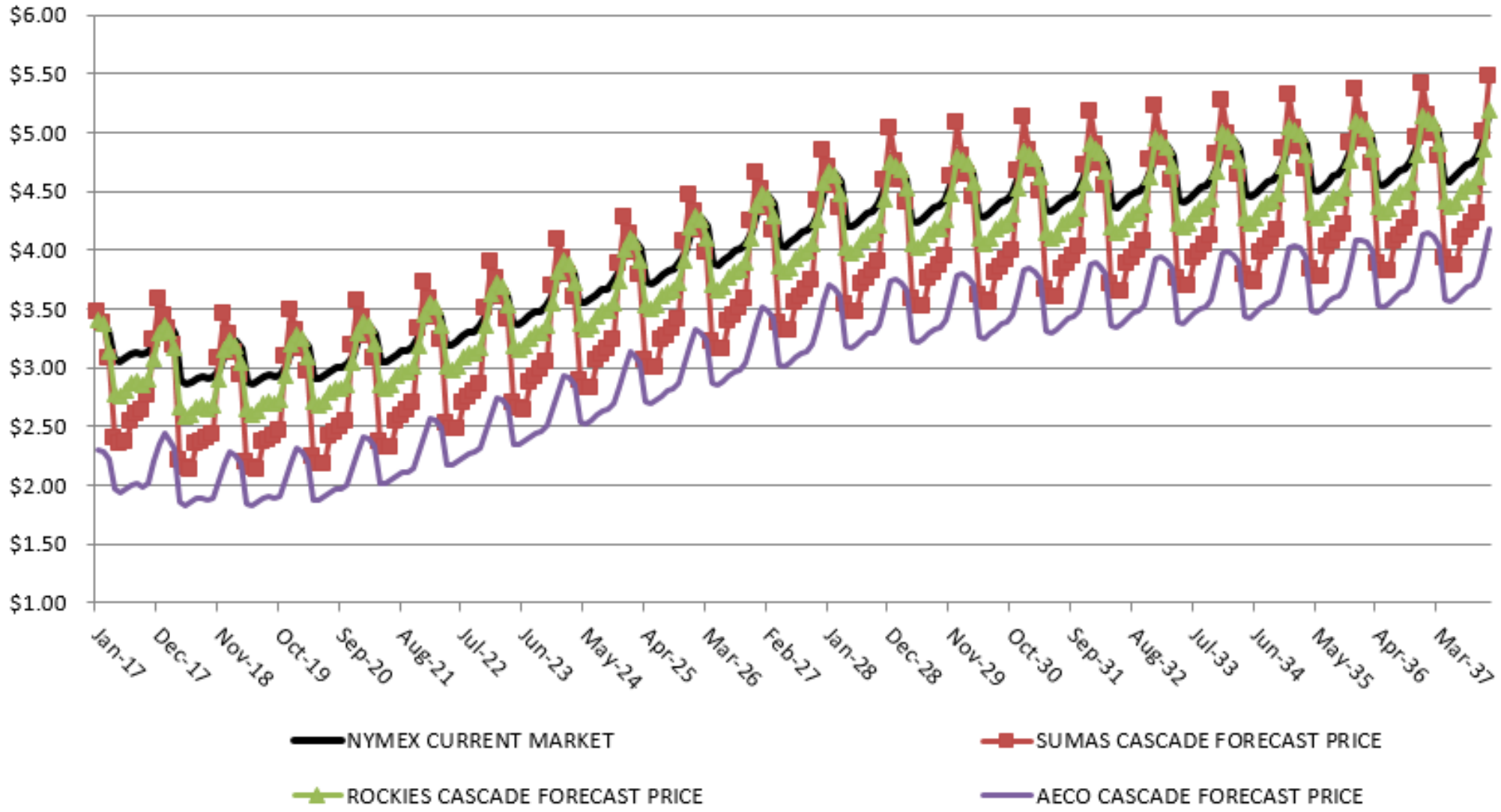
Current Pricing

- The Henry Hub natural gas spot price averaged $2.82/MMBtu in July, up 24 cents/MMBtu from the June average.
- Price increases reflected warmer-than-normal temperatures in July, which led to increased demand from the electric power sector. Despite the increase in spot prices, prices still remain low enough to support significant natural gas-fired generation.
- EIA expects natural gas prices to gradually rise throughout the forecast period. Forecast Henry Hub prices average $2.41/MMBtu in 2016 and $2.95/MMBtu in 2017.

As of Thursday, August 18th Natural gas prices are relatively unchanged this morning with the prompt contract up about a cent from August 17th's close. September futures contract was also unchanged, settling 0.2 cents higher at $2.619/MMBtu, as the market stands pat in anticipation of Thursday's EIA storage report. The rest of the curve was slightly higher, as the Calendar 2017 and Calendar 2018 swaps increased by 1.7 and 0.9 cents, respectively. Prices in the Northeast cash market were mostly lower due to expectations that temperatures will return to historical norms



Long Range Price Forecast



Base Weights in Draft 2016 IRP Price Forecast

Year	Current NYMEX	Source 1	Source 2	Source 3	Source 4
2017	50%	20%	25%	5%	0%
2018	45%	20%	30%	5%	0%
2019	40%	20%	35%	5%	0%
2020	35%	25%	35%	5%	0%
2021	30%	30%	35%	5%	0%
2022	25%	30%	40%	5%	0%
2023	20%	30%	45%	5%	0%
2024	15%	25%	55%	5%	0%
2025	10%	25%	60%	5%	0%
2026	10%	20%	65%	5%	0%
2027	5%	20%	70%	5%	0%
2028	5%	20%	75%	0%	0%
2029	0%	25%	75%	0%	0%
2030	0%	25%	75%	0%	0%
2031	0%	25%	75%	0%	0%
2032	0%	25%	75%	0%	0%
2033	0%	25%	75%	0%	0%
2034	0%	25%	75%	0%	0%
2035	0%	25%	75%	0%	0%
2036	0%	25%	75%	0%	0%

PRICE ELASTICITY OVERVIEW

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Price Elasticity—Context and Import

- Price elasticity is an economic concept which recognizes that customer consumption changes as prices rise or fall. The amount of this change (or "elasticity") is a function of other available products (i.e., substitutes) or the ability for customers to go without or use less, with no meaningful impact on their personal life or in commerce. "Price signals" is a term used to describe how customers see or expect future pricing to affect them.

- Price elasticity is expressed mathematically as a coefficient describing the amount of change in consumption per change in price. By way of example, a price elasticity factor of negative 0.10 means a consumer will reduce usage by one percent if the price increases by 10%. Conversely, a positive 0.10 coefficient factor for a 10% price decrease would predict customers would increase consumption by 1.0%. For products with high substitutability, the coefficient factors are high (e.g., greater than 0.50) and *vice versa*.

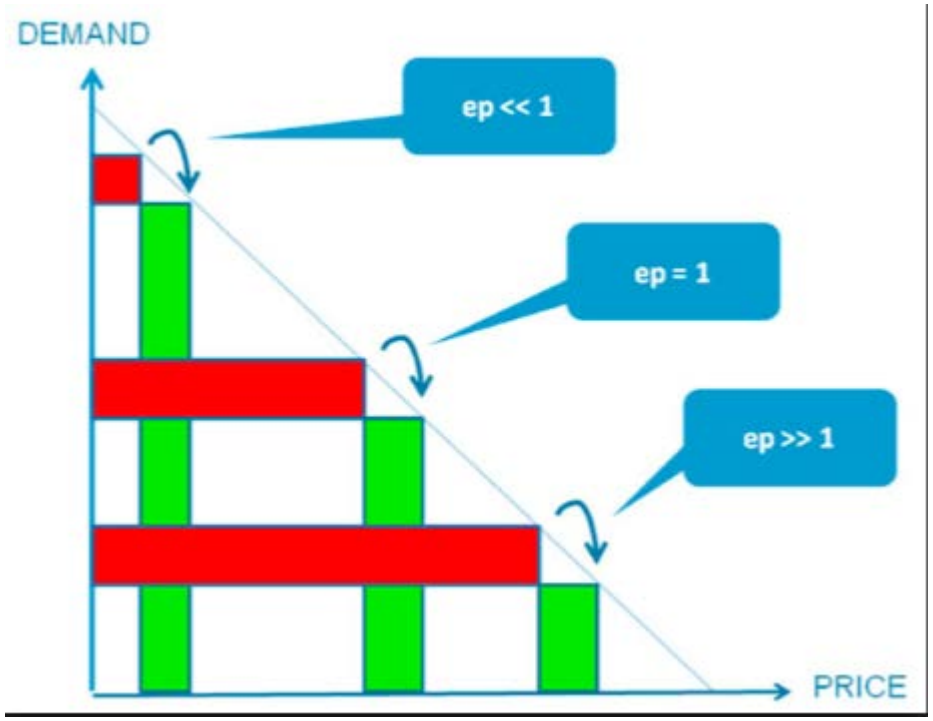
- Price elasticity can be highly temporal. Consumers may not be able to make changes to short-term price increases or decreases. Yet, several years out, that same customer may replace equipment or make behavioral changes to use significantly less or more of a product depending on whether, over the long term, the product is more or less expensive, respectively.

Price Elasticity—Context and Import (cont'd)

- The import of price elasticity to natural gas integrated resource planning lies in the twenty year period over which the demand forecasts are estimated. This forecast (or range of forecasts under scenario planning) is a key determinant of the avoided cost. Low price elasticity in a rising natural gas price environment, would suggest forecasted higher load would not change and more natural gas would need to be acquired, with corresponding delivery infrastructure. However, if usage materially decreases with higher prices, then less purchases and capital investment by a local distribution company (LDC) would be necessary. Thus price elasticity effects the avoided cost.

- Because avoided costs are integral to conservation planning, among other components, the impact of price elasticity on consumer consumption is particularly important.

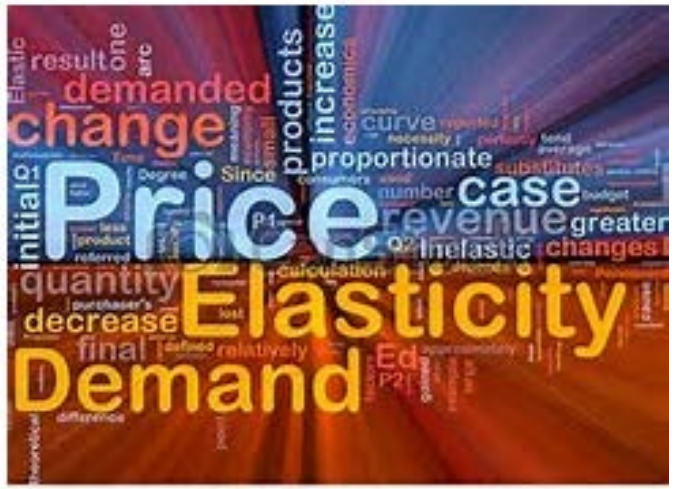
- The previous discussion is a relatively academic explanation. Application of price elasticity to natural gas resource planning presents several confounding issues.



Factors Affecting Price Elasticity

Several attributes of the regulated utility environment cause price elasticity calculations to be difficult to calculate with precision. These include…

- Within customer classes, the type of customer usage varies:
  - Residential—heating and non-heating
  - Commercial—heating and processing
    - …leading to a general inability to make short-term changes in usage other than some behavioral modifications.



Factors Affecting Price Elasticity (cont'd)

- Regulatory protocols reduce direct price signals:
  - Annual purchased gas adjustments can be increases or decreases of unknown magnitude
  - General rate cases and price changes are assumed by customers to occur annually or biannually
    - …leading to customer uncertainty of future pricing other than a preconception that prices will rise.

- Billing plans reduce direct price signals:
  - Average, or levelized, billing which results in twelve equal monthly payments adjusted annually, is a service to customers but does not send direct price signals. For customers not on a level payment plan, seasonal temperature changes appear as increases in monthly bills during cold months and decreases during warmer months
    - …leading to a misunderstanding by customers of future pricing.

Other Factors

Several items reduce load growth over time, regardless of price elasticity and price signals:

- Economic conditions
- Conservation
- Building codes and appliance standards (which are already built into forecasts)
- Technology
  - …leading to historical data that includes reductions in usage irrespective of pricing.

- To the above can be added subjective items such as customers' general propensity to use less of many products. Additionally, electricity and natural gas pricing now move in tandem.
- This causes difficulty for customers to receive meaningful price signals and difficulty for utilities to isolate primary factors for long term price elasticity calculations (other than inflation). Regardless, it isn't clear that customers may not return (or rebound) to historic usage after a higher or lower price excursions.

Other Studies

Several price elasticity inquiries are traditionally referenced in regional price elasticity discussions. These include:

- The American Gas Association (AGA) released a study in 2007 identifying the short-run price elasticity coefficients for the Pacific and Mountain regions to each be -0.07 with a low and high range of -.03 and -0.13 respectively. The long-run estimates were -0.12 (Pacific) and -0.10 (Mountain), with the range being between -0.01 and -0.29.
- Regional differences in price elasticity for demand of energy were examined, with the conclusion that the geographic area of a utility's service territory results in the statistical significance of price becoming more uncertain. This suggests that for Cascade—with its customers spread over two states in smaller sections—relatively precise price elasticity coefficient factors would either not be available or would be costly to determine with lesser benefits of doing so.

- Use per customer has been decreasing over the past thirty years prompted by multiple factors, including systemic items such as conservation, building codes and appliance standards and behavioral influences such as the 2008 recession.

Options for Price Elasticity Treatment

- Options exist for treatment of price elasticity in IRPs. One option is to incorporate coefficient factors into linear modeling.

- Alternatively, modeling of future pricing effects can be pursued through calculations that iterate a series of cost environments based on primary variables. This is part of evolving forecast methodologies.

- Other regions are experiencing similar examinations of appropriate coefficient factors and/or more exhaustive and iterative modeling methods.

- A short-run coefficient factor of -0.10 and a long-run factor of -0.12 would be justifiable for Cascade's current IRP process, given the temperature differentials of its service territory, east and west of the Cascade Mountains. Low and high ranges would be justifiable at plus or minus 0.07.

Price Elasticity - Conclusion

- Integrated Resource Planning (IRP) includes demand forecasting over a twenty-year horizon. Load growth needs to take into account several factors over this period due to aspects effecting customer usage. Price elasticity (or changes in consumption based on changes in price) is one such factor.
- Price elasticity exists, yet determining specific coefficient factors for linear modeling is inexact.
- A range of coefficient factors will be used to test sensitivities of the factors and impacts to the forecasts.
- Given Cascade's diverse geographical territory, statistical significance of price elasticity coefficients is uncertain.

Price Elasticity – Conclusion (cont'd)

- Several complicating factors effect price elasticities:
  - Regulatory mechanisms (e.g., purchased gas adjustments—PGAs—and general rate cases) which dampen price signals
  - Historical data (embedded with effects of conservation, technology, and economic conditions) renders reliance on this data imperfect for precise price elasticity determination
  - The retail price of most "substitutable" fuel—electricity—moves with the cost of natural gas, thereby lessening the economic value of alternative fuels to customers.
- Evolution of modeling suggests that future IRP modeling should incorporate iterative quantitative equations to allow built-in price elasticity effects.
- Regardless of the above, price elasticity must be taken into account. For Cascade's current IRP cycle, a short-run coefficient factor of -0.10 and a long-run factor of -0.12 with ranges of plus or minus 0.07 is justifiable, given regional studies and other utilities' modeling efforts.

SENDOUT SCENARIOS AND INPUTS

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SENDOUT model

- Cascade utilizes SENDOUT™ for resource optimization
- This model permits the Company to develop and analyze a variety of resource portfolios to help determine the type, size, and timing of resources best matched to forecast requirements.
- SENDOUT™ is very powerful and complex. It operates by combining a series of existing and potential demand side and supply side resources and optimizes their utilization at the lowest net present cost over the entire planning period for a given demand forecast.

SENDOUT model

- SENDOUT™ utilizes a linear programming approach
- The model knows the exact load and price for every day of the planning period based on the analyst's input and can therefore minimize costs in a way that would not be possible in the real world.
- Therefore, it is important to acknowledge that linear programming analysis provides helpful but not perfect information to guide decisions.

Modeling Transportation In SENDOUT®

IS A BALANCING ACT OF REALITY AND SUBJECTIVE APPLICATION

- Start with a point in time look at each jurisdiction's resources
- We start with the Nov16-Oct17 PGA portfolio
- Contracts –Receipt and Delivery Points
- We start with current transport contracts, using centralized receipts and approx. 66 delivery locations
- Rates
- Current contractual, with CPI increase every 3 years

- Contractual vs. Operational
- Contractual can be overly restrictive
- Operational can be overly flexible
- Incorporating operational realities into our modeling can defer the need to acquire new resources.
- Gas Supply's job is to get gas from the supply basin to the pipeline citygate.
- IRP focus is on the core
- Operations job is to take gas from the pipeline gate to our customers.
- Operations focus is on the system, not just the core
- Limiting factor is receipt quantity –how much can you bring into the system?

Modeling Challenges

- Supply needs to get gas to the citygate.
- Many of our transport agreements were entered into decades ago, based on demand projections at that point in time.
- Sum of receipt quantity and aggregated delivery quantity can help identify resource deficiency depending on how you allocation the rights
- The aggregated look can mask individual city gate issues for looped sections, and the disaggregated look can create deficiencies where they don’t exist.
- In many cases operational capacity is greater than contracted.
- SENDOUT has perfect knowledge

Major resource issues on the horizon

- **Addition alternatives to be considered during IRP process**
  - **NWP I-5 Expansion**
  - **Realignment of MDDOs to citygates**
  - **Palomar/Cross Cascades**
  - **Pacific Connector**
  - **Incremental Nova**
  - **Incremental Foothills**
  - **Incremental GTN (north to south)**
  - **Biofuel**
  - **Satellite LNG**
  - **Mist Storage**
  - **AECO Storage**
  - **Wild Goose Storage**
  - **Gill Ranch Storage**
  - **Ryckman Creek Storage**

- Began discussions with Niska Partners to gather information to model AECO Hub Storage in the 2016 IRP. In addition, we will be considering Wild Goose, Gill Ranch, Mist and Ryckman Creek storage

- Working with GTN to develop a narrative to explain how our long path capacity can be used to meet peak day shortfalls.

Considerations

- Does is get supply to the gate?
- Is it reliable/firm?
- Does it have a long lead time?
- How much does it cost?
- New build vs. depreciated cost
- The rate pancake
- Is it a base load resource or peaking?
- How many dekatherms do I need?
- What is the “shape” of resource?
- Is it tried and true technology, new technology, or yet to be discovered?
- Who else will be competing for the resource?

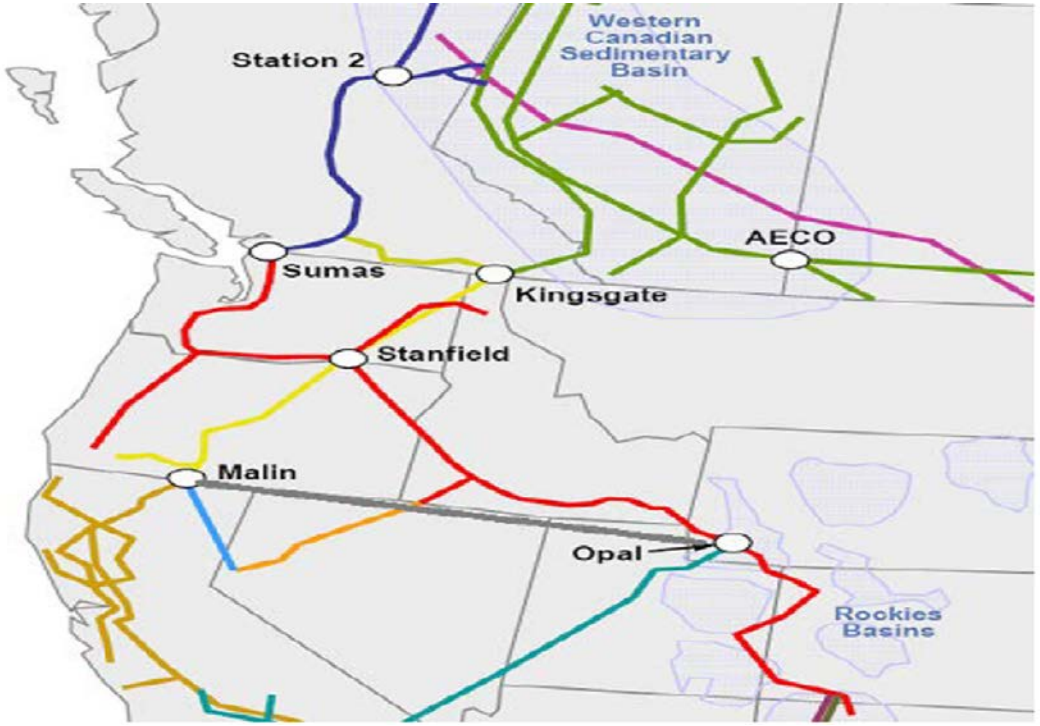
SENSITIVITIES ANALYSES

Scenario Name	Key Assumptions
High Growth	Strong Economic Growth result in High Load growth, Average Weather, Medium Gas Prices
Low Growth	Economic Conditions result in Low Load growth, Average Weather, Medium Gas Prices
Environmental Externalities Carbon 1	Medium Load Growth, Average Weather, Assumes Carbon Adder Implemented in 2018 for CO2 emissions at $10/ton with adder increasing annually by 3% plus CPI (Consumer Price Index)
Environmental Externalities Carbon 2	Medium Load Growth, Average Weather, Assumes Carbon Adder Implemented in 2016 for CO2 emissions at $20/ton with adder increasing annually by 3% plus CPI (Consumer Price Index)
Environmental Externalities Carbon 3	Medium Load Growth, Average Weather, Assumes Carbon Adder Implemented in 2017 for CO2 emissions at $30/ton with adder increasing annually by 3% plus CPI (Consumer Price Index)

Supply Side Alternatives Modeled

Resource	Scenario Considered
Conventional Gas Supply Contracts with annual, seasonal or winter only characteristics delivered to Northwest Pipeline & GTN Systems	All
Conventional Gas Supply Peaking Contracts Delivered to Northwest Pipeline & GTN Systems	All
Gas Supply Peaking Contract delivered to Cascade's citygates	All
Incremental Storage Delivered to Northwest Pipeline and GTN systems	All
Satellite LNG Storage within Cascade's distribution system	All
Additional Pipeline Capacity secured through medium--long term capacity agreements	All

Current Station2	Incremental NOVA	AECO Year, Seas, Spot
Current NOVA-Foothills	Incremental GTN	Sumas Year, Seas, Spot
Current GTN	Incremental NWP	Rockies Year, Seas, Spot
Current NWP	Incremental Fthls	Station2Year, Seas, Spot
Current Ruby	JP1, JPExp, JP3-4, LS	Citygate GTN, NWP
Ryckman Crk Storage	T-South-So Crossing	BioNatualGas
AECO Hub Storage	Pacific Connector	Satellite LNG
Mist Storage	Palomar	WA Expansion
California Storage	MDDO Realignment	DSM as supply source



The All In Case run allows the company to see what the model would select if all current and probably resources are available.

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. **All items in RED mean those elements were excluded from the scenario**		
Mist	Current Station2 Current NOVA-Foothills Current GTN Current NWP Current Ruby *Ryckman Crk Storage* *Incremental JP* Mist Storage	Incremental NOVA Incremental GTN Incremental NWP Incremental Ruby JP1, JPExp, JP3-4, LS *T-South-So Crossing* *Pacific Connector* *N-MAX-Stan-Madr* *N-MAX Madr I-5*	AECO Year, Seas, Spot Sumas Year, Seas, Spot Rockies Year, Seas, Spot Station2Year, Seas, Spot Citygate GTN, NWP BioNatualGas Satellite LNG *WA Expansion*
Mist and Ryckman Creek	Current Station2 Current NOVA-Foothills Current GTN Current NWP Current Ruby Ryckman Crk Storage *Incremental JP* Mist Storage	Incremental NOVA Incremental GTN Incremental NWP Incremental Ruby JP1, JPExp, JP3-4, LS *T-South-So Crossing* *Pacific Connector* *N-MAX-Stan-Madr* *N-MAX Madr I-5*	AECO Year, Seas, Spot Sumas Year, Seas, Spot Rockies Year, Seas, Spot Station2Year, Seas, Spot Citygate GTN, NWP BioNatualGas Satellite LNG *WA Expansion*
T-South Enhancement/Southern Crossing with Limited Canadian	Current Station2 Current NOVA-Foothills Current GTN Current NWP Current Ruby Ryckman Crk Storage *Incremental JP* *Mist Storage*	Incremental NOVA Incremental GTN Incremental NWP Incremental Ruby JP1, JPExp, JP3-4, LS T-South-So Crossing *Pacific Connector* *N-MAX-Stan-Madr* *N-MAX Madr I-5*	AECO *Year, Seas*, Spot Sumas Year, Seas, Spot Rockies Year, Seas, Spot Station2 *Year, Seas*, Spot Citygate GTN, NWP BioNatualGas Satellite LNG *WA Expansion*
T-South Enhancement/Southern Crossing	Current Station2 Current NOVA-Foothills Current GTN Current NWP Current Ruby Ryckman Crk Storage *Incremental JP* *Mist Storage*	Incremental NOVA Incremental GTN Incremental NWP Incremental Ruby JP1, JPExp, JP3-4, LS T-South-So Crossing *Pacific Connector* *N-MAX-Stan-Madr* *N-MAX Madr I-5*	AECO Year, Seas, Spot Sumas Year, Seas, Spot Rockies Year, Seas, Spot Station2 Year, Seas, Spot Citygate GTN, NWP BioNatualGas Satellite LNG *WA Expansion*

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. **All items in RED mean those elements were excluded from the scenario**		
Pacific Northwest Regional (NMAX, WA Expansion, Palomar)	Current Station2	Incremental NOVA	AECO Year, Seas, Spot
	Current NOVA-Foothills	Incremental GTN	Sumas Year, Seas, Spot
	Current GTN	Incremental NWP	Rockies Year, Seas, Spot
	Current NWP	Incremental Ruby	Station2Year, Seas, Spot
	Current Ruby	JP1, JPExp, JP3-4, LS	Citygate GTN, NWP
	Ryckman Crk Storage	*T-South-So Crossing*	BioNatualGas
	Incremental JP	*Pacific Connector*	Satellite LNG
	Mist Storage	N-MAX-Stan-Madr	WA Expansion
		N-MAX Madr I-5	
Pacific Connector	Current Station2	Incremental NOVA	AECO Year, Seas, Spot
	Current NOVA-Foothills	Incremental GTN	Sumas Year, Seas, Spot
	Current GTN	Incremental NWP	Rockies Year, Seas, Spot
	Current NWP	Incremental Ruby	Station2Year, Seas, Spot
	Current Ruby	JP1, JPExp, JP3-4, LS	Citygate GTN, NWP
	Ryckman Crk Storage	*T-South-So Crossing*	BioNatualGas
	Incremental JP	Pacific Connector	Satellite LNG
	Mist Storage	*N-MAX-Stan-Madr*	*WA Expansion*
		N-MAX Madr I-5	

Some additional guidance from stakeholders needed…

- LRC analysis considers public policies adopted by the Federal government or Washington state regarding resource preference
- LRC analysis considers risks imposed on ratepayers
- LRC analysis considers cost of risks associated with environmental effects including the emission of carbon dioxide
- Plan develops forecasts using methods that address changes in the number, type and efficiency of natural gas end-users
- Plan includes at least a 10-year long range planning horizon

Supply Resource Optimization Process

Step 1: Resource Portfolio Selection

- run an optimization that includes a peak day, a peak week, and a peak heating season for *every* year in the planning horizon for each Scenario to ensure adequate resources are held to meet peak load

Step 2: Resource Portfolio Expected Costs

- optimize each portfolio from Step 1 under normal weather in each year to determine expected PVRR of each portfolio

Step 3: Resource Portfolio Stochastic Risk Assessment

- test the robustness of the expected resource choice from Step 2 by determining the PVRR of the portfolios from the previous steps under a wide slate of future environments that represent the uncertainty of natural gas prices, weather, and resource costs

Monte Carlo Stochastic Simulation Risk Analysis

1. Two separate 100 draw simulations that need to be combined to evaluate total portfolio cost risk
2. Simulation 1: Variable Costs
   - Stochastic inputs: Gas Prices and Weather (Load)
   - After the simulation is complete (100 prices and weather futures are simulated), each portfolio is optimized (a daily dispatch cost minimization) for each of the simulation draw to determine PVRR
3. Simulation 2: Fixed Costs
   - Stochastic input: Supply resource option costs
   - After the simulation is complete and 100 different revenue requirement cost outcomes have been obtained, the total PVRR difference relative to the base case for each of the prospective resources is calculated for each simulation draw for all of the portfolios
4. Every PVRR outcome from the two simulation process is paired to determine the total portfolio PVRR for each Scenario under the same 10,000 prospective future environments

Avoided Cost Overview

- As part of the IRP process, Cascade calculates a 20-year forecast and 45 years of avoided costs.
- The avoided cost is an estimated cost to serve the next unit of demand with a supply side resource option at a point in time. This incremental cost to serve represents the cost that could be avoided through energy conservation.
- The avoided cost forecast can be used as a guideline for comparing energy conservation with the cost of acquiring and transporting natural gas to meet demand.
- Cascade evaluates the impact that a range of environmental externalities, including CO2 emission prices, would have on the avoided costs in terms of cost adders and supply costs.
- We produce an expected avoided cost case based on the medium forecast (base case) peak day.

Costs included in the avoided cost calculation

- The long term gas price forecast compiled from a consultant's gas price forecast (which is the majority of the cost);
- A price for carbon included in the gas price forecast, which has been embedded by price forecast consultant
- Gas storage variable and fixed costs
- Upstream variable and fixed transmission costs;
- Peak related on-system transmission costs; and
- A 10 percent adder for unidentified environmental benefits, as recommended by the Northwest Power and Conservation Council ("NWPCC").

METHODOLOGY

- The SENDOUT® resource planning model is used to generate the avoided costs.
- SENDOUT® contains a marginal cost report which lists the daily incremental cost to serve the next unit of demand for each demand region.
- The model determines the lowest cost method for serving the next unit of demand and computes a marginal cost.

ALTERNATIVE RESOURCES CONSIDERED

- With regards to alternative resources considered in the optimization of the portfolio, there is a level of uncertainty as to when certain alternative supply side resources will materialize and yet a base case needs to be created to calculate the avoided cost.

- Using the base case demand parameters as inputs, including the design weather pattern, and base case customer and gas price forecasts, in addition to existing supply side resources, the Company's resource portfolio for purposes of the avoided cost calculation ***might*** include:
  - Ryckman Creek storage
  - Incremental NGTL, Foothills, GTN and NWP transport (all of which are allocated between Oregon and Washington).
  - Also, a small level of satellite LNG and biogas is also included in the base case—however; these two alternative resources are assigned directly to Washington.

NOTE: The optimal portfolio will be available until TAG 5. Some of the assumptions above are subject to change.

2016 IRP Timeline

Monday, August 22, 2016	**"Gas Supply 101" for WUTC**	**Cascade HQ in Kennewick WA**
Tuesday, August 23, 2016	**TAG 3: Conservation, Carbon Assumptions, Price Forecast, Avoided Costs, Planned Scenarios**	**Cascade HQ in Kennewick WA**
Thursday, September 08, 2016	TAG 4 slides distributed to stakeholders	
Thursday, September 15, 2016	**TAG 4: Distribution System Planning, Preliminary Resource Integration Results, Proposed new 2 year Plan**	**Seattle Airport Conference Center**
Friday, October 07, 2016	**TAG 5: Final Integration Results, finalization of plan components**	**Seattle Airport Conference**
Friday, October 14, 2016	Internal review of draft filiing of IRP complete	
Monday, October 17, 2016	Draft of 2016 IRP distributed	
Monday, November 07, 2016	Comments due on draft from all stakeholders	
Thursday, November 17, 2016	TAG 6, if needed	Seattle Airport Conference Center
Wednesday, November 23, 2016	Final IRP goes to press	
Thursday, December 01, 2016	Executive Summary Presentation to Senior Management	Kennewick, WebEx
Wednesday, December 14, 2016	IRP filing in Washington	

NEXT STEPS?

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #3

Tuesday, August 23, 2016

Cascade HQ – Kennewick, WA

3rd External TAG Meeting

Date & time: 08/23/2016 – 08:00-11:30 AM

Location: Kennewick GO

Presenters: Mark Sellers-Vaughn, Monica Cowlishaw, Bruce Folsom

In attendance: Mark Sellers-Vaughn, Bruce Folsom, Monica Cowlishaw, Brian Robertson, Devin McGreal, Mike Parvinen, Eric Wood, Brian Cunnington, Amanda Sargent, Carolyn Stone, Brian Hoyle, Jennifer Gross, David Nightingale - WUTC, Kathi Scanlon-WUTC, Cooper Wright - WUTC

Called in: Bob Morman, Laura Flanders - NWP, Chad Luginbill, Josh Romine, Mark Chiles, Deborah Reynolds, Ed Finklea – NWIGU, Jeremy Twitchell - WUTC

Minutes by: Carolyn P Stone

Mark began the meeting by welcoming everyone. Mark also reminded everyone that today's meeting is a "workshop" and feedback is welcomed! He then went over the Agenda. Bob also welcomed Staff to the meeting and said he looked forward to the presentation.

Presentation #1 – Monica Cowlishaw
Demand Side Management
Monica began her presentation with Slide #4 discussing the purpose of rerunning their model called "TEA-Pot".

- Monica stated that conservation is changing the Demand Side Management within the IRP to an "Executive Summary".
- The TEA-Pot model re-runs the forecast in 3 geographic areas at the climate zone level for Washington and 1 climate zone for Oregon.
- Amanda then went through TEA-Pot stating inputs have changed and will change again. One of the conservation forecast changes is that administrative costs have increased due to increased outreach.

Scenarios

- Amanda explains that the scenarios include 30% and 50 % of incremental costs for the residential incentives. It is a robust portfolio! It includes both custom and prescriptive programs.
- Amanda states that the Service Territory map helps smooth the scenarios into the IRP and better reflects the Conservation forecast.

Slide #9 – Full Portfolio by Climate Zone

- Amanda states that these are preliminary numbers. Zone 2 is the smallest because there are fewer customers. This forecast is in line with the average of the last 2 years.

Slide #10 – Full Portfolio by Customer Class

- Amanda noted this scenario will change. There are very few large industrial customers included here. If there is even 1, it makes a large impact!
- Monica mentioned that there are other items included in the IRP such as Billing Studies (both residential & commercial).
- She went on to say that Cascade & other LDC's will make an $18.3m investment as a collective effort to make high efficiency gas appliances more efficient. Examples include the Energy Star Dryer product improvement, a water heater, rooftop units and piloting LNG in Union Gap.

Question: Was the water heater gas?
Answer: Yes

CNG is involved in community projects, i.e. Georgetown Prize competition. There is one in Walla Walla & Corvallis.

Slide #14 – Noteworthy Changes

Monica explained that CNG will work with Shawn Collins on low income efficiency programs.

Question: What is the "incremental cost"?
Answer: This is the difference between the costs involved to install standard appliances as compared to high efficiency appliances. The difference is the incremental cost.

- Monica explained that conservation will be pushing the 30% and 50% incentive levels in 2017 to get new customers. The Commercial & Industrial will be a mix of 30% & 50 % incentive levels too.

Question: How do you determine which goes in 30% or 50% incentive level buckets?
Answer: The TEA-Pot model calculates this, breaking down the customer benefit by climate zone.

- Monica mentioned these programs are cost effective on a portfolio level.

Question: What level is the Executive Summary going to?
Answer: Climate Zone level

Question: Are there any custom projects included?
Answer: No, custom projects take about 2 years to complete, so not included here.

There was a brief discussion of the Conservation Advisory Group. Monica says they attend 4 times per year and talk about changes in programs, evaluation of financing options and any "issues" associated with programs.

Presentation #2 – Bruce Folsom

IRP Carbon Assumptions

Slide #33 – The National Focus

- Bruce explains that the Clean Air Act, section 111(d) has changed the reduction of greenhouse gas emissions from power plants to 32% from 30% by 2030. States can comply by rate or mass based reductions.
- Regionally, the NWPPC released a CO2 discussion, analysis and scenarios in May of 2016 having to do with the electric industry. Regionally, there is a proposed cap and trade program as well.
- Washington State is very active as the governor has proposed carbon regulation. All emitters are on a rolling baseline from which reductions need to come. Department of Ecology rules will probably be pulled into states' implementation plans.
- Initiative 732 changes carbon taxes, but the labor and utilities groups are not supporting it.

- Environmental communities have an "initiative" in process.
- In Oregon there are a host of proposals for Legislature. The electric industry is behind "Coal to Clean" law. Northwest NG carbon program has an impact to CNG because of the fugitive methane pilot program. It would be cost effective for CNG to follow this program because methane may have a high impact on CO_2 emissions.

Slide #38 – Types of CO2 Adder Analyses

- The NWPPC summarizes 8 approaches. There are 39 more additional methodologies and 4 additional scenarios, along with 4 sensitivity analyses. The focus here is again on electricity.
- There was a brief discussion of the Snake River Dams proposed removal.

Slide #40 – Fugitive Methane Emissions

- Initially, studies show this could be as much as 10% but concluded with only 1% impact. The council discussed this and there is a great deal of uncertainty as to whether it, compared to CO2 is under or over stated. The Natural Gas (NG) industry is focused on R&D. Bruce stated the NG industry is ahead of the Electric industry on this matter!
- Mike Parvinen stated that CNG is around 1%, but that the East Coast runs higher.
- CNG is currently engaged in conservation & energy efficiency programs that save customers $ and reduce emissions. The more an LDC pushes gas, the better!

Slide #43 – Proposed Direction

There was some discussion regarding NG being considered a monopoly.

- Mike Parvinen pointed out that when you advertise and compare electricity to gas you get the option to choose gas over electricity…and since electricity is already there we do compete and NG is the "alternative choice".
- Ed Finklea from the phone said that if you incentivize users to get NG then are penalized for emissions is an "unintended consequence" of encouraging NG use! This is counterintuitive… to penalize fossil fuels no matter how efficiently they are used!

Question: What is the metering accuracy requirement?
Answer: Accuracy requirement is +-2%

Presentation #3 – Mark Sellers-Vaughn
Market Outlook and Long Range Price Forecast

Slide #47 - Market Outlook

- Mark stated that the US Economy is "sluggish" right now!
- 54% capacity in Washington and 44% in Oregon
- CO_2 emissions are an issue – the impact is higher gas costs.
- Storage is high, above the 5 year average!

Slide #48 – Long Range Forecast

- This forecast blends current market prices with long-term fundamental prices.
- This forecast uses resources from Wood Mac, NWPPC, EIA, Bentek, FF Center, and various market reports from suppliers (TD, BP, Powerex).

Slide #53 – Long Range Price Forecast

- The long range price forecast includes a 20-year planning horizon, prices look reasonable!
- Mike Parvinen added to the conversation saying 2037 is a realistic price, inflation puts it higher and any event could change the price.

- Mark said that they anticipate demographic increases but we are already over-supplied. We use a conservative approach!

Presentation #4 – Bruce Folsom
Price Elasticity Overview

Slide #56 – Piece Elasticity – Context and Import
Bruce explains that there are 3 take aways from today's presentation as follows:
1. Price Elasticity is important!
2. Precision in our industry is difficult to come by!

Slide #58 – Factors Affecting Price Elasticity
- Customer usage varies! If conservative usage then less input = useful output.
- Customers may not know the pricing outlook…i.e. confusing signals!
- Levelized billing
- Economic changes
- Building codes
- Technology
- Customer spending habits
- Fracking
- Spark/spread – now moves in tandem

Questions: Is there any evidence in the last 5 years of consumer responsibility for the dramatic decrease in prices? Is it the same on the industrial side? Are you distinguishing between CORE or Large Volume users?
Answers: Ironically, there is lower usage throughout the industry. Fuel switching could have impact. Not distinguishing between CORE and large volume users.

Slide #61 – Other Factors
- Bruce states that there hasn't been a lot of academic work on this. A utility can run many studies, but at what cost??
- David Nightingale adds that the customer may not act rationally!

Slide #63 – Price Elasticity – Conclusion
- Many complicating factors!
- Customers can use alternative fuels such as propane, firewood, electricity

Presentation #5 – Mark Sellers-Vaughn
SENDOUT Model
- Mark started the presentation by defining the SENDOUT model as a "resource Optimization model.
- It is a regional standard for the LDC's.
- It is powerful & complex but "archaic". The software is 15 years old! We are planning to move to a new platform in 2 to 3 years.
- SENDOUT uses a Linear approach
- It is a "tool" to help inform and shape it is **NOT** a final decision maker!

Slide #70 – Major Resource Issues on the Horizon
- Alternative resource issues
- AECO – issue because NOVA has a CAP and could become a receipt issue.
- Ryckman Creek (OPAL/Wyoming area) resource is reasonably priced but there are reliability concerns!

Question: Mark Sellers Vaughn asks Bob Morman on the phone, are we within 2 to 3 years in getting biofuels?
Answer: Bob said they are working on getting one in place, could happen any time.

Slide #71 – Considerations

- "Pancake" – Rate stacking for example…AECO moves to Foothills, then to GTN pipeline, then to NWP, each has their own rate, called rate "Pancaking" or resource stacking.
- Some considerations are factors & numbers that are "stress tested" with the Monte Carlo.

Slide #73 – Supply Side Alternatives Modeled

- Incremental Storage – Ryckman or Mist

Question: What is the medium contract length?
Answer: Medium is 3 to 5 years. Right now CNG cannot do anything farther out than 3 years but there are discussions about that with Senior Management.

Question: Mark asks WUTC if this should be displayed in narrative or appendix?
Answer: David said he will consult with the others first.

Slide #83 – 2016 IRP Timeline

- TAG #4 will be Distribution System Planning. There will be a few days to look over this presentation. This meeting will be at SeaTac Conference Center (SeaTac)
- TAG #5 is Oct 7th.
- The Draft IRP will be done on 10/17 and you will have 3 weeks for comments.
- Reminder… this is a very aggressive schedule.
- Nov 23rd the IRP goes to press.
- Dec 14 it is filed in Washington.

Mark said his group is trying to make the IRP concise, but the details will be in the Appendix.

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #4

Thursday, September 15th, 2016

Seattle-Tacoma International Airport
Conference Center

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

AGENDA

- Safety and housekeeping items
- Introductions
- Cascade's New Webpage
- IRP Update
- Distribution System Planning
- SENDOUT Model
- Scenarios, Sensitivities Planned
- Avoided Costs Methodology
- 2016 IRP Timeline
- Adjournment

Cascade's New IRP Webpage

- https://www.cngc.com/rates-services/rates-tariffs/integrated-resource-plan

DISTRIBUTION SYSTEM PLANNING

CHRIS BOLTON, ENGINEER II

TECHNICAL ADVISORY GROUP

SEPTEMBER 15TH, 2016

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

OUTLINE

I. COMPANY OVERVIEW

II. NETWORK DESIGN FUNDAMENTALS

III. INTERSTATE PIPELINE COMPANIES

IV. SOFTWARE TECHNOLOGY

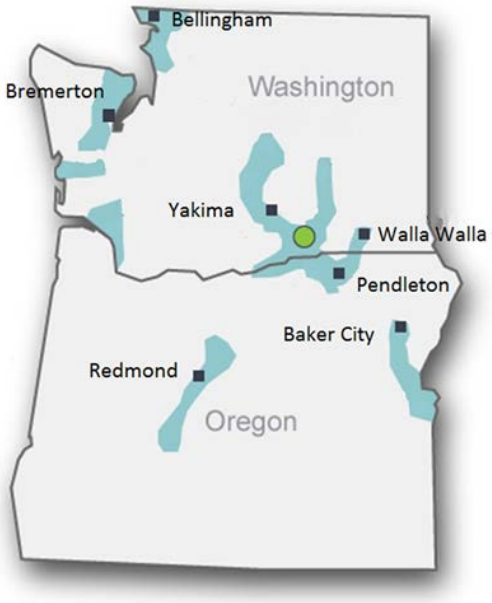
V. DATA GATHERING

VI. DATA ANALYSIS

VII. SYSTEM ENHANCEMENT TECHNIQUES

VIII. FUTURE PLANNING PROCESS FLOW

IX. FUTURE PROJECTS



CNG System Overview

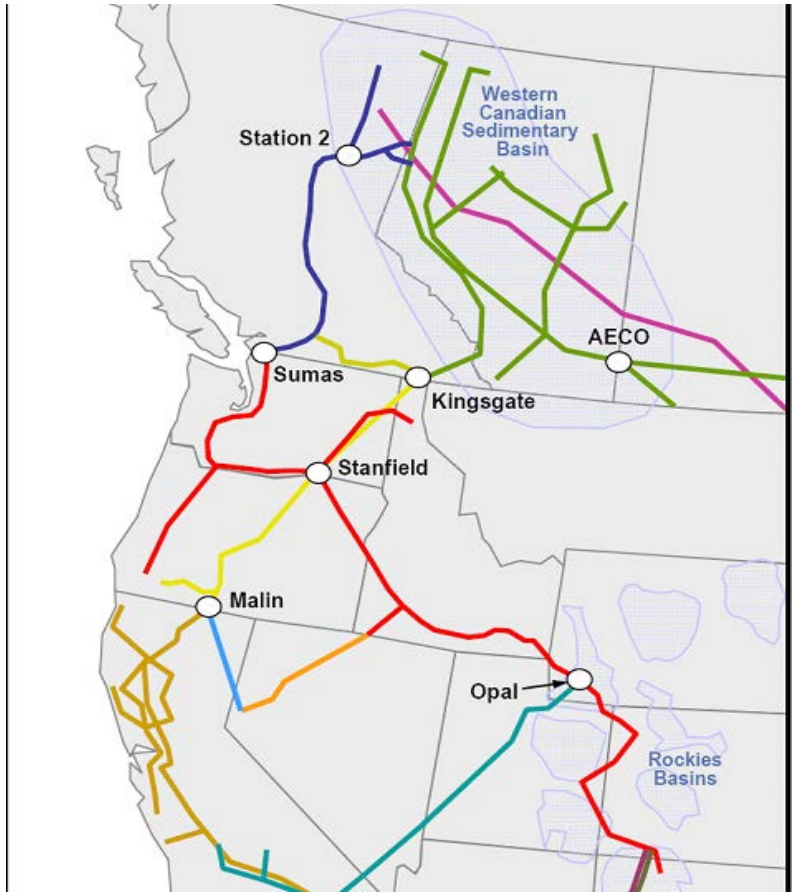
Pipeline:

- Diameter – ½” to 20”
- Material – Polyethylene and Steel
- Operating Pressure - 20 psi to 900 psi
- Washington – approx. 4,744 miles of distribution main
- Oregon – approx. 1,604 miles of distribution main

Facilities:

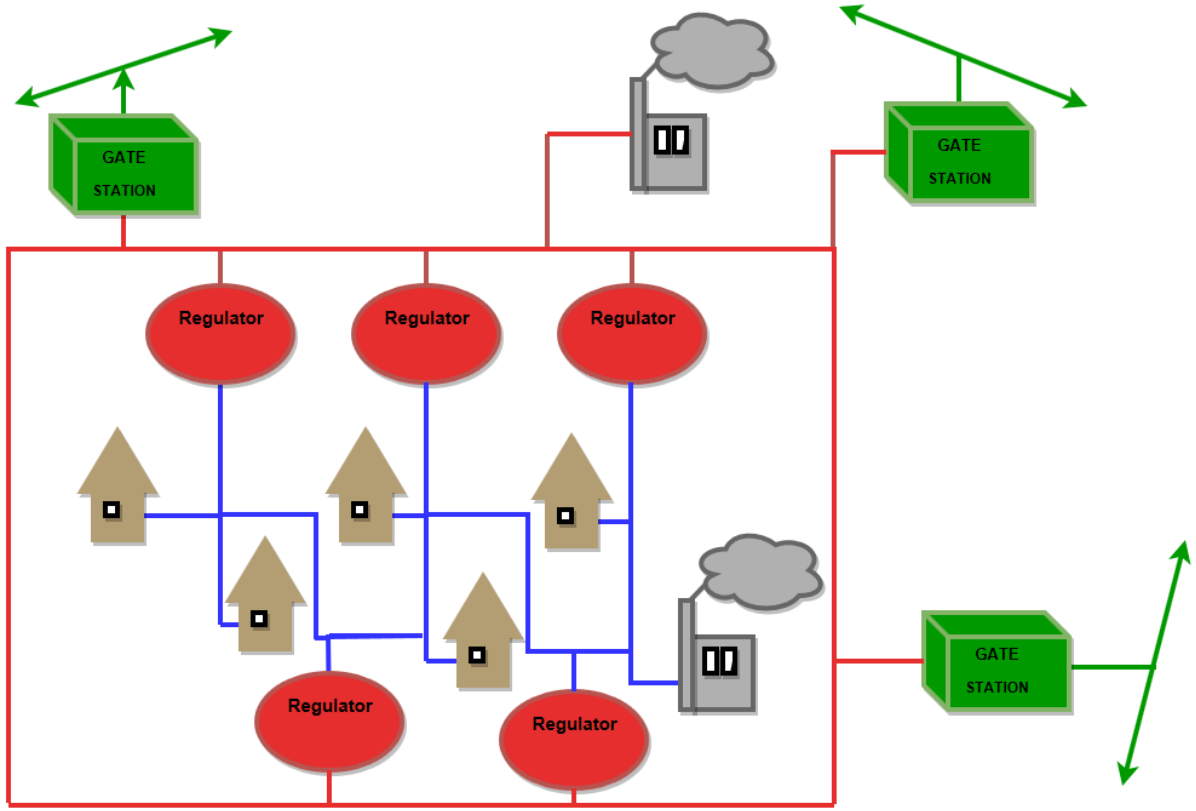
- Regulator stations – Over 700
- Valves – Over 1600
- Also other equipment such as heaters, odorizers and compressors.

Where do we get our gas?



- Many interstate pipeline companies
- Williams Northwest Pipeline (red)
- Transcanada Pipelines (yellow)

Network Design Fundamentals

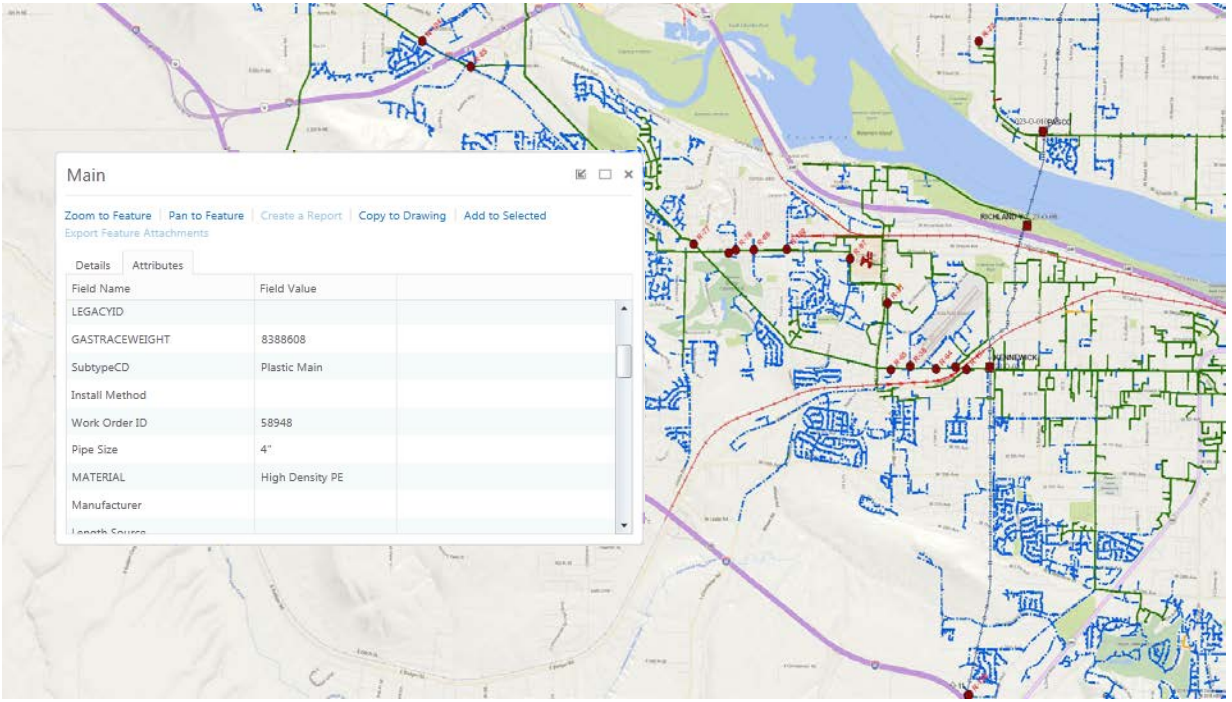


Keys:

- Gate station capacity
- Reg station placement
- Pipe size and grid

GIS – Geographic Information System

-GIS system keeps an up to date record of pipe and facilities complete with all system attributes



- Pipe Size (Dia.)
- Material
- Date of install
- Operating Pressure
- Work Order

Etc……

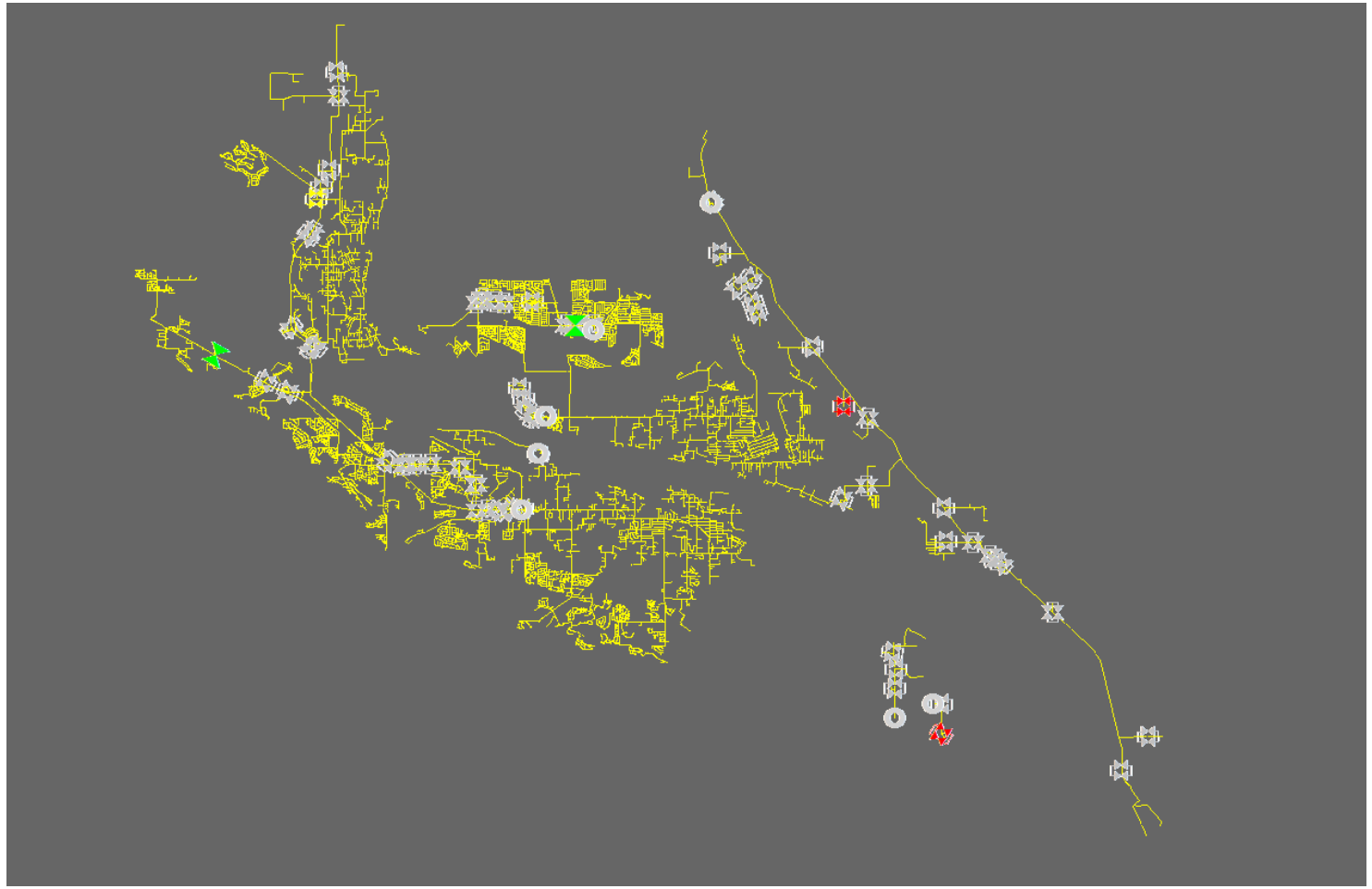
System Modeling

…Using internal GIS environment and other input data CNG is able to create system models through the software – Synergi.

What is Synergi?

- Software to theoretically model piping and facilities to represent current pressure and flow conditions while also predicting future events and growth.

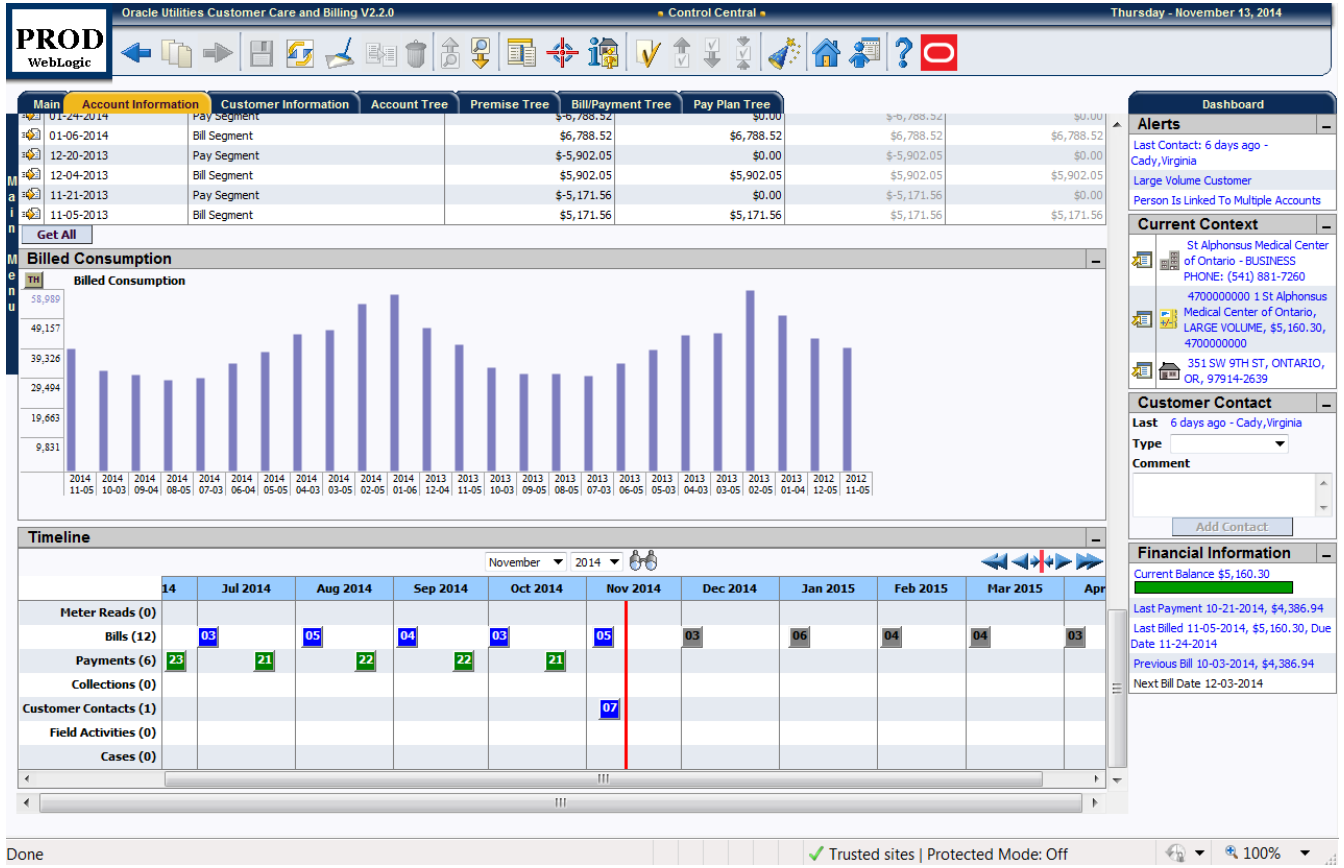
MODEL EX.



HOW DO WE MAKE THIS MODEL ACCURATE?

DATA GATHERING

- CC&B (CUSTOMER BILLING DATA)



DATA GATHERING (CONT.)

MDU SCADA View | Pressures | Usage | Odorizers | Other Systems

IGC +
CNGC −
Northwest Washington
Central Washington
Southwest Washington
Oregon
MDU +
Data Legend +

CNGC Southwest Washington Usage

The data on this page is automatically refreshed every 5 minutes. Reloading the page before the timer expires will not necessarily result in newer data.

Data View Mode

List | Grid | A-Z

Generated: 09/01/2016 04:41:40 PM PDT
Refreshed: 09/01/2016 03:48:06 PM PDT
Next Refresh: **00:04:57**

Monitored Area	Flow Rate (MCF/HR)	Previous Hour (DekaTherms)	Current Gas Day (DekaTherms)	Previous Gas Day (DekaTherms)
Puget Sound NS Run1	56.5	61	538	1652
Bremerton Gate Run1	90.5	99	906	2454
Shelton Gate Total	232.1	259	2399	5829
Mc Cleary Gate Run1	207.7	216	1837	4884
South Longview Gate Total	1620.9	1569	11624	21984
Kelso Gate Total	787.1	816	6508	15172
Kalama Gate Total	199.8	225	1914	5435
Co Gen Run1	0.0	0	0	0
Fibre Mill Run1	448.4	475	4271	7952
Mint Farm Run1	1912.2	1923	13754	28647

- SCADA DATA : REAL TIME AND HISTORICAL FLOW CHARACTERISTICS AT SPECIFIC LOCATIONS IN THE SYSTEM.

DATA GATHERING (CONT.)

➢ IRP CUSTOMER GROWTH

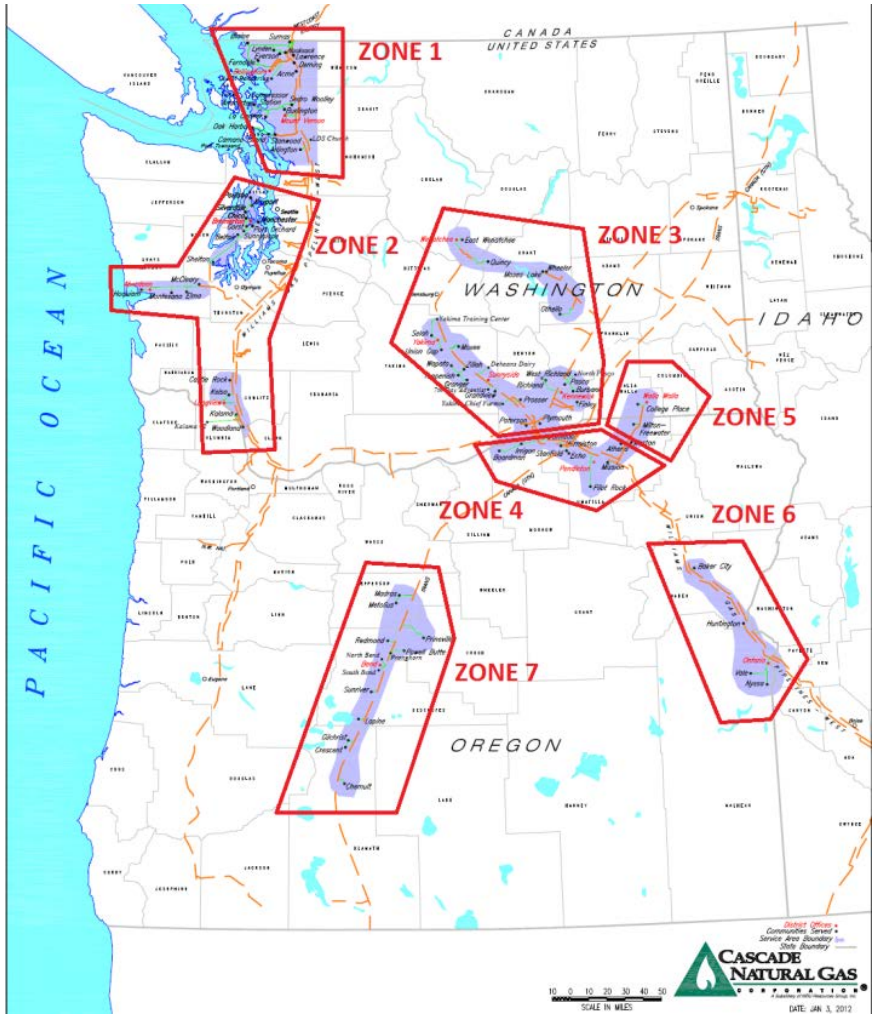
WASHINGTON											
YEAR	MCCLEARY (ABERDEEN/HOQUIAM)	ACME	ARLINGTON	BREMERTON (SHELTON)	CASTLE ROCK	WALLA WALLA	DEMING	WENATCHEE	FINLEY	GRANDVIEW	ZILLAH (TOPPENISH)
2017	0.6%	1.4%	1.3%	1.2%	1.1%	0.7%	1.7%	1.4%	1.9%	0.8%	0.8%
2018	0.6%	1.4%	1.3%	1.2%	1.1%	0.7%	1.7%	1.3%	1.9%	0.8%	0.8%
2019	0.6%	1.4%	1.3%	1.2%	1.0%	0.7%	1.7%	1.3%	1.9%	0.8%	0.8%
2020	0.6%	1.3%	1.3%	1.2%	1.0%	0.7%	1.7%	1.3%	1.8%	0.8%	0.8%
2021	0.6%	1.3%	1.3%	1.2%	1.0%	0.7%	1.7%	1.3%	1.8%	0.7%	0.8%
2022	0.6%	1.3%	1.2%	1.2%	1.0%	0.7%	1.7%	1.2%	1.8%	0.7%	0.8%
2023	0.6%	1.3%	1.2%	1.2%	1.0%	0.7%	1.7%	1.2%	1.8%	0.7%	0.8%
2024	0.6%	1.3%	1.2%	1.2%	0.9%	0.7%	1.7%	1.2%	1.8%	0.7%	0.7%
2025	0.5%	1.3%	1.2%	1.2%	0.9%	0.6%	1.7%	1.2%	1.7%	0.7%	0.7%
2026	0.5%	1.3%	1.2%	1.1%	0.9%	0.6%	1.7%	1.2%	1.7%	0.7%	0.7%
2027	0.5%	1.3%	1.2%	1.1%	0.9%	0.6%	1.7%	1.2%	1.7%	0.7%	0.7%
2028	0.5%	1.3%	1.2%	1.1%	0.9%	0.6%	1.7%	1.2%	1.7%	0.7%	0.7%
2029	0.5%	1.3%	1.2%	1.1%	0.9%	0.6%	1.7%	1.2%	1.7%	0.7%	0.7%
2030	0.5%	1.3%	1.2%	1.1%	0.9%	0.6%	1.6%	1.2%	1.7%	0.7%	0.7%
2031	0.5%	1.2%	1.2%	1.1%	0.9%	0.6%	1.6%	1.1%	1.6%	0.6%	0.7%
2032	0.5%	1.2%	1.1%	1.1%	0.8%	0.5%	1.6%	1.1%	1.6%	0.6%	0.6%
2033	0.4%	1.2%	1.1%	1.1%	0.8%	0.5%	1.6%	1.1%	1.6%	0.6%	0.6%
2034	0.4%	1.2%	1.1%	1.0%	0.8%	0.5%	1.6%	1.1%	1.6%	0.6%	0.6%
2035	0.4%	1.2%	1.1%	1.0%	0.8%	0.5%	1.5%	1.1%	1.5%	0.5%	0.6%
2036	0.4%	1.2%	1.1%	1.0%	0.8%	0.4%	1.5%	1.0%	1.5%	0.5%	0.5%
Average Annual Growth	0.5%	1.3%	1.2%	1.1%	0.9%	0.6%	1.6%	1.2%	1.7%	0.7%	0.7%

Data Gathering (cont.)

- Peak Heating Degree Day (HDD) in the CNG different weather zones
- Uses historical weather data to determine which degree day matches which zone.

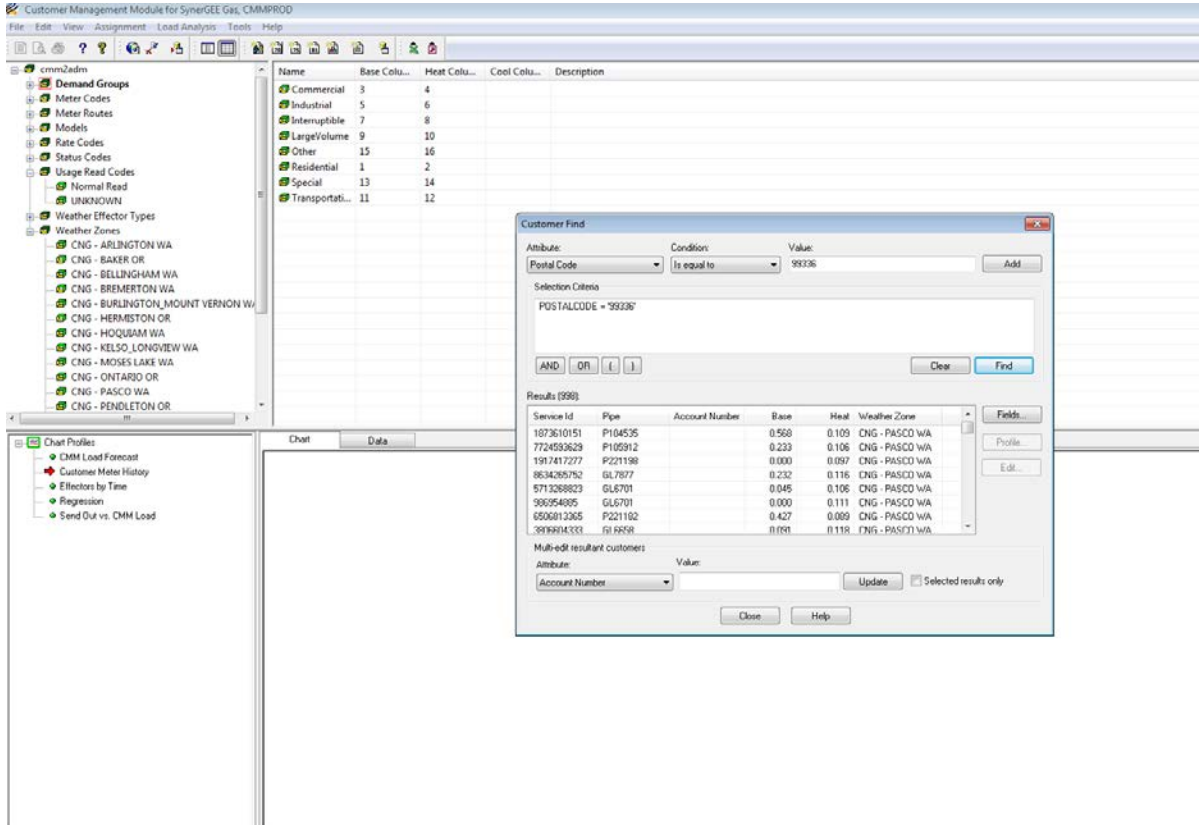
$$HDD = 60 - \frac{day\max + day\ min}{2}$$

CNG Weather Zones



System Peak Day	12/21/90
System Peak HDD	56
Zone 1	46
Zone 2	46
Zone 3	58
Zone 4	67
Zone 5	65
Zone 6	70.5
Zone 7	70.5

Customer Management Module (CMM)



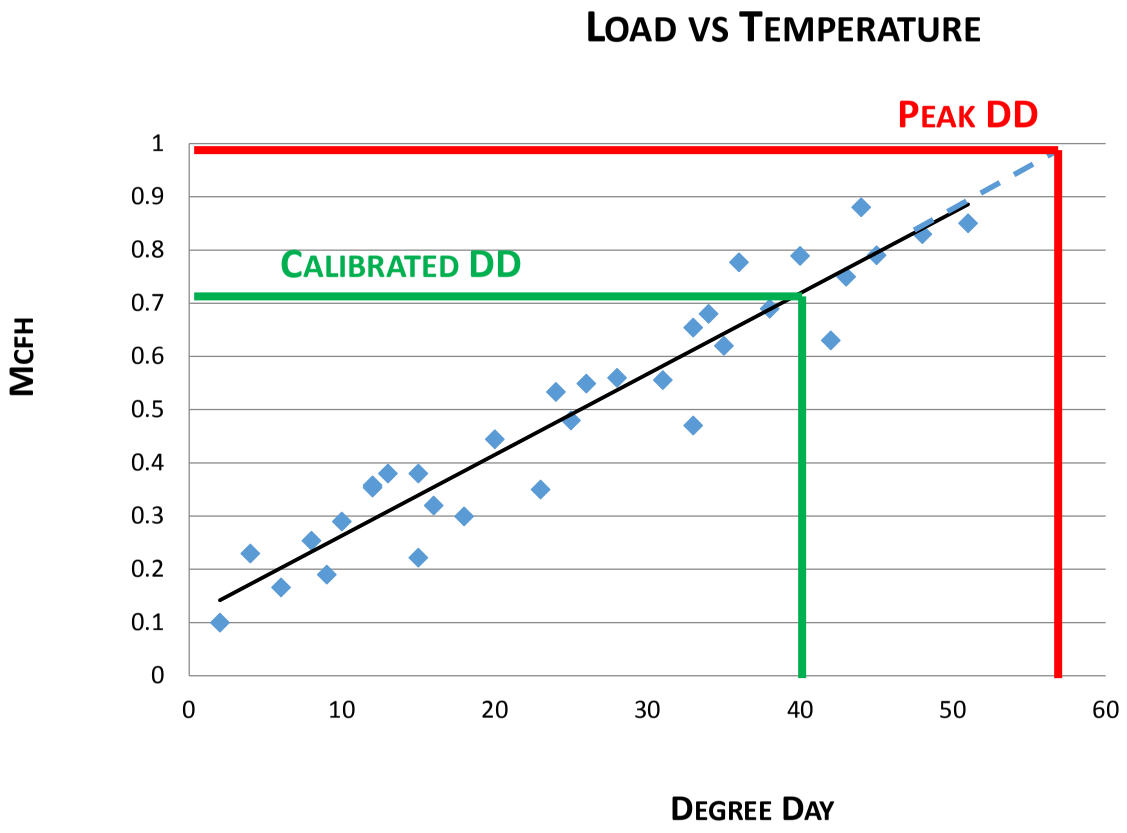
- Software that compiles data from CC&B, HDD, and/or growth studies to manage customer loads.
- Works directly with Synergi to input customer data and represent pressures and flows in the model.

CMM → SYNERGI

- CONVERSION CAN RESULT IN 3 MODEL TYPES:
  - CALIBRATED MODEL – MODEL TO REPRESENT A SPECIFIC DATE AND TIME.
  - DESIGN DAY MODEL – USES THE PEAK HDD FOR SELECTED AREAS TO SIMULATE A COLD WEATHER (WORST CASE SCENARIO).
  - GROWTH MODEL - USES DESIGN DAY MODEL ALONG WITH GROWTH DATA TO PREDICT FUTURE PROJECTS.

Calibrated vs Degree Day

- Different loads will be applied to each customer



y = 0.0152x + 0.1118

HEAT BASE

40 DD = 0.72 MCFH

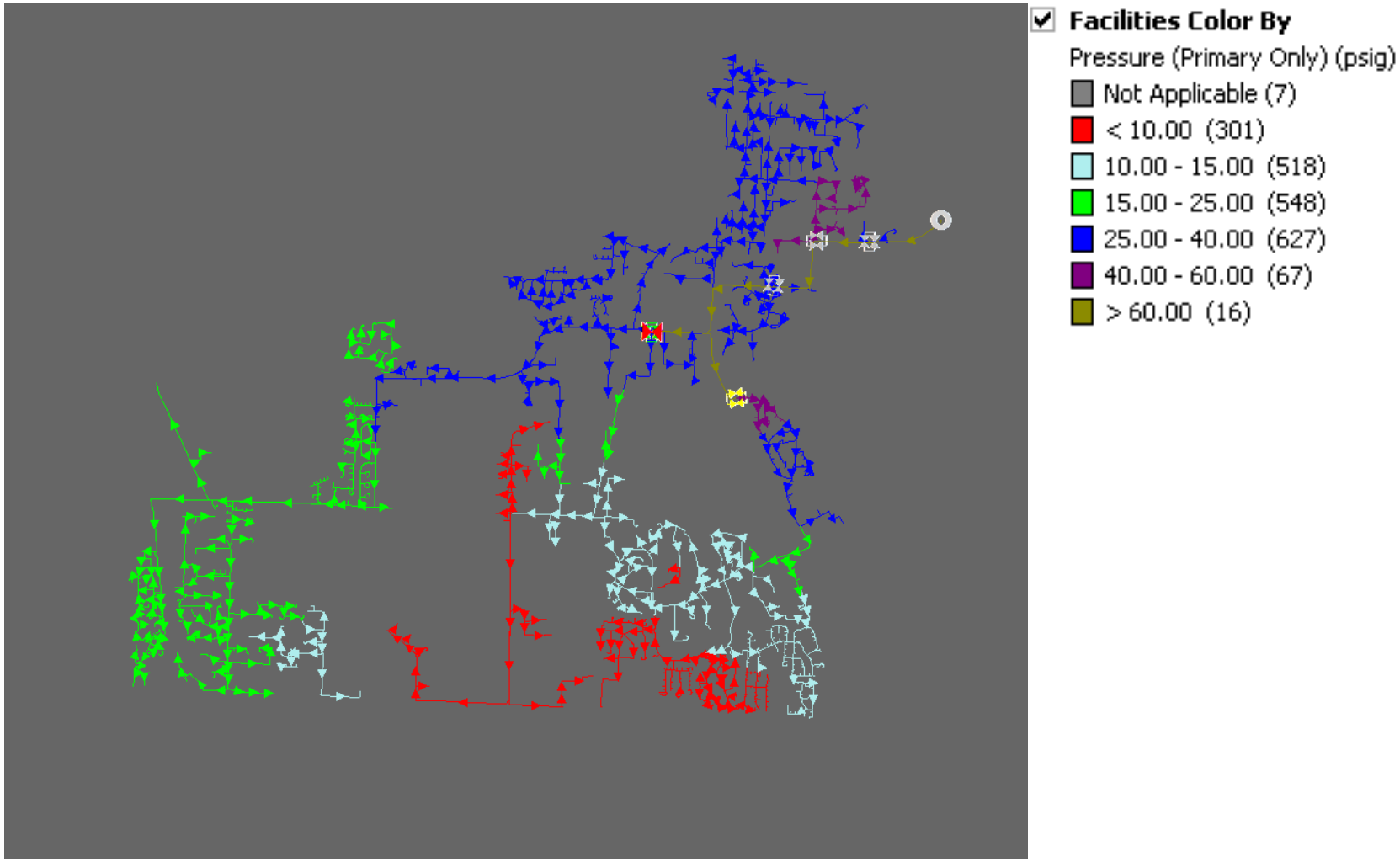
58 DD = 0.99 MCFH

System Modeling (cont.)

- All customers are loaded based upon base and heat trend.
- Growth model – works with design day model and customer growth numbers to simulate pressures and flows in the future.
- Benefits of the models:
  - customer requests
  - future planning
  - system reliability
  - optimizing potential reinforcement

SYNERGI

- THEORETICAL LOW PRESSURE SCENARIO



Capacity Enhancement Options

- Pipes:
  - replacements
  - reinforcements
  - loops
- Regulator Stations
- Compressors

Pipe Enhancements

Pros

- Reliable capacity
- Low maintenance
- Permanent

Cons

- Can be expensive
- Potential land acquisition/permitting issues

Reg Station Upgrades/Installs

Pros

- Adds source pressure to alternate system location
- Increases flow control
- Increases pressure control

Cons

- Long term regulator and valve maintenance
- High installation/fabrication costs
- Potential land acquisition issues

Compressor Stations

Pros

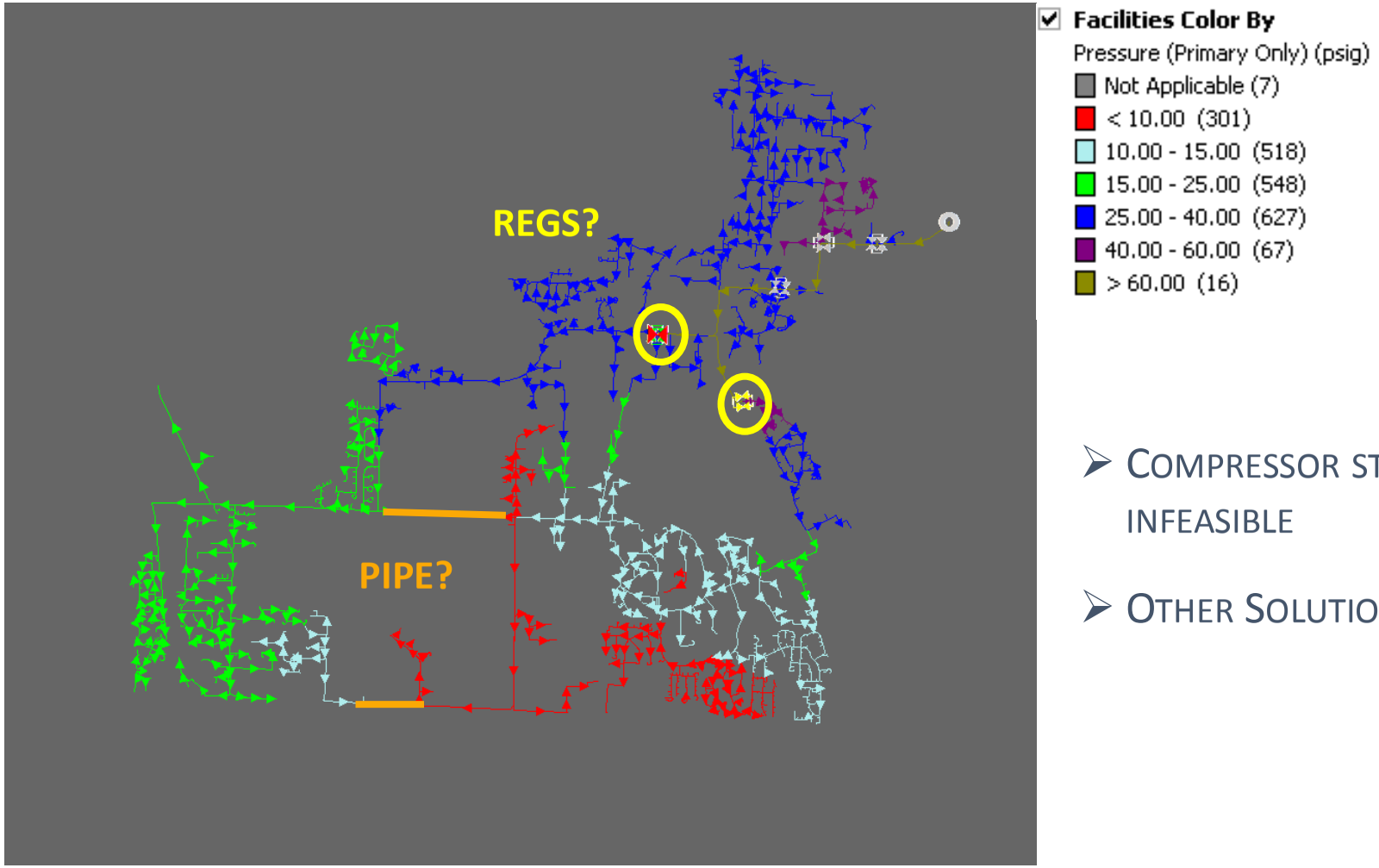
- Adding capacity at lower initial cost
- Less land required
- Situational operation

Cons

- Continuous maintenance/training
- Cost of fuel consumption
- Emissions/permitting
- Beneficial only on transmission type lines

SYNERGI

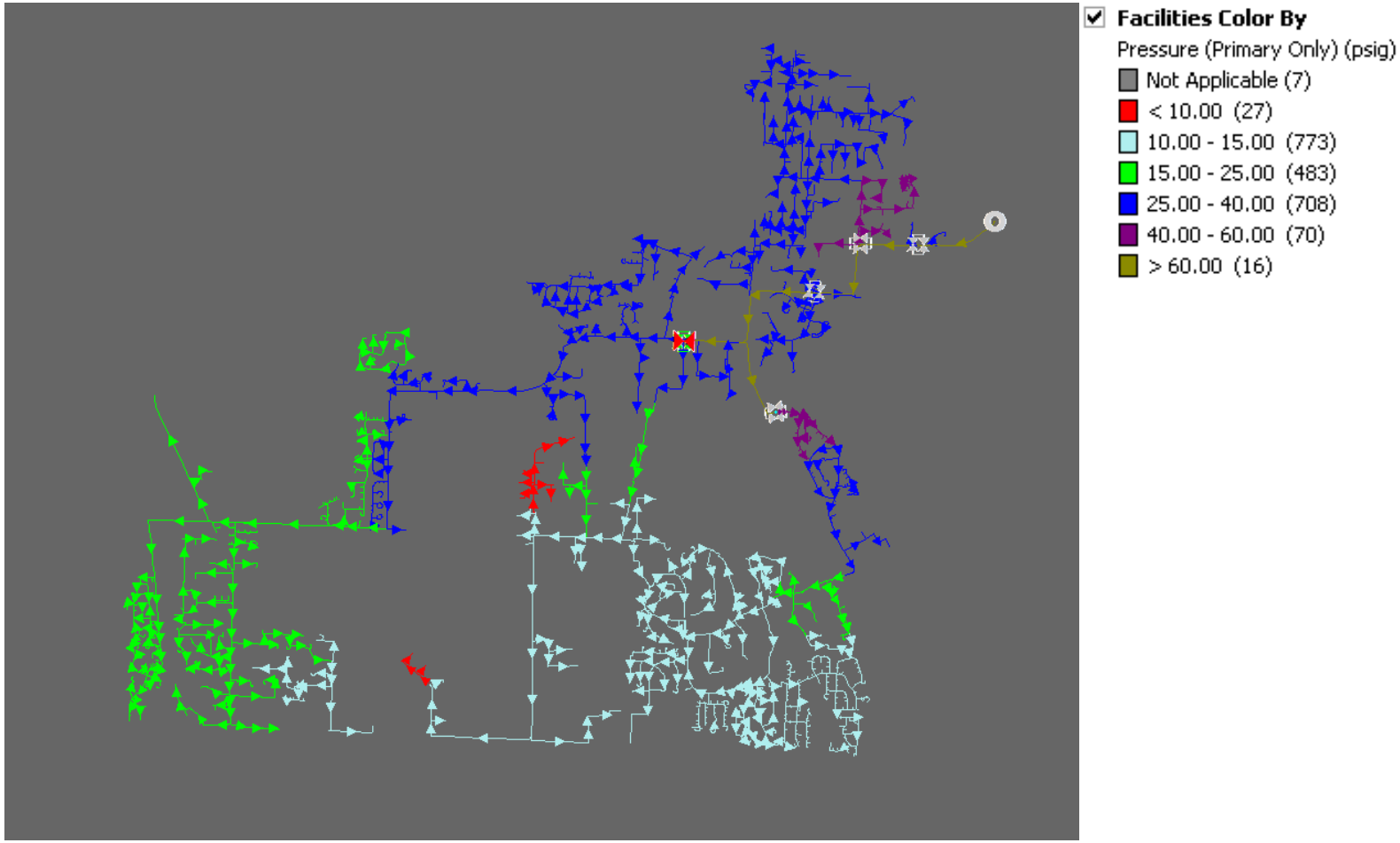
- LOW PRESSURE SCENARIO



- COMPRESSOR STATION INFEASIBLE
- OTHER SOLUTIONS?

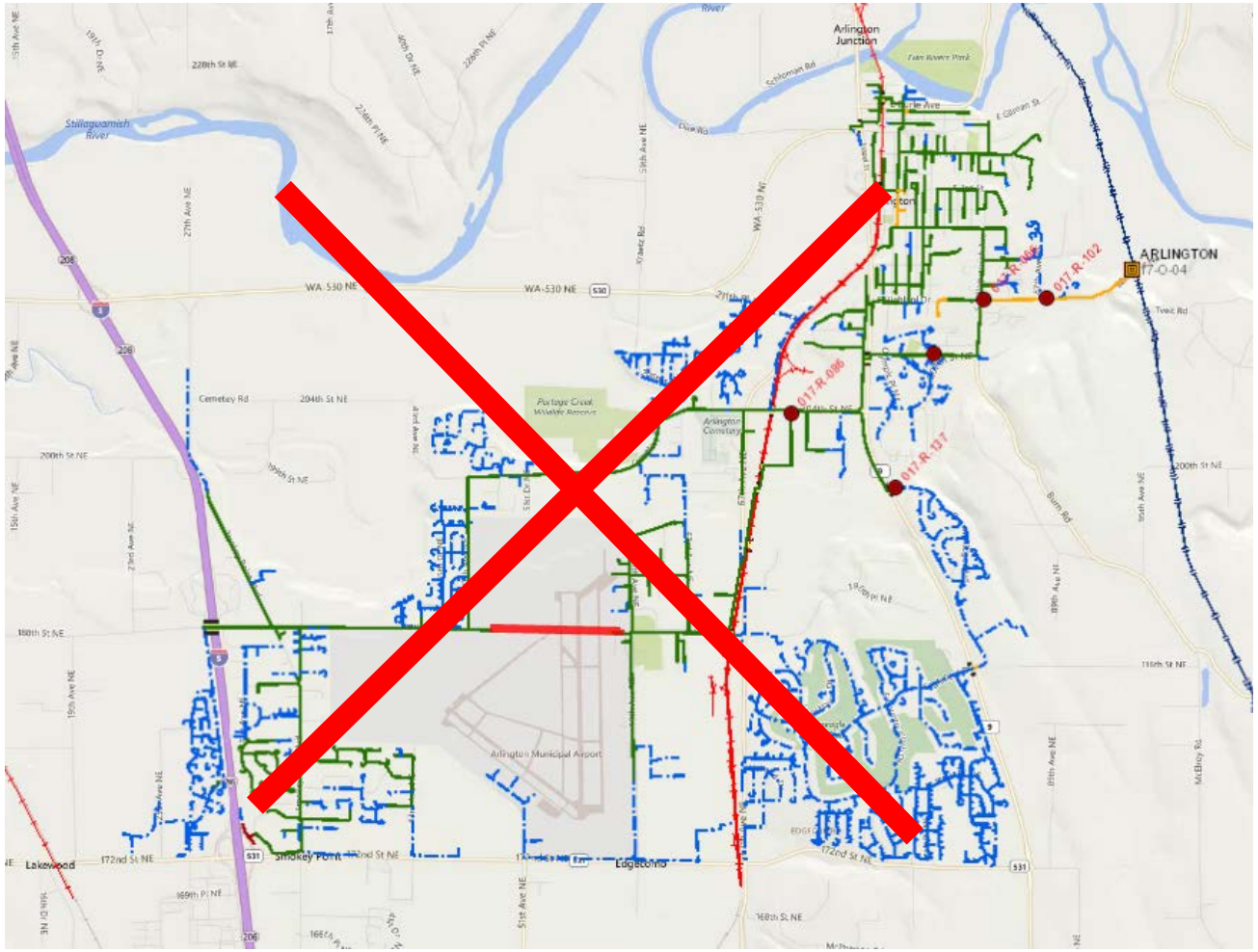
SYNERGI

- POSSIBLE SOLUTIONS – RAISING REG STATION SET POINTS



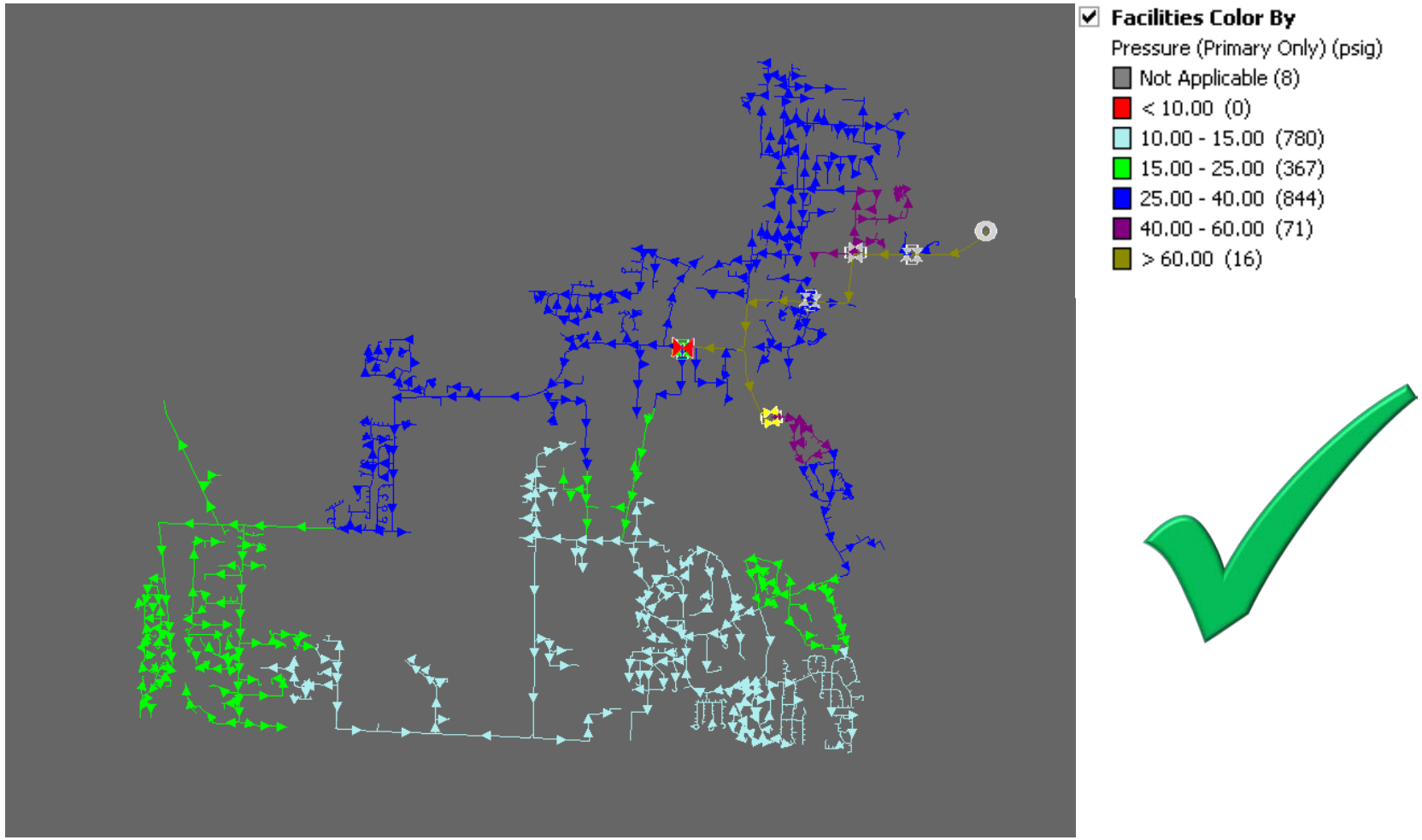
SYNERGI

- REINFORCEMENT OPTION #1

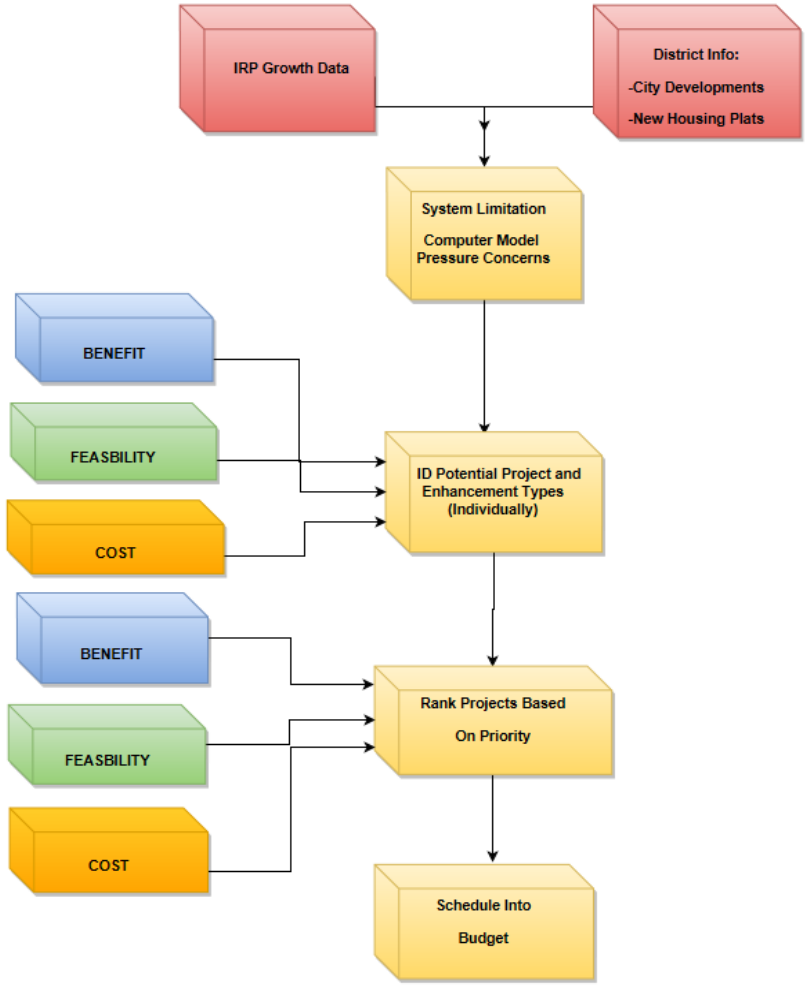


SYNERGI

- REINFORCEMENT OPTION #2



PROJECT PROCESS FLOW



INFO & DATA

PROJECT & SCHEDULES

CNG Future Projects

- Example upcoming growth projects

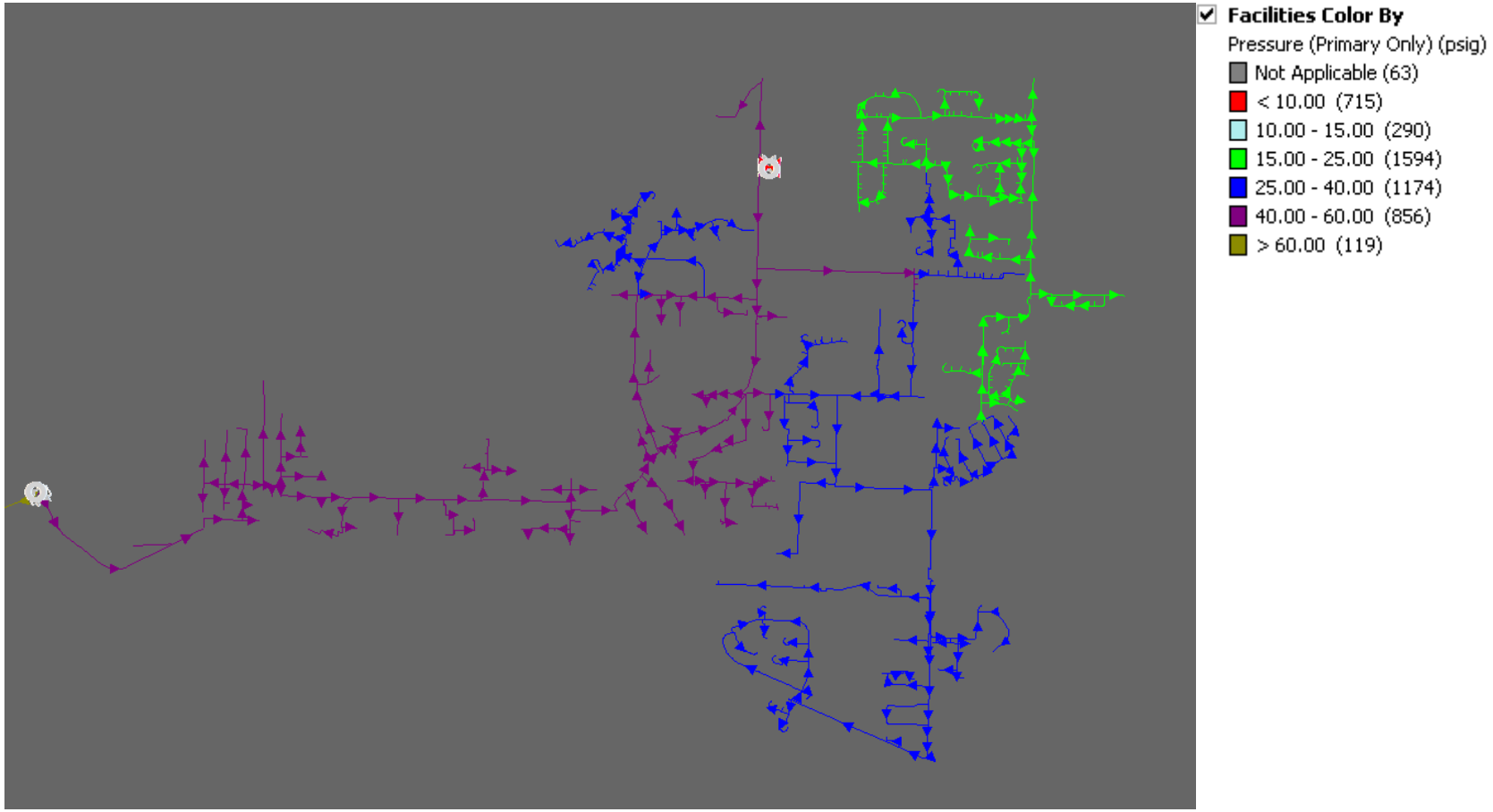
Location	2017	2018	2019
Stanwood 4” Reinforcement	$116,130		
Manchester 4” Reinforcement		$245,870	
South Walla Walla Gate & HP Line		$3,356,259	$2,190,610

STANWOOD 4” PE REINFORCEMENT

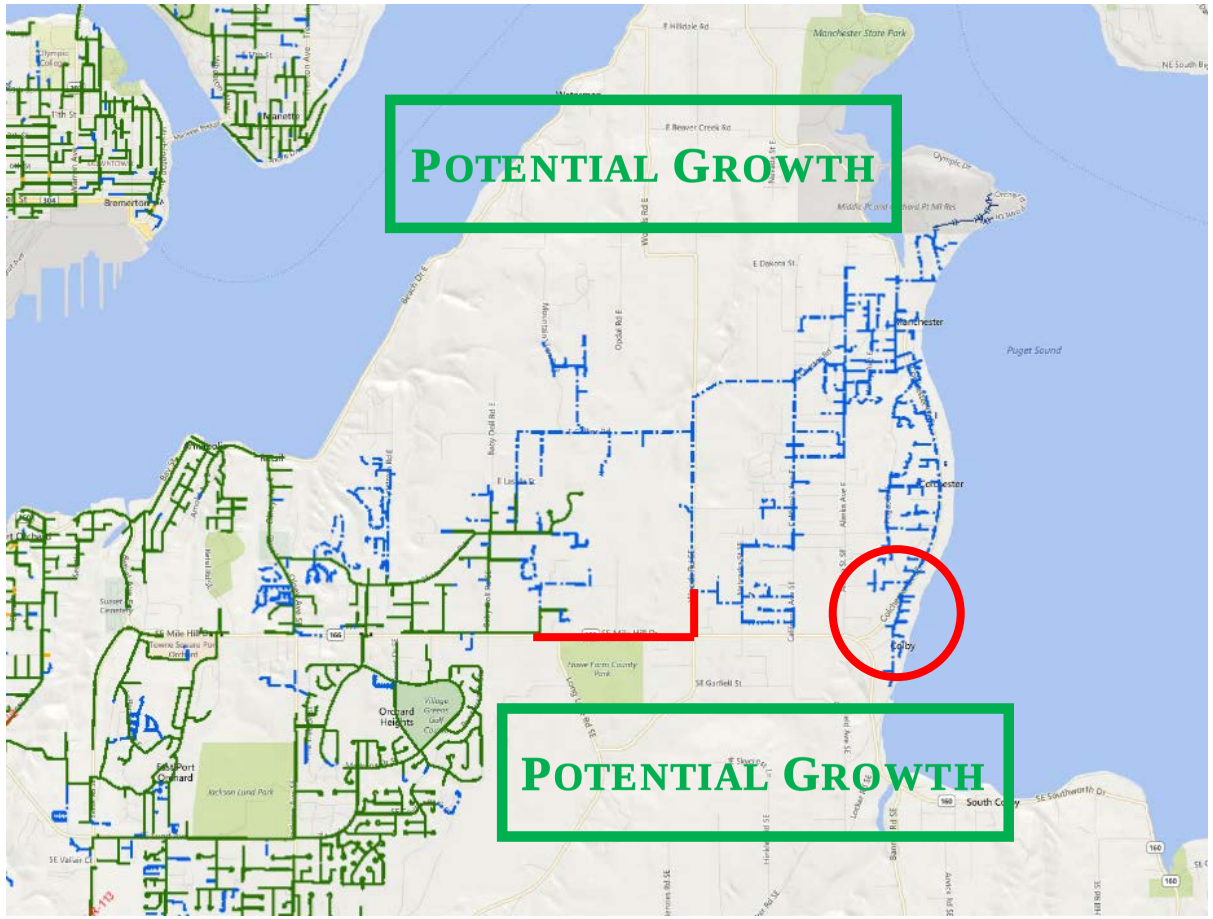
- 2017 PROJECT
- 1550’ OF 4” PE
- ANTICIPATING LOW PRESSURE
- ALLOW FOR GROWTH TO THE NORTH AND EAST

STANWOOD 4” PE REINFORCEMENT

- DESIGN DAY PRESSURE BEFORE/AFTER



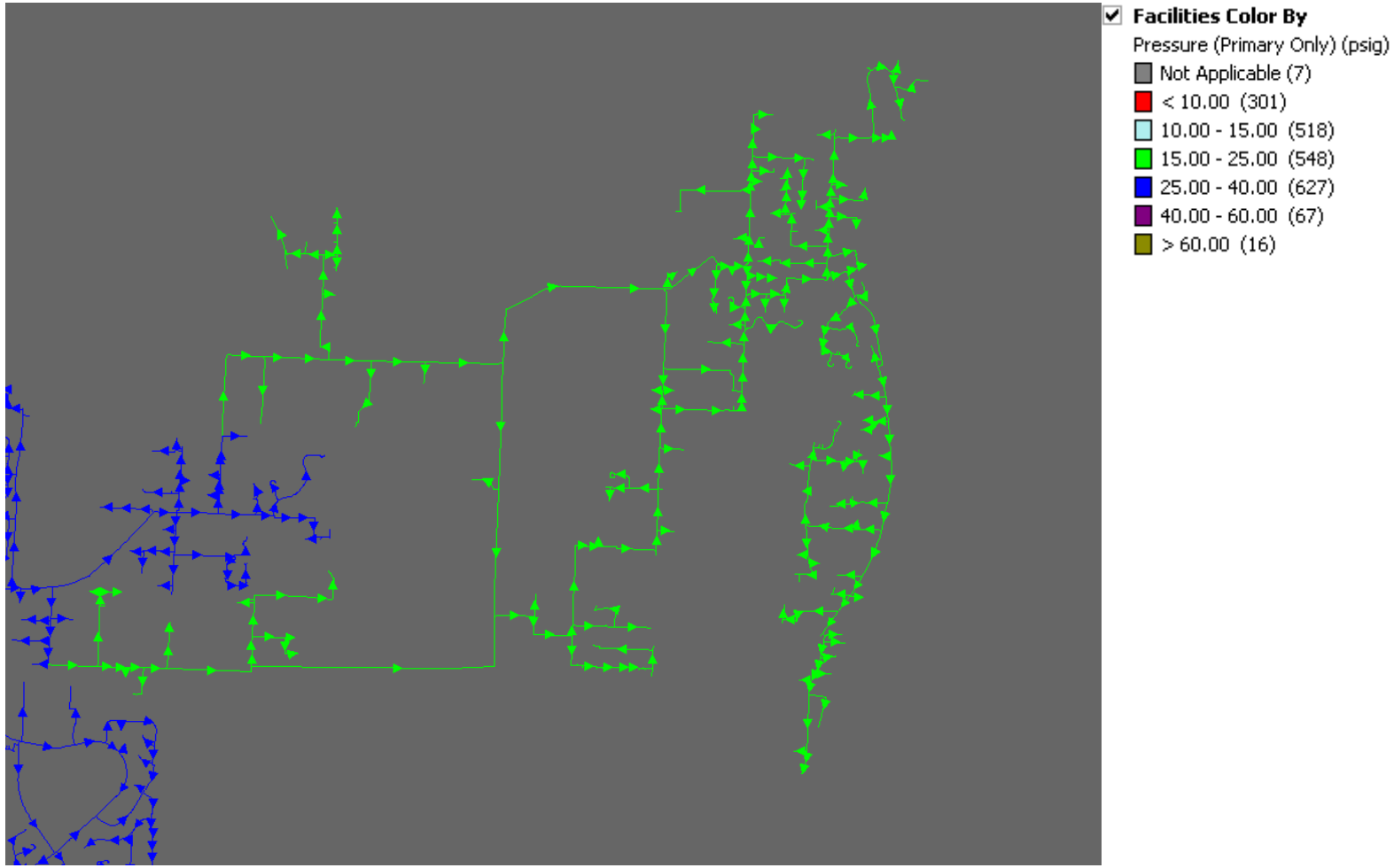
Manchester 4” PE Reinforcement



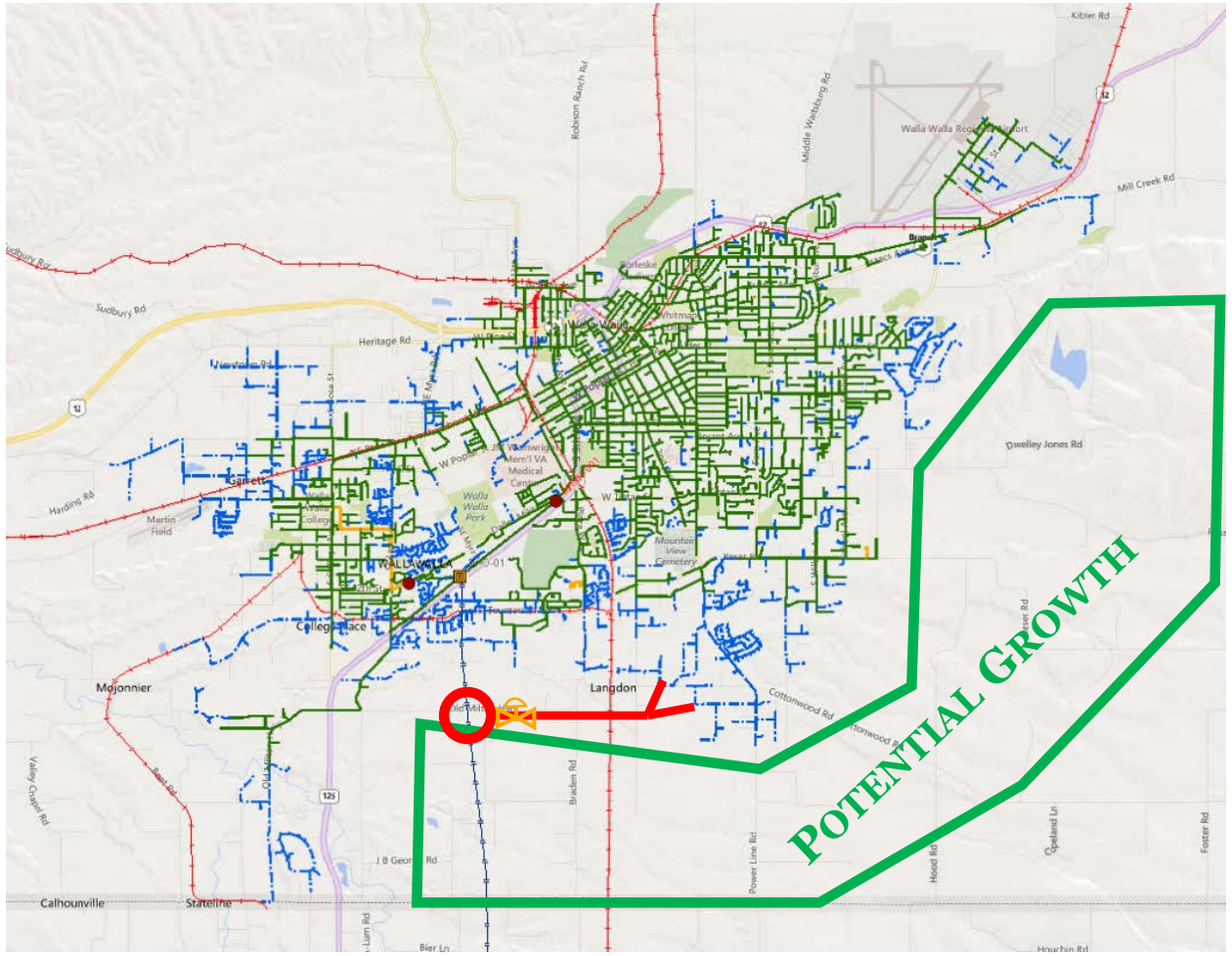
- 2018 project
- 5100’ of 4” PE
- Low pressure at the end of system
- Allow for growth to the north and east

MANCHESTER 4” PE REINFORCEMENT

- DESIGN DAY PRESSURE BEFORE/AFTER



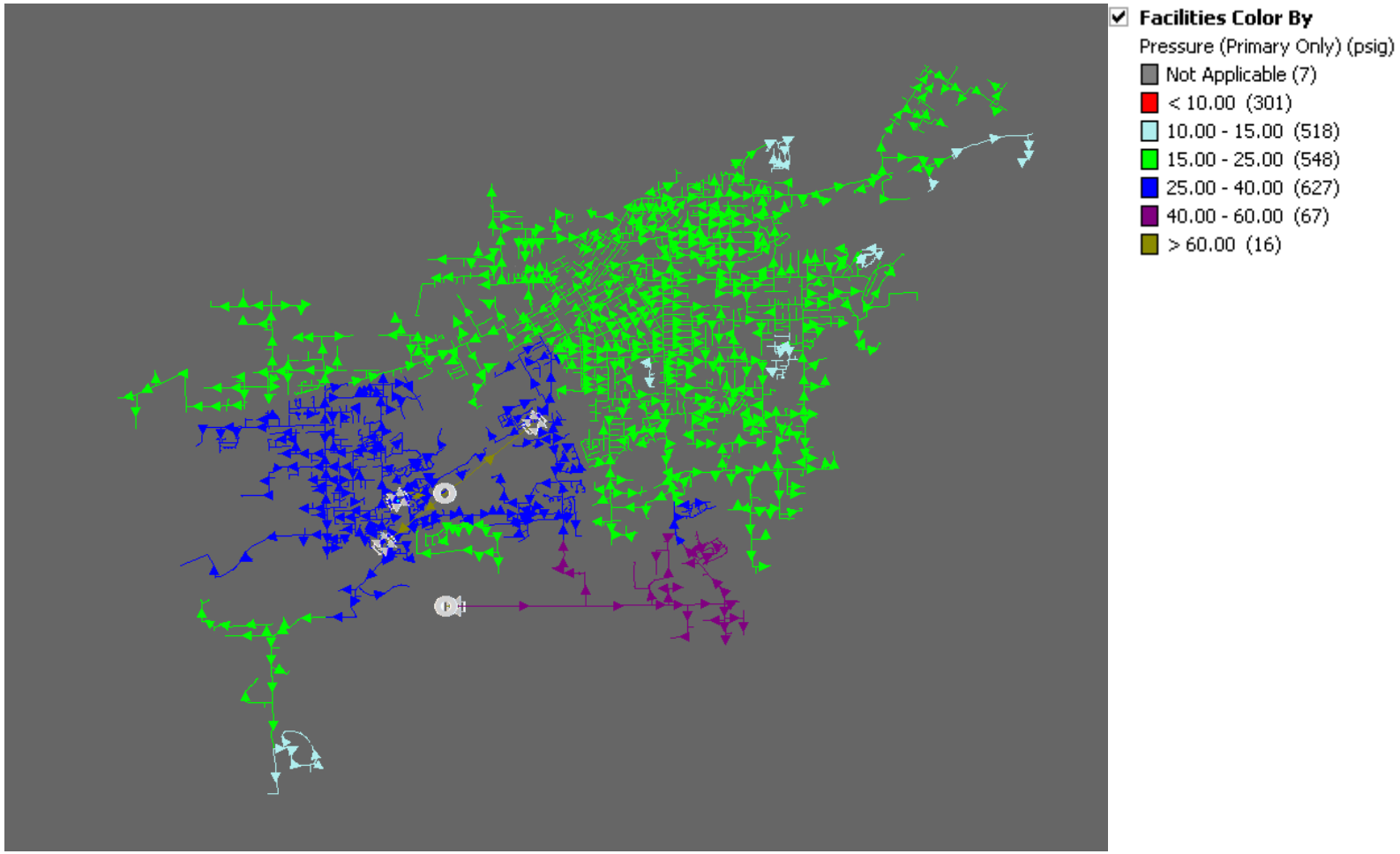
Walla Walla Gate & HP Line



- 2018 and 2019 project
- Growth noted in SE Walla Walla
- Upgrade will introduce much more capacity to the system

Walla Walla Gate & HP Line

- Model pressure before/after project



CONCLUSION

- CNGC STRIVES TO USE TECHNOLOGY TO GATHER DATA, ANALYZE, PLAN, AND DESIGN A RELIABLE, SAFE AND ECONOMICAL DISTRIBUTION SYSTEM.

¿ QUESTIONS ?

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

SENDOUT OPTIMIZATION MODELING

MARK SELLERS-VAUGHN, MANAGER RESOURCE PLANNING

BRIAN ROBERTSON, SENIOR RESOURCE PLANNING ANALYST

DEVIN MCGREAL, RESOURCE PLANNING ANALYST I

TECHNICAL ADVISORY GROUP

SEPTEMBER 15TH, 2016

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

SENDOUT model

- Cascade utilizes SENDOUT™ for resource optimization.
- This model permits the Company to develop and analyze a variety of resource portfolios to help determine the type, size, and timing of resources best matched to forecast requirements.
- SENDOUT™ is very powerful and complex. It operates by combining a series of existing and potential demand side and supply side resources and optimizes their utilization at the lowest net present cost over the entire planning period for a given demand forecast.

SENDOUT model

- SENDOUT™ utilizes a linear programming approach.
- The model knows the exact load and price for every day of the planning period based on the analyst's input and can therefore minimize costs in a way that would not be possible in the real world.
- Therefore, it is important to acknowledge that linear programming analysis provides helpful but not perfect information to guide decisions.

Modeling Transportation In SENDOUT®

IS A BALANCING ACT OF REALITY AND SUBJECTIVE APPLICATION

- Start with a point in time look at each jurisdiction's resources.
- We start with the Nov16-Oct17 PGA portfolio.
- Contracts –Receipt and Delivery Points
- We start with current transport contracts, using centralized receipts and approx. 66 delivery locations.
- Rates
- Current contractual, with CPI increase every 3 years

- Contractual vs. Operational
- Contractual can be overly restrictive.
- Operational can be overly flexible.
- Incorporating operational realities into our modeling can defer the need to acquire new resources.
- Gas Supply's job is to get gas from the supply basin to the pipeline citygate.
- IRP focus is on the core.
- Operations job is to take gas from the pipeline gate to our customers.
- Operations focus is on the system, not just the core.
- Limiting factor is receipt quantity –how much can you bring into the system?

Modeling Challenges

- Supply needs to get gas to the citygate.
- Many of our transport agreements were entered into decades ago, based on demand projections at that point in time.
- Sum of receipt quantity and aggregated delivery quantity can help identify resource deficiency depending on how you allocate the rights.
- The aggregated look can mask individual city gate issues for looped sections, and the disaggregated look can create deficiencies where they don’t exist.
- In many cases operational capacity is greater than contracted.
- SENDOUT has perfect knowledge.

Supply Resource Optimization Process

Step 1: Resource Portfolio Selection

- run an optimization that includes a peak day, a peak week, and a peak heating season for *every* year in the planning horizon for each Scenario to ensure adequate resources are held to meet peak load

Step 2: Resource Portfolio Expected Costs

- optimize each portfolio from Step 1 under normal weather in each year to determine expected PVRR of each portfolio

Step 3: Resource Portfolio Stochastic Risk Assessment

- test the robustness of the expected resource choice from Step 2 by determining the PVRR of the portfolios from the previous steps under a wide slate of future environments that represent the uncertainty of natural gas prices, weather, and resource costs

Monte Carlo Stochastic Simulation Risk Analysis

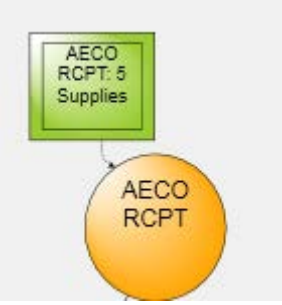
1. Two separate 100 draw simulations that need to be combined to evaluate total portfolio cost risk
2. Simulation 1: Variable Costs
   - Stochastic inputs: Gas Prices and Weather (Load)
   - After the simulation is complete (100 prices and weather futures are simulated), each portfolio is optimized (a daily dispatch cost minimization) for each of the simulation draw to determine PVRR
3. Simulation 2: Fixed Costs
   - Stochastic input: Supply resource option costs
   - After the simulation is complete and 100 different revenue requirement cost outcomes have been obtained, the total PVRR difference relative to the base case for each of the prospective resources is calculated for each simulation draw for all of the portfolios
4. Every PVRR outcome from the two simulation process is paired to determine the total portfolio PVRR for each Scenario under the same 10,000 prospective future environments

Base Case Sendout Inputs

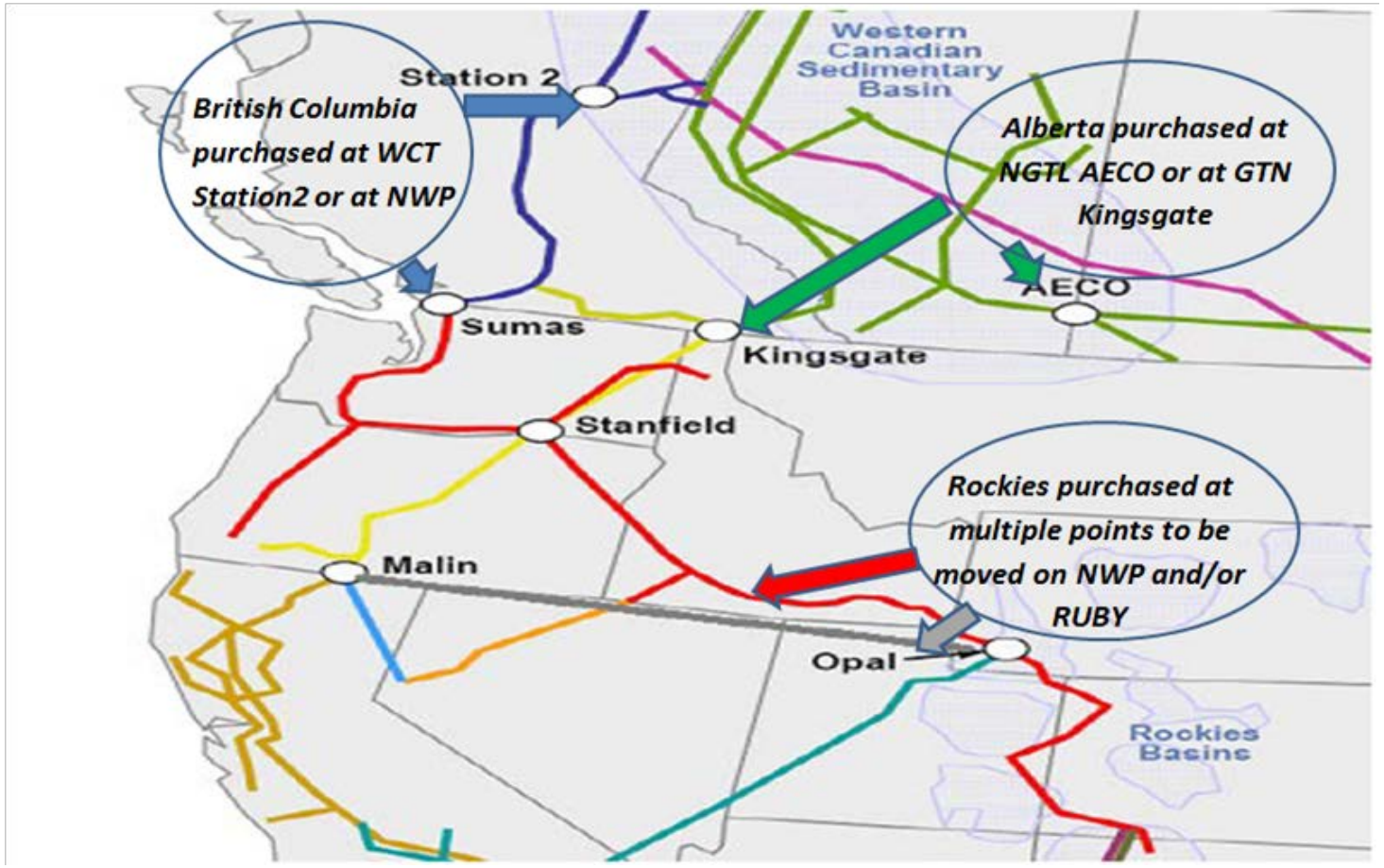
- Supply
- Storage
- Transportation
- Demand
- Price Forecast
- Weather

Supply

- Cascade can purchase gas at 3 markets; AECO, SUMAS, and OPAL.
- At each market Cascade can purchase gas at different locations along the pipeline.
- For the first year, Cascade uses all current contracts for Supply inputs.
- For years 2-20, Cascade uses Base, Fixed, Winter base, Summer and Winter day gas, and Peak day incremental supplies as inputs.
- The contracts for years 2-20 are renewed in November and April.



Supply


Western Canadian Sedimentary Basin
Station 2
British Columbia purchased at WCT Station2 or at NWP
Alberta purchased at NGTL AECO or at GTN Kingsgate
AECO
Sumas
Kingsgate
Stanfield
Rockies purchased at multiple points to be moved on NWP and/or RUBY
Malin
Opal
Rockies Basins

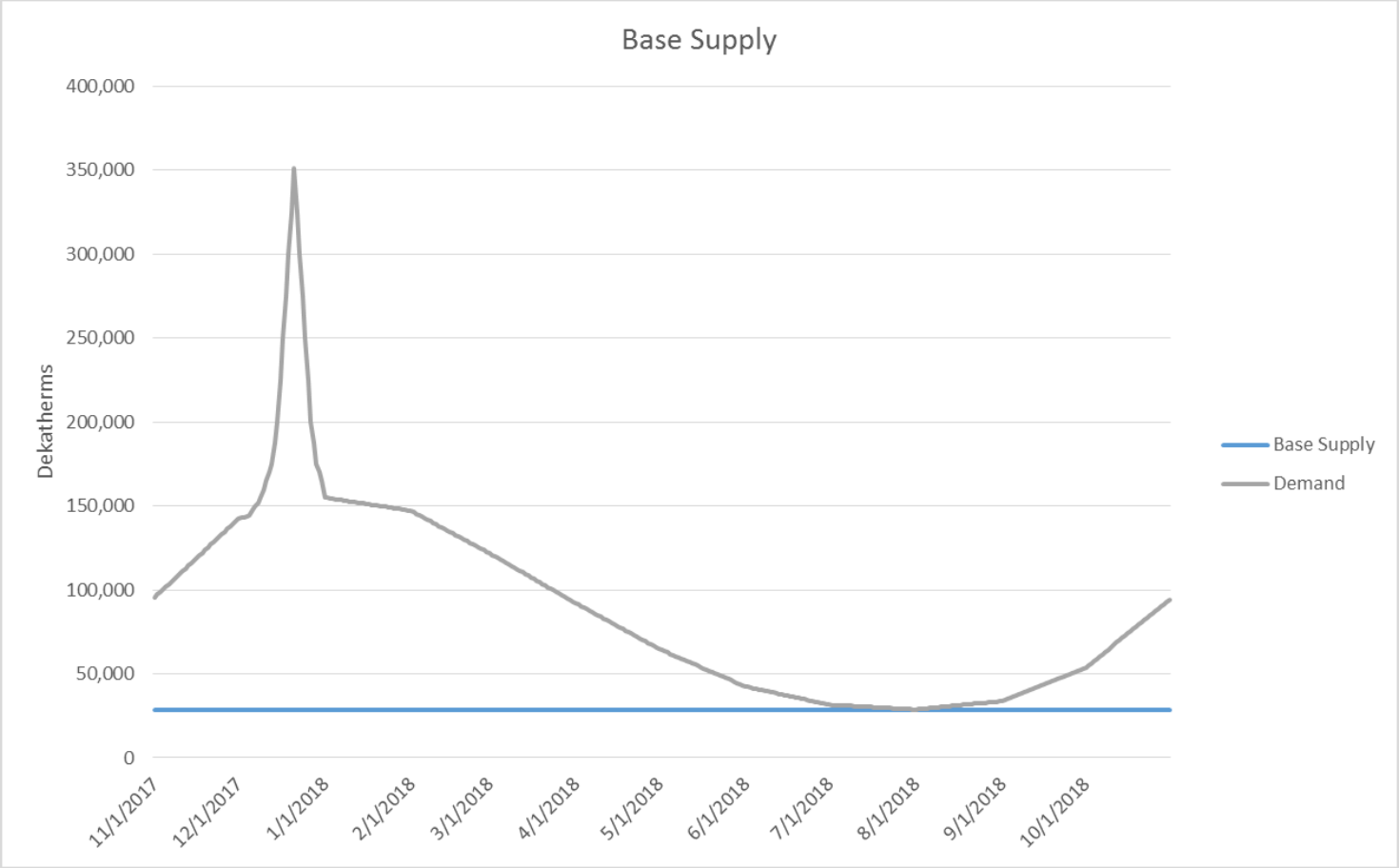
Supply Base and Fixed

- Supply Base and Fixed are the baseline supply contracts that are contracted every 12 months.
- A base contract has a basis rate. This is defined as the price of gas at a given market (ie, AECO base is the expected cost of gas at NYMEX plus the basis for AECO, for a given month).
- A fixed contract has a fixed rate.
- A penalty is applied to each contract when the contracted amount of gas is not taken for a day. This type of penalty forces these types of contracts to take the optimal amount of gas to serve the base demand.

Supply Example

	APR 2017	MAY 2017	JUN 2017
*Daily MDQ	3000	0	
*Daily Minimum Percent	100		
Annual Maximum			
Annual Minimum Percent			
Monthly Maximum			
Monthly Minimum Percent			
Seasonal Maximum			
Seasonal Minimum Percent			
Known Take			
*Rate - Commodity	4		
Rate - Dispatch			
Rate - Known Commodity Cost			
Rate - Other Variable 1			
Rate - Other Variable 2			
Rate - Penalty Annual			
Rate - Penalty Seasonal			
Rate - Penalty Monthly			
Rate - Penalty Daily	3.99		
Rate - D1			
Rate - D2			
Volume - D1 Volume			
Volume - D2 Volume			

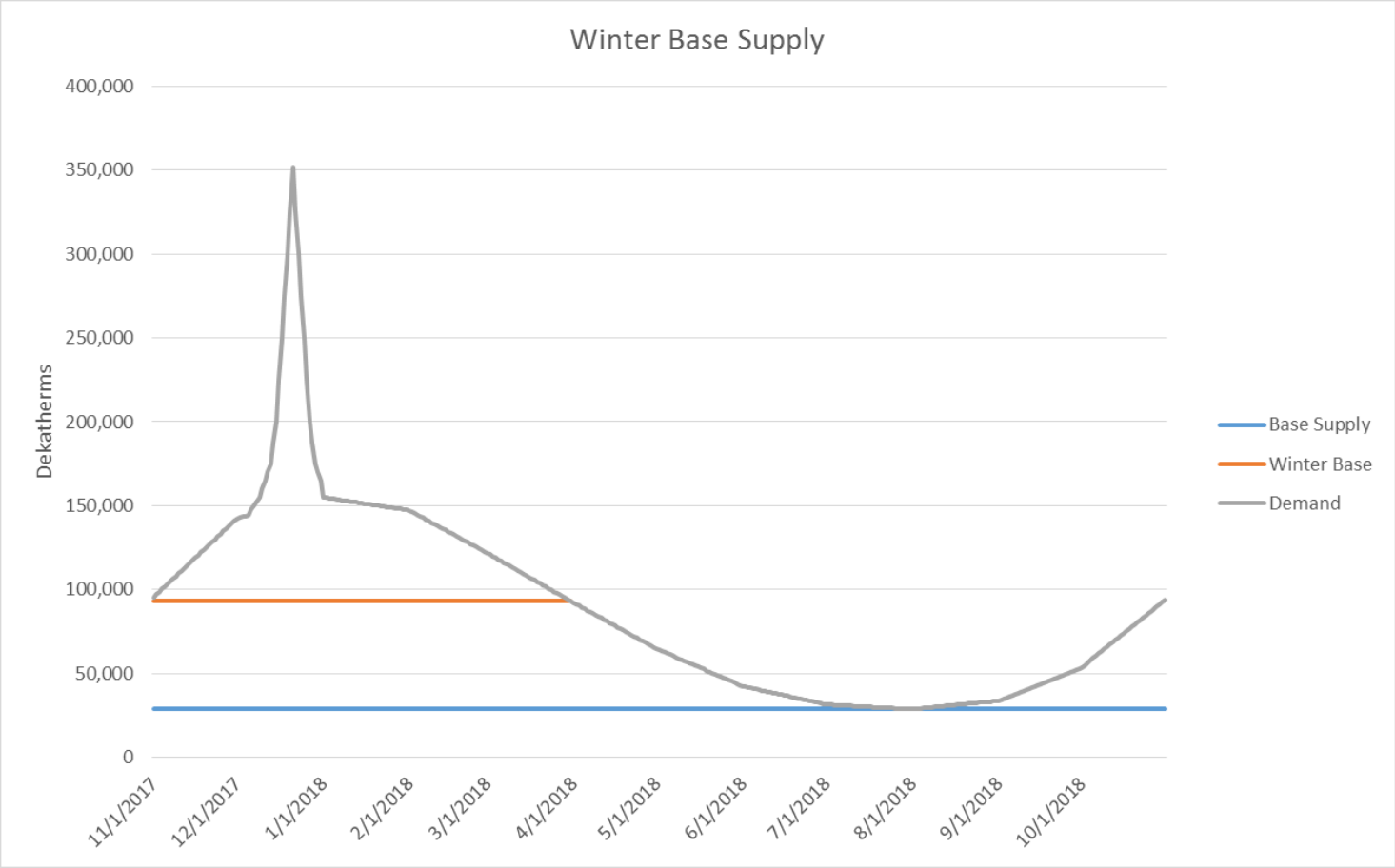
Base Supply cont'd



Winter base Supply

- Winter base supply is contracted supply with a premium charge that is slightly higher than base gas.
- The Maximum Daily Quantity (MDQ) is optimally set by SENDOUT.
- Winter supply is renewed every November and completes at the end of March.
- Winter Supply is additional baseline supply on top of the base or fixed supplies for the winter months.
- There is a penalty associated to this contract to force SENDOUT to take the optimal amount of additional winter base gas.

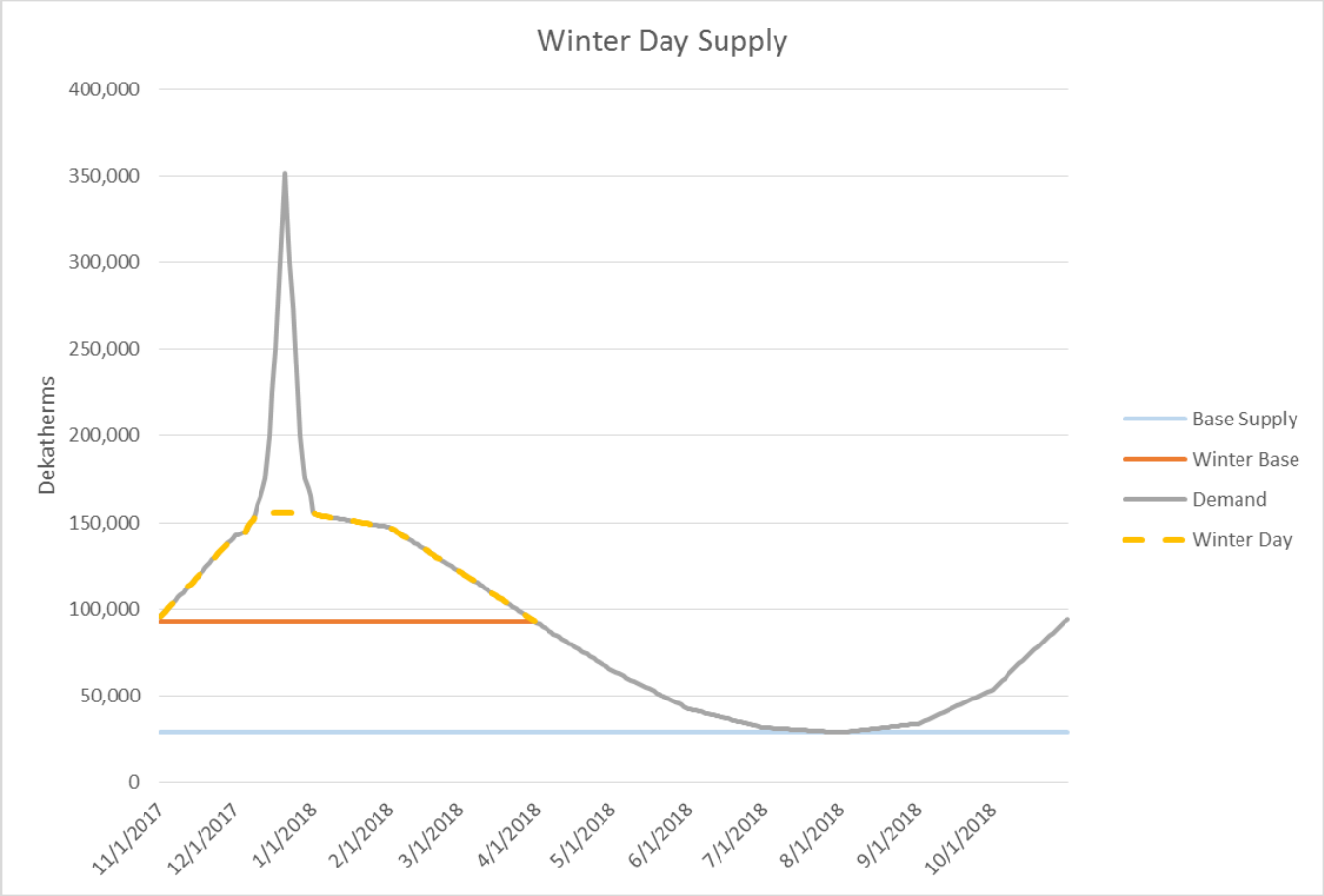
Winter base Supply cont'd



Day Supply (Winter)

- Winter Day supply is gas that is R-mixed at the beginning of November each year.
- The R-mix function takes into account the fixed and variable costs of a resource to determine the proper amount to take in a given period.
- Winter day gas has a MDQ cap but is not a must take supply.
- If a winter day supply has an MDQ of 10000 dth then it can take anywhere from 0 to 10000 dth's of gas on any given day in the winter.
- Winter day supply has a slightly higher premium than winter base supply and it can be contracted from November to April.

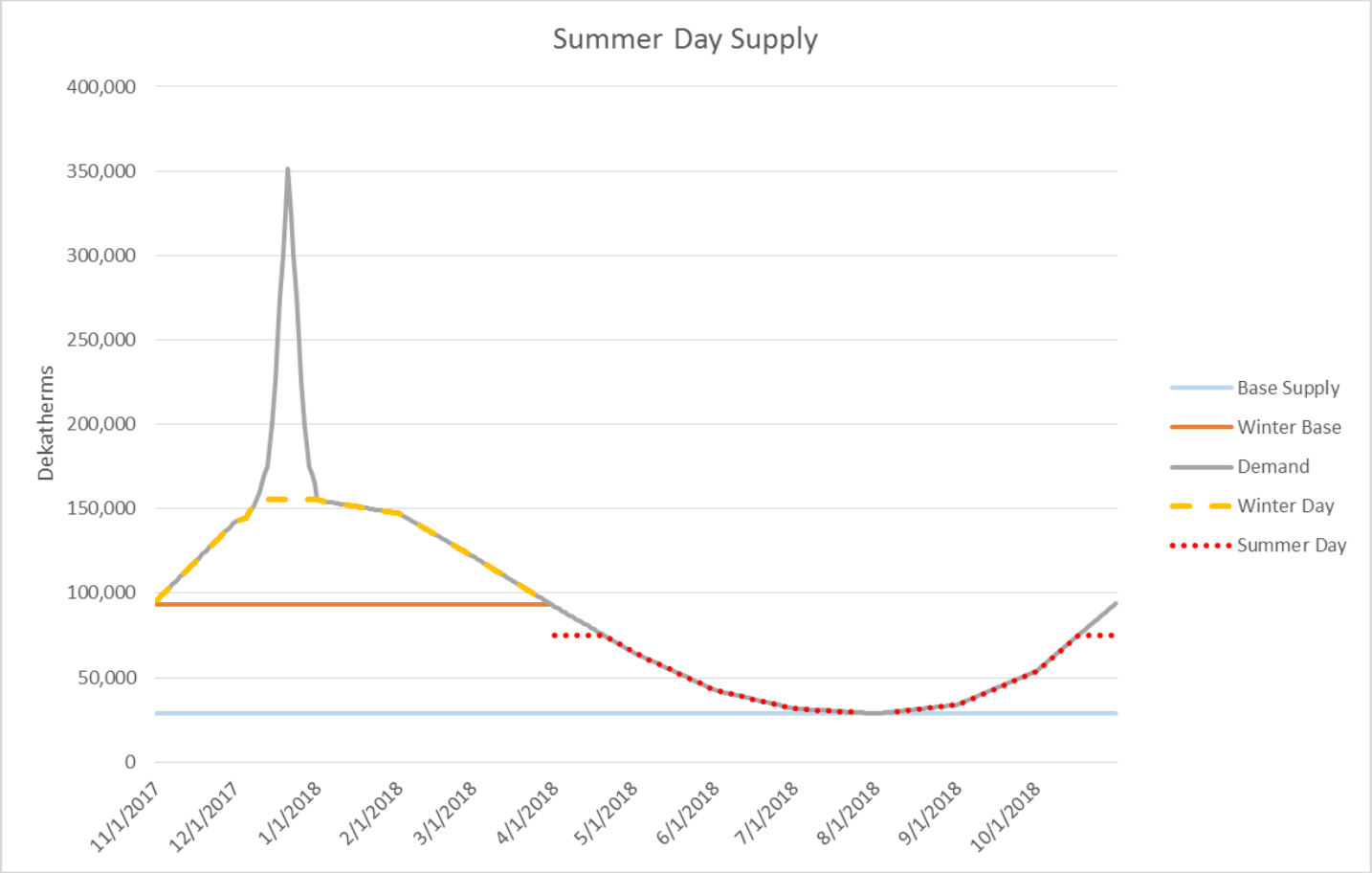
Day Supply (Winter) cont'd



Day Supply (Summer)

- Summer day supply is gas that is R-mixed at the beginning of April each year.
- Summer day gas has a MDQ cap but is not a must take supply.
- If a summer day supply has an MDQ of 10000 dth then it can take anywhere from 0 to 10000 dth's of gas on any given day in the summer.
- Summer day supply has a slightly lower cost than base supply and it can be contracted from April to November.

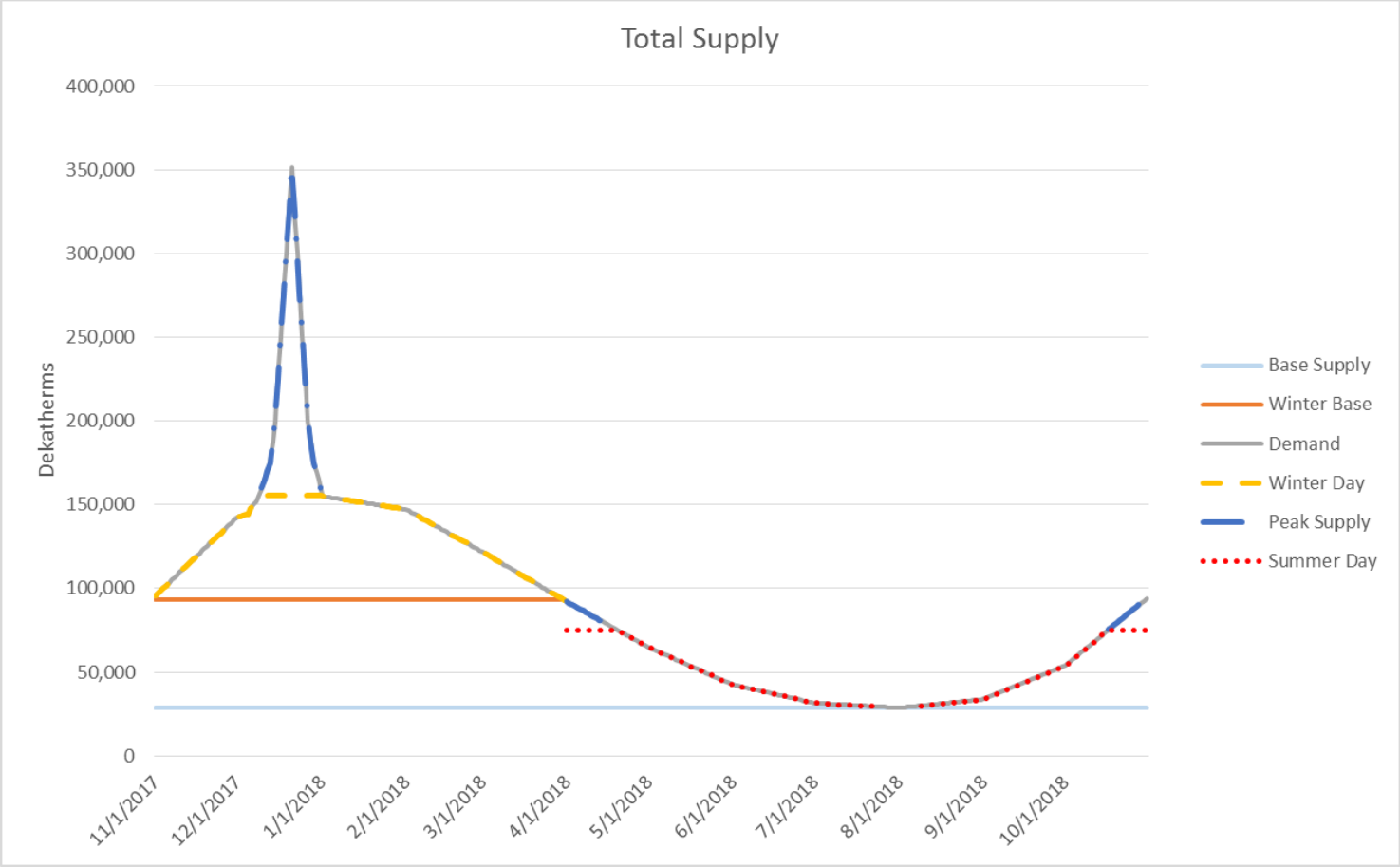
Day Supply (Summer)



Peak Supply

- Peak supply is gas purchased on high demand days where base, index, winter base, or day supply cannot accommodate.
- Peak supply has a slightly higher premium to buy than day supply.
- As long as Cascade has the transport capacity, we can purchase as much peak supply as needed to meet peak demand.

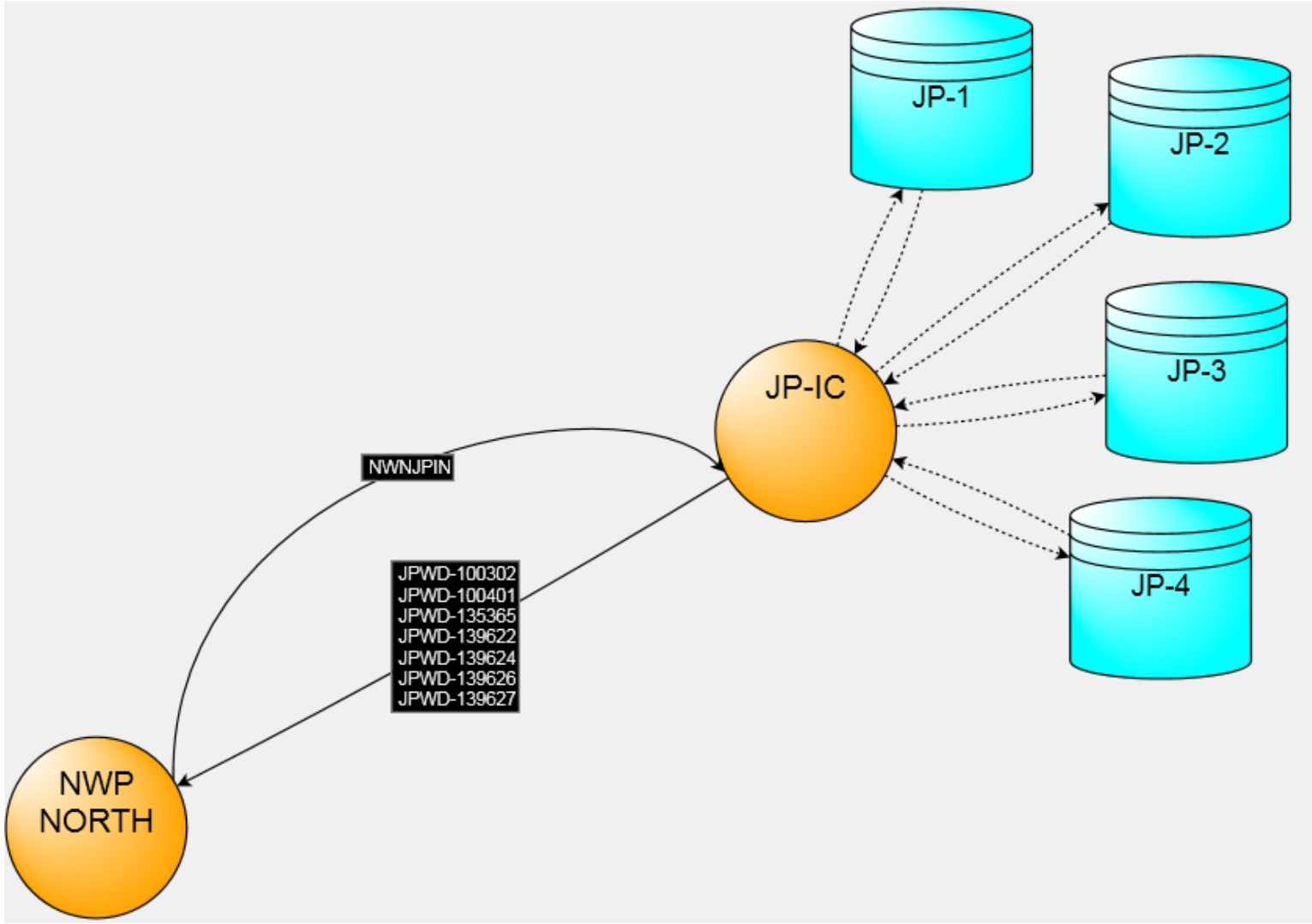
Total Supply



Storage

- Cascade leases storage at 2 locations: Jackson Prairie (JP) and Plymouth.
- Cascade has 4 storage contracts with JP and 2 contracts with Plymouth.
- Storage injections targets are set at 35% by the end of June, 80% by the end of August, and 100% by the end of September.
- These targets are set by our Gas Supply Oversight Committee.
- Cascade can withdrawal approximately 56,000 dth's per day from JP and 78,000 dth's per day from Plymouth for a total of approximately 134,000 dth's per day.

Storage Example



Storage Example 2

	NOV 2016	DEC 2016	JAN 2017	FEB 2017	MAR 2017	APR 2017	MAY 2017	JUN 2017	JUL 2017	AUG 2017	SEP 2017
Process Indicator											
Inventory Maximum Physical Capacity	604351										
Inventory Minimum Physical Percent											
*Target Inv - End of Period Max Pct											
*Target Inv - End of Period Min Pct								35		80	100
*Inventory Adjustment - Value per Unit											
*Inventory Adjustment - Volume											
*Injection Daily MDQ	0					16789					
*Injection Daily Min Percent											
*Withdrawal Daily MDQ	16789					0					
*Withdrawal Daily Min Percent											
Fuel - Injection						.23					
Fuel - Withdrawal	.23										
Rate - Carry						0					
Rate - Injection											
Rate - Withdrawal											
Rate - Other Injection											
Rate - Other Withdrawal											
Rate - Volume Charge											
Rate - D1	.01558										
Rate - D2	.00057										
Volume - D1 Volume	16789										
Volume - D2 Volume											
Storage Ratchets Table	JP										
Starting Inv Layer 1 Value per Unit											
Starting Inv Layer 1 Volume	604351										
Energy Conversion Factor											
Injection Costing List - Transport											
Injection Costing List - Source											
Rate - Other Withdrawal 2											

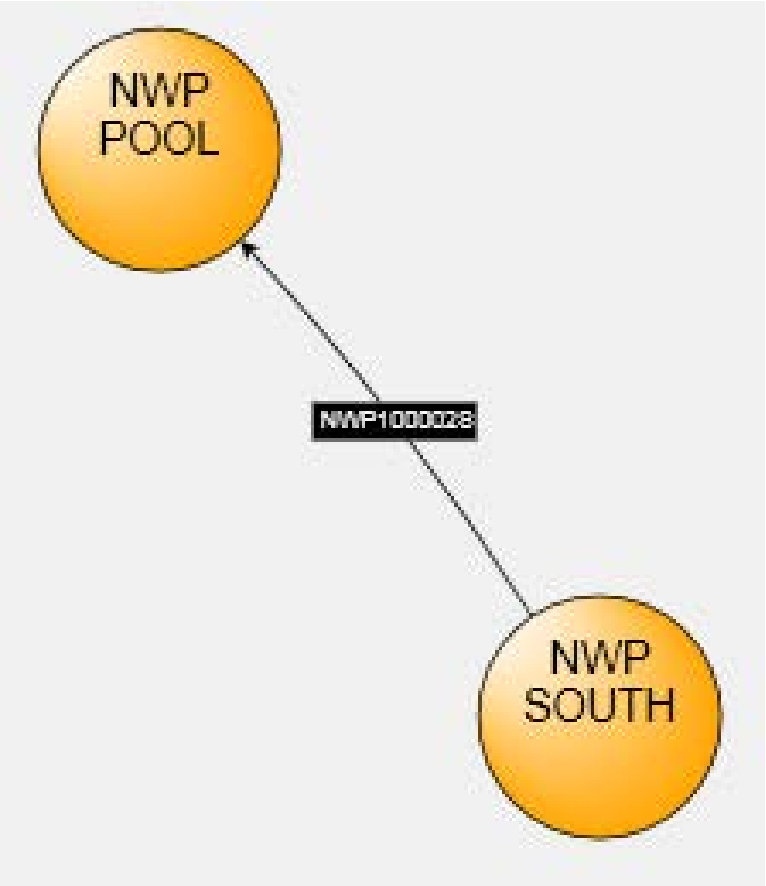
Transportation

- Transportation contracts are the means of how Cascade gets the gas from the supplier to the end user.
- Cascade has multiple types of transportation:
  - A single delivery point.
  - Multiple delivery points.
- The multiple delivery point contracts gives Cascade the flexibility to move the gas where it’s most needed.
- On NWP, transportation goes to the zone level because MDDO’s can be reallocated within a zone to the Citygate.
- On GTN, transportation goes to the Citygate level as MDDO’s cannot be reallocated within the GTN zone.

Transportation cont'd

- Transportation has an MDQ, a D1 rate, a transportation rate, and a fuel loss percentage.
- A maximum delivery quantity (MDQ) which is the maximum amount of gas Cascade can move on the pipeline on a single day.
- A D1 rate which is the reservation rate to have the ability to move the MDQ amount on the pipeline.
- A transportation rate which is the rate per dekatherm that is actually moved on the pipeline.
- The fuel loss percentage is the statutory percent of gas based on the tariff from the pipeline that is lost and unaccounted for from the point of where the gas was purchased to the Citygate.

Transport Example



Transport Example

	JAN 2016	FEB 2016	MAR 2016
*Daily MDQ	313		
*Daily Minimum Percent			
Fuel	0.005		
Rate - Transportation	0.00801552		
Rate - Other Variable			
Rate - D1 Rate	0.25181398		
Rate - Other Fixed			
Rate - Dispatch			
Volume - D1			
Volume - Other Fixed			
Temp Cutoff Max Temperature			
Available % Below Min/Above Max			
Temp Cutoff Min Temperature			
Apply Temperature Cutoff			
Capacity Release - Revenue per Unit			
Capacity Release - Min Pct to Release			
Capacity Release - Max Pct to Release			
Capacity Release - Recall Indicator			
Capacity Release - Start\Stop Indicator			
Indicator - Report			
Indicator- Process			
Resource Mix Start\Stop Indicators			
Rmix MDQ Range Max			
Rmix MDQ Range Min			
Minimum Flow Incentive			
Monthly Max Volume			
Monthly Minimum Percent			
Annual Max Volume			
Annual Minimum Percent			
Seasonal Max Volume			
Seasonal Minimum Percent			

Delivery Rights vs Receipt Rights

- Cascade has more Delivery Rights than Receipt Rights.
- Approximately 457,000 Dth of Delivery Rights.
- Approximately 360,000 Dth of Receipt Rights.
- The excess Delivery Rights allow Cascade to be flexible with the 360,000 Dth of Receipt gas.

Example of delivery right flexibility

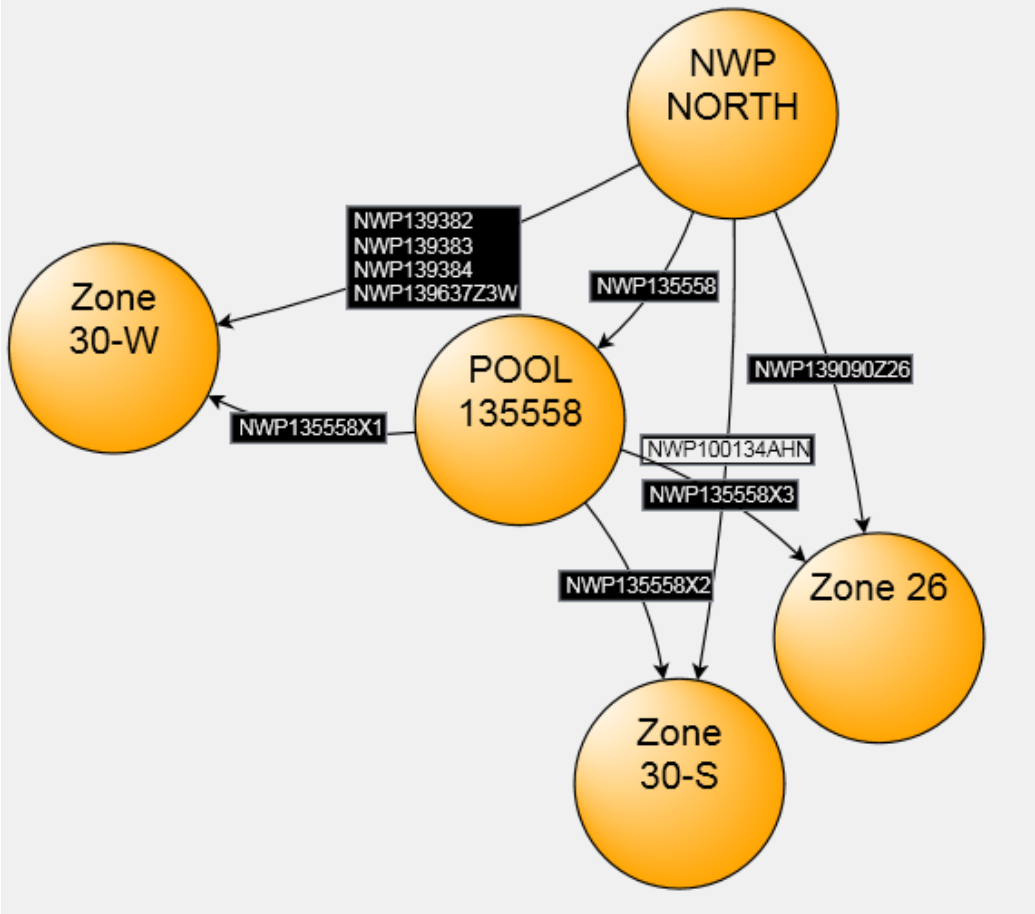
All of the following must be true

$X1 \leq 4\text{MDTs}$

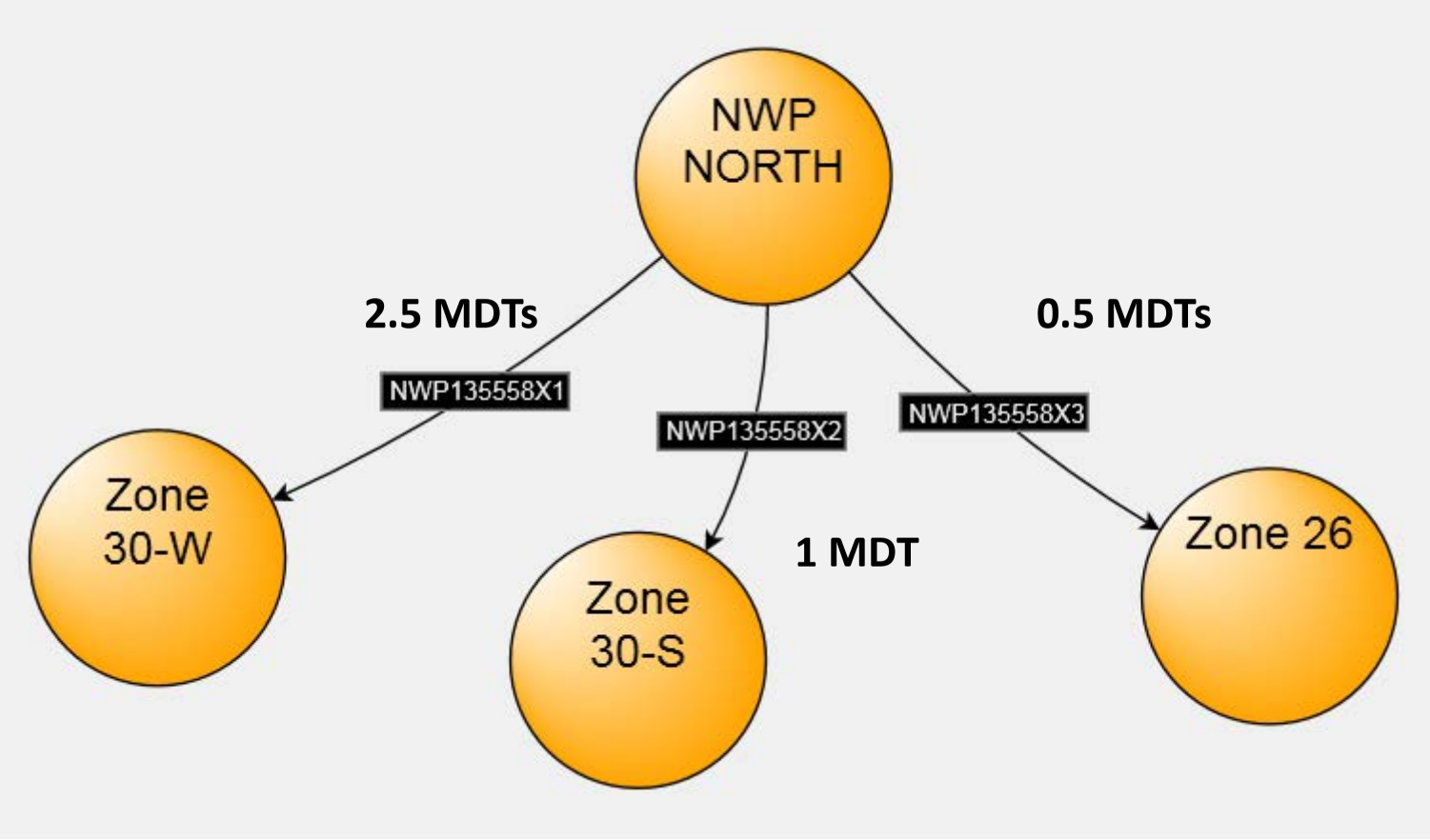
$X2 \leq 4\text{MDTs}$

$X3 \leq 4MDTs$

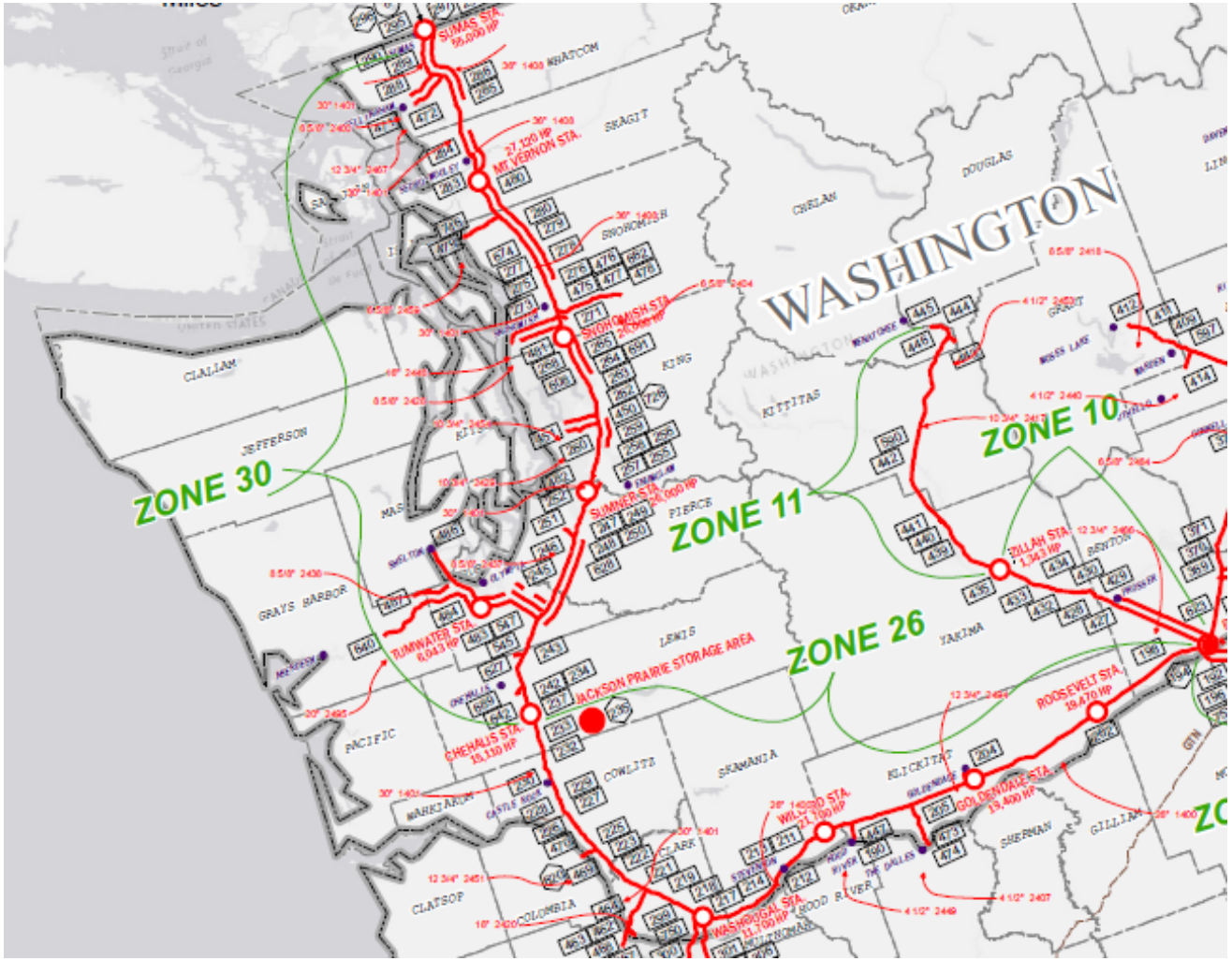
$X1 + X2 + X3 \leq 4MDTs$



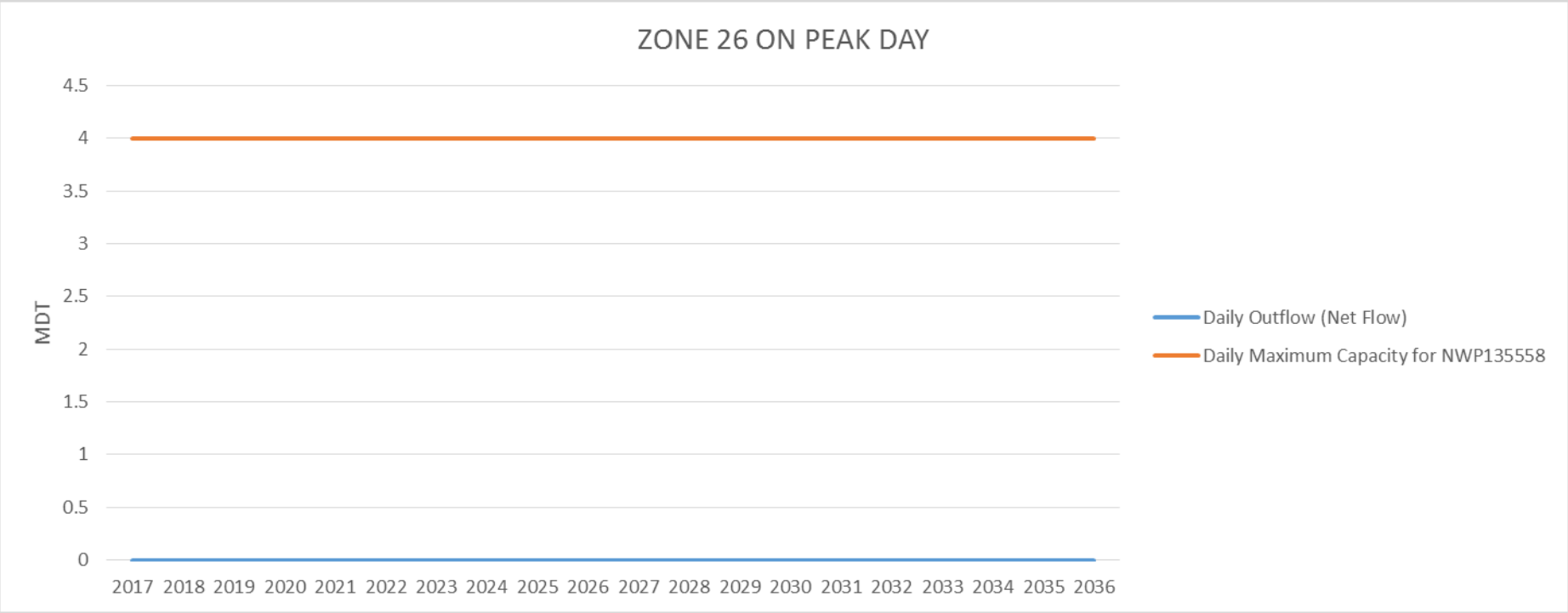
Example of delivery right inflexibility



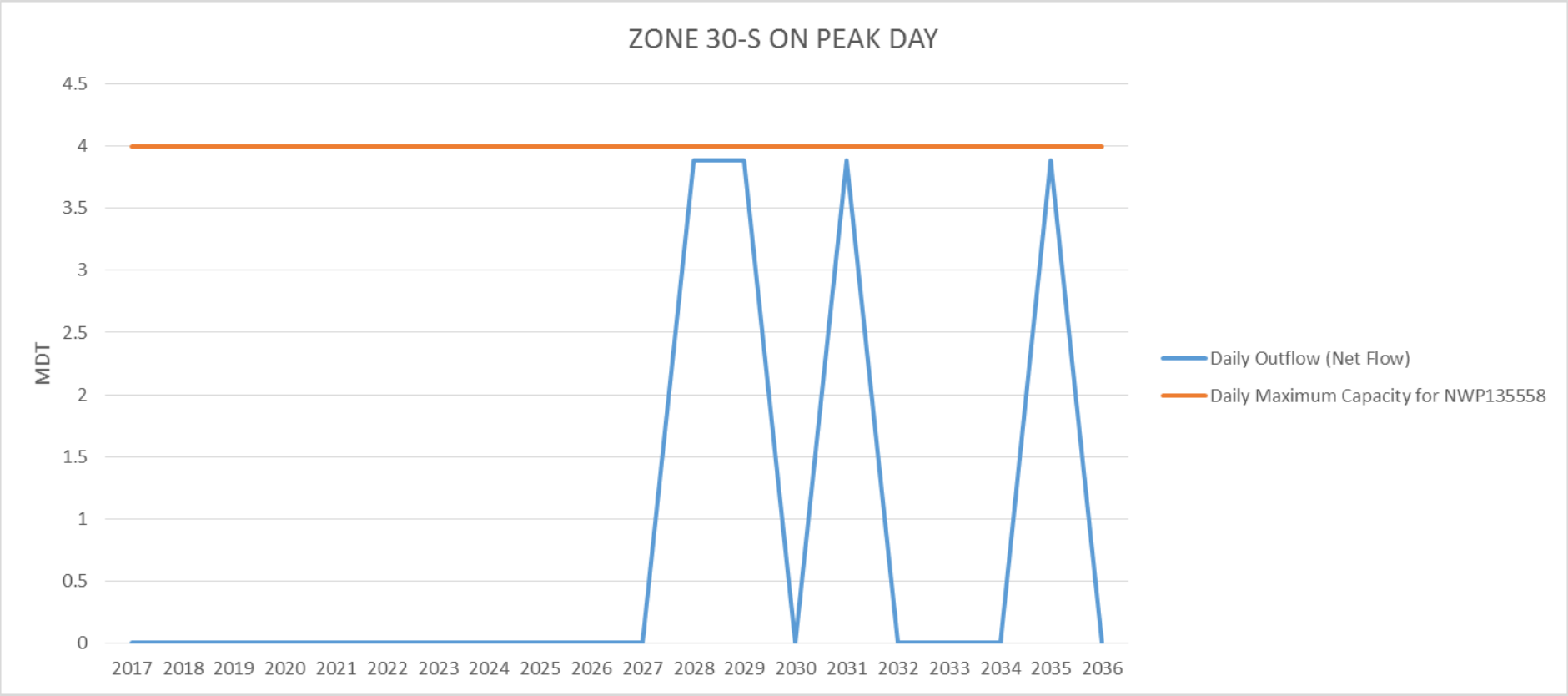
Location of Zones



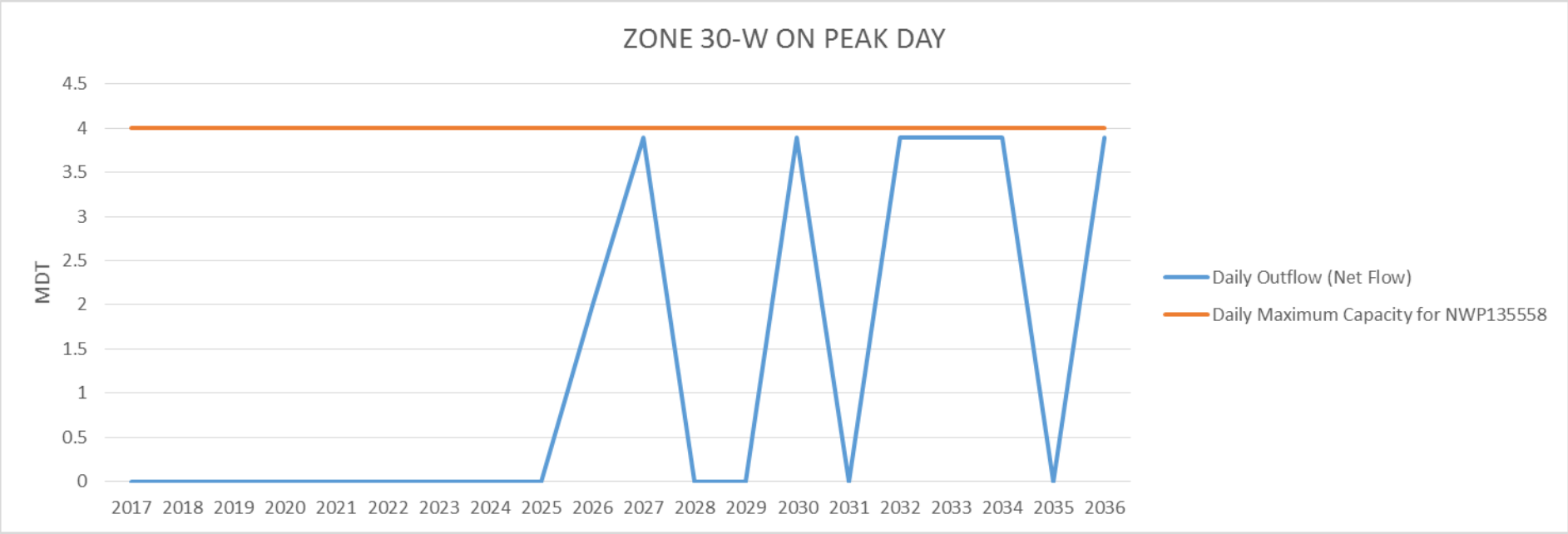
Zone 26 on Peak Day for Transport 135558



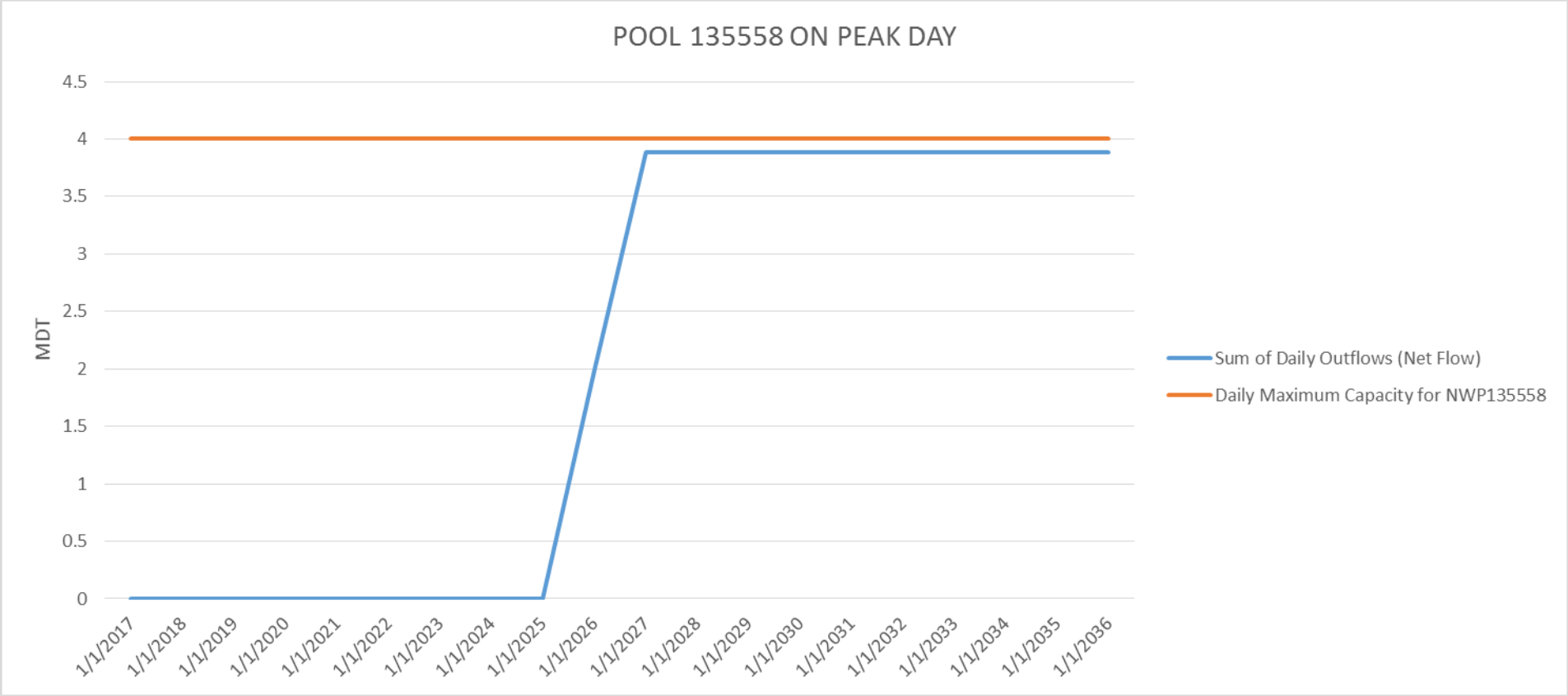
Zone 30-S on Peak Day for Transport 135558



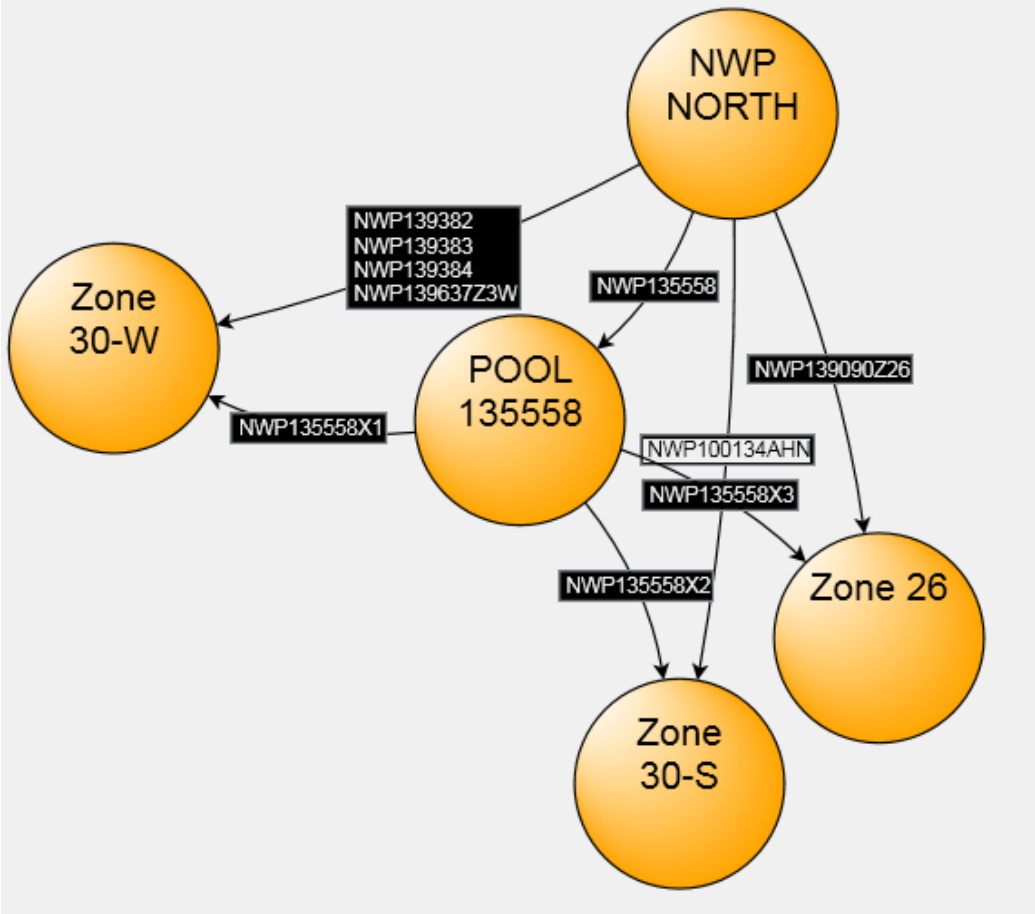
Zone 30-W on Peak Day for Transport 135558



Transport Contract 135558 on Peak Day



Example of delivery right flexibility



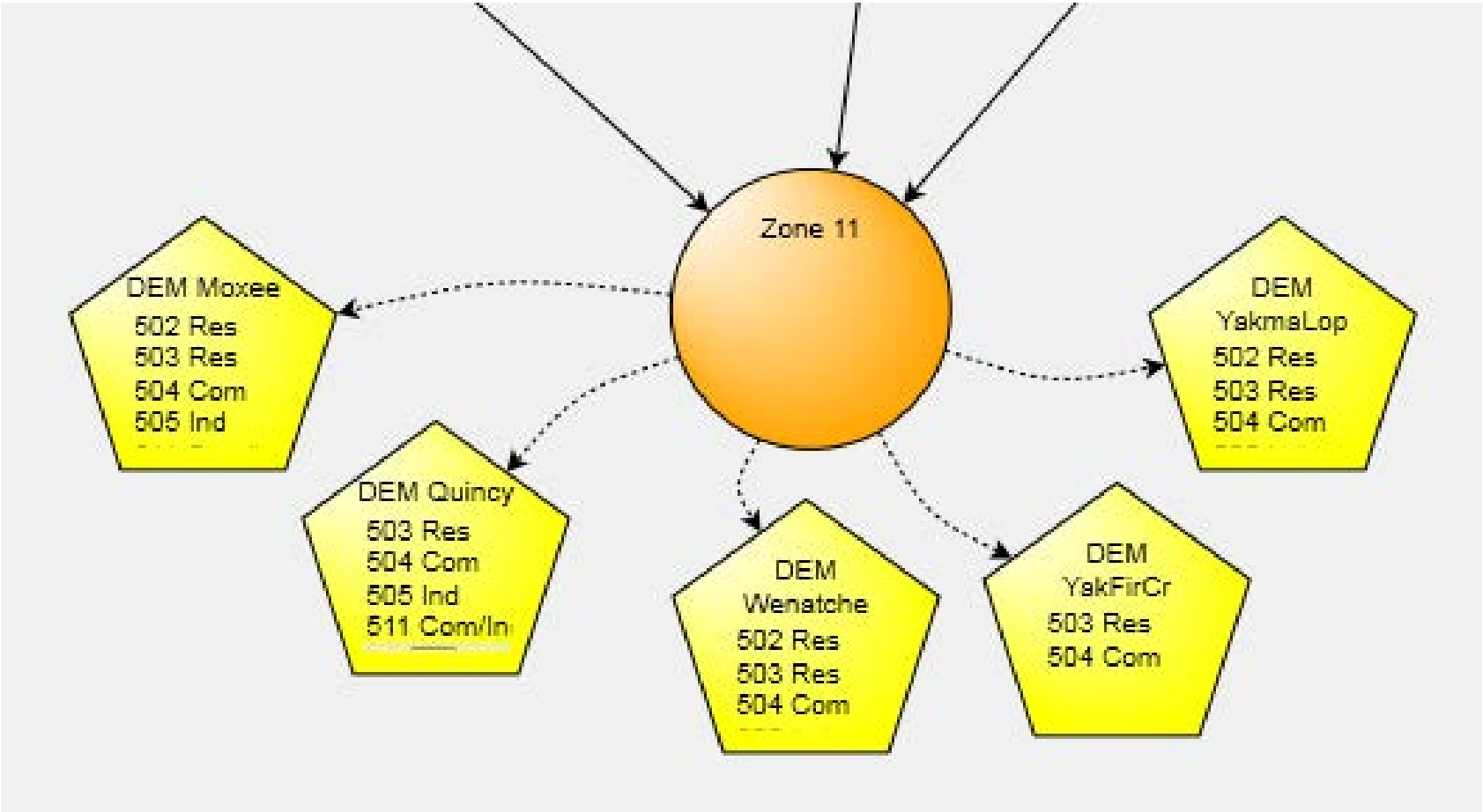
Demand Behind the Gate

- Cascade has strived over the last several years to make the IRP forecast and resource analysis to get to as granular a level as possible using the available data.
- Attempts to forecast demand behind the gate using existing forecasting methodology has been challenging.
- Customer billing data does not have daily meter reads for core customers making regression analysis on a use per HDD per customer difficult.
- Given Cascade is not a contiguous system, DSM by gate is currently is an ongoing complication
  - This year we have added the Climate Zone
  - Future IRPs will try and address the gate station level
- Some towns can be served by multiple pipelines and the mix can change over time.
- As part of the rate case settlement, Cascade is committed to performing a robust citygate study.

Demand

- Demand is forecasted at the Citygate level by rate schedule.
- For NWP, each Citygate's demand is associated with the zone.
- For GTN, each Citygate's demand is associated with it's respective Citygate interconnect.
- Demand Inputs
  - Forecast type (Monthly amount or Regressions)
  - Monthly projected customers for 20 years.
  - Regression coefficients if using the Regression forecast type.
  - If using a monthly number, it is the 2015 demand for that month with a growth factor.

Demand Example



Demand Example 2

	JAN 2016	FEB 2016	MAR 2016	APR 2016	MAY 2016	JUN 2016	JUL 2016
Forecast Method	Usage Fac						
Customers	24799.84312	24804.90431	24818.06341	24797.81864	24796.8064	24776.56163	24768.46372
*Demand - Daily							
Demand - Monthly Base							
Demand - Monthly Heat							
Demand - Monthly Total							
Demand - Percent Factor - non P non Q							
Demand - Percent Factor - non Q							
Usage Factors - Weekday Base	0.034631402						
Usage Factors - Weekday Heat	0.014867929						
Usage Factors - Weekend Base							
Usage Factors - Weekend Heat							
*Rate - Unserved Dispatch (Pri 1)							
*Rate - Unserved (Pri 2)							
*Rate - Revenue Variable (Pri 3)							
*Required Margin							
Rate - Revenue Fixed							
Determinant - Revenue Fixed							

Weather

- Weather inputs for SENDOUT include:
  - Monte Carlo
  - Historical
  - Normal
- Monte Carlo inputs include mean, standard deviation, max and minimum.
- Historical data is used to build weather profiles for Monte Carlo.
- Normal weather is the daily average of the 30-year most recent history (1986-2015).

Weather Example – Monte Carlo

	JAN 2014	FEB 2014	MAR 2014	APR 2014	MAY 2014	JUN 2014	JUL 2014
HDD Mean	1031.8	804.1	639.6	453.9	254.2	92.6	10.3
HDD Std Dev	145.4	133.1	84.4	93.0	72.2	40.4	15.2
HDD Distribution	Normal						
HDD Max	1291	1242	841	641	426	170	75
HDD Min	772	568	448	254	92	19	0
CDD Mean							
CDD Std Dev							
CDD Distribution							
CDD Max							
CDD Min							
Scaling Year	Best Match						

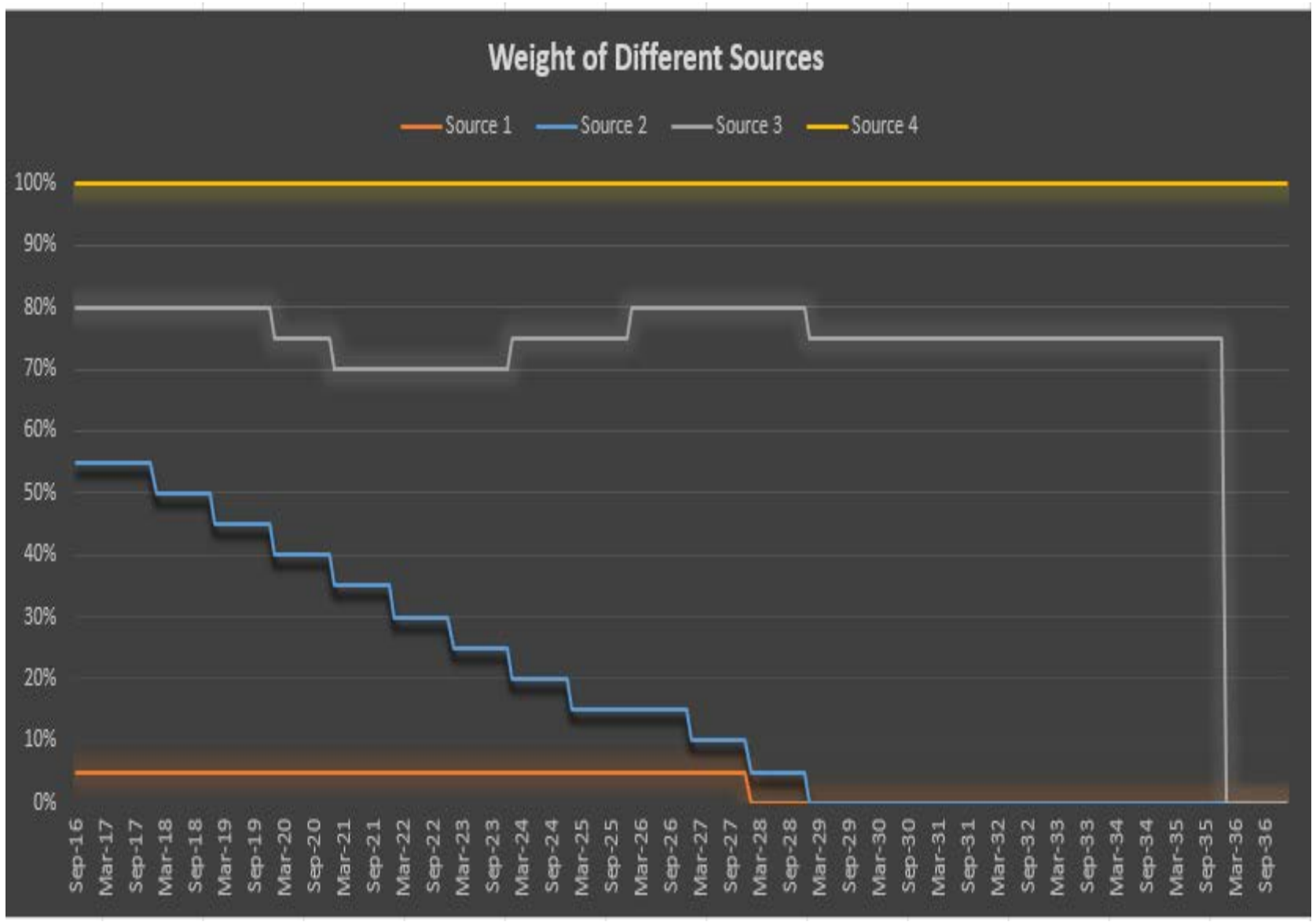
Long Range Price Forecast

- Cascade's long term planning price forecast is based on a blend of current market pricing along with long term fundamental price forecasts.
- The fundamental forecasts include Wood Mackenzie, the Energy Information Administration (EIA), the Northwest Power Planning Council, Bentek and the Financial Forecast Center's long term price forecasts.
- Market, particularly in near term is heavily influenced by Henry Hub prices.
- While not a guarantee of where the market will ultimately finish, Henry Hub NYMEX is the most current information that provides some direction as to future market prices.

Long Range Price Forecast

- Wood Mackenzie's long-term forecast is at a monthly level by basin. We use this to help shape the forecast's monthly basis pricing.
- We also rely on EIA's forecast; however, it has its limitations since it is not always as current as the most recent market activity. Further, the EIA forecast provides monthly breakdowns in the short term, but longer term forecasts are only by year.
- We assign a weight to each source to develop the monthly Henry Hub price forecast for the 20 year planning horizon.
- Although it is impossible to accurately estimate the future, for trading purposes the most recent period has been the best indicator of the direction of the market. However, Cascade also considers other factors (historical constraints) which can lead to minor adjustments to the final long range forecast.

Year	Source 2	Source 1	Source 3	Source 4
2017	50.000%	5.000%	25.000%	20.000%
2018	45.000%	5.000%	30.000%	20.000%
2019	40.000%	5.000%	35.000%	20.000%
2020	35.000%	5.000%	35.000%	25.000%
2021	30.000%	5.000%	35.000%	30.000%
2022	25.000%	5.000%	40.000%	30.000%
2023	20.000%	5.000%	45.000%	30.000%
2024	15.000%	5.000%	55.000%	25.000%
2025	10.000%	5.000%	60.000%	25.000%
2026	10.000%	5.000%	65.000%	20.000%
2027	5.000%	5.000%	70.000%	20.000%
2028	5.000%	0.000%	75.000%	20.000%
2029	0.000%	0.000%	75.000%	25.000%
2030	0.000%	0.000%	75.000%	25.000%
2031	0.000%	0.000%	75.000%	25.000%
2032	0.000%	0.000%	75.000%	25.000%
2033	0.000%	0.000%	75.000%	25.000%
2034	0.000%	0.000%	75.000%	25.000%
2035	0.000%	0.000%	75.000%	25.000%
2036	0.000%	0.000%	0.000%	100.000%


Weight of Different Sources
Source 1
Source 2
Source 3
Source 4
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Sep-16
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Mar-23
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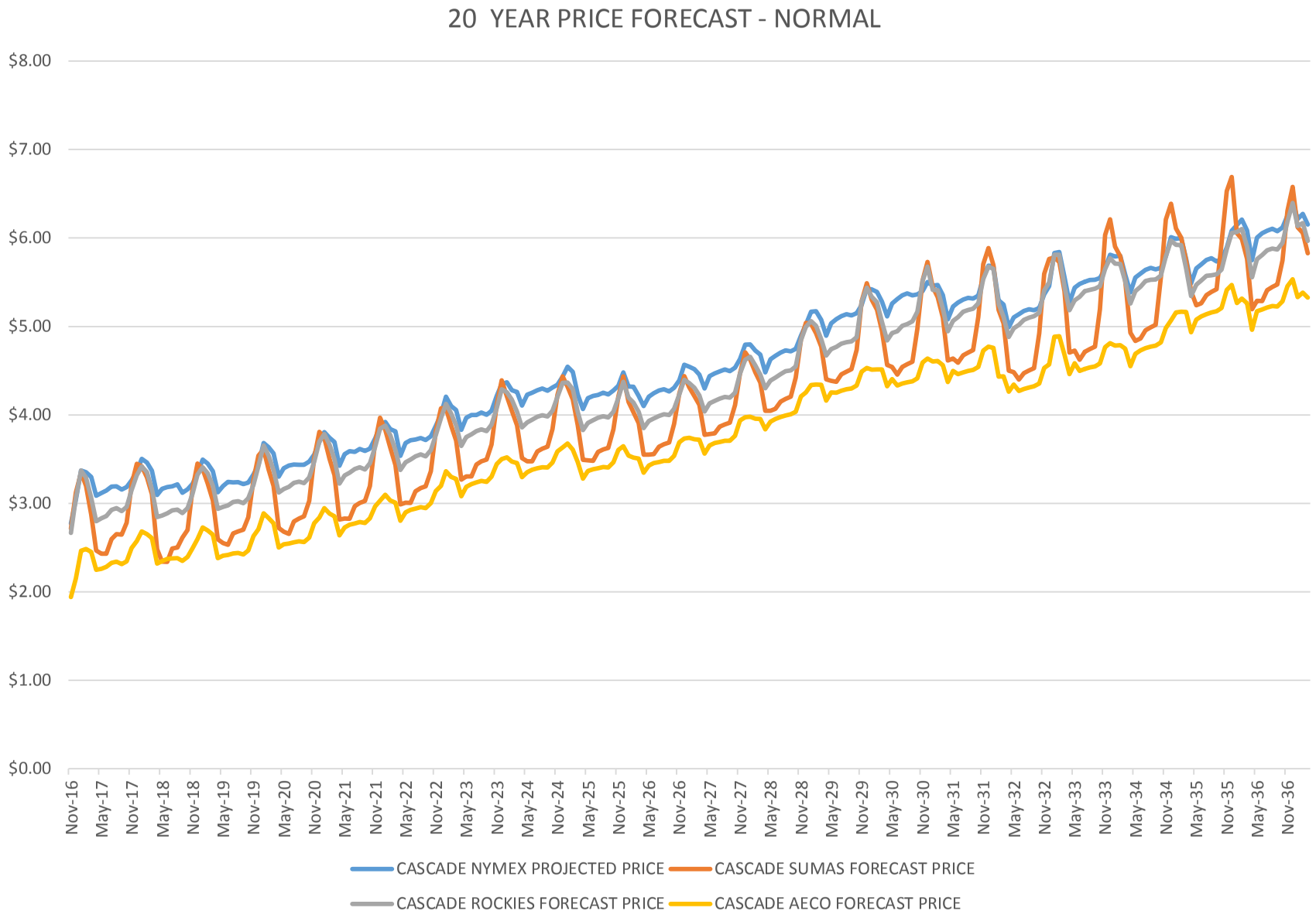
Mar-36
Sep-36


20 YEAR PRICE FORECAST - NORMAL
$8.00
$7.00
$6.00
$5.00
$4.00
$3.00
$2.00
$1.00
$0.00
Nov-16
May-17
Nov-17
May-18
Nov-18
May-19
Nov-19
May-20
Nov-20
May-21
Nov-21
May-22
Nov-22
May-23
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Nov-34
May-35
Nov-35
May-36
Nov-36
CASCADE NYMEX PROJECTED PRICE
CASCADE SUMAS FORECAST PRICE
CASCADE ROCKIES FORECAST PRICE
CASCADE AECO FORECAST PRICE

Major resource issues on the horizon

- **Addition alternatives to be considered during IRP process**
  - **NWP I-5 Expansion**
  - **Realignment of MDDOs to citygates**
  - **Palomar/Cross Cascades**
  - **Pacific Connector**
  - **Incremental Nova**
  - **Incremental Foothills**
  - **Incremental GTN (north to south)**
  - **Biofuel**
  - **Satellite LNG**
  - **Mist Storage**
  - **AECO Storage**
  - **Wild Goose Storage**
  - **Gill Ranch Storage**
  - **Ryckman Creek Storage**

- Began discussions with Niska Partners to gather information to model AECO Hub Storage in the 2016 IRP. In addition, we will be considering Wild Goose, Gill Ranch, Mist and Ryckman Creek storage.

- Working with GTN to develop a narrative to explain how our long path capacity can be used to meet peak day shortfalls.

SENSITIVITIES ANALYSES

Scenario Name	Key Assumptions
High Growth	Strong Economic Growth result in High Load growth, Average Weather, Medium Gas Prices.
Low Growth	Economic Conditions result in Low Load growth, Average Weather, Medium Gas Prices.
Environmental Externalities Carbon 1	Medium Load Growth, Average Weather, Assumes Carbon Adder Implemented in 2018 for CO2 emissions at $10/ton with adder increasing annually by 3% plus CPI (Consumer Price Index).
Environmental Externalities Carbon 2	Medium Load Growth, Average Weather, Assumes Carbon Adder Implemented in 2016 for CO2 emissions at $20/ton with adder increasing annually by 3% plus CPI (Consumer Price Index).
Environmental Externalities Carbon 3	Medium Load Growth, Average Weather, Assumes Carbon Adder Implemented in 2017 for CO2 emissions at $30/ton with adder increasing annually by 3% plus CPI (Consumer Price Index).

Supply Side Alternatives Modeled

Resource	Scenario Considered
Conventional Gas Supply Contracts with annual, seasonal or winter only characteristics delivered to Northwest Pipeline & GTN Systems	All
Conventional Gas Supply Peaking Contracts Delivered to Northwest Pipeline & GTN Systems	All
Gas Supply Peaking Contract delivered to Cascade's citygates	All
Incremental Storage Delivered to Northwest Pipeline and GTN systems	All
Satellite LNG Storage within Cascade's distribution system	All
Additional Pipeline Capacity secured through medium--long term capacity agreements	All

Avoided Cost Overview

- As part of the IRP process, Cascade calculates a 20-year forecast and 45 years of avoided costs.
- The avoided cost is an estimated cost to serve the next unit of demand with a supply side resource option at a point in time. This incremental cost to serve represents the cost that could be avoided through energy conservation.
- The avoided cost forecast can be used as a guideline for comparing energy conservation with the cost of acquiring and transporting natural gas to meet demand.
- Cascade evaluates the impact that a range of environmental externalities, including CO2 emission prices, would have on the avoided costs in terms of cost adders and supply costs.
- We produce an expected avoided cost case based on the medium forecast (base case) peak day.

Costs included in the avoided cost calculation

- The long term gas price forecast compiled from a consultant's gas price forecast (which is the majority of the cost);
- A price for carbon included in the gas price forecast, which has been embedded by price forecast consultant
- Gas storage variable and fixed costs
- Upstream variable and fixed transmission costs;
- Peak related on-system transmission costs; and
- A 10 percent adder for unidentified environmental benefits, as recommended by the Northwest Power and Conservation Council ("NWPCC").

Avoided Costs by Conservation Zone (9/14/2016 draft 2016 IRP), cost per therm

	Zone 1 Avoided	Zone 2 Avoided	Zone 3 Avoided
2016	$ 0.331007	$ 0.332405	$ 0.333519
2017	$ 0.376641	$ 0.378231	$ 0.379499
2018	$ 0.374966	$ 0.376549	$ 0.377812
2019	$ 0.386840	$ 0.388473	$ 0.389776
2020	$ 0.406234	$ 0.407949	$ 0.409317
2021	$ 0.426303	$ 0.428103	$ 0.429538
2022	$ 0.458433	$ 0.460368	$ 0.461912
2023	$ 0.496455	$ 0.498551	$ 0.500223
2024	$ 0.520204	$ 0.522401	$ 0.524152
2025	$ 0.525322	$ 0.527539	$ 0.529308
2026	$ 0.547107	$ 0.549417	$ 0.551259
2027	$ 0.582635	$ 0.585095	$ 0.587057
2028	$ 0.617658	$ 0.620266	$ 0.622345
2029	$ 0.648015	$ 0.650751	$ 0.652933
2030	$ 0.668615	$ 0.671438	$ 0.673689
2031	$ 0.669892	$ 0.672720	$ 0.674976
2032	$ 0.663548	$ 0.666349	$ 0.668583
2033	$ 0.705535	$ 0.708514	$ 0.710889
2034	$ 0.722589	$ 0.725640	$ 0.728073
2035	$ 0.750226	$ 0.753394	$ 0.755919
2036	$ 0.761681	$ 0.764896	$ 0.767461

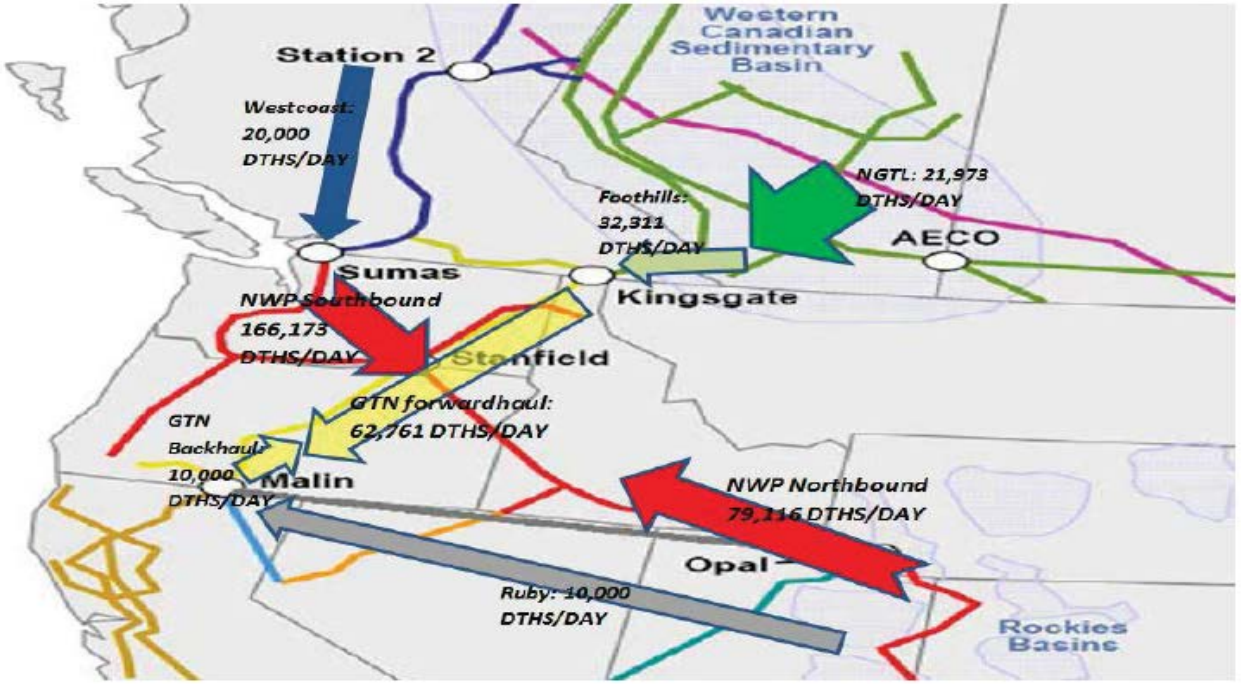
SYSTEM AVOIDED COSTS LAYERS (dollars in therms)

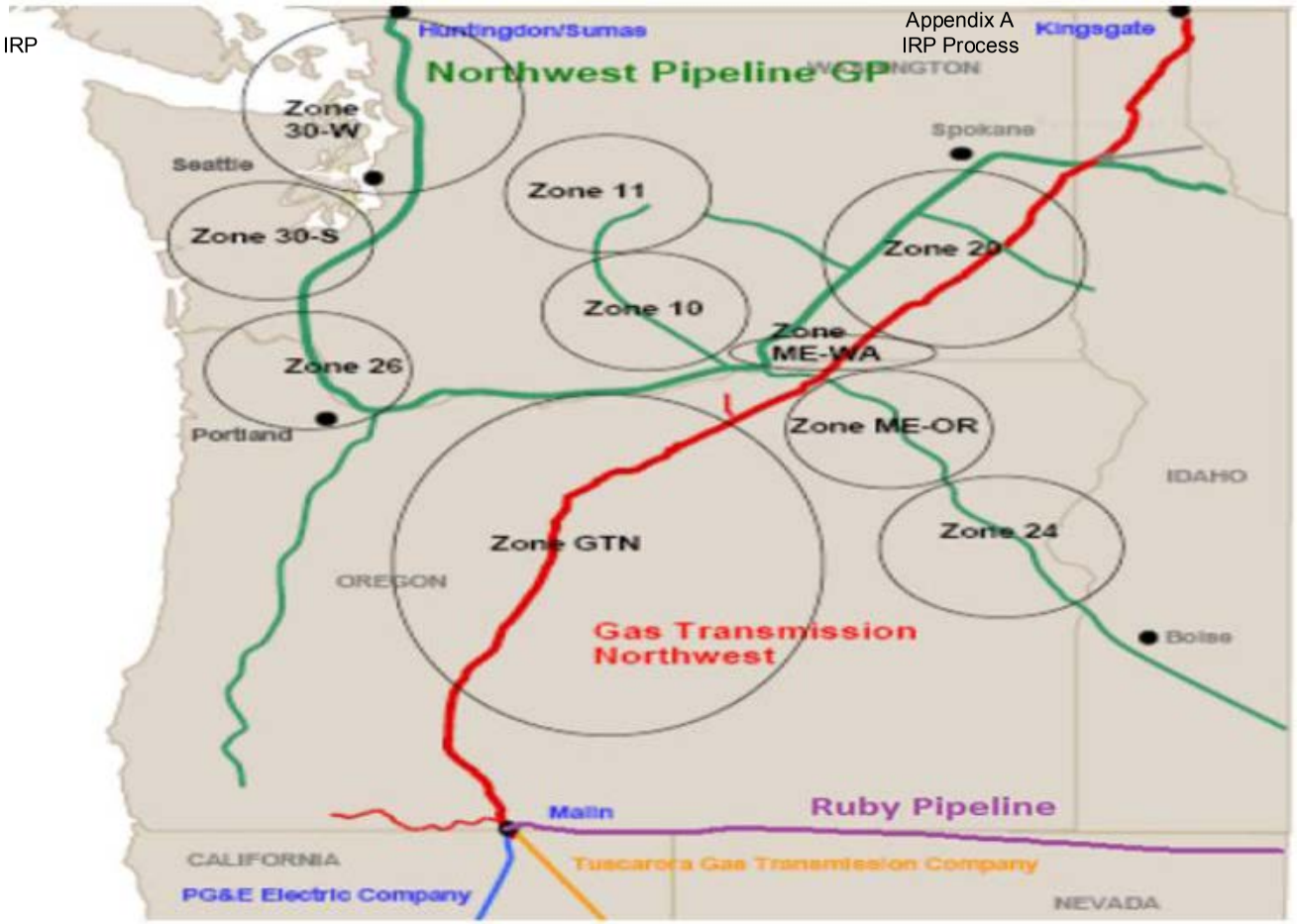
	Commodity	Transport Fixed	Transport Commodity	Storage Fixed	Storage Commodity	Total Avoided Cost
2016	0.236034111	$ 0.086348	$ 0.001661	$ 0.008725	$ 0.000811	$ 0.333579
2017	0.248988859	$ 0.115504	$ 0.002221	$ 0.011671	$ 0.001085	$ 0.379470
2018	0.251545028	$ 0.111764	$ 0.002149	$ 0.011293	$ 0.001050	$ 0.377801
2019	0.25866501	$ 0.116048	$ 0.002232	$ 0.011726	$ 0.001090	$ 0.389760
2020	0.274609258	$ 0.119244	$ 0.002293	$ 0.012049	$ 0.001120	$ 0.409316
2021	0.288511716	$ 0.124839	$ 0.002401	$ 0.012614	$ 0.001173	$ 0.429538
2022	0.301883742	$ 0.141623	$ 0.002724	$ 0.014310	$ 0.001330	$ 0.461870
2023	0.32780844	$ 0.152588	$ 0.002935	$ 0.015418	$ 0.001433	$ 0.500182
2024	0.341904823	$ 0.161284	$ 0.003102	$ 0.016296	$ 0.001515	$ 0.524102
2025	0.343585078	$ 0.164353	$ 0.003161	$ 0.016606	$ 0.001544	$ 0.529249
2026	0.344992909	$ 0.182479	$ 0.003509	$ 0.018438	$ 0.001714	$ 0.551133
2027	0.364226364	$ 0.197121	$ 0.003791	$ 0.019917	$ 0.001852	$ 0.586907
2028	0.389918307	$ 0.205625	$ 0.003955	$ 0.020777	$ 0.001931	$ 0.622206
2029	0.42189893	$ 0.204442	$ 0.003932	$ 0.020657	$ 0.001920	$ 0.652850
2030	0.437462807	$ 0.209045	$ 0.004020	$ 0.021122	$ 0.001964	$ 0.673614
2031	0.448043057	$ 0.200861	$ 0.003863	$ 0.020295	$ 0.001887	$ 0.674949
2032	0.437720131	$ 0.204314	$ 0.003929	$ 0.020644	$ 0.001919	$ 0.668527
2033	0.463291109	$ 0.219116	$ 0.004214	$ 0.022140	$ 0.002058	$ 0.710819
2034	0.475820954	$ 0.223240	$ 0.004293	$ 0.022556	$ 0.002097	$ 0.728007
2035	0.500991107	$ 0.225637	$ 0.004339	$ 0.022799	$ 0.002119	$ 0.755886
2036	0.509989669	$ 0.227894	$ 0.004383	$ 0.023027	$ 0.002141	$ 0.767434

POTENTIAL ADDITIONAL PIPELINE TRANSPORT RESOURCES

Model Name	Start Date	End Date	Daily MDQ	Description	Cost Dths	Lead Time	Pipeline	VARIABLE < $.10	FUEL < 3%
Incremental NOVA-Foothills-GTN	2018	OPEN	Approx 16,000 dths/day ea pipeline	AECO NIT, Foothills to Kingsgate	NOVA, Foothills, GTN (blended; approx $0.35)	>2 years	NOVA, Foothills, GTN	YES	YES
Incremental NWP	2019	OPEN	Appoximately 15,000 dhts/day	Sumas to WA and OR citygates	NWP Rate between X2 and X3	> 3years	NWP	YES	YES
Incremental RUBY	2019	OPEN	Appoximately 15,000 dhts/day	Ryckman to Malin	Variable up to $1.14	> 3years	RUBY	YES	YES
New CALIFORNIA TRANSPORT	2019	OPEN	Appoximately 15,000 dhts/day	CGT to Malin	$1.68	> 3years	CGT	YES	YES
New Southern Crossing	2018	OPEN	VARIABLE	Huntingdon/Kingsgate	$0.45 to 0.47	> 3 years	SPECTRA, SO-XING, SOXING KNG	YES	YES

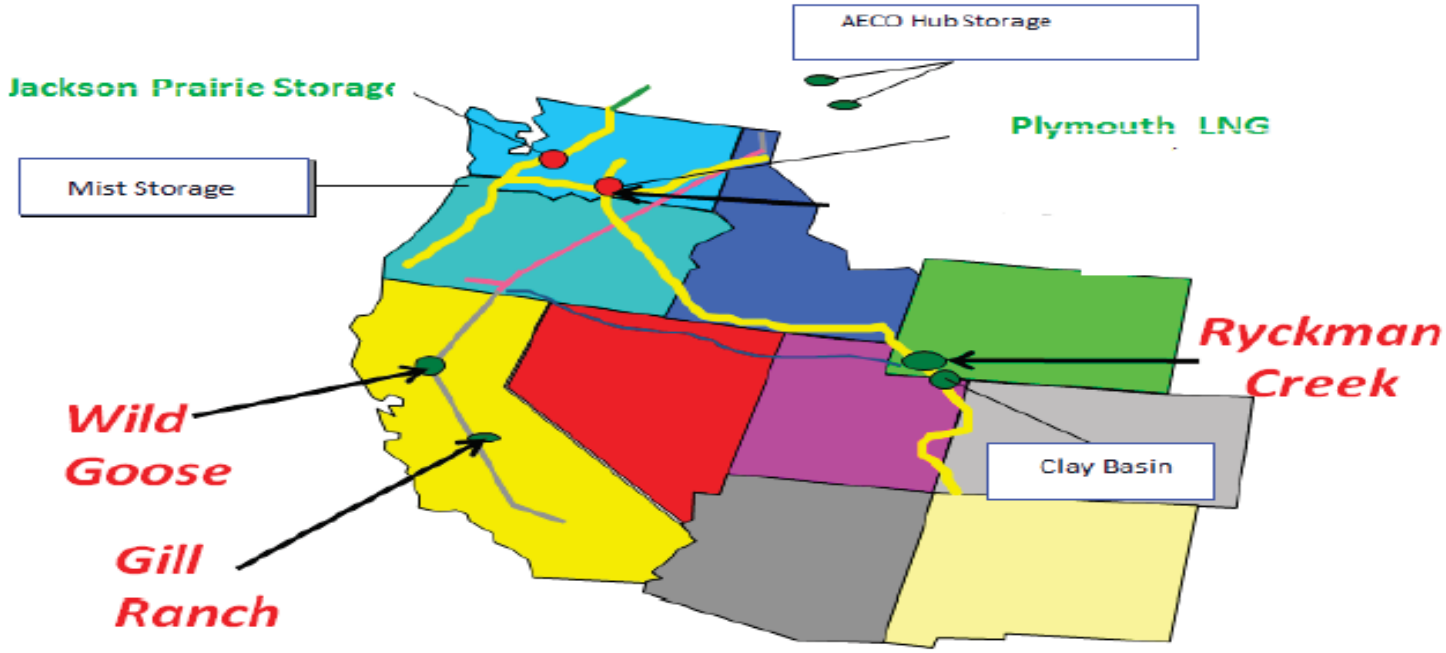
EXAMPLE OF POSSIBLE CNGC WINTER TRANSPORT CAPACITY FLOW



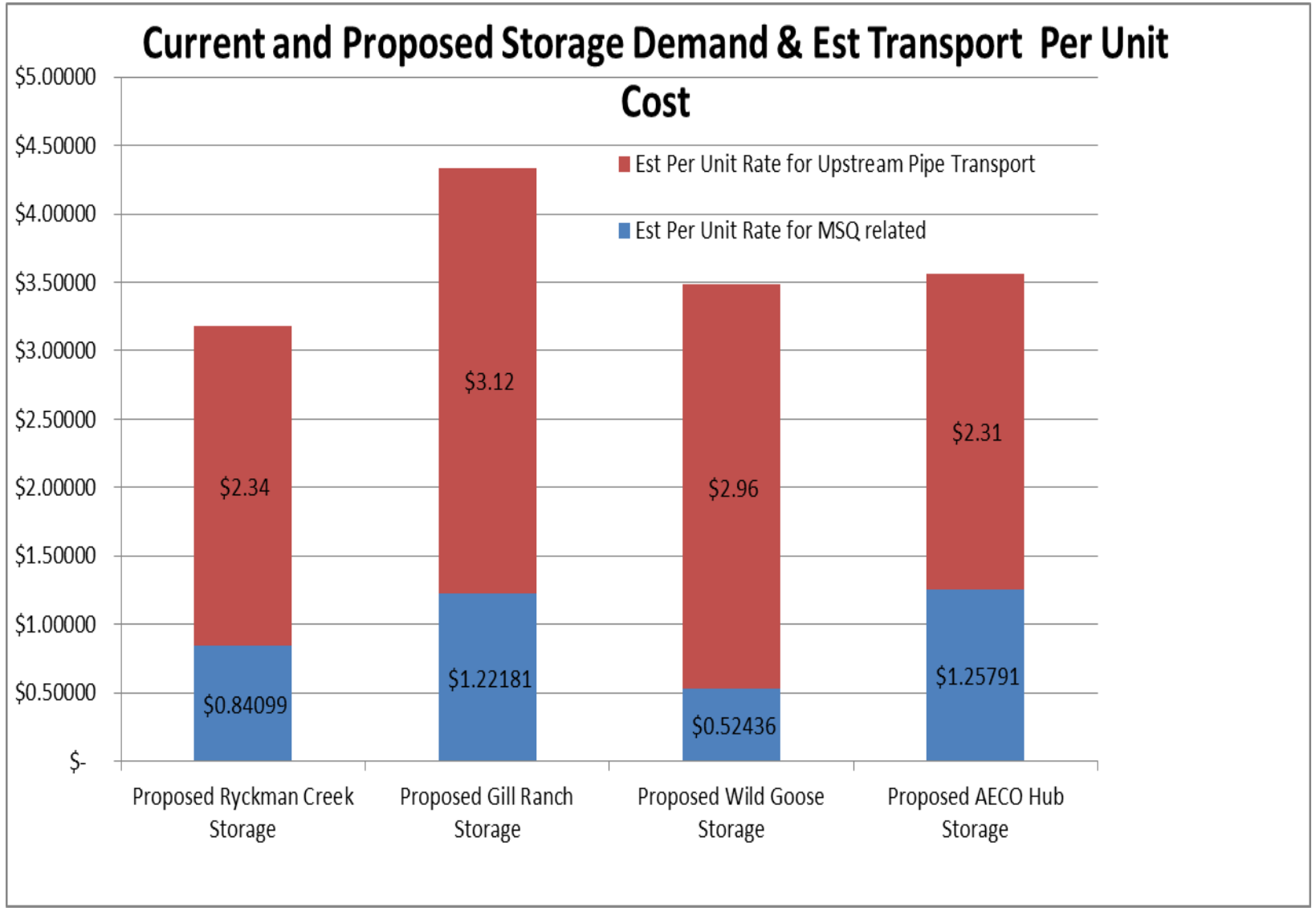


MODEL NAME	CONTRACT LOCATION TYPE	PIPELINE	PRICE TYPE	XPIRY DATE	OTHER COMMENTS	PRICE OR INDEX BASIS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SAT LNG 30-S	Satellite LNG Zone 30-S	CNG	NYMEX		RUN AT VARIABLE VOLUMES UP TO THE AMOUNT		1,000	1,000	1,000								1,000	1,000
SAT LNG OR	Satellite LNG Zone Oregon	CNG	NYMEX		RUN AT VARIABLE VOLUMES UP TO THE AMOUNT		1,000	1,000	1,000								1,000	1,000

Regional Storage



Storage Account	MSQ (Maximum Storage Quantity) or Working Inventory	Estimated Annual MSQ Demand Costs	Est Per Unit Rate for MSQ related	Est Daily Charges	Avg Daily MSQ Unit Rate of Services		Transport	Incremental Transport Needed	Total Transport Needed to cycle storage once	Est Per Unit Rate for Upstream Pipe Transport	Storage Associated MSQ Charges	Totals
Proposed Ryckman Creek Storage	350,000	$ 294,348	$ 0.84099	$ 806	$ 0.00230		15,000	Ruby, GTN	$ 818,208	$ 2.34	$0.84099	$ 3.18
Proposed Gill Ranch Storage	350,000	$ 427,634	$ 1.22181	$ 1,172	$ 0.00335		15,000	PG&E, GTN	$ 1,090,536	$ 3.12	$1.22181	$ 4.34
Proposed Wild Goose Storage	350,000	$ 183,526	$ 0.52436	$ 503	$ 0.00144		15,000	PG&E GTN	$ 1,036,778	$ 2.96	$0.52436	$ 3.49
Proposed AECO Hub Storage	350,000	$ 440,270	$ 1.25791	$ 1,206	$ 0.00345		15,000	NWP, GTN	$ 807,000	$ 2.31	$1.25791	$ 3.56


Current and Proposed Storage Demand & Est Transport Per Unit Cost
Est Per Unit Rate for Upstream Pipe Transport
Est Per Unit Rate for MSQ related
$5.00000
$4.50000
$4.00000
$3.50000
$3.00000
$2.50000
$2.00000
$1.50000
$1.00000
$0.50000
$-
$2.34
$0.84099
$3.12
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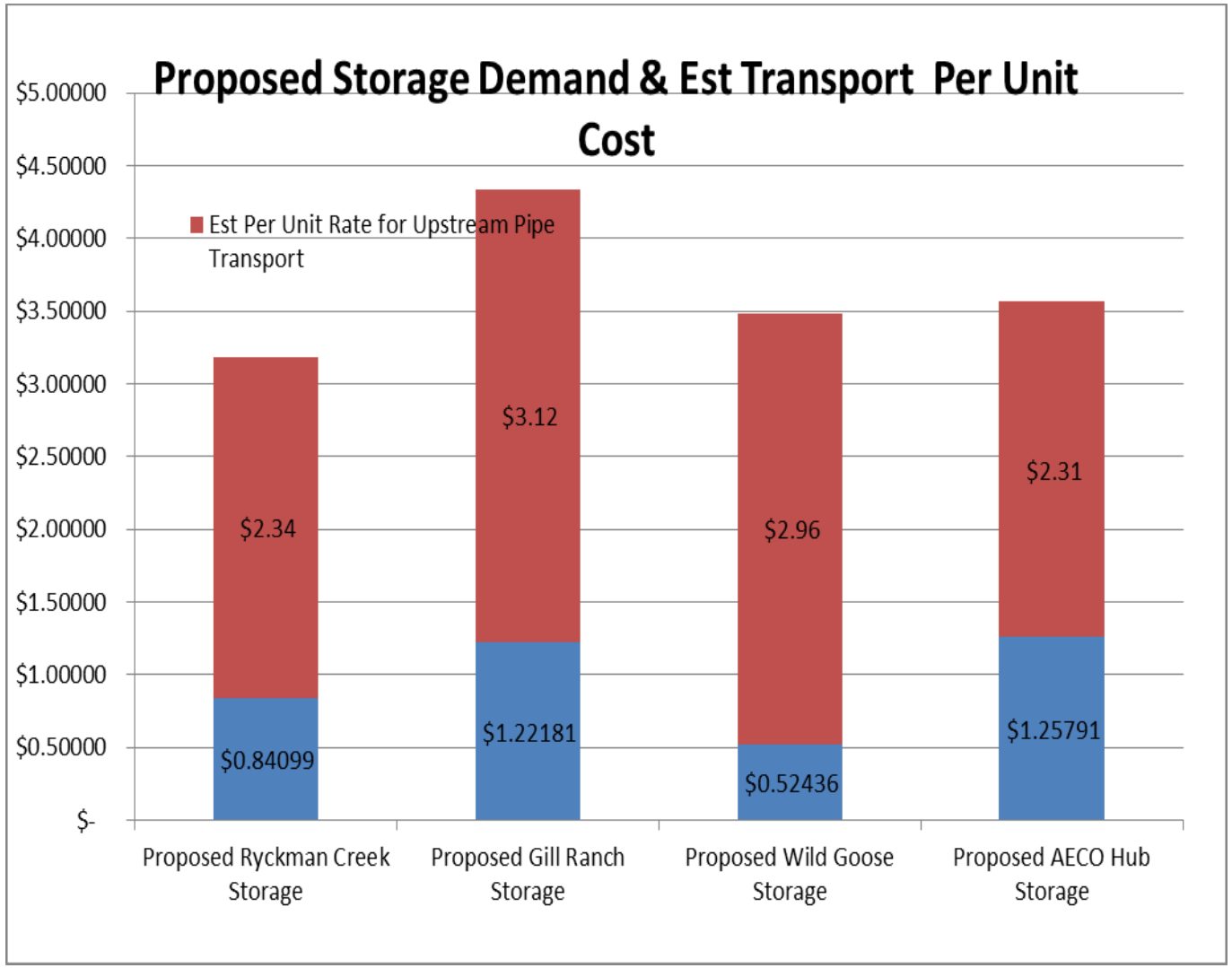
Proposed Ryckman Creek Storage
Proposed Gill Ranch Storage
Proposed Wild Goose Storage
Proposed AECO Hub Storage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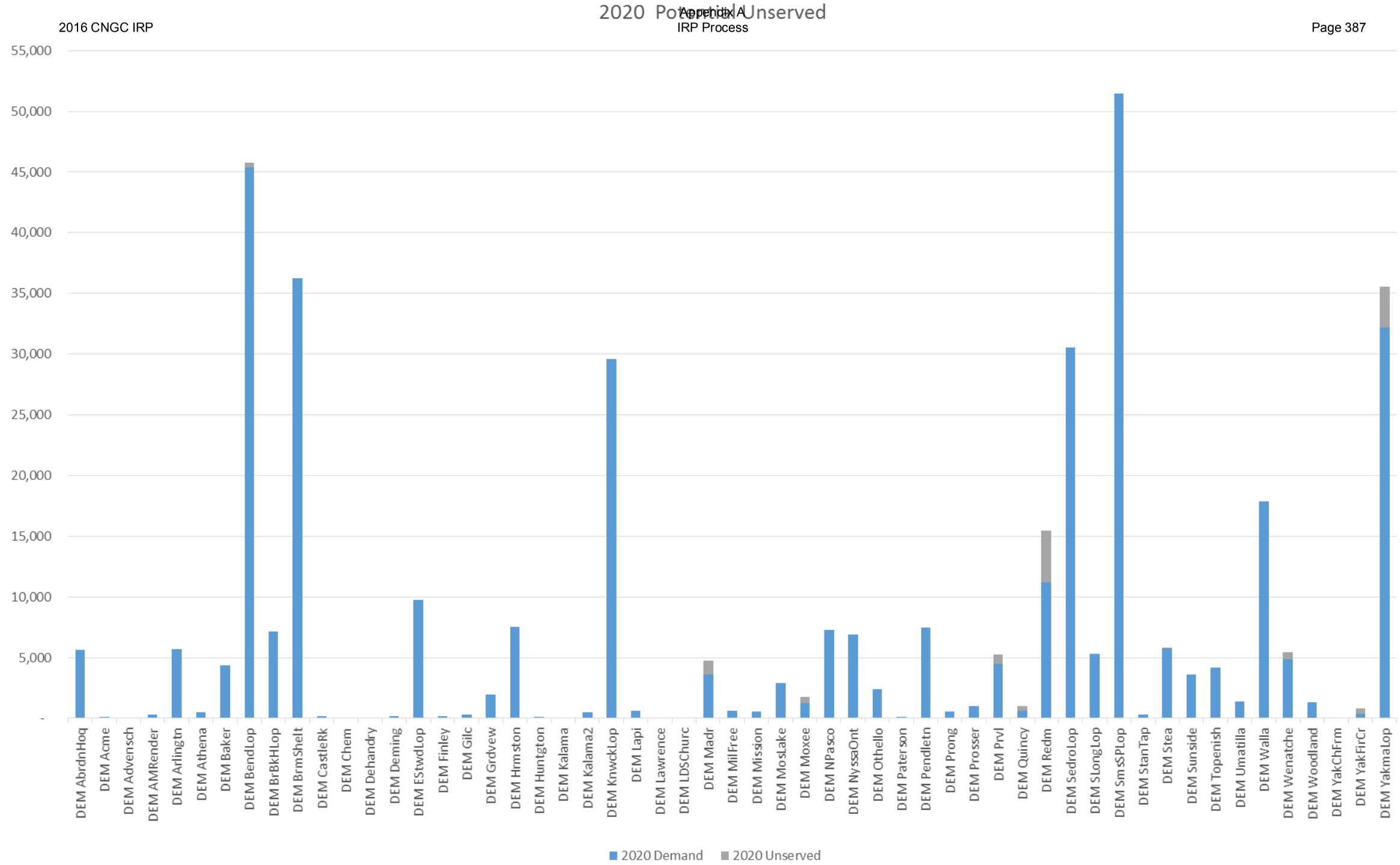
Est Per Unit Rate for Upstream Pipe Transport
$2.34
$0.84099
$3.12
$1.22181
$2.96
$0.52436
$2.31
$1.25791
Proposed Ryckman Creek Storage
Proposed Gill Ranch Storage
Proposed Wild Goose Storage
Proposed AECO Hub Storage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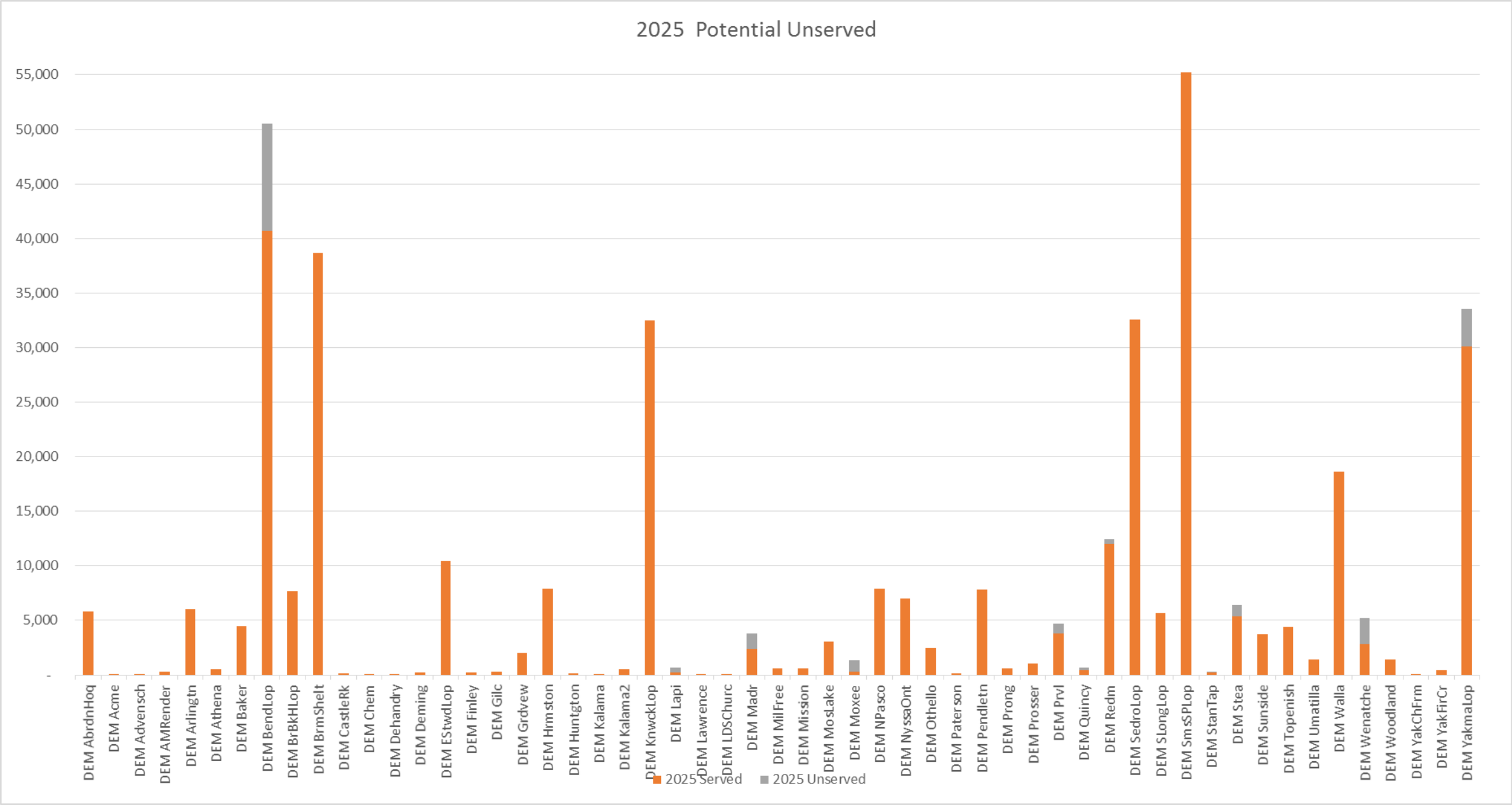
2020 Demand
2020 Unserved


2025 Potential Unserved
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DEM Sunside
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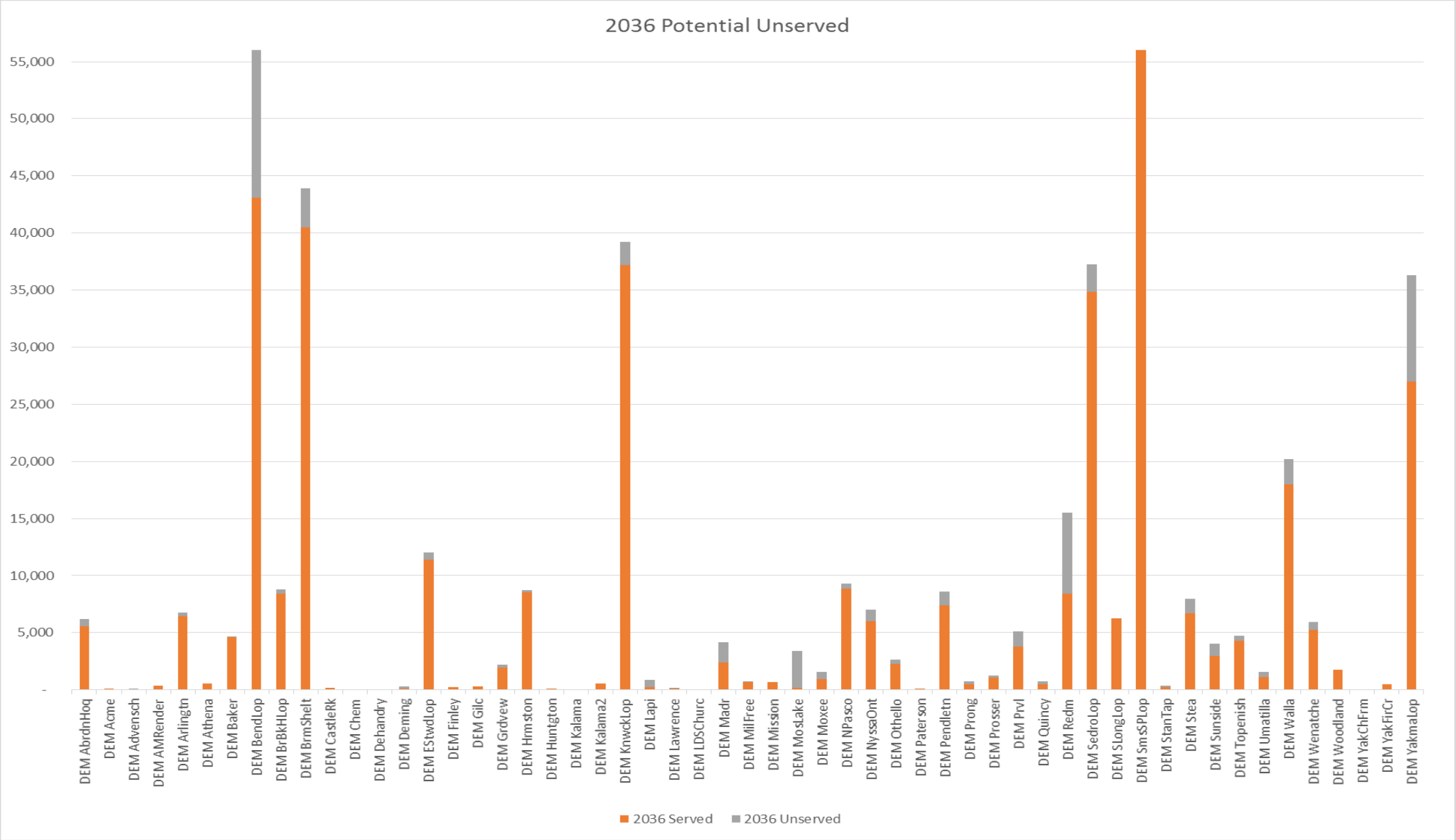
DEM YakmaLop
2025 Served
2025 Unserved


2036 Potential Unserved
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DEM YakmaLop
2036 Served
2036 Unserved

Net Present Value of 20 Year Portfolio

	NPV 20 Year Portoflio (Cost ins $000s)	Averge Cost per Therm
Basecase Scenario	3,881,261	0.38122561
High Load Growth	4,509,405	0.41553591
Low Load Growth	3,863,334	0.40028689
Environmental Externalities Case 1	3,989,232	0.4422217
Environmental Externalities Case 2	4,444,650	0.44663668

Preliminary Scenario NPV

SCENARIO	NPV IN $000	AvgCost per Therm
Base Case	$ 3,881,261	0.381225608
Incremental NWP and TCPL transport		
Ryckman Creek Storage	$ 3,901,832	$ 0.429031
Incremental NWP	$ 4,035,736	$ 0.440697
AECO Hub Storage	$ 4,075,324	$ 0.447559
Incremental TCPL	$ 4,075,324	$ 0.450187
Incremental Ruby	$ 4,230,575	$ 0.458614
Wild Goose Storage	$ 4,438,028	$ 0.459377
Gill Ranch Storage	$ 4,482,857	$ 0.463189

2016 IRP Timeline

Friday, October 07, 2016	**TAG 5: Final Integration Results, finalization of plan components**	**Seattle Airport Conference Center**
Monday, October 17, 2016	Draft of 2016 IRP distributed	Kennewick, WebEx
Monday, November 07, 2016	Comments due on draft from all stakeholders	
Thursday, November 17, 2016	TAG 6, if needed	Seattle Airport Conference Center
Wednesday, November 23, 2016	Final IRP goes to press	
Thursday, December 01, 2016	Executive Summary Presentation to Senior Management	Kennewick, WebEx
Wednesday, December 14, 2016	IRP filing in Washington	

NEXT STEPS?

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #4

Thursday, September 15th, 2016

Seattle-Tacoma International Airport
Conference Center

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

4th External TAG Meeting

Date & time: 09/14/2016, 09:00 AM – 12:20 PM

Location: Seattle Airport Conference Center

Presenters: Mark Sellers-Vaughn, Chris Bolton, Brian Robertson & Devin McGreal

In attendance: Mark Sellers-Vaughn, Brian Robertson, Devin McGreal, Chris Bolton, Chris Robbins,

Called in: Bob Morman, Garret Senger, Mike Parvinen, Pam Archer, Eric Wood, Carolyn Stone, Laura Flanders - NWP, Chad Luginbill, Josh Romine, Mark Chiles, Deborah Reynolds, Jeremy Twitchell – WUTC, Jim Abrahamson, Alison Spector, Tom Pardee, Cooper Wright – WUTC,

Minutes by: Carolyn P Stone

Mark began the meeting by welcoming everyone. Mark then went over some safety items for those attending the meeting in person and today's the Agenda.

Brian Robertson then discussed Cascade's New IRP Webpage, see link below:

https://www.cngc.com/rates-services/rates-tariffs/integrated-resource-plan

Presentation #1 – Chris Bolton
Distribution System Planning

- Chris started by going over his presentation outline then did a CNG distribution system overview. Chris stated that there are many factors that go into planning any changes to the current system or adding a new station. For example, you must be aware of residential development growth or additions.
- Chris explained that the Geographic Information System (GIS) helps engineering look at what is currently in place and helps them create system "models". Using GIS and other input data they can create their models using a program called "Synergi". Slide #12 shows a model.
- Data is gathered from many sources. CC&B gives customer billing information, showing "usage". Resource Planning provided growth and historical weather data. SCADA data provides historical flow. Peak Heating Degree Day is calculated as follows HDD = 60 - day max + day min/2, then they matches weather data to zones.
- Loads are applied to each customer on Page #20, 40 DD is load. The Peak design day model gives peak load, 58 DD. Synergi compiles customer data, pressures and flows. The model has many benefits in planning and optimization.

Question: Mark asked if most LDC's use Synergi?
Answer: Yes!

- Chris stated that all customer data is loaded based on trend. IRP growth data helps to predict next year's load growth. The model shows the worst case scenario.
- Next few slides show the PROS and CONS of various enhancements and upgrades. There are many CONS associated with replacement of a Compressor Station. Chris stated CNG only has 1 and upgrading this wouldn't increase capacity!
- On Page 31 shows the Project Process Flow from data inputs to considerations & plans to schedules.
- On Page 33 there is an area of potential growth in the NE and shows the Stanwood Project.
- On Page 37, the Walla Walla project shows potential growth in the SE. This upgrade will add capacity!

Presentation #2 – Mark Sellers-Vaughn
Sendout Optimization Modeling

- Mark started out by stating that Brian Robertson and Devin McGreal have had the monumental task of modeling in Sendout. They started from scratch and there is quite a bit more to do. Our ABP Vendor was very helpful also! KUDOs were also given to Mark for his work on the IRP. It is a huge project and everyone is impressed with where we are at this time.

- Mark stated that the Sendout is optimization modeling using base case scenarios.

- Brian Robertson continued stating the model includes transport and storage contract information. It uses linear programming. It is a good tool to use but not the final answer! It is very powerful and complex.

    - They started by using the PGA portfolio data
    - There are 66 delivery locations
    - Transportation contracts & rates are included
    - Includes rates
    - Contractual information can be overly restrictive
    - Operational can be overly flexible!

Modeling Challenges, Page 44:

- We have more delivery rights than receipt rights!
- Sendout has perfect knowledge

Question: What does that mean "Perfect Knowledge"?
Answer: It means that Sendout has complete knowledge of data but we have to apply our knowledge of the "real world" in order to make good decisions!

Page 45, Monte Carlo Simulations

- Mark reminds that there are 200 simulations, 100 of each are combined, using variable & Fixed costs
- Mark also stated that this piece of Sendout is not yet completed. It won't be until the end of the month and is to be presented at TAG #5.

Question: Have you found that there is a correlation between weather and price?
Answer: Generally, we don't see this correlation.

Page 47, Base Case Inputs

- Supply (from AECO, Sumas, PAL, uses current, 1st year contracts)
- Storage
- Transport
- Demand
- Price Forecast
- Weather – Normal

Page 50, Supply Base & Fixed:

Question: How many times have we contracted for peak day resources?
Answer: For peak days we either use contracts designated as peak day supply OR storage.

Page 63, Storage

- This page shows a storage example from the Sendout. JP has 4 contracts and Plymouth 2
- Storage targets are:
    - 35% for the end of June
    - 80% end of August
    - 100% at the end of September
- Northwest Pipeline tariff requires the above breakdown
- Information that is PUBLIC is shown only

Page 68, Delivery Rights vs Receipt Rights

- Cascade has more delivery rights than receipt rights, 457K Dth f Delivery Rights and 360K Dth of Receipt rights. Page 69 shows the flexibility we have because of the increased Delivery Rights. Page 70 shows the inflexibility with Delivery Rights using CNG's NWP contract #135558.

Question: What is the value of getting more granular from Gate Station to Climate Zone?
Answer: To help avoid future costs and pressure problems.

Question: Is the analysis disaggregated such that the City gates are not serving multiple communities?
Answer: It is set up as a "Demand Center"

Page 81, Weather

Question: Why did you pick "normal" weather data to use?
Answer: We will get an explanation of the reason for this for you.

Page 88, Major Resource issues on the Horizon

NWP limitations…

Question: Is the NWP I-5 expansion off the table?
Answer: The naming convention of this project has changed but it is NOT off the table.

Currently there is nothing concrete in the works for Biofuel at this time.
We are still considering storage options.

Question: Ryckman Creek?

Answer: Still considering it.

Page 91, Avoided Cost Overview (costs avoided via conservation)

- Costs include the long term gas price forecast
- The above, is the majority of costs!
- There is a 10% adder for environmental benefits.
- Carbon price
- Storage variable/fixed costs
- Transmission costs

Question: The Washington State Dept. of Ecology issued a new carbon rule. This could create obligations for the future. Should it be factored into this calculation?
Answer: Mark stated that it could be a big deal.

Question: How would we model it?
Answer: Factor CO^2 into Avoided Costs. In the sensitivities analysis (page 89) we pick that up a bit…

Question (directed to Staff): What is your comfort level in modeling the new carbon rule?
Answer (from Staff): Don't sweat it too badly. In the future you can model this more accurately.

- Mark stated that the tight timing for the IRP won't allow us to do this right now.
- It might be put into the "Clean Power Plan". It directly affects power.
- It begins in 2017, 7% per year 2017, 2018 & 2019
- The first demonstration of compliance has to happen in 2020.
- It could be litigated!

Question: At least we should acknowledge the rule is in place and posit some assumptions or impact?
Answer: We will put it into future IRP's

Question: Should we create a supplemental filing?
Answer: It doesn't really have an impact. The Carbon cap reflects costs for emissions. Costs to the customer – they will pay for emissions. Avoided costs and conservation costs will increase.

Page 94, System Avoided Costs Layers (dollars in therms)

- Avoided costs are still subject to change depending on when we lock in storage & transport.

- Monica Cowlishaw stated that she will use the numbers she has now to run the TeaPOT model.

Page 98, Current & Proposed Storage Demand & EST Transport Per Unit Cost

- Mark states that Ryckman looks the most attractive here!

Page 100, 2020 Potential Unserved

Question: Is it possible to highlight the Washington points on this chart?
Answer: YES!

Page 104, Preliminary Scenario NPV

- 3.8 billion over 20 years!
  - Includes some combination of NWP & GTN
  - Includes a portion of Ryckman Storage
  - Options of transport but none clearly stand out
  - Some concerns as follows:
    - Ryckman would primarily be used to Oregon's benefit.
    - Ryckman has reliability concerns. We need to address whether to decide for Oregon now or wait until the Oregon IRP?

Question: What are the implications??
Answer: The model wants Rickman, NWP & GTM, 100m over 20 years! California transport will be needed for using Ryckman. The Base Case assumes Ryckman Creek, NWP & GTN.

Question: What about the expansions cost?
Answer: The cost is reasonable to the rate payer. Is resource reasonableness outside of cost?

Question: If just considering cost, then the answer is obvious? Is the opportunity closed?
Answer: Mark states that credibility of the party is at issue. Senior management (GSOC) has a cautious viewpoint! Washington would end up paying for it.

Question: The IRP gives indication to a likely direction but doesn't hold you to that option?
Answer: Yes, senior management makes a reasonable decision. If the Commissioners agree, then OK. If you don't look at all the factors in this choice you could be penalized!

Questions & Discussion: Mark states that if we were to mention the subject to Oregon we could do so in a conceptual viewpoint. Right now we have an aggressive timeline. We don't want to expose ourselves to issues that will come back to "bite" us later. Mark asks for another day to do additional work on the additional resources. The draft is due on Saturday. We could include NWP and GTN in our preliminary scenario and put in draft that we are talking about the NEXT resource.
Answer: Mark states that is already identified.

- Garret stated he liked the discussion today and will be at TAG #5.

- Mark thanks everyone and said the new guidance is extremely helpful!!

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #5

Friday, October 14th 2016

CNGC Headquarters

Via WebEx

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

AGENDA

- Safety and housekeeping items
- Introductions
- Model Selection and Explanation of Resources Taken
- Monte Carlo Discussion
- Results
- Action Plan
- 2016 IRP Timeline
- Adjournment

Current Resources

- Our current resources models our system over a 20 year period which includes:
  - Current Supply Sources.
  - Current Storage.
  - Current Transport – Note: for modeling purposes we assume all existing transportation contracts will be renewed if they expire over the 20 year time horizon.
- This run allows the company to see what the model does without the alternative resources attached. It sets a bench mark to test the validity of the information (for instance comparing first year system cost to the most recent PGA).

Types of Supply - Summary

- Base – Can be listed as “Base” or “Fixed” this is an annual supply that we must take if we contract it.
- Winter – This is another supply that we must take, but is only available during the winter season (November-March).
- Day Gas – Can be broken down by winter and summer day gas. We only have to take what we need of this type of gas, and because it is more flexible, it is more expensive than Base or Winter gas.
- Peak – Used to serve demand when all other options are exhausted. It is also the most expensive type of gas.

KEY ELEMENTS IN SENDOUT SCENARIO

Current Station2	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**
Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**
Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Pea**
Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**
Current Foothills	**PLY-1**	**KINGSGATE BASE**
Current Ruby	**PLY-2**	**OPAL BASE**
		KERN WINTER
		STAT2 BASE
Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***
Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***
NWP I-5 EXP	***Mist Storage***	***Satellite LNG***
Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***
NWP Wen EXP	***Aeco Hub Storage***	
Incremental Foothills		
NWP Z20 EXP		
Incremental GTN STARRD		
T-South-So Crossing		
TRAIL MAX/N-MAX		
NWP East OR EXP		
Incremental GTN S-N		
Pacific Connector		

Assumptions

- Incremental Transport
- Incremental Storage
- All In
- Expected Case

Incremental Transport

- Incremental Transport is tested next as it was our belief that this was the main shortfall.
- All Incremental Transports began on Nov. 2017 Except:
  - NWP East OR which begins Nov 2021.
  - I-5 Expansion begins Nov 2020, with realignment of MDDOs to 30-W starting Nov 2017.
- Anticipate rates will be negotiated, however we will provide incremental transport rates under confidential treatment.
- Transport is only sized once over the simulation.

KEY ELEMENTS IN SENDOUT SCENARIO

Current Station2	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**
Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**
Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Pea**
Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**
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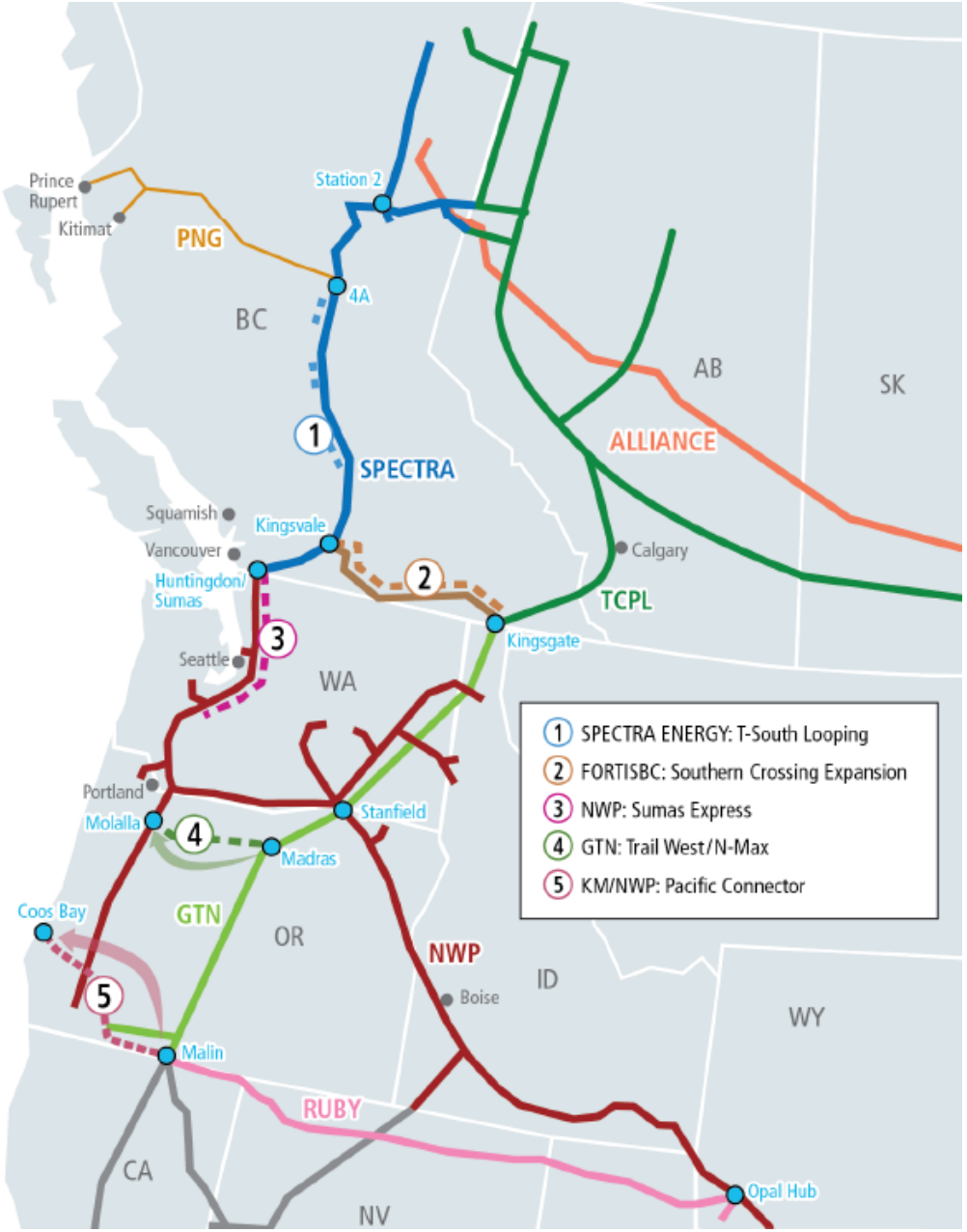
NWP Wen EXP	***Aeco Hub Storage***	
Incremental Foothills		
NWP Z20 EXP		
Incremental GTN STARRD		
T-South-So Crossing		
TRAIL MAX/N-MAX		
NWP East OR EXP		
Incremental GTN S-N		
Pacific Connector		


Prince Rupert
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Station 2
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AB
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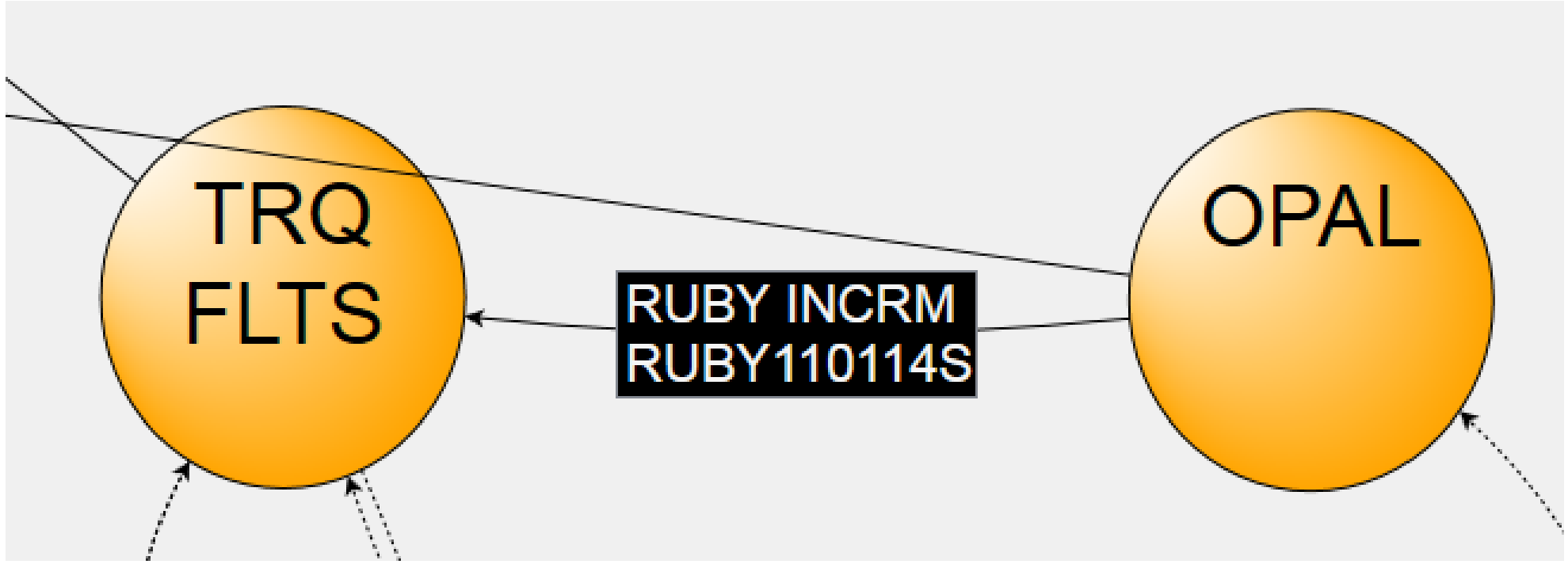
ALLIANCE
1
SPECTRA
Squamish
Kingsvale
Vancouver
Huntingdon/ Sumas
2
Calgary
TCPL
Kingsgate
3
Seattle
WA
Portland
Molalla
4
Madras
Stanfield
Coos Bay
GTN
OR
NWP
ID
Boise
WY
5
Malin
RUBY
CA
NV
Opal Hub
1 SPECTRA ENERGY: T-South Looping
2 FORTISBC: Southern Crossing Expansion
3 NWP: Sumas Express
4 GTN: Trail West/N-Max
5 KM/NWP: Pacific Connector


TRQ
FLTS
RUBY INCRM
RUBY110114S
OPAL

Incremental Storage

- We model 4 different potential storage facilities to check for potential price opportunities, as well as to meet load.
- All storages are modeled to begin in April 2018.
- Anticipate rates will be negotiated, however we will provide incremental storage rates under confidential treatment.
- Storage is only sized once over the simulation.

KEY ELEMENTS IN SENDOUT SCENARIO

Current Station2	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**
Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**
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NWP Wen EXP	***Aeco Hub Storage***	
Incremental Foothills		
NWP Z20 EXP		
Incremental GTN STARRD		
T-South-So Crossing		
TRAIL MAX/N-MAX		
NWP East OR EXP		
Incremental GTN S-N		
Pacific Connector		

All In Scenario

- In addition to Incremental Transport and Storage, we include:
  - Yakima satellite LNG Facility to serve additional unserved demand.
  - Opal Incremental Supply to see if it would interact with storage.
- This scenario serves as the foundation for us to see what resources are taken to meet system demand with the least cost mix of natural gas supply and conservation.[1]

1 WAC Rule 480-90-238

KEY ELEMENTS IN SENDOUT SCENARIO

Current Station2	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**
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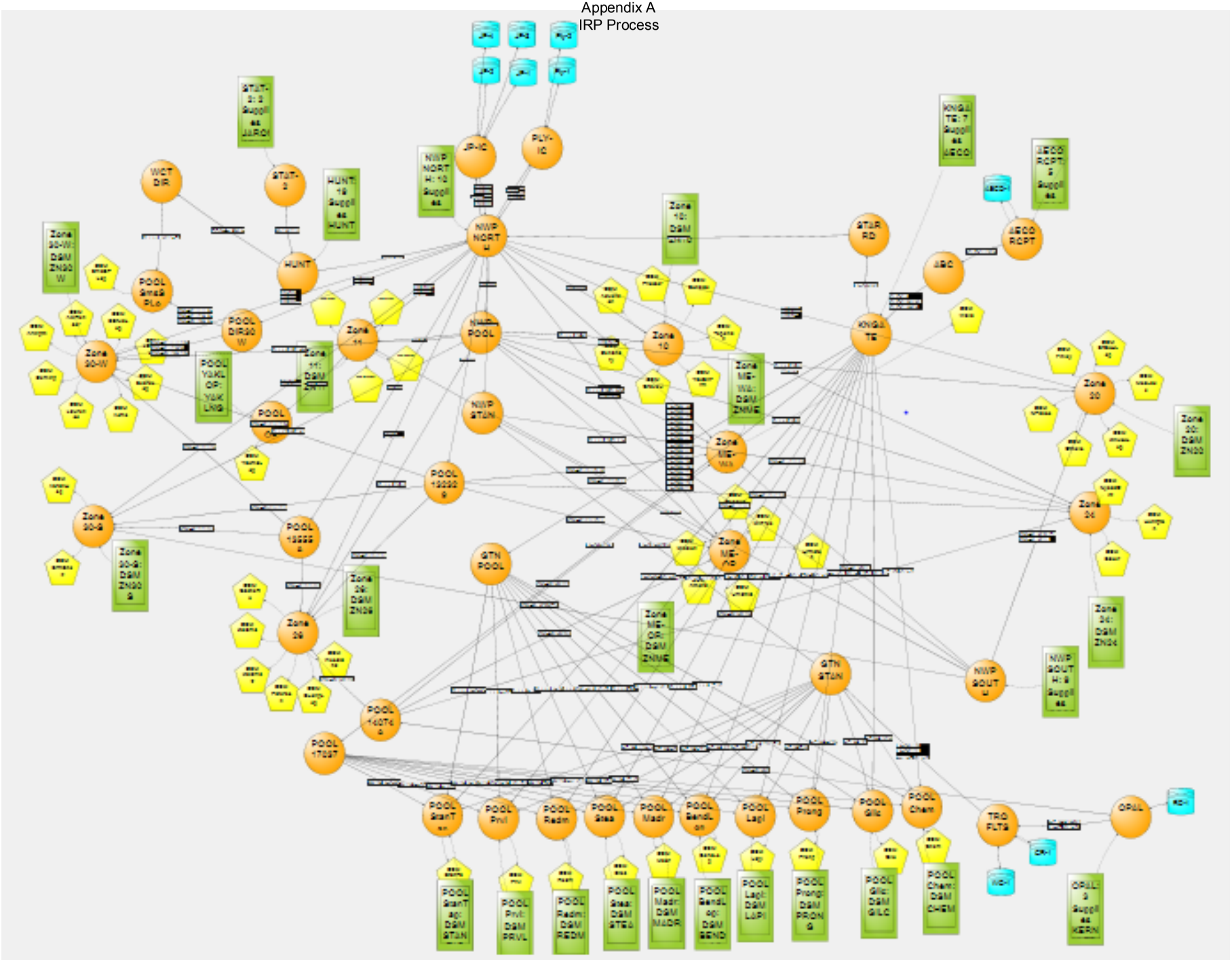
NWP Wen EXP	***Aeco Hub Storage***	
Incremental Foothills		
NWP Z20 EXP		
Incremental GTN STARRD		
T-South-So Crossing		
TRAIL MAX/N-MAX		
NWP East OR EXP		
Incremental GTN S-N		
Pacific Connector		


JP-IC
PLY-IC
NWP NORTH
WCT DIR
HUNT
POOL
NWP STUN
GTN POOL
GTN STUN
NWP SOUTH
STUR RD
ABC
ARCO RCPT
OPUL
TRO FLTS
POOL Chem
POOL Glic
POOL Prong
POOL Lagl
POOL Bend
POOL Madr
POOL Stea
POOL Redm
POOL Privl
POOL GrantT

Expected Scenario

- Re-Run the optimization removing the resources SENDOUT does not select in the All-In case.
  - Allows us to confirm that removing these resources does not impact the amount of served demand.
  - Removes fixed costs associated with the resources not taken to provide a true total system cost.

KEY ELEMENTS IN SENDOUT SCENARIO

Current Station2	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**
Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**
Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Pea**
Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**
Current Foothills	**PLY-1**	**KINGSGATE BASE**
Current Ruby	**PLY-2**	**OPAL BASE**
		KERN WINTER
		STAT2 BASE
Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***
Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***
NWP I-5 EXP	***Mist Storage***	***Satellite LNG***
Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***
NWP Wen EXP	***Aeco Hub Storage***	
Incremental Foothills		
NWP Z20 EXP		
Incremental GTN STARRD		
T-South-So Crossing		
TRAIL MAX/N-MAX		
NWP East OR EXP		
Incremental GTN S-N		
Pacific Connector		

Total System Costs ($000)

Scenario	Total System Cost	Average Cost/Served Therm
As-Is	4,213,446	0.5951053
Incremental Transport	4,085,782	0.5766252
Incremental Storage	4,085,782	0.5766252
All In	4,085,939	0.5766167
Expected Case	4,073,121	0.5748078

Alternative Resources Selected

- Transport:
  - Incremental GTN – Allows us to continue to serve customers as we grow in Citygates that are fed by our GTN capacity, specifically around Bend, Oregon where we expect shortfalls.
  - I-5 Expansion – Allows us to continue to serve customers as we grow around the I-5 corridor, specifically in the Sumas area.
  - Wenatchee Expansion – Allows us to continue to serve customers as we grow in Central Washington.
  - Spokane Expansion – Allows us to continue to serve customers as we grow in Eastern Washington.
  - Incremental Starr Road – Allows us the flexibility to move gas off of GTN and onto NWP through Starr Road when needed, displacing potential incremental NWP capacity.
  - Eastern Oregon Expansion – Allows us to move gas from NWP to serve Eastern Oregon.

Alternative Resources Selected

- Supply:
  - Yakima Satellite LNG Plant – Allows us the opportunity to serve demand in a cost effective way directly to Yakima, WA without new transport, which in turn helps increase served demand system wide through a displacement of Maximum Daily Delivery Obligations (MDDOs) among existing contracts.

Alternative Resources Not Selected

- Transport
  - Incremental NOVA/Foothills – There is currently no incremental NOVA capacity available. In addition, SENDOUT did not believe there was a cost effective opportunity presented by moving gas along these contracts to Kingsgate versus buying gas at Kingsgate directly.
  - Incremental Ruby / Turquoise Flats – SENDOUT determined it was more cost effective to use incremental transport along GTN to serve the incremental demand these contracts would serve.
- Storage
  - Ryckman Creek, Gill Ranch, Wild Goose, AECO Hub – No incremental storage taken – None of the storage facilities modeled were cost effective, or led to an increase in served demand.

Alternative Resources Not Selected

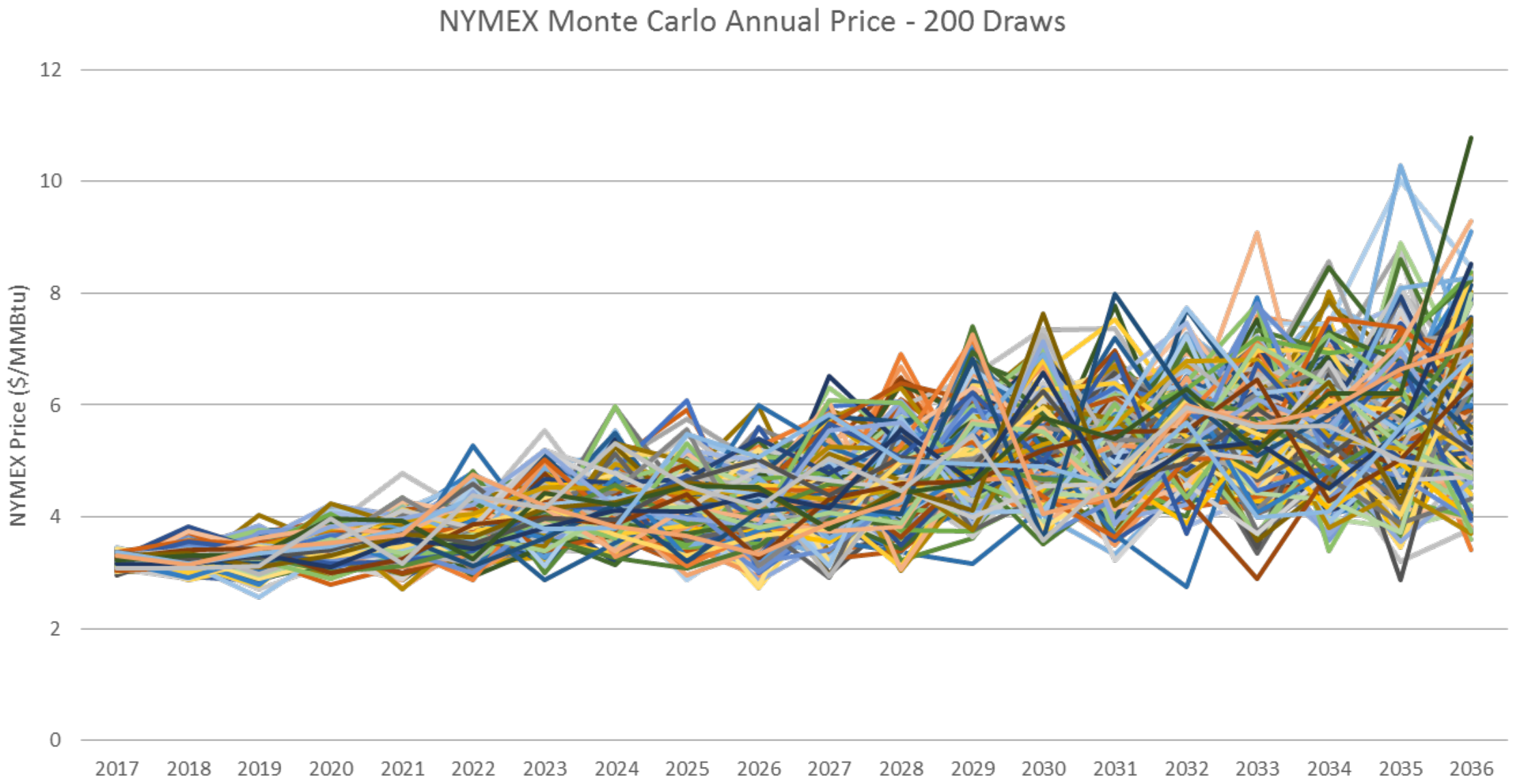
- Supply
  - Opal Incremental – Since SENDOUT determined it was best to serve increasing demand through a GTN Expansion, there was no need to purchase additional gas to move along Ruby.

Monte Carlo Simulations

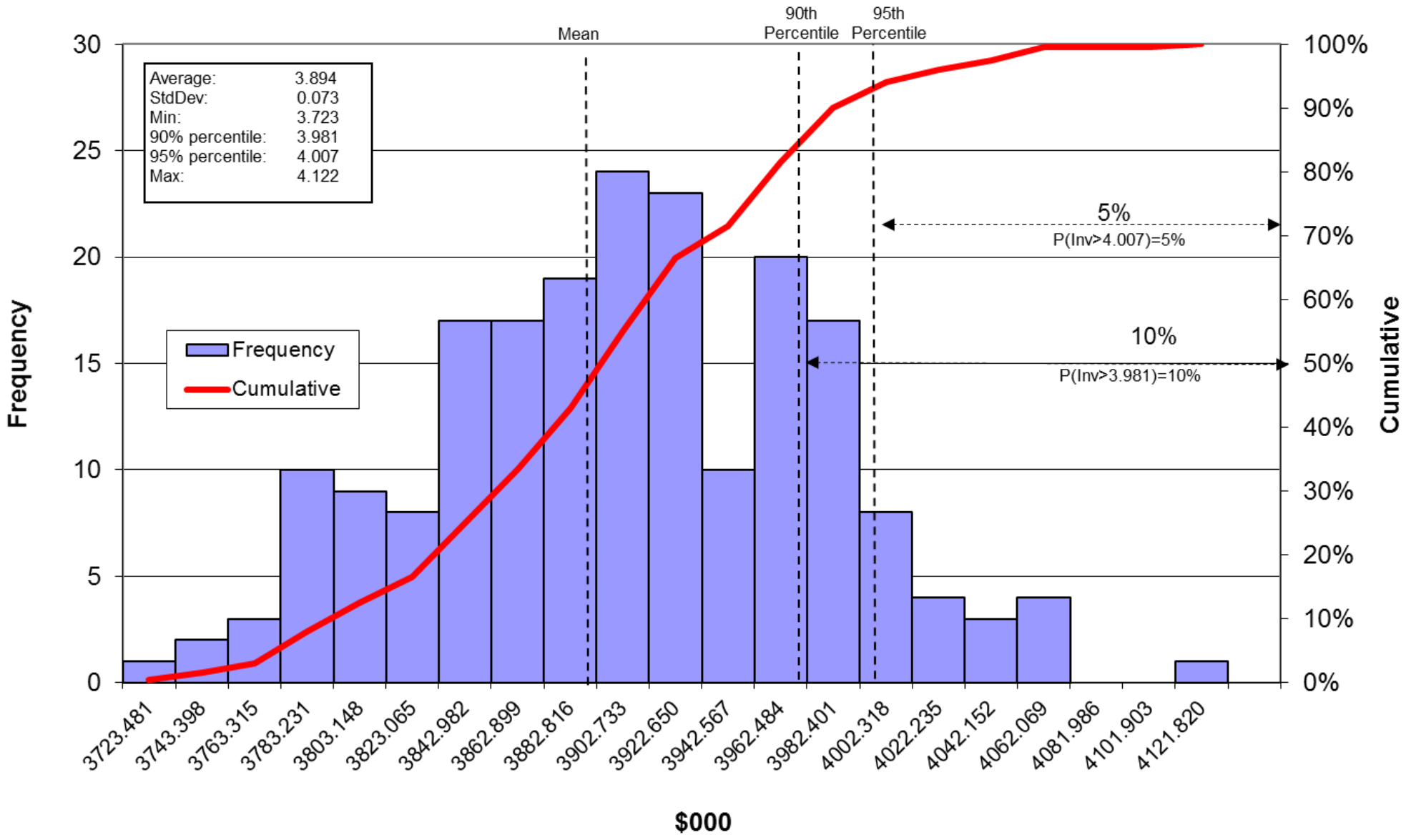
- Monte Carlo – NYMEX price
- Monte Carlo – Weather
- Why not Monte Carlo on both together?
- Results

Monte Carlo – NYMEX Price

- Using our 20 year price forecast as the mean value for the NYMEX market, we had SENDOUT run 200 simulations to stress test our expected case over a variety of different scenarios.
- We also modeled how our expected case would fare with 5 difference assumptions: Low Growth, High Growth, a 10% Carbon Adder, a 20% Carbon Adder, and a 30% Carbon adder.
- This ensures that our expected resource portfolio is still the optimal choice even in extreme pricing situations.


NYMEX Monte Carlo Annual Price - 200 Draws
NYMEX Price ($/MMBtu)
0
2
4
6
8
10
12
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036

Total System Cost w/ Expected Customer Growth



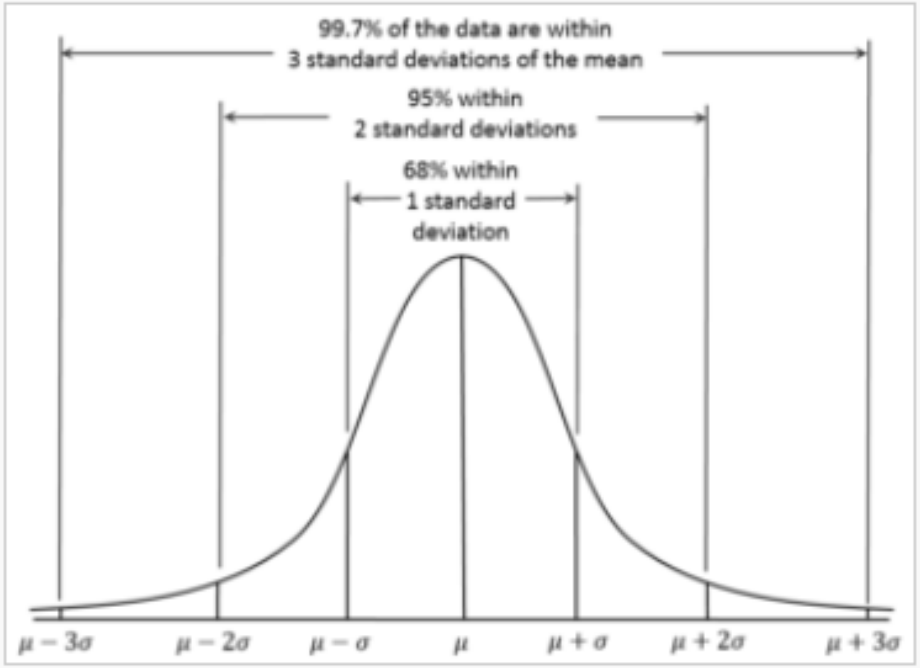
Monte Carlo – Weather

- Using historical weather, we had SENDOUT run 200 simulations to stress test our expected case over a variety of different scenarios.
- We also modeled how our expected case would fare with 5 difference assumptions: Low Growth, High Growth, a 10% Carbon Adder, a 20% Carbon Adder, and a 30% Carbon adder.
- This ensures that our expected resource portfolio is still the optimal choice even in extreme weather situations.

Monte Carlo Weather – Normal Distribution

	JAN 2014	FEB 2014	MAR 2014	APR 2014	MAY 2014	JUN 2014	JUL 2014
HDD Mean	1031.8	804.1	639.6	453.9	254.2	92.6	10.3
HDD Std Dev	145.4	133.1	84.4	93.0	72.2	40.4	15.2
HDD Distribution	Normal						
HDD Max	1291	1242	841	641	426	170	75
HDD Min	772	568	448	254	92	19	0
CDD Mean							
CDD Std Dev							
CDD Distribution							
CDD Max							
CDD Min							
Scaling Year	Best Match						

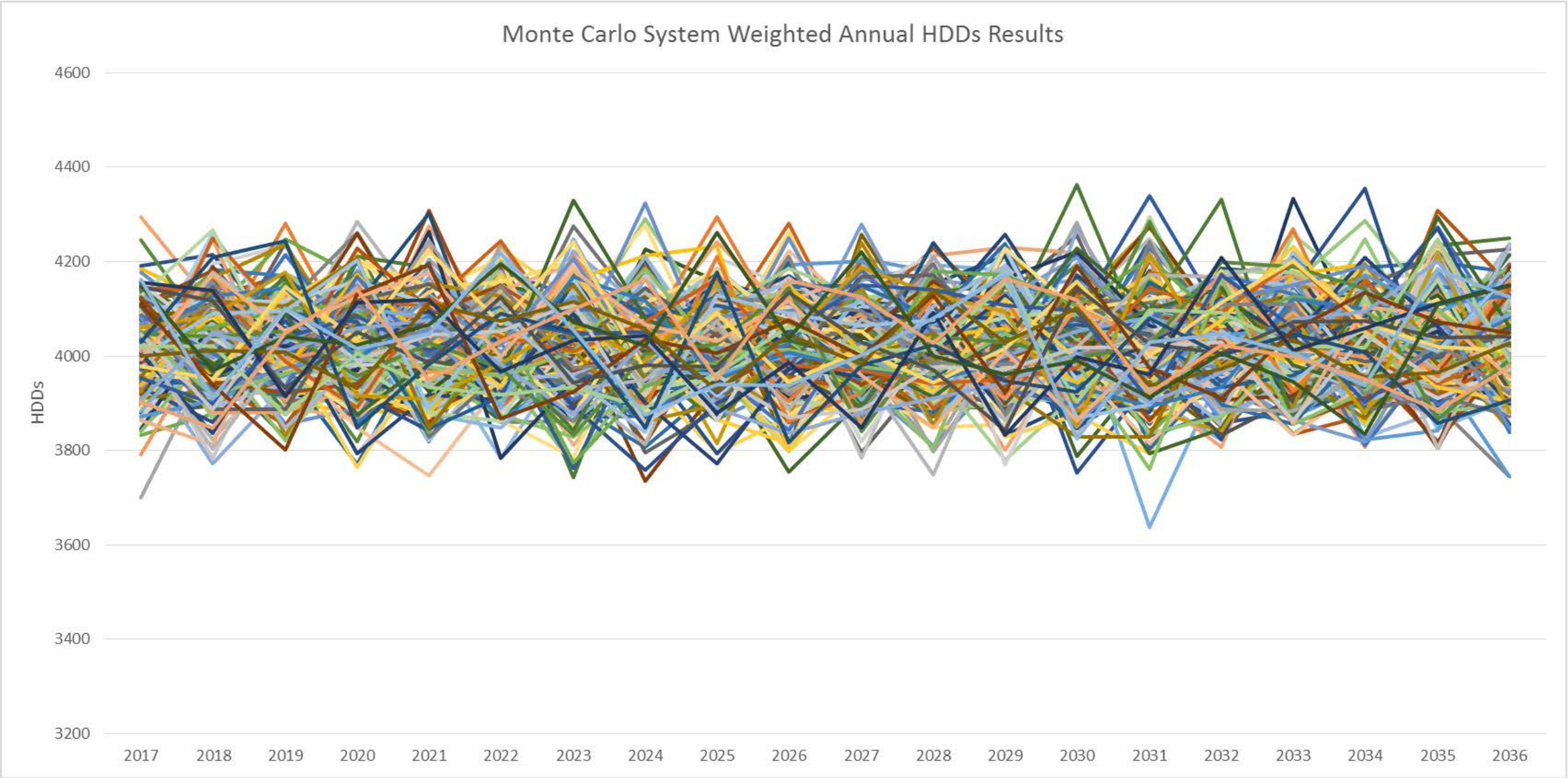
- When following a normal distribution your data will follow the 68%, 95%, 99.7% rule like in the below diagram.

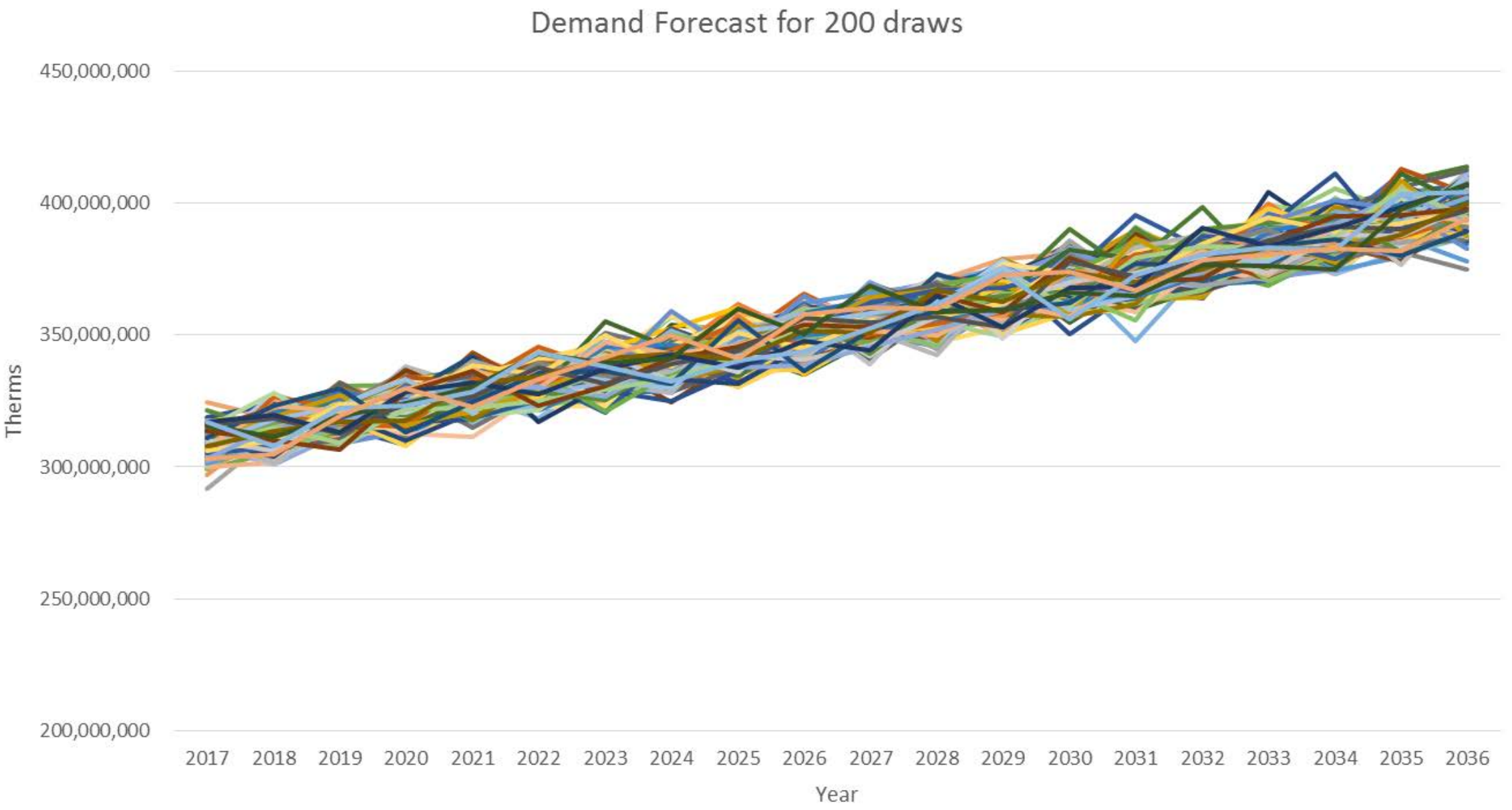


For the normal distribution, the values less than one standard deviation away from the mean account for 68.27% of the set; while two standard deviations from the mean account for 95.45%; and three standard deviations account for 99.73%.

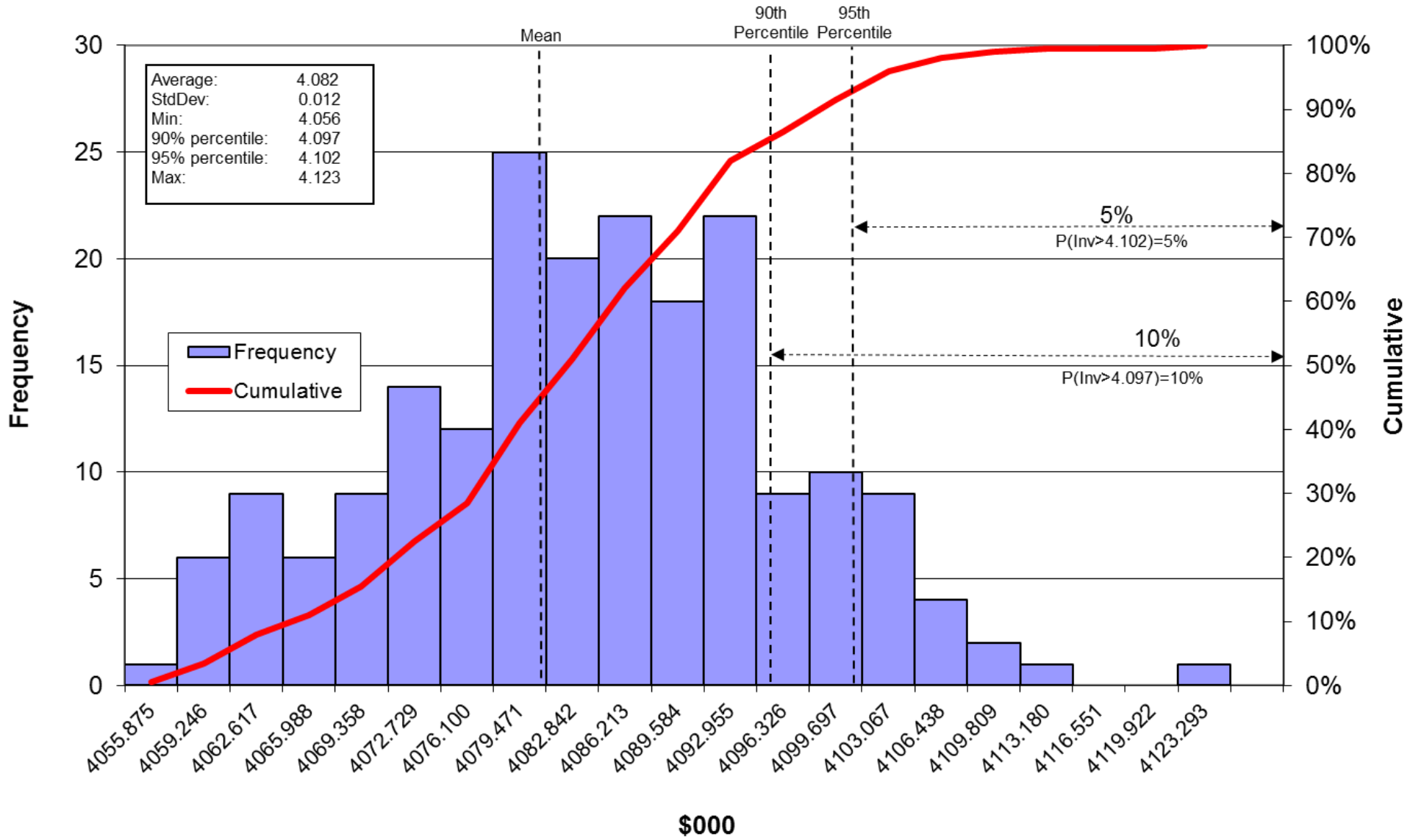
- To build our monthly inputs for SENDOUT we analyze our 30 data samples for each weather location which are the monthly HDD totals for the years 1986-2015. After getting the Mean and standard deviation we can compute how many data samples fall within each range of standard deviations.

	All Months Combined
Within 1 Std Dev	69%
Within 2 Std Dev	96%
Within 3 Std Dev	99.4%


Monte Carlo System Weighted Annual HDDs Results
HDDs
4600
4400
4200
4000
3800
3600
3400
3200
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036


Demand Forecast for 200 draws
450,000,000
400,000,000
350,000,000
300,000,000
250,000,000
200,000,000
Therms
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
Year

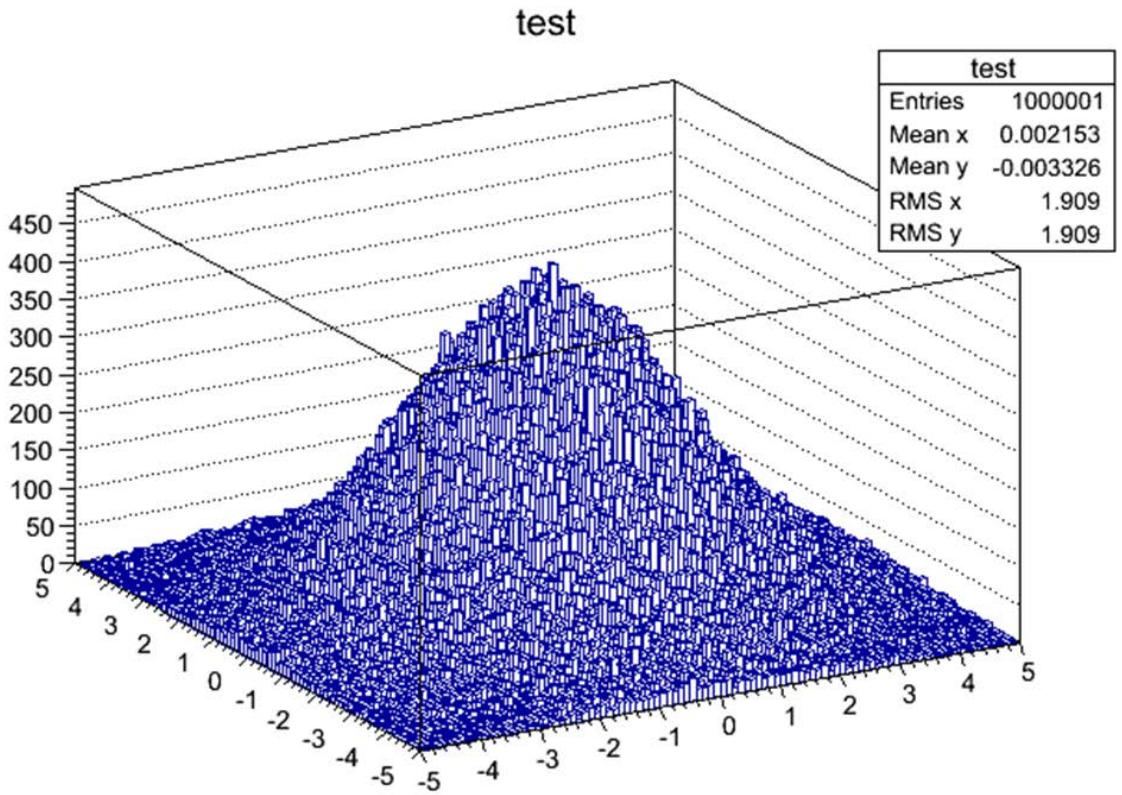
Total System Cost w/ expected customer growth



- What happens when we look at drawing on both price and weather at the same time?

- We can imagine a 3 dimensional histogram, instead of the 2 dimensional histograms on the previous pages. Filling this in takes many more draws.

- 200 draws of weather on the X axis and 200 draws of price on the Y axis might need 200 x 200 = 40,000 draws to fill in a histogram like this…

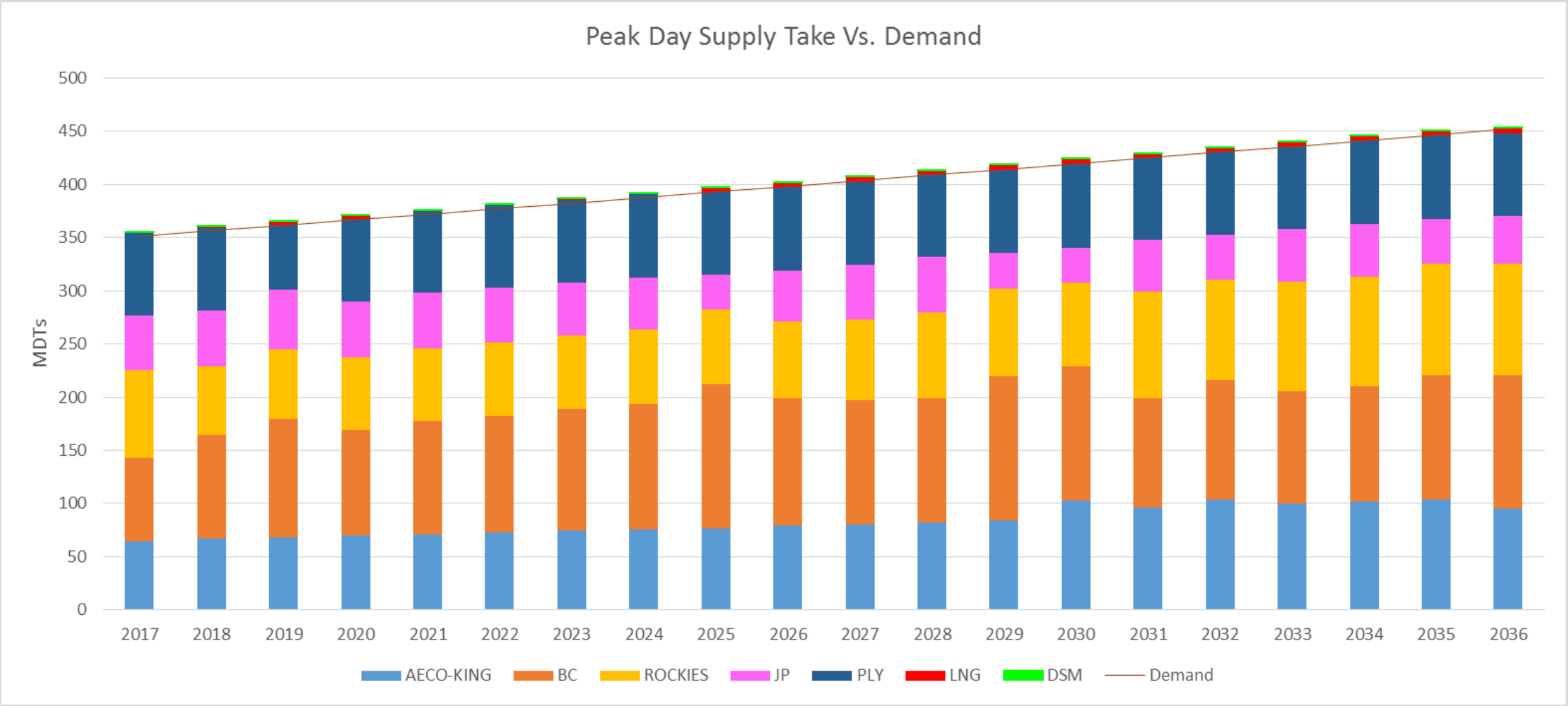


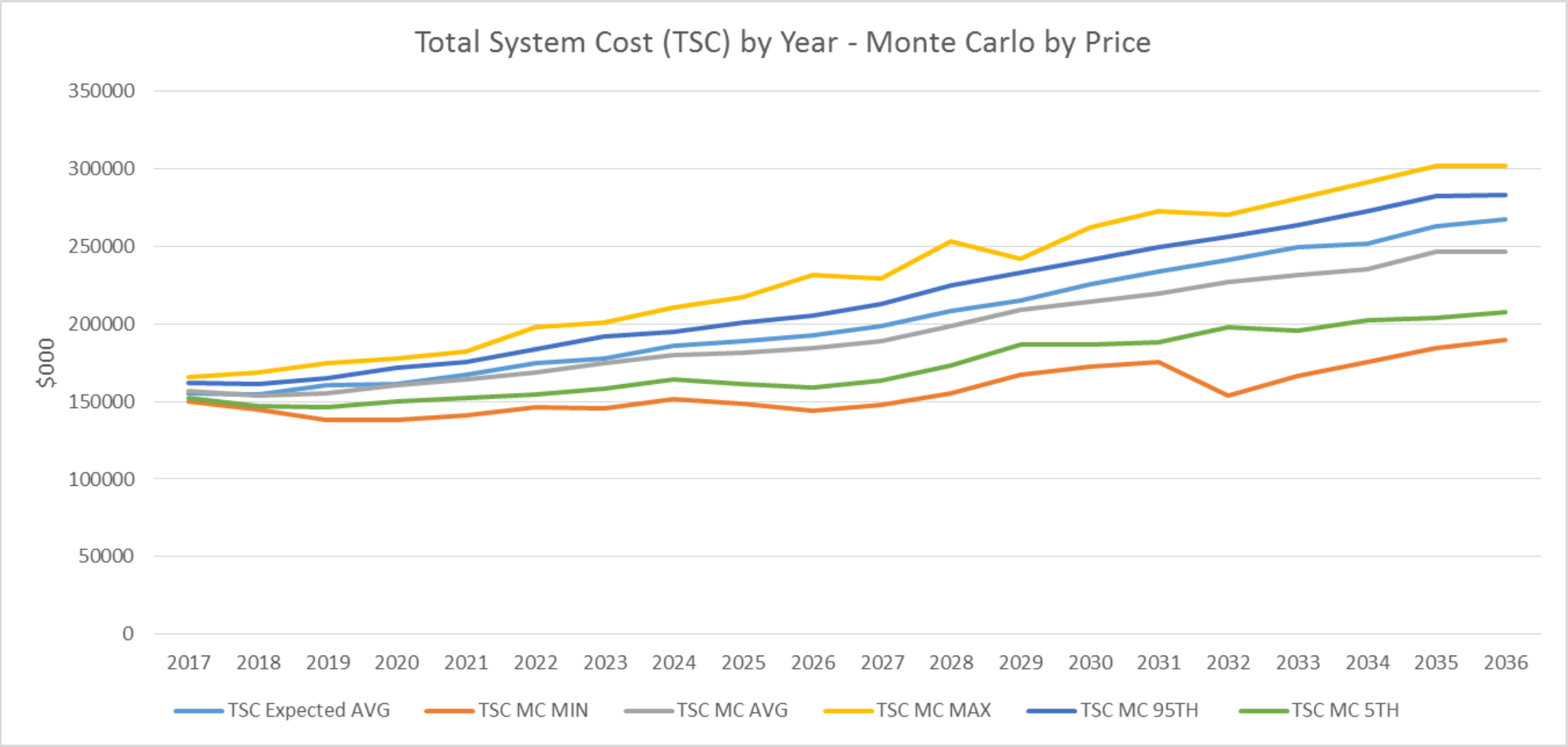
Rmix Decision - Storage

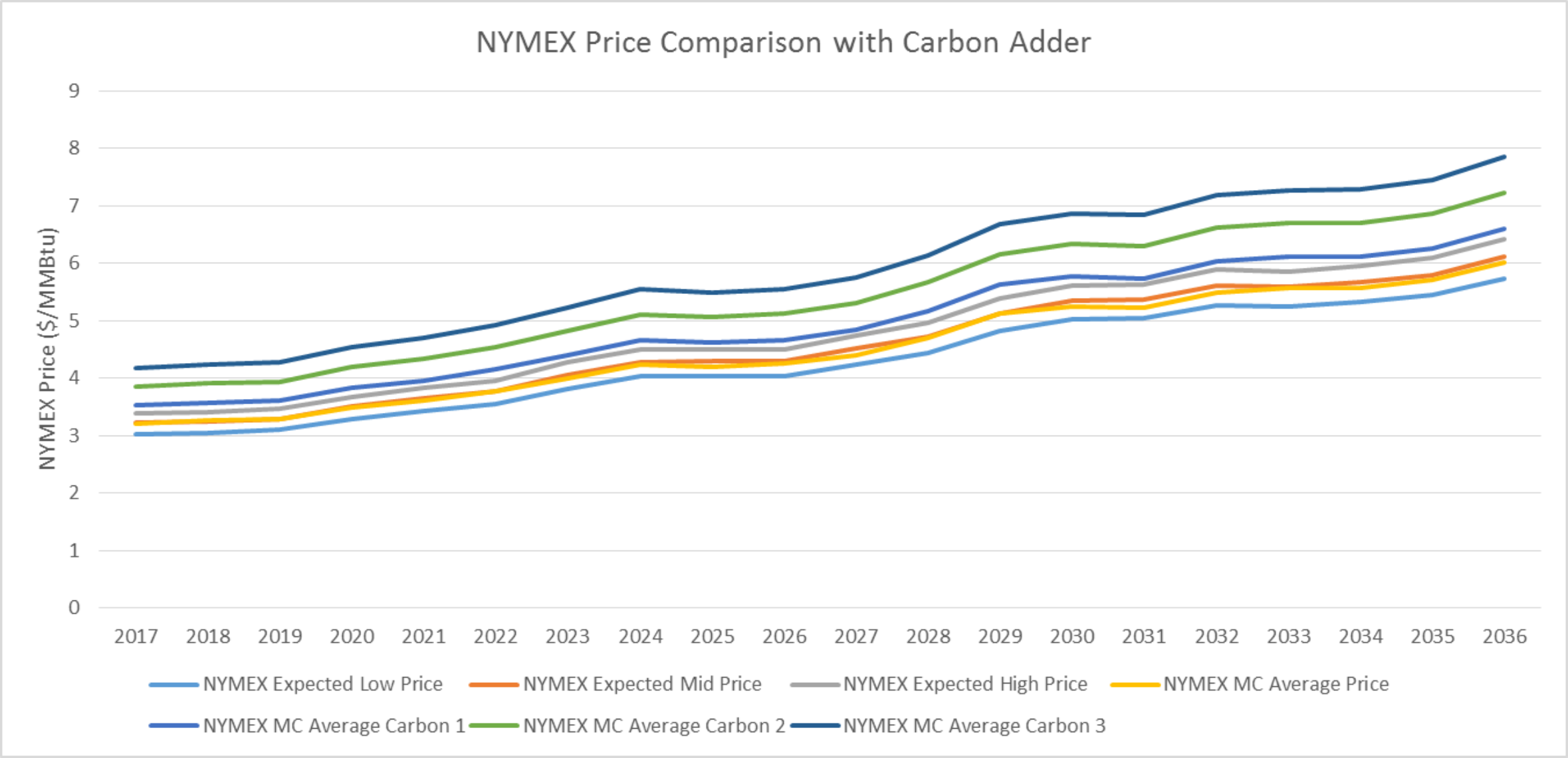
Storage	Start Date	End Date	Min Level	Max Level	Result MDQ	Inventory
AECO-1	APR 2018	MAR 2037	0	INF	0.00	0
GR-1	APR 2018	MAR 2037	0	INF	0.00	0
RC-1	APR 2018	MAR 2037	0	INF	0.00	0
WG-1	APR 2018	MAR 2037	0	INF	0.00	0

Rmix Decision - Transport

Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
BNDLOP INCRM	NOV 2016	OCT 2026	0.00	INF	4.13
BNDLOP INCRM	NOV 2026	MAR 2037	0.00	INF	17.12
CHEM INCRM	NOV 2016	OCT 2026	0.00	INF	0.00
CHEM INCRM	NOV 2026	MAR 2037	0.00	INF	0.00
GILC INCRM	NOV 2016	OCT 2026	0.00	INF	0.00
GILC INCRM	NOV 2026	MAR 2037	0.00	INF	0.00
LAPI INCRM	NOV 2016	OCT 2026	0.00	INF	0.14
LAPI INCRM	NOV 2026	MAR 2037	0.00	INF	0.18
MADR INCRM	NOV 2016	OCT 2026	0.00	INF	1.37
MADR INCRM	NOV 2026	MAR 2037	0.00	INF	1.75
MDDO SmsSPLo	NOV 2016	MAR 2037	0.00	INF	48.50
MDDO YAKLOP	NOV 2017	MAR 2037	0.00	INF	32.59
PRONG INCR	NOV 2016	OCT 2026	0.00	INF	0.18
PRONG INCR	NOV 2026	MAR 2037	0.00	INF	0.75
PRVL INCRM	NOV 2016	OCT 2026	0.00	INF	0.91
PRVL INCRM	NOV 2026	MAR 2037	0.00	INF	1.31
REDM INCRM	NOV 2016	OCT 2026	0.00	INF	7.27
REDM INCRM	NOV 2026	MAR 2037	0.00	INF	12.09
RUBY BendLop	NOV 2016	MAR 2037	0.00	INF	14.49
RUBY Chem	NOV 2016	MAR 2037	0.00	INF	0.00
RUBY Gilc	NOV 2016	MAR 2037	0.00	INF	0.00
RUBY Lapi	NOV 2016	MAR 2037	0.00	INF	0.65
RUBY Madr	NOV 2016	MAR 2037	0.00	INF	1.48
RUBY Prong	NOV 2016	MAR 2037	0.00	INF	0.64
RUBY Prvl	NOV 2016	MAR 2037	0.00	INF	1.13
RUBY Redm	NOV 2016	MAR 2037	0.00	INF	7.28
RUBY StanTap	NOV 2016	MAR 2037	0.00	INF	0.09
RUBY Stea	NOV 2016	MAR 2037	0.00	INF	4.39
SPOK EXT	NOV 2017	MAR 2037	0.00	INF	5.65
STAN EXP 24	NOV 2021	MAR 2037	0.00	INF	6.76
STAN EXP MEW	NOV 2021	MAR 2037	0.00	INF	6.36
STEA INCRM	NOV 2016	OCT 2026	0.00	INF	0.00
STEA INCRM	NOV 2026	MAR 2037	0.00	INF	0.00
STNTAP INCRM	NOV 2016	OCT 2026	0.00	INF	0.08
STNTAP INCRM	NOV 2026	MAR 2037	0.00	INF	0.11
STRRD INCRM	NOV 2016	OCT 2026	0.00	INF	5.96
STRRD INCRM	NOV 2026	MAR 2037	0.00	INF	9.33
WEN EXP Z10	NOV 2017	MAR 2037	0.00	6.00	0.00
WEN EXP Z11	NOV 2017	MAR 2037	0.00	6.00	5.81


Peak Day Supply Take Vs. Demand
MDTs
500
450
400
350
300
250
200
150
100
50
0
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
AECO-KING
BC
ROCKIES
JP
PLY
LNG
DSM
Demand


Total System Cost (TSC) by Year - Monte Carlo by Price
$000
350000
300000
250000
200000
150000
100000
50000
0
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
TSC Expected AVG
TSC MC MIN
TSC MC AVG
TSC MC MAX
TSC MC 95TH
TSC MC 5TH


NYMEX Price Comparison with Carbon Adder
NYMEX Price ($/MMBtu)
0
1
2
3
4
5
6
7
8
9
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
NYMEX Expected Low Price
NYMEX Expected Mid Price
NYMEX Expected High Price
NYMEX MC Average Price
NYMEX MC Average Carbon 1
NYMEX MC Average Carbon 2
NYMEX MC Average Carbon 3

Action Plan

Functional Area	Anticipated Action	Timing
Demand Forecast	Expanding forecasting to non-linear regressions using SAS	Beginning 2016 for 2018 IRP
Demand Forecast	Consider the new weather normalization model in the forecast	Begin in 2016 for 2018 IRP
Demand Forecast	Cascade will work on gathering growth information from other locations to compare with Woods & Poole. Also include analysis of State Economist Report	Begin in 2017 for inclusion in 2018 IRP
DSM	Investigate incorporating distribution system costs into the avoided cost calculation	Begin in 2017 for inclusion in 2018 IRP
DSM	As specific carbon legislation is passed, the company will update its avoided cost calculations, conservation potential and make modifications to its DSM incentive programs as necessary.	Consider in 2017 for possible modification in the 2018 IRP

Action Plan – Cont.

Functional Area	Anticipated Action	Timing
Environmental, DSM, Demand Forecast	The Washington State Dept. of Ecology issued a new carbon rule. Will need to consider IRP implications	Begin in 2017 for inclusion in 2018 IRP
Supply Resources	Negotiate with TransCanada for the needed incremental GTN capacity for November 2017	Complete by June 2017, with a November 2018 in-service date
Supply Resources	Work with NWP to define what delivery rights can be modified to meet potential shortfalls	Complete assessment by July 2017
Supply Resources	Work with NWP and potentially other regional LDCs to determine if a combination of I-5, Wenatchee, etc. expansion or segmentation can address shortfalls and regional infrastructure concerns.	Complete assessment by July 2017
Distribution System Planning, Resource Planning, Gas Supply	Incorporate the citygate study into the IRP.	Begin in 2016, complete in early 2017 for inclusion in IRP
Distribution System Planning, Gas Supply, Operations, Others	Use the results of the Study to confirm aligning of alternative resources, specifically satellite LNG	Confirm that satellite LNG is proper solution by July 2017;
Distribution System Planning, Gas Supply, Operations, Others	Upon confirmation of need to for satellite LNG, proceed with implementation of facility	Begins no later than July 2017, for potential in service date of November 2018

2016 IRP Timeline

Date	Process Element	Location (Subject to change)
Monday, October 17, 2016	Draft of 2016 IRP distributed	Via email and posted on cngc.com webpage
Monday, November 07, 2016	Comments due on draft from all stakeholders	
Thursday, November 17, 2016	TAG 6, if needed	Kennewick, WebEx
Wednesday, November 23, 2016	Final IRP goes to press	
Thursday, December 01, 2016	Executive Summary Presentation to Senior Management	Kennewick, WebEx
Wednesday, December 14, 2016	IRP filing in Washington	

NEXT STEPS?

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #5

Friday, October 14th 2016

CNGC Headquarters

Via WebEx

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

5th External TAG Meeting

Date & time: 10/14/2016, 09:00 AM – 10:30 PM

Location: WebEx from Kennewick GO

Presenters: Mark Sellers-Vaughn, Brian Robertson & Devin McGreal

In attendance: Mark Sellers-Vaughn, Brian Robertson, Devin McGreal, Carolyn Stone, Mike Parvinen, Mike Clapp & Jennifer Gross.

Called in: Bob Morman, Garret Senger, Eric Wood, Laura Flanders - NWP, Mark Chiles, Tom Pardee – Avista, Ed Finklea - NWIGU, Amanda Sargent, Sheila McElhinney, Kary Burin, Kathi Scanlan, Chris McGuire, Monica Cowlishaw & Bruce Folsom.

Minutes by: Carolyn P Stone

Mark began the meeting by welcoming everyone. Mark then had Brian Robertson show the exits for safety purposes to those attendees at Kennewick GO.

Mark announced that the meeting would last about 90 minutes and asked everyone for any opening remarks. Garret Senger stated that there has been unbelievable work to get this IRP out in such a short time span and thanks the IRP team. Bob Morman stated that this was a monumental task and also thanks for CNG crew. Both were looking forward to today's presentation.

Mark went over the meeting agenda:

In today's meeting we will state what the deliverable is for Monday in regards to the draft and stated they may need to clarify a few things with regards to the deterministic & Monte Carlo model runs. Mark ends by asking those on the phone to identify themselves before they speak.

Presentation #1 – Devin McGreal
Current Resources

- Devin started out by stating that "current resources" are the resources used in the model runs as well as those resources that are NOT being used and why.
- Slide #4 - Devin explained the types of supplies:
  - Base – fixed supplies we must take.
  - Winter Supply – Must be taken in winter only.
  - Day Gas – Used on peak days and the most costly supply.
- Slide #5 – Shows the Key Elements matrix. Devin reminds that the elements highlighted in red are excluded resources.
- Slide #7 – Most incremental transport begins in November of 2017.
- Slide #8 – Mark went over the resources shown in red & explanations why not in used in model:
  - **T-South-So Crossing** – Crosses south of BC & Alberta…Alberta to Sumas, this requires expansion to NWP and shows no significant advantage to CNG. There is some potential in the future for this resource.

- **Trail Max/N-Max** – This goes from Opal using GTN from Madras to Malallo. Mark explained CNG would need additional transport, so this option doesn't benefit us.
- **Pacific Connector** – This is associated with the Jordan Cove project. Goes from Malin to NWP at Grant's Pass. There has been opposition to the project, but it's not a done deal yet. This is a supply resource possibility in the future.
- **Ryckman Creek Storage –** Requires incremental capacity at Ruby. There are reliability issues including accidents and financial issues. Even the cost is prohibitive due to transport upstream and downstream in Oregon.
- **Gill Ranch Storage** – This storage is in California and would require transport on California's system. The cost from California to Malin would be high.
- **Mist Storage** – This is used primarily for PGE. There is no supply available that is cost effective for CNG.
- **AECO Hub Storage –** This goes from NOVA to GTN. It is a good price but is constrained and flow subject to interruption. Firm OUT only, non-firm IN.

- Slide #9 is an "expansions" graph, showing the path for each resource mentioned above.
- Slide #10 shows how the incremental transport looks in Sendout.
- Slide #11 discusses modeling of incremental storage.
  - Incremental transport cheaper than picking up additional storage

Question: Kathi Scanlan asked if Cascade is going to provide descriptions of these resource not modelled for the IRP filing.
Answer: Mark said "yes".

- Slide #13 – All in Scenario includes the Yakima LNG satellite facility & OPAL incremental supply.
  - It does not include BioNatural Gas, as there is nothing available to the CORE at this time. We talked about ALL scenarios.
- Slide #15 – "Impact Slide" showing our system modeled. Mark said he has been told that this scenario is one of the most complicated to try.
- Slide #16 – Expected Scenario removes the resources SENDOUT does not like. This rank orders the scenario to see if the expected IS the lowest cost option!
- Slide #18 shows the 5 scenarios ranked.
  - Mark mentioned that we they removed fixed costs, the Average cost went down. The Expected Case is the lowest cost scenario realizing that Sendout has perfect information.

Question: Ed Finklea asked if the average cost includes commodity.
Answer: Yes. This is the "All In" cost to the CityGate.

Slide #19 – Alternative Resources Selected:

Question: Carolyn Stone asked when you say that the model "doesn't take" the resource, what exactly does that mean?
Answer: Devin said the model selects resources as to what it considers optimal. If the model doesn't use the resource in its results then it doesn't consider that optimal.

- Slide #20 - Sendout "likes" the Yakima LNG Satellite plant
- Slide #21 & 22 – Alternative Resources NOT Selected, OPAL incremental was not used.

Presentation #2 – Brian Robertson
Monte Carlo (MC) Simulations

Brian explains that the Monte Carlo simulations use expected weather and expected growth as stress tests on the Sendout model results.

- Slide #25 shows the MC annual Price at 200 draws using Nymex
- Slide #26 shows the total system cost with expected customer growth. The Standard Deviation (STD) varies more here than with weather.

Question: Ed Finklea asked if the IRP group is stating that there is more price uncertainty than weather uncertainty.
Answer: Mark answered "yes essentially"!

- Slide #27 – Historical weather data is used with the same assumptions for extreme weather
- Slide #30 – Every historical months HDD was compiled into 30 data points for every weather station, which follows closely to a normal distribution!
- Slide #31 – HDD results using 200 draws
- Slide #32 – Demand Forecast – note the low demand for year 2031.
- Slide #33 - The mean is close to the "deterministic" model's mean.
- Slide #34 - Monte Carlo Price & Weather at the same time would take 40,000 draws to calculate, which would take 100 days to run the model....
- Slide #35 – Shows the Resource Mix (R-Mix) decision for storage – None of these options taken!
- Slide #37 – Shows the Peak Day supply taken vs demand. Shows each demand increment and what resource is used to provide supply.
- Slide #38 – Total System Cost (TSC) by year
    - The yellow line is the max
    - Grey line is the MC average
    - Light Blue is the deterministic run
- Slide #39 – Price comparison with a Carbon Adder
    - The Orange line is the Expected mid-price
    - Taken from a 20 year price forecast
    - Using an average of 200 runs

Presentation #3 – Mark Sellers-Vaughn
Action Plan

Mark went over Slide #40, Action Plan

Question: Which case will be at in the Monday draft?
Answer: In general we will grow into the resources. In 2021 for example the scenario shows that we are 17K Dth short at Bend, Wenatchee short 5,800 Dth, Bellingham 24Deth and SE Oregon 6300 Dth's. The worst case scenario happens in 2026.

Question: Mark asked Kathi Scanlan if the next IRP due date is due 2 years from filing date?
Answer: Yes

Question: Mark asked Mike Parvinen if there will be a new weather normalization model for the rate case. Mark wants to consider it for the next IRP
Answer: Mike said they are gathering intelligence now.

Question: Jennifer Gross asked if the Demand Side Management section shows distribution planning and avoided costs by zone.

Answer: Mark said yes, it is a challenge though because CNG's system is so spread out.

- Monica Cowlishaw discussed the "Collaborative Effort, $15m over 5 years toward developing high efficiency Natural Gas. She referenced including rooftops & heat pump water heaters will offer savings in the future. CNG will continue to be involved in this effort.

- Slide #41- Mark stated that a generalized "Carbon Rule" will be in the IRP as the other LDC's have done.
    - Mark stated that the LDC's will be working as a group to approach the pipeline together. This will provide cost effectiveness and clarification as well as consistency.
    - The City Gate study will be in the IRP showing CORE & Non-Core but we are interested only in CORE.
    - In 2017 we identify the need for the satellite LNG. Discussions and studies with other departments will be needed to confirm this need.

Question: Chris McGuire said he was confused about the Monte Carlo simulation. He said the presentation showed shocks of weather and price only used to test the deterministic model. Shouldn't other portfolio options be used to test…how do you know the expected is still considered the "optimal"?

Answer: Devin McGreal answered by stating that the tests confirm no dramatic demand or price like some large quantity of unserved demand, for example.

Chris went on to say that the statement he heard today was that you've proven the choice by Sendout is an "acceptable" option, not necessarily optimal. Chris encourages the team to use the Monte Carlo as a tool for both the average expected portfolio cost as well as the spread of outcomes (expected volatility/risk). He cautions the team to be careful with the language used in the IRP. Mark thanked Chris! Mark then stated that he will look for comments on the draft.

- Slide #42 – 2016 IRP Timeline - Mark reiterated that we have had a tight aggressive timeline. He states we will file the Draft 2016 IRP on Monday. The time of day is unknown. The Draft filing will be done electronically, via Email. It will be posted in the IRP CNG Website (this posting may happen on Tuesday but the official filing will happen Monday).

Question: Mark asks Kathi Scanlan if the electronic filing is OK.
Answer: Kathy said "yes".

- Mark stated that they may make some hard copies.
- Comments are due by NOVEMBER 7 end of day!!
- The IRP goes to press on November 23rd
- There will be a presentation of the Executive Summary to Executive Management
- Official filing will be done on December 14th in Washington.
- Mark then asked if the group had any final questions or comments.

Bruce Folsom commented that a lot of work has been put into this document and on an incredibly aggressive schedule!! **Nice job to the IRP team at CNG!!!**

Question: Laura Flanders asked what the plans were for the LDC's group to meet with pipelines, as mentioned earlier.
Answer: Mark said they will be getting in touch with the pipelines in the coming weeks.

THANK YOU TO EVERYONE FROM THE IRP TEAM!

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #6

Thursday November 17th, 2016

CNGC Headquarters

Via WebEx

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

AGENDA

- Safety and housekeeping items
- Introductions
- What is SENDOUT?
- History of Cascade's use of SENDOUT
- Current Methodology for SENDOUT
- Simulation Examples
- Results/Analysis – Plan to address shortfalls
- Conclusion
- 2016 IRP Timeline
- Adjournment

What is SENDOUT?

- Cascade utilizes SENDOUT™ for resource optimization.
- This model permits the Company to develop and analyze a variety of resource portfolios to help determine the type, size, and timing of resources best matched to forecast requirements.
- SENDOUT™ is very powerful and complex. It operates by combining a series of existing and potential demand side and supply side resources and optimizes their utilization at the lowest net present cost over the entire planning period for a given demand forecast.

What is SENDOUT? – Cont.

- SENDOUT™ utilizes a linear programming approach.
- The model knows the exact load and price for every day of the planning period based on the analyst's input and can therefore minimize costs in a way that would not be possible in the real world.
- Therefore, it is important to acknowledge that linear programming analysis provides helpful but not perfect information to guide decisions.

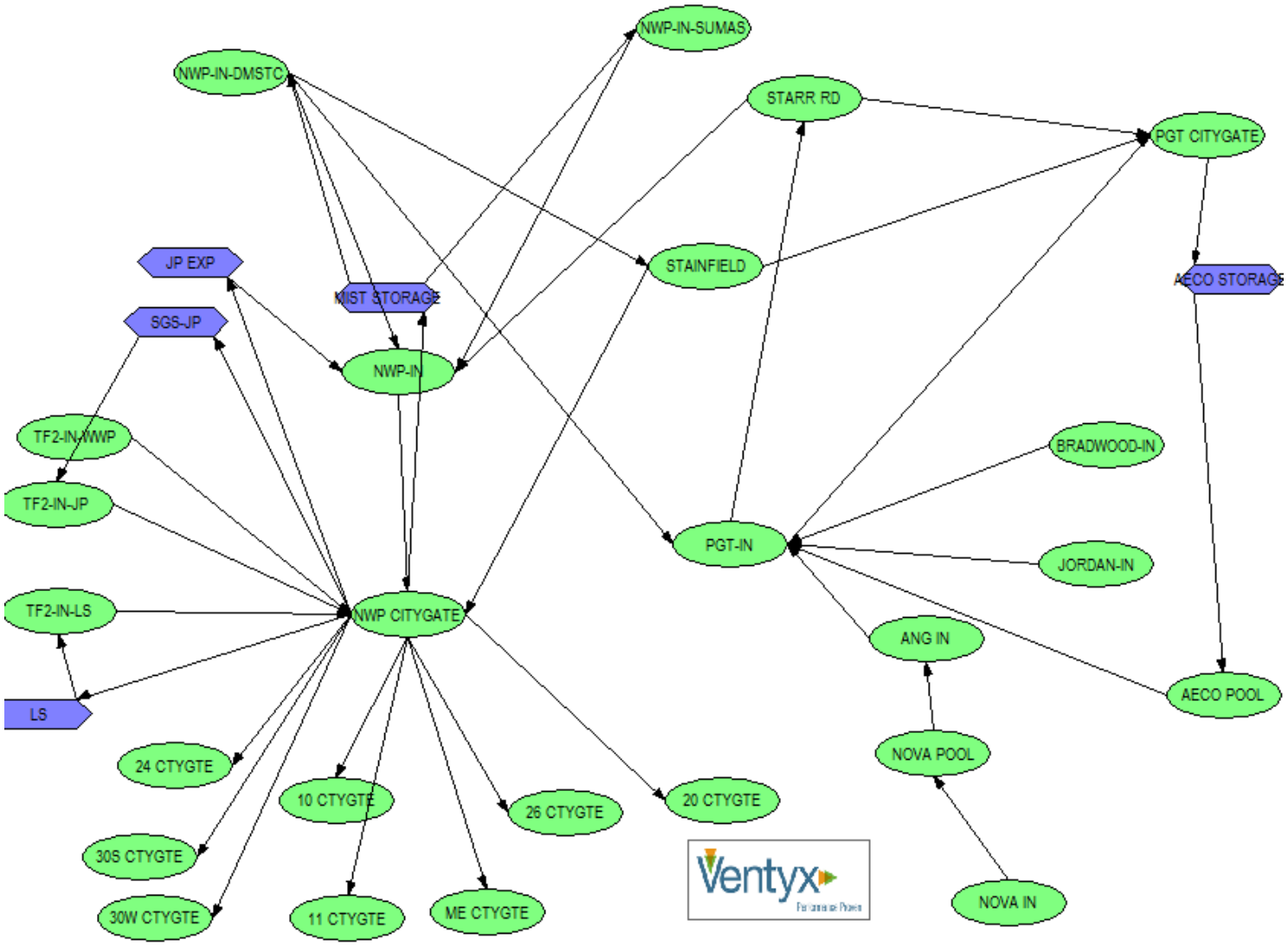
SENDOUT CONFIGURATION CHANGES

- 2004 NWP AND GTN CENTERS
- 2006 NWP AND GTN CENTERS/STATE
- 2008 DISTRICT AND ZONAL
- 2010 DISTRICT AND ZONAL
- 2012 DISTRICT AND ZONAL
- 2014 LOAD CENTER/GATE STATION, ZONAL
- 2016 LOAD CENTER/GATE STATION, RATE SCHEDULE, ZONAL

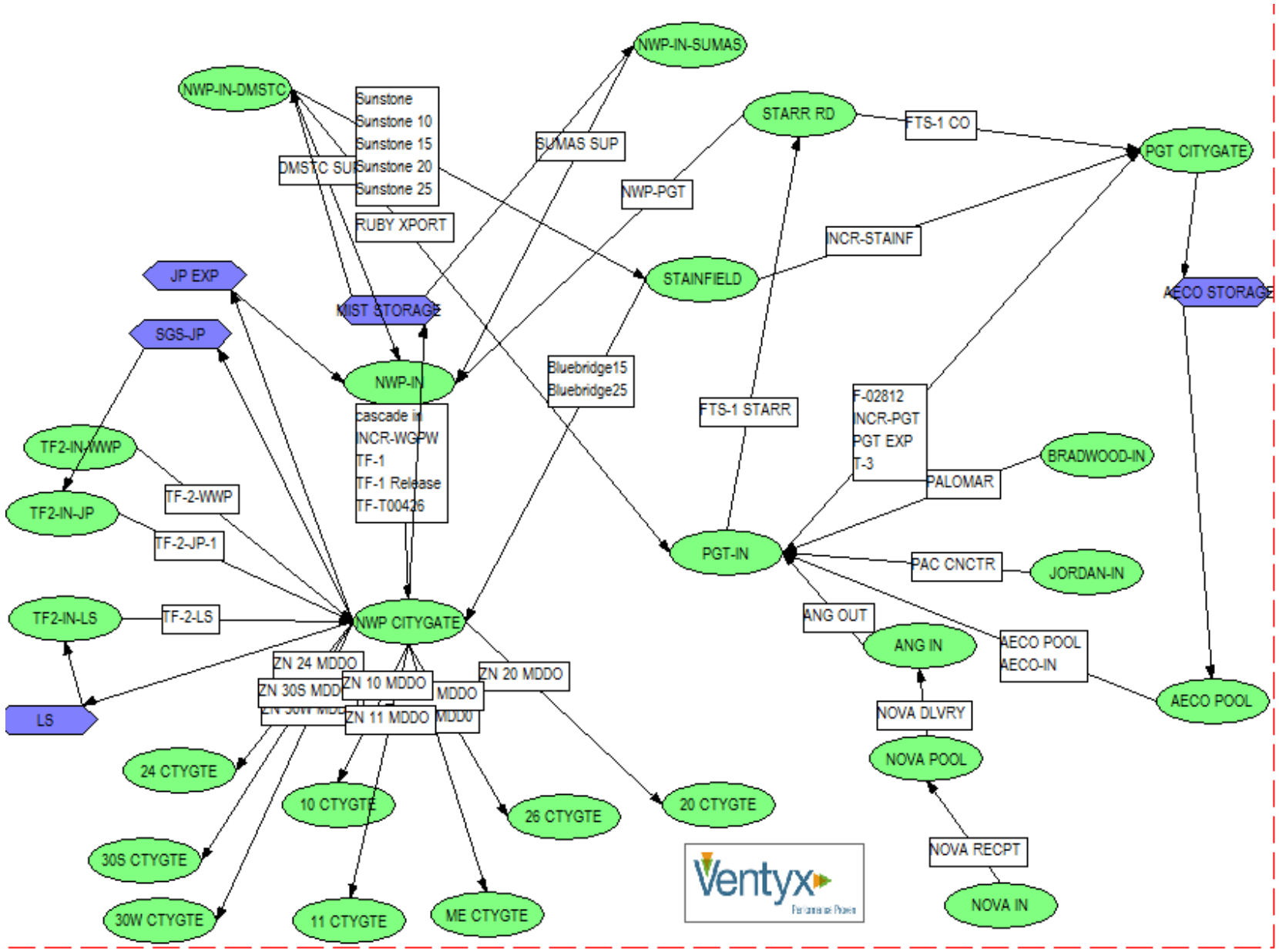
IRP HISTORY OF SOLVES (HIGH LEVEL)

IRP YEAR	POTENTIAL FIRST YR UNSERVED	PRINCIPLE SOLVE	SOLVE COMPONENTS
2004	2008	INCREMETNAL SUPPLY	DSM, CONSIDER SHORT TERM PEAKING, CONSIDER JP EXPANSION
2006	2010	INCREMENTAL SUPPLY	DSM, CONSIDER SHORT TERM PEAKING, CONSIDER JP EXPANSION
2008	2016	INCREMENTAL SUPPLY, STORAGE, TRANSPORT	DSM, EXTEND EXPIRING NWP, ACQUIRE JP EXPANSION (WA), CONSIDER SATELLITE LNG
2010	2016	INCREMENTAL SUPPLY, TRANSPORT	DSM, INCREMENTAL NOVA, GTN, ASSUMED JP EXPANSION (WA), CONSIDER SATELITTE LNG
2012	2022	INCREMENTAL SUPPLY, STORAGE, TRANSPORT	DSM, INCREMENTAL NWP, GTN, NOVA TRANSPORT, CONSIDER SATELITTE LNG, ACQUIRE ADDITONAL JP LEASE (WA), CONSIDER RYCKMAN STORAGE (OR)
2014	2018	INCREMENTAL SUPPLY, RE-ALIGNED MDDOS, INCREMENTAL TRANSPORT	DSM, INCREMENTAL NWP, GTN, NOVA TRANSPORT, CONSIDER SATELITTE LNG, CONSIDER RYCKMAN STORAGE (OR)
2016	2020	INCREMENTAL SUPPLY, RE-ALIGNED MDDOS, INCREMENTAL TRANSPORT	DSM, INCREMENTAL NWP, GTN, NOVA TRANSPORT, CONSIDER SATELITTE LNG

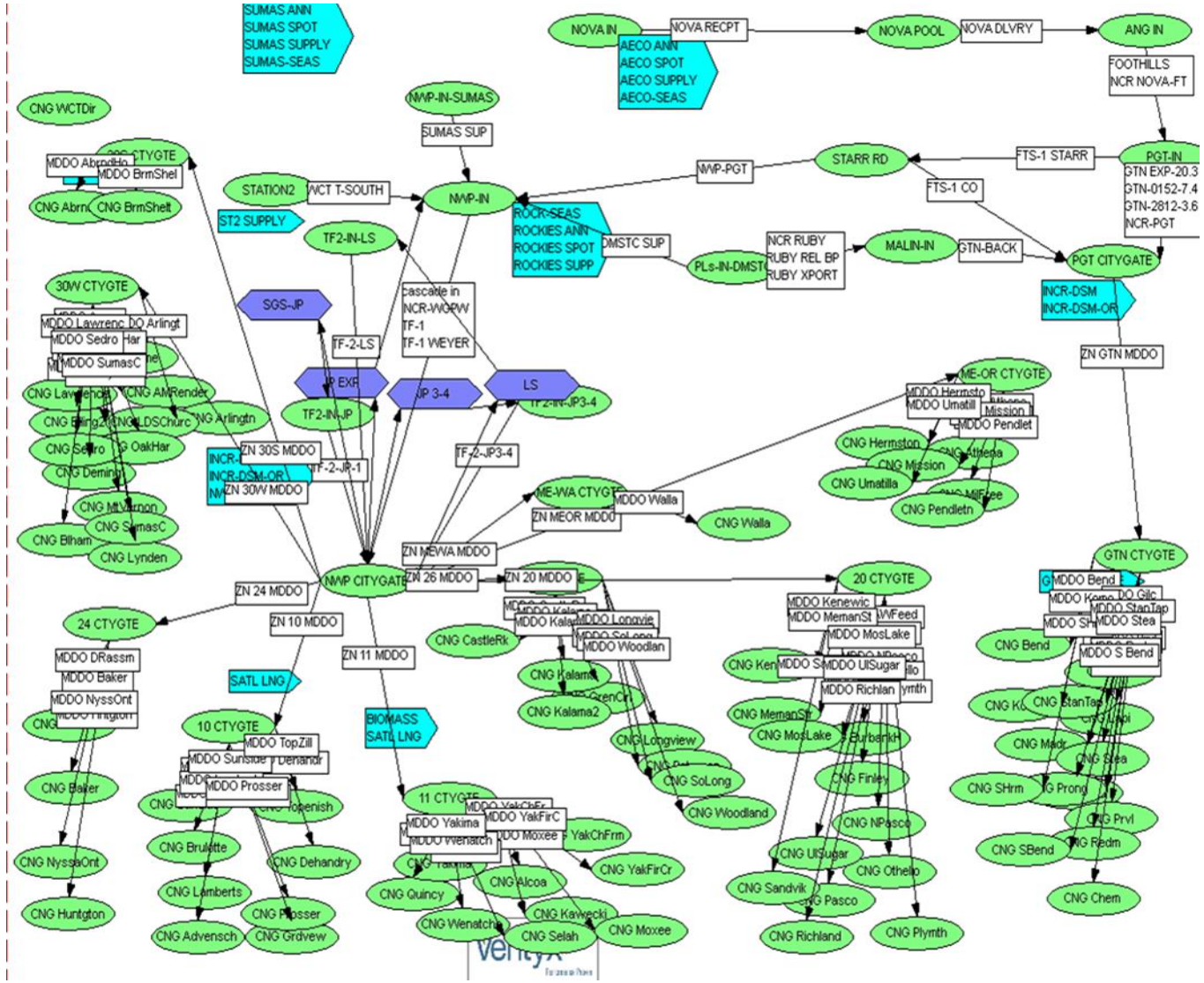
2008 IRP SENDOUT NETWORK DIAGRAM



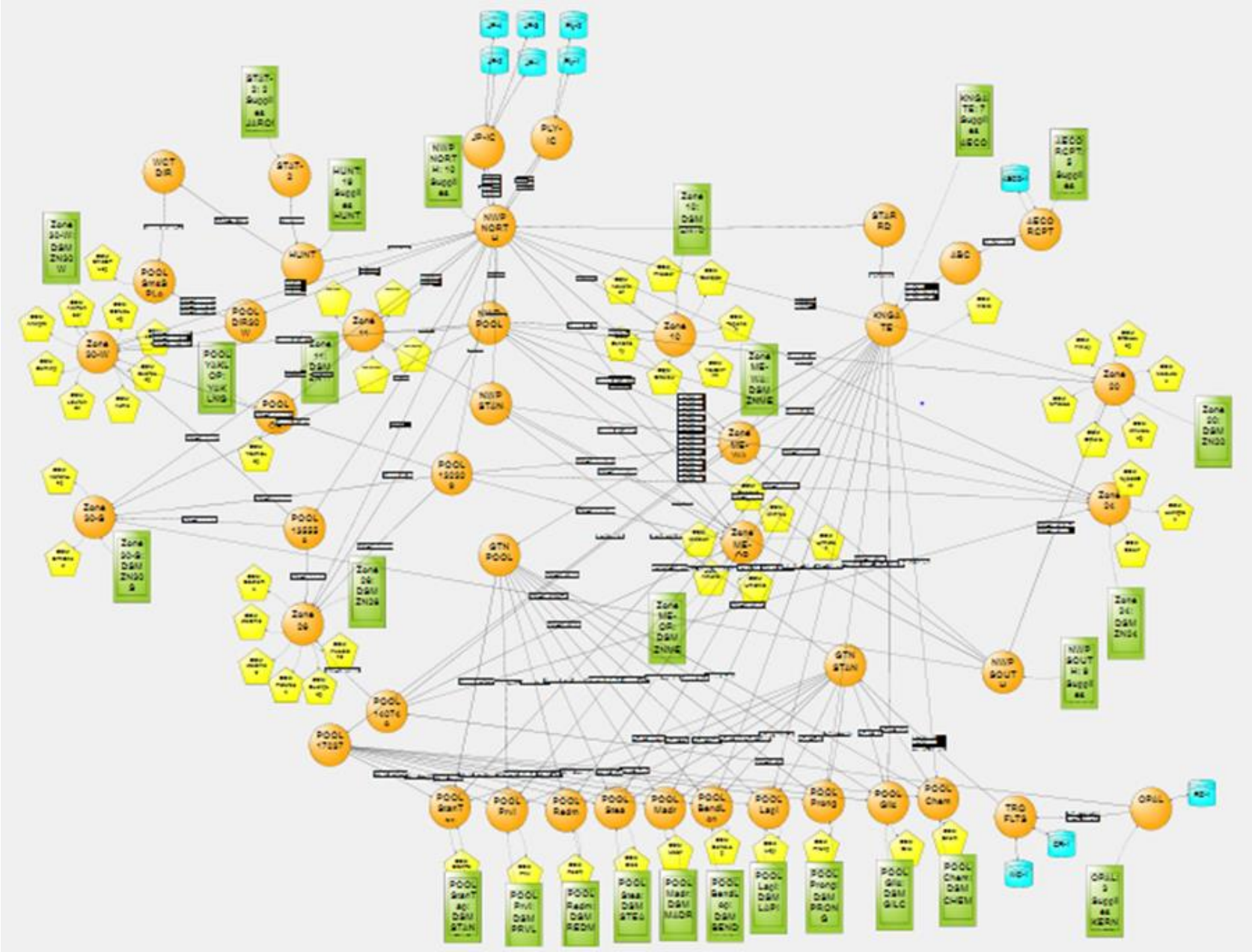
2010 IRP SENDOUT NETWORK DIAGRAM



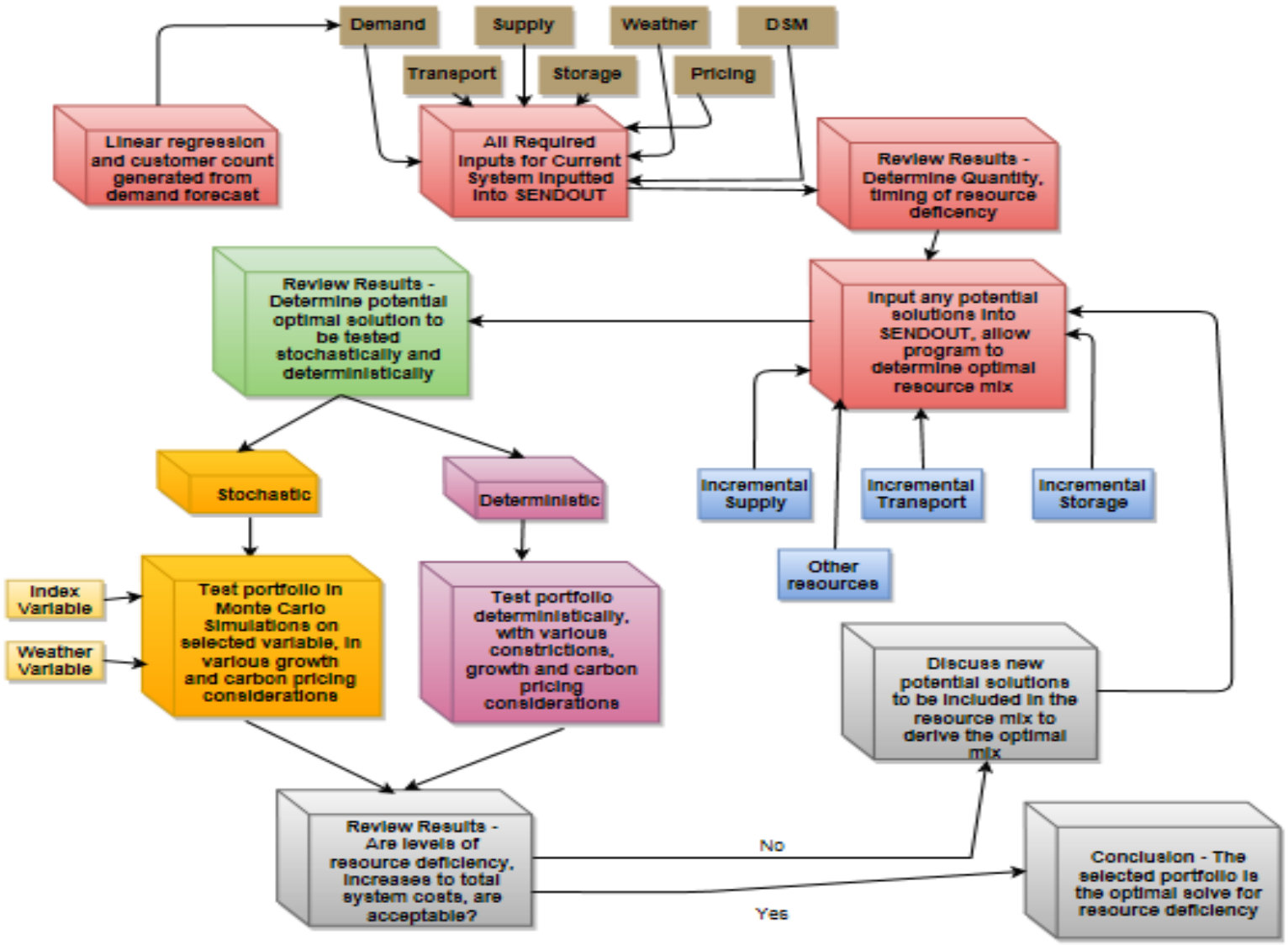
2014 IRP SENDOUT NETWORK DIAGRAM



2016 IRP SENDOUT NETWORK DIAGRAM



Current Methodology – Flow Chart

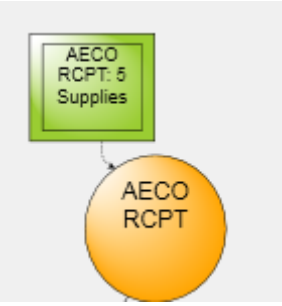


Base Case Sendout Inputs

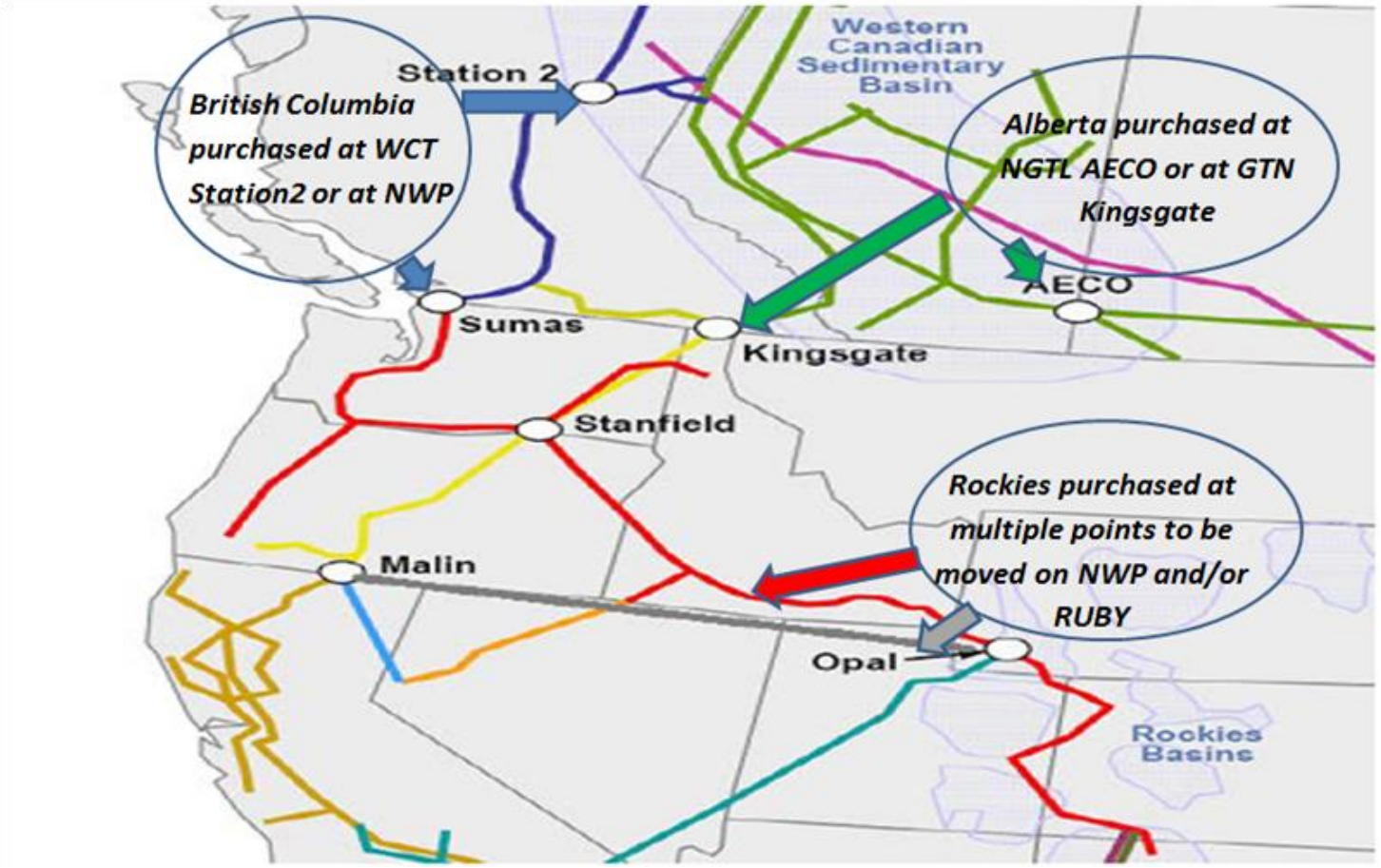
- Supply
- Storage
- Transportation
- Demand
- Price Forecast
- Weather

Supply

- Cascade can purchase gas at 3 markets; AECO, SUMAS, and OPAL.
- At each market Cascade can purchase gas at different locations along the pipeline.
- For the first year, Cascade uses all current contracts for Supply inputs.
- For years 2-20, Cascade uses Base, Fixed, Winter base, Summer and Winter day gas, and Peak day incremental supplies as inputs.
- The contracts for years 2-20 are renewed in November and April.



Supply



NWP
GTN
NOVA
Alliance
Southern Crossing
Ruby
Kern River
Paiute
PGE

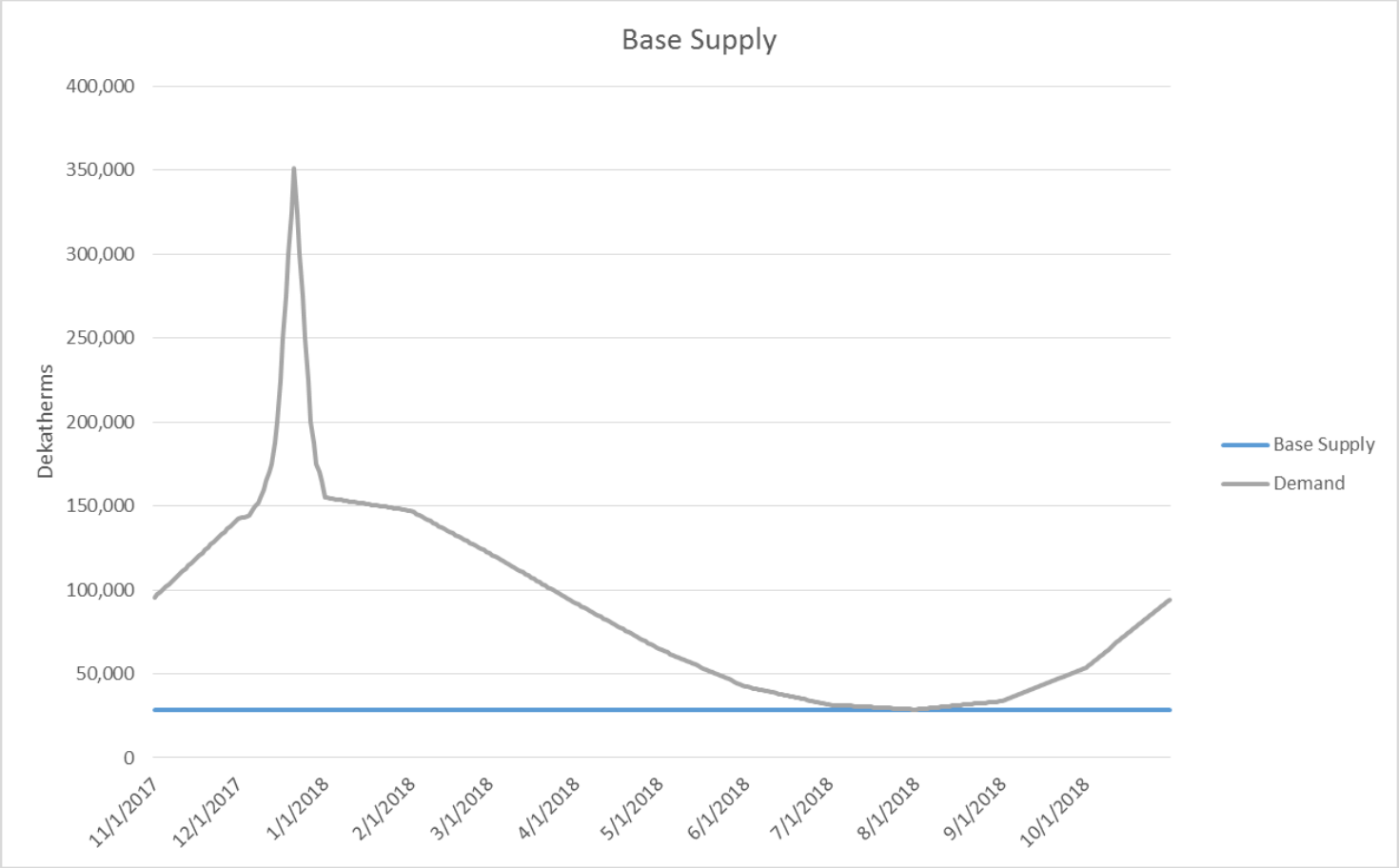
Supply Base and Fixed

- Supply Base and Fixed are the baseline supply contracts that are contracted every 12 months.
- A base contract has a basis rate. This is defined as the price of gas at a given market (ie, AECO base is the expected cost of gas at NYMEX plus the basis for AECO, for a given month).
- A fixed contract has a fixed rate.
- A penalty is applied to each contract when the contracted amount of gas is not taken for a day. This type of penalty forces these types of contracts to take the optimal amount of gas to serve the base demand.

Supply Example

	APR 2017	MAY 2017	JUN 2017
*Daily MDQ	3000	0	
*Daily Minimum Percent	100		
Annual Maximum			
Annual Minimum Percent			
Monthly Maximum			
Monthly Minimum Percent			
Seasonal Maximum			
Seasonal Minimum Percent			
Known Take			
*Rate - Commodity	4		
Rate - Dispatch			
Rate - Known Commodity Cost			
Rate - Other Variable 1			
Rate - Other Variable 2			
Rate - Penalty Annual			
Rate - Penalty Seasonal			
Rate - Penalty Monthly			
Rate - Penalty Daily	3.99		
Rate - D1			
Rate - D2			
Volume - D1 Volume			
Volume - D2 Volume			

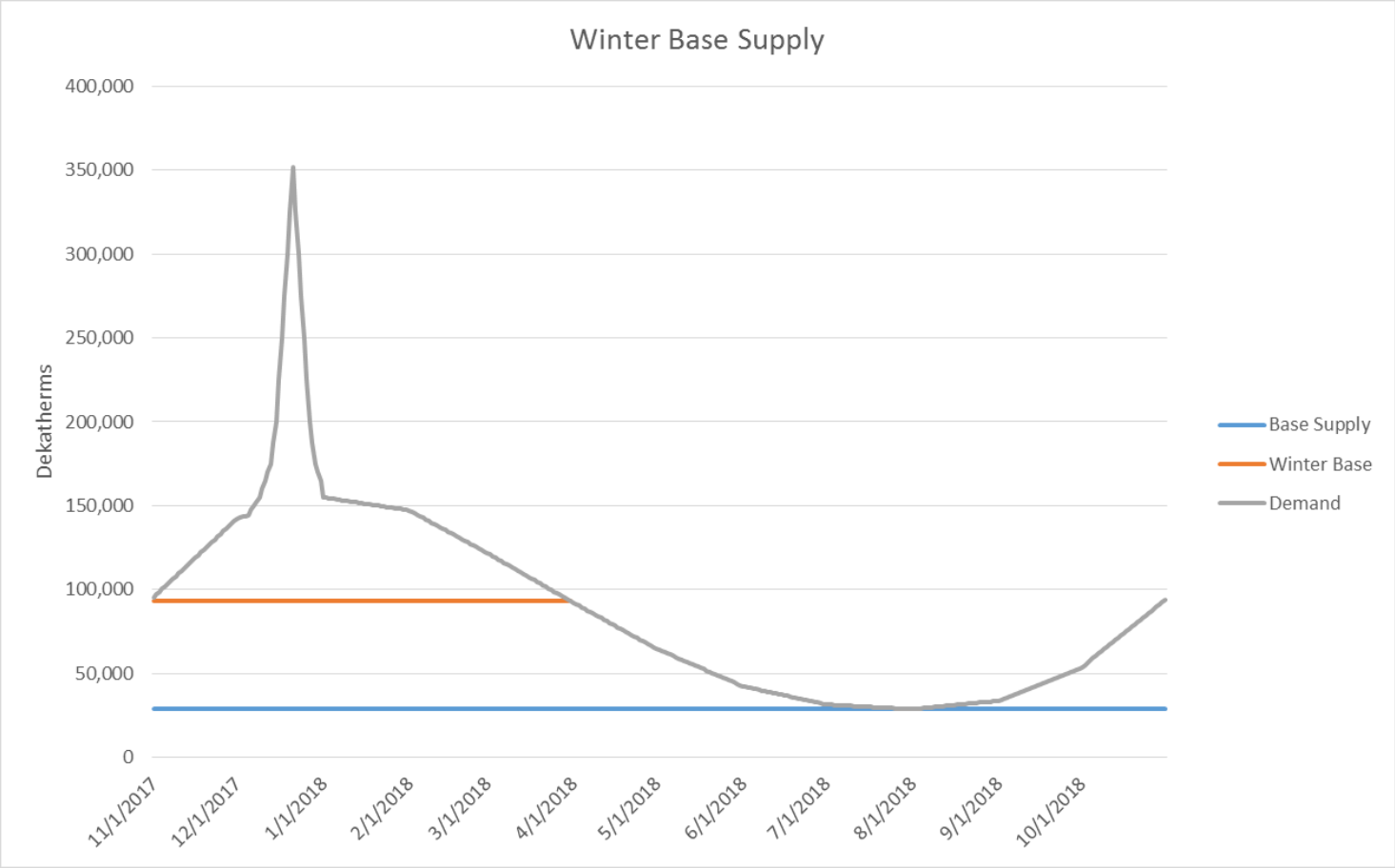
Base Supply cont'd



Winter base Supply

- Winter base supply is contracted supply with a premium charge that is slightly higher than base gas.
- The Maximum Daily Quantity (MDQ) is optimally set by SENDOUT.
- Winter supply is renewed every November and completes at the end of March.
- Winter Supply is additional baseline supply on top of the base or fixed supplies for the winter months.
- There is a penalty associated to this contract to force SENDOUT to take the optimal amount of additional winter base gas.

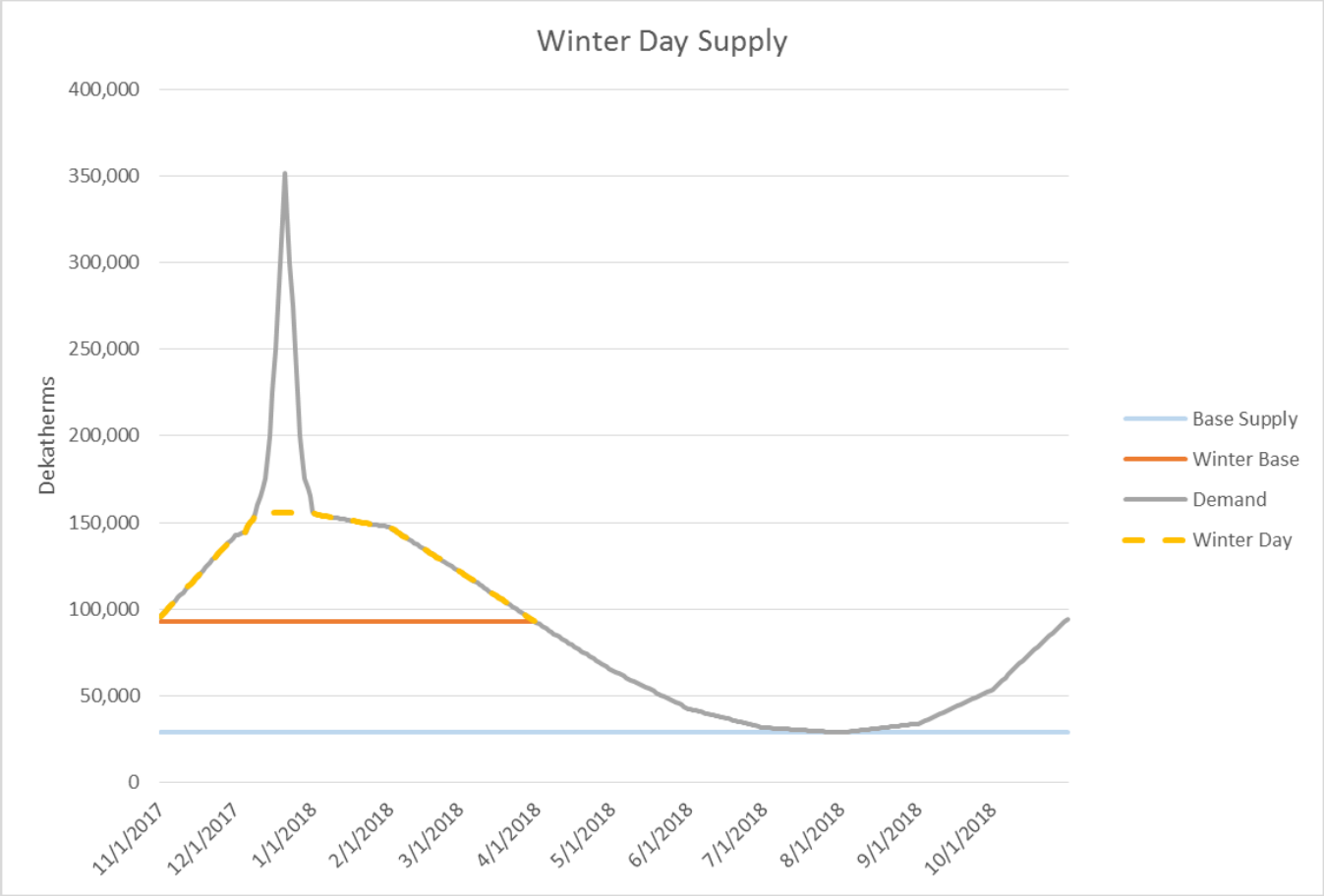
Winter base Supply cont'd



Day Supply (Winter)

- Winter Day supply is gas that is R-mixed at the beginning of November each year.
- The R-mix function takes into account the fixed and variable costs of a resource to determine the proper amount to take in a given period.
- Winter day gas has a MDQ cap but is not a must take supply.
- If a winter day supply has an MDQ of 10000 dth then it can take anywhere from 0 to 10000 dth's of gas on any given day in the winter.
- Winter day supply has a slightly higher premium than winter base supply and it can be contracted from November to April.

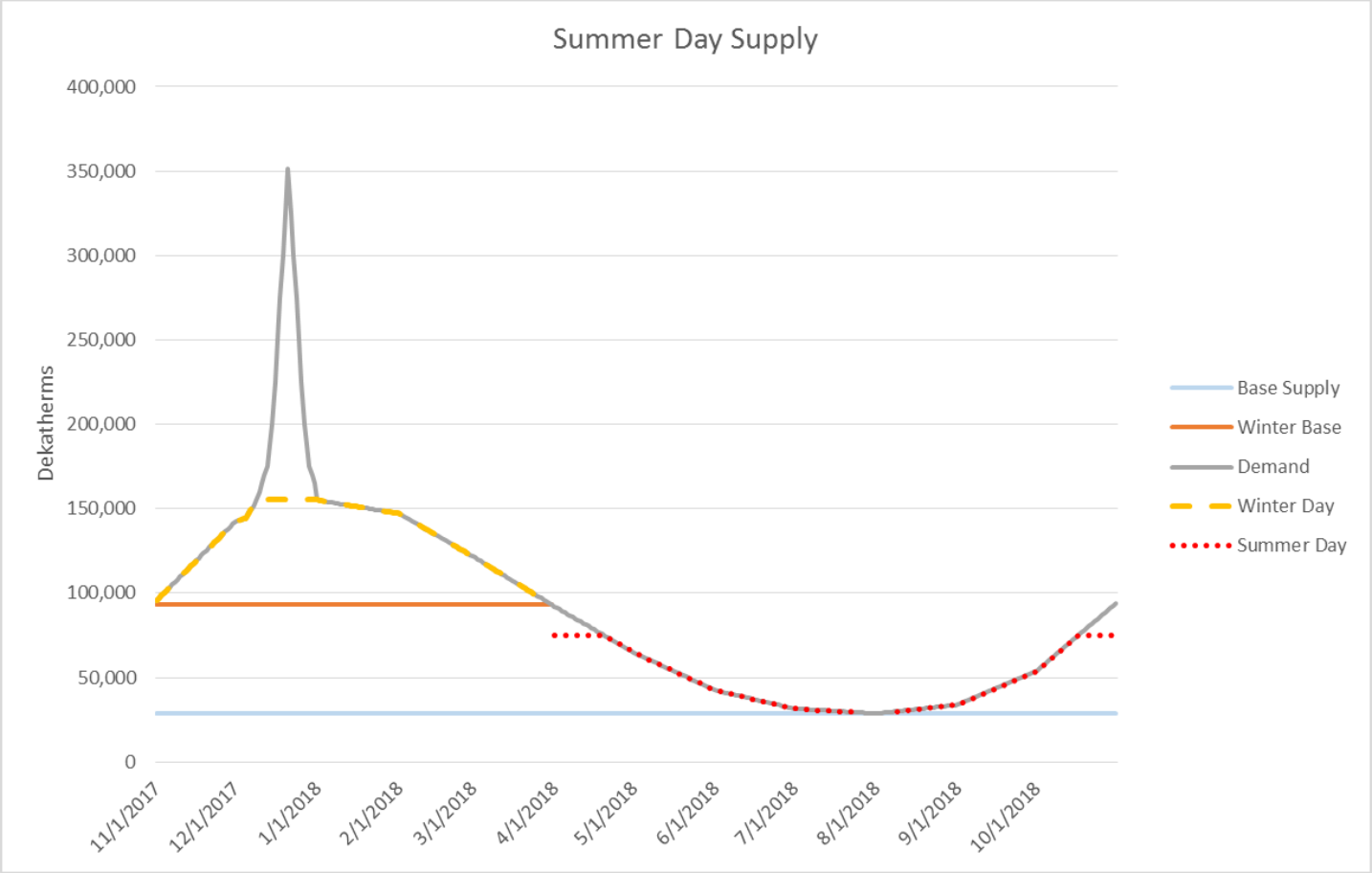
Day Supply (Winter) cont'd



Day Supply (Summer)

- Summer day supply is gas that is R-mixed at the beginning of April each year.
- Summer day gas has a MDQ cap but is not a must take supply.
- If a summer day supply has an MDQ of 10000 dth then it can take anywhere from 0 to 10000 dth's of gas on any given day in the summer.
- Summer day supply has a slightly lower cost than base supply and it can be contracted from April to November.

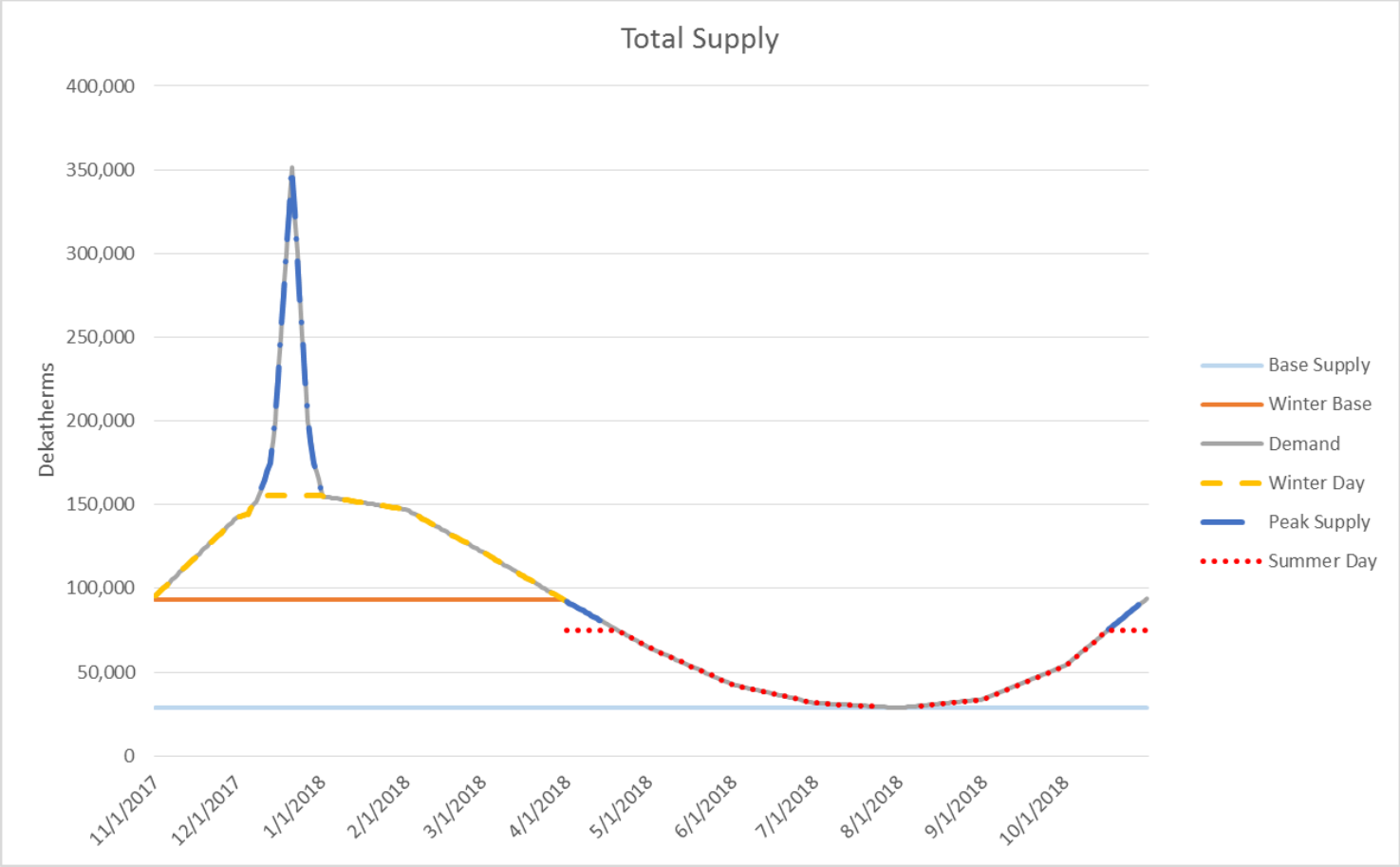
Day Supply (Summer)



Peak Supply

- Peak supply is gas purchased on high demand days where base, index, winter base, or day supply cannot accommodate.
- Peak supply has a slightly higher premium to buy than day supply.
- As long as Cascade has the transport capacity, we can purchase as much peak supply as needed to meet peak demand.

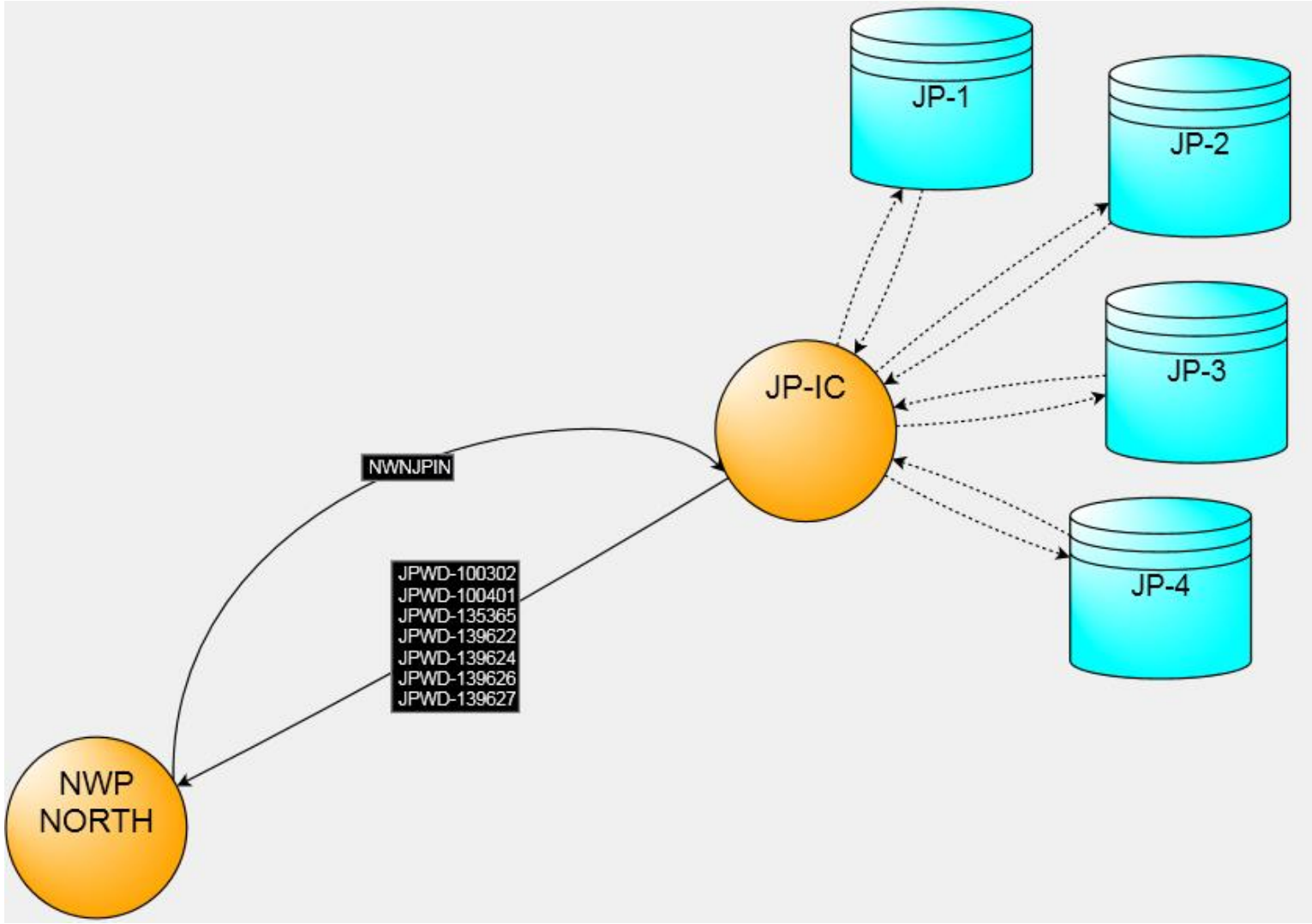
Total Supply



Storage

- Cascade leases storage at 2 locations: Jackson Prairie (JP) and Plymouth.
- Cascade has 4 storage contracts with JP and 2 contracts with Plymouth.
- Storage injections targets are set at 35% by the end of June, 80% by the end of August, and 100% by the end of September.
- These targets are set by our Gas Supply Oversight Committee.
- Cascade can withdrawal approximately 56,000 dth's per day from JP and 78,000 dth's per day from Plymouth for a total of approximately 134,000 dth's per day.

Storage Example



Storage Example 2

	NOV 2016	DEC 2016	JAN 2017	FEB 2017	MAR 2017	APR 2017	MAY 2017	JUN 2017	JUL 2017	AUG 2017	SEP 2017
Process Indicator											
Inventory Maximum Physical Capacity	604351										
Inventory Minimum Physical Percent											
*Target Inv - End of Period Max Pct											
*Target Inv - End of Period Min Pct								35		80	100
*Inventory Adjustment - Value per Unit											
*Inventory Adjustment - Volume											
*Injection Daily MDQ	0					16789					
*Injection Daily Min Percent											
*Withdrawal Daily MDQ	16789					0					
*Withdrawal Daily Min Percent											
Fuel - Injection						.23					
Fuel - Withdrawal	.23										
Rate - Carry						0					
Rate - Injection											
Rate - Withdrawal											
Rate - Other Injection											
Rate - Other Withdrawal											
Rate - Volume Charge											
Rate - D1	.01558										
Rate - D2	.00057										
Volume - D1 Volume	16789										
Volume - D2 Volume											
Storage Ratchets Table	JP										
Starting Inv Layer 1 Value per Unit											
Starting Inv Layer 1 Volume	604351										
Energy Conversion Factor											
Injection Costing List - Transport											
Injection Costing List - Source											
Rate - Other Withdrawal 2											

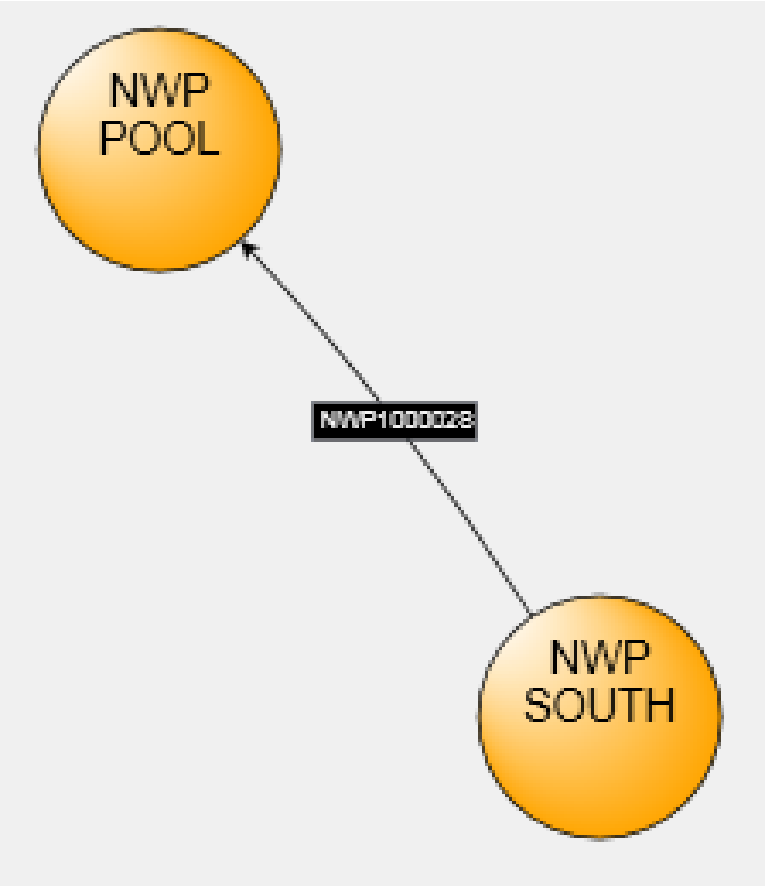
Transportation

- Transportation contracts are the means of how Cascade gets the gas from the supplier to the end user.
- Cascade has multiple types of transportation:
  - A single delivery point.
  - Multiple delivery points.
- The multiple delivery point contracts gives Cascade the flexibility to move the gas where it’s most needed.
- On GTN, transportation goes to the Citygate level as MDDO’s cannot be reallocated within the GTN zone.
- On NWP, transportation goes to the zone level because MDDO’s can be reallocated within a zone to the Citygate.

Transportation cont'd

- Transportation has an MDQ, a D1 rate, a transportation rate, and a fuel loss percentage.
- A maximum delivery quantity (MDQ) which is the maximum amount of gas Cascade can move on the pipeline on a single day.
- A D1 rate which is the reservation rate to have the ability to move the MDQ amount on the pipeline.
- A transportation rate which is the rate per dekatherm that is actually moved on the pipeline.
- The fuel loss percentage is the statutory percent of gas based on the tariff from the pipeline that is lost and unaccounted for from the point of where the gas was purchased to the Citygate.

Transport Example



Transport Example

	JAN 2016	FEB 2016	MAR 2016
*Daily MDQ	313		
*Daily Minimum Percent			
Fuel	0.005		
Rate - Transportation	0.00801552		
Rate - Other Variable			
Rate - D1 Rate	0.25181398		
Rate - Other Fixed			
Rate - Dispatch			
Volume - D1			
Volume - Other Fixed			
Temp Cutoff Max Temperature			
Available % Below Min/Above Max			
Temp Cutoff Min Temperature			
Apply Temperature Cutoff			
Capacity Release - Revenue per Unit			
Capacity Release - Min Pct to Release			
Capacity Release - Max Pct to Release			
Capacity Release - Recall Indicator			
Capacity Release - Start\Stop Indicator			
Indicator - Report			
Indicator- Process			
Resource Mix Start\Stop Indicators			
Rmix MDQ Range Max			
Rmix MDQ Range Min			
Minimum Flow Incentive			
Monthly Max Volume			
Monthly Minimum Percent			
Annual Max Volume			
Annual Minimum Percent			
Seasonal Max Volume			
Seasonal Minimum Percent			

Delivery Rights vs Receipt Rights

- Cascade has more Delivery Rights than Receipt Rights.
- Approximately 457,000 Dth of Delivery Rights.
- Approximately 360,000 Dth of Receipt Rights.
- The excess Delivery Rights allow Cascade to be flexible with the 360,000 Dth of Receipt gas.

Example of delivery right flexibility

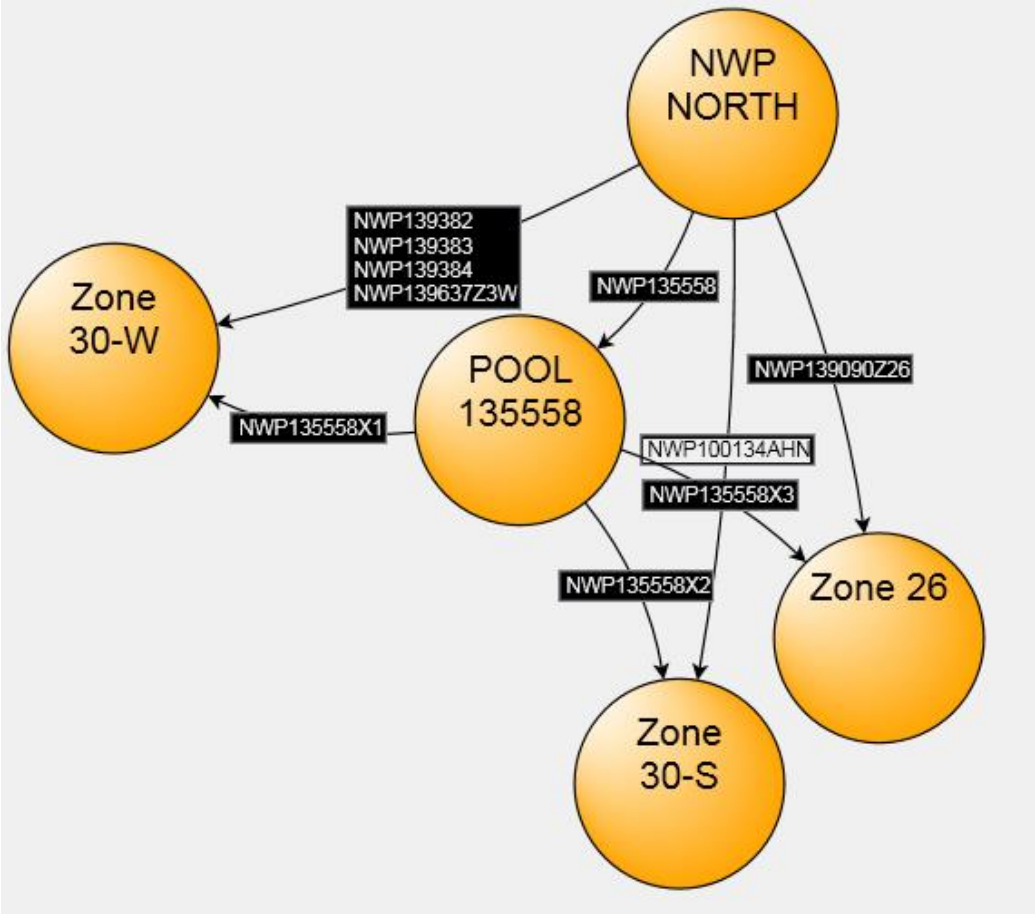
All of the following must be true

$X1 \leq 4\text{MDTs}$

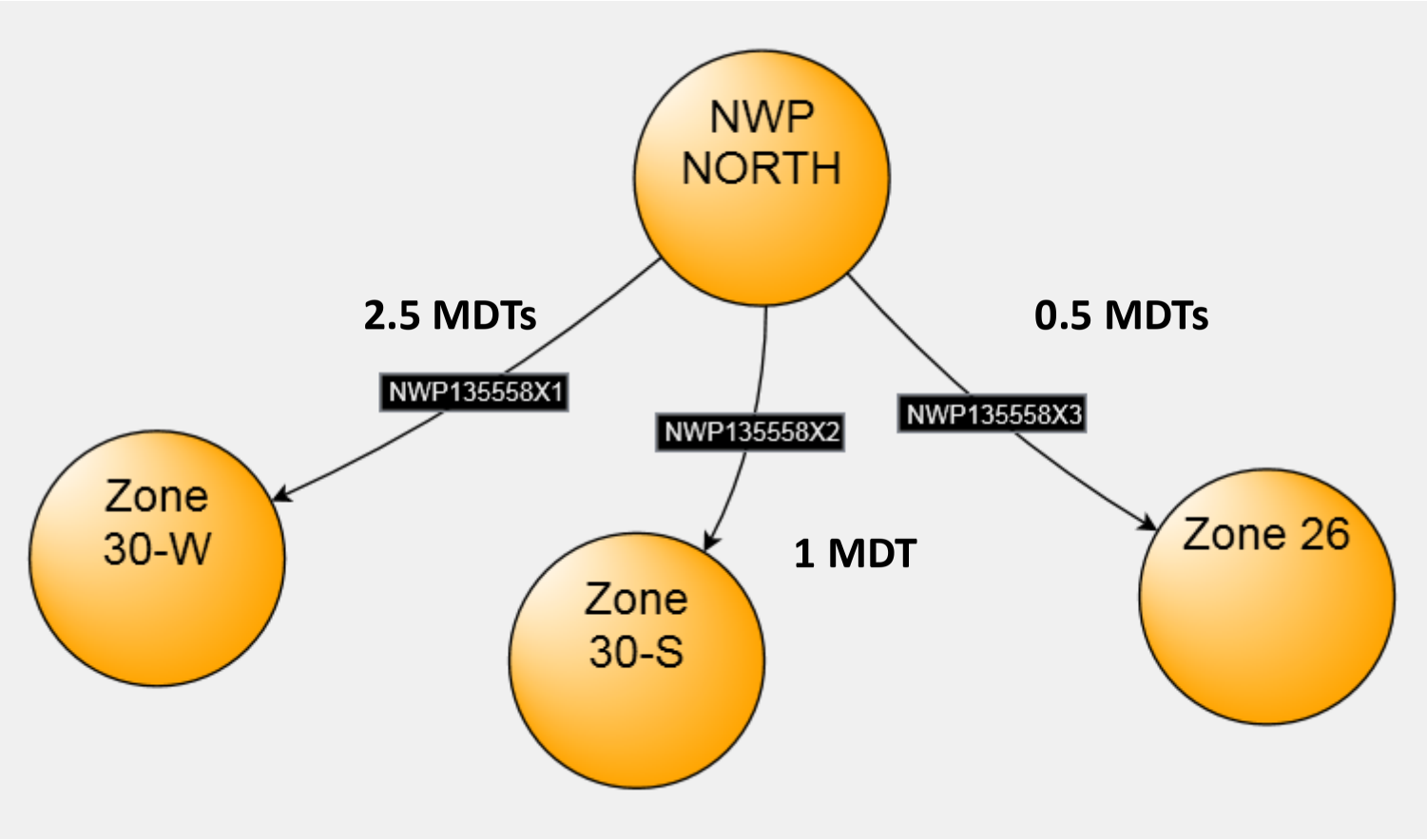
$X2 \leq 4\text{MDTs}$

$X3 \leq 4MDTs$

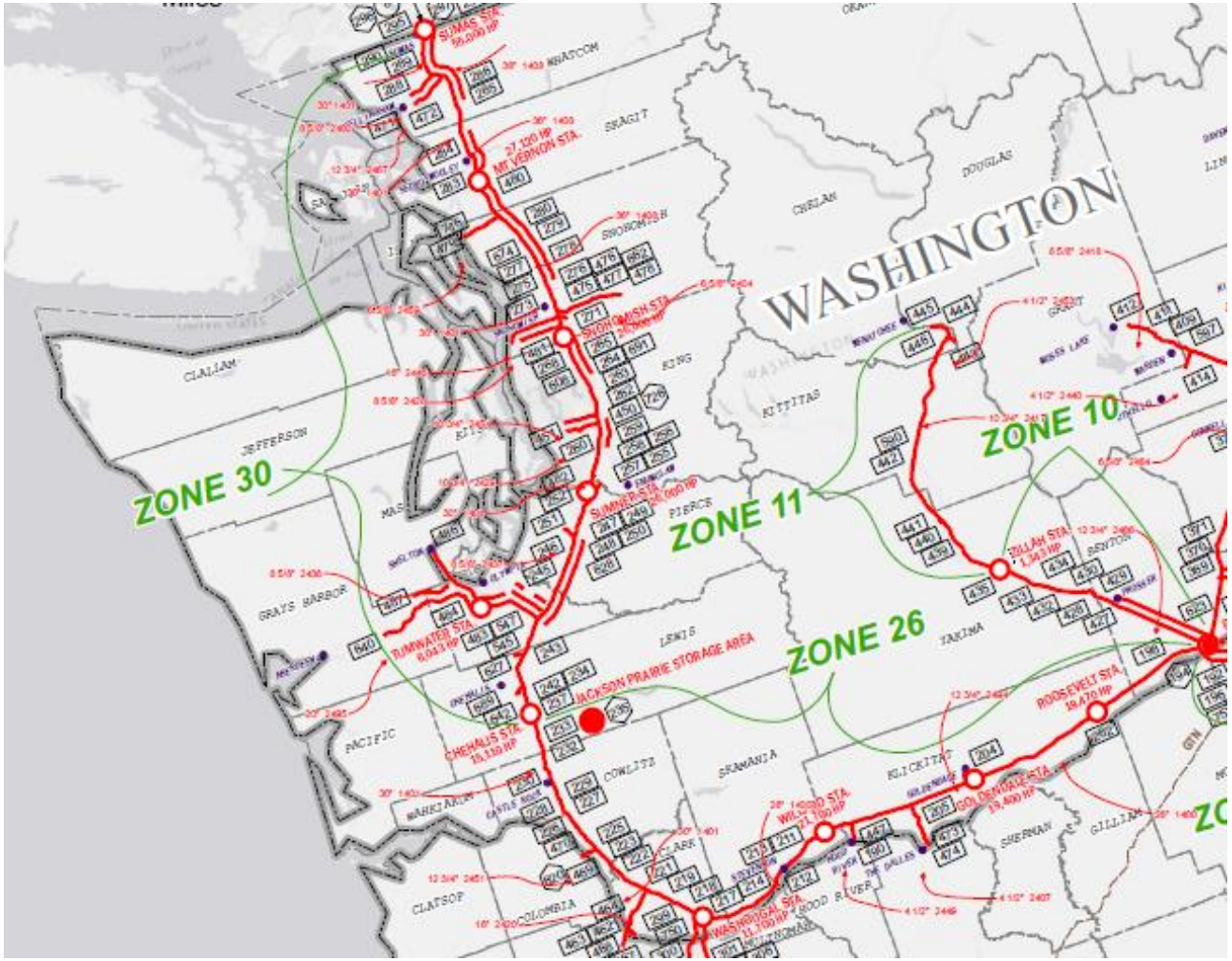
$X1 + X2 + X3 \leq 4MDTs$



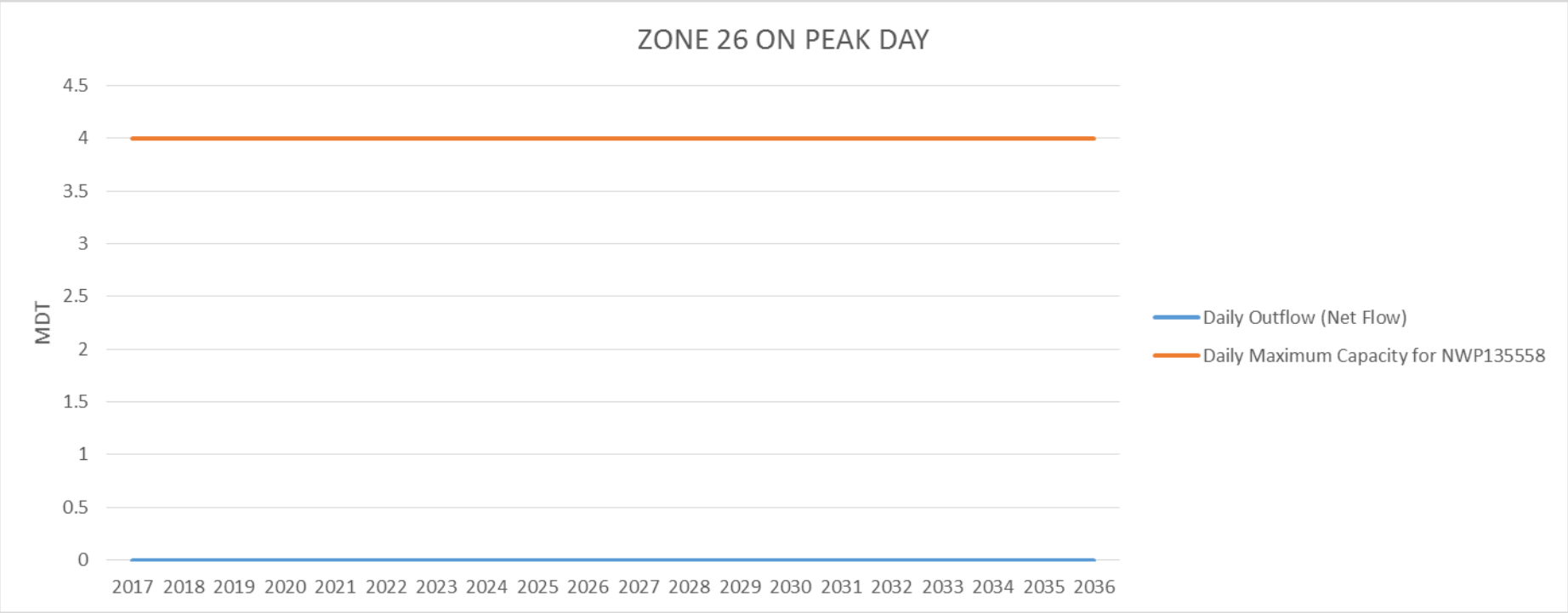
Example of delivery right inflexibility



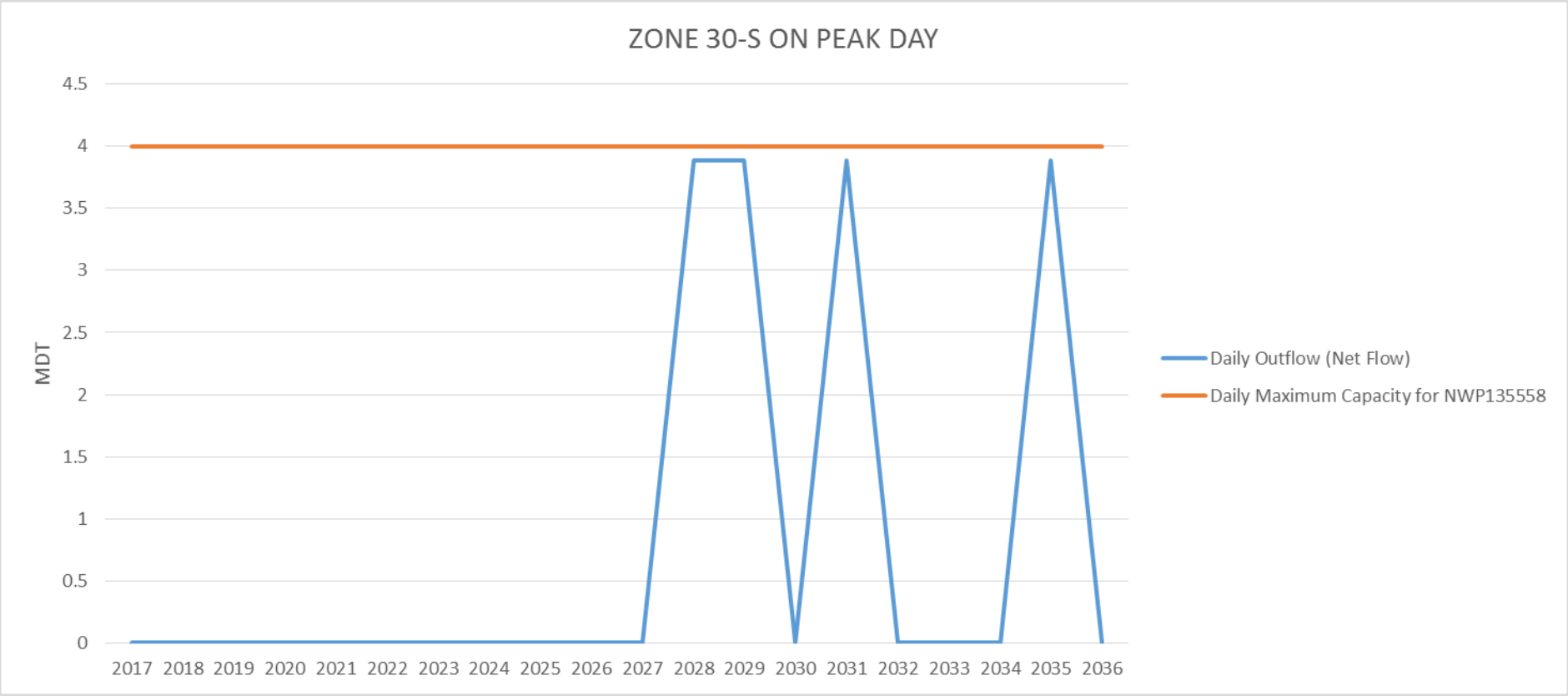
Location of Zones



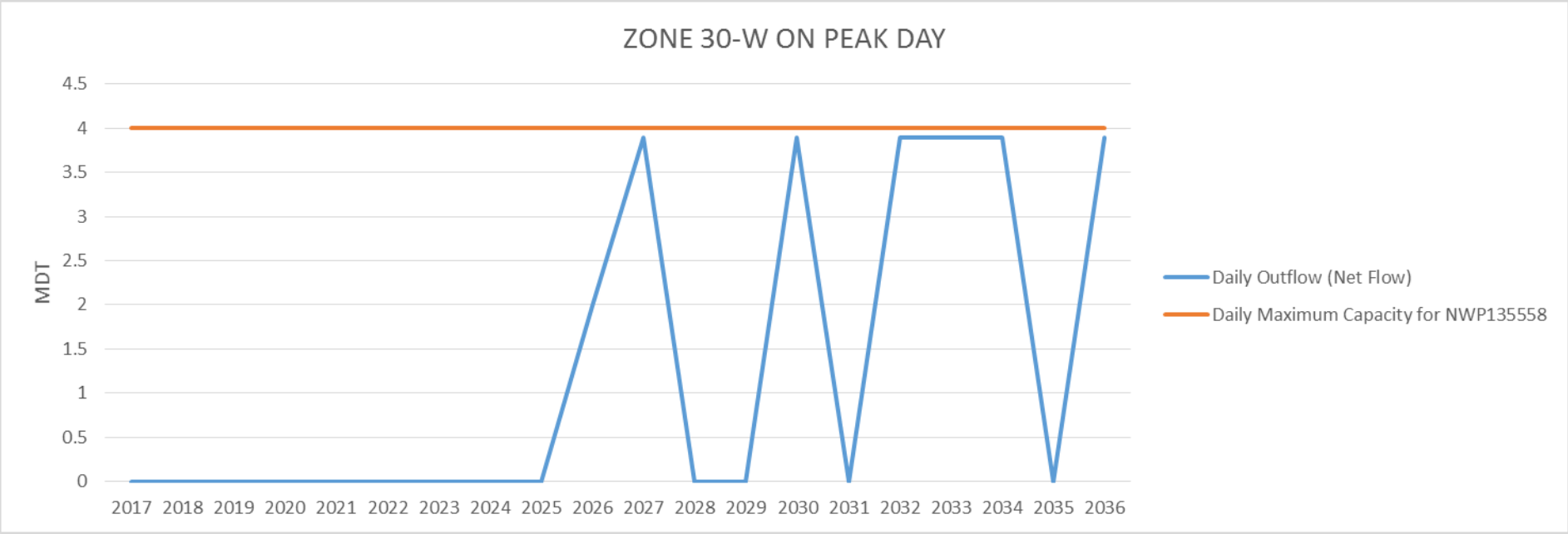
Zone 26 on Peak Day for Transport 135558



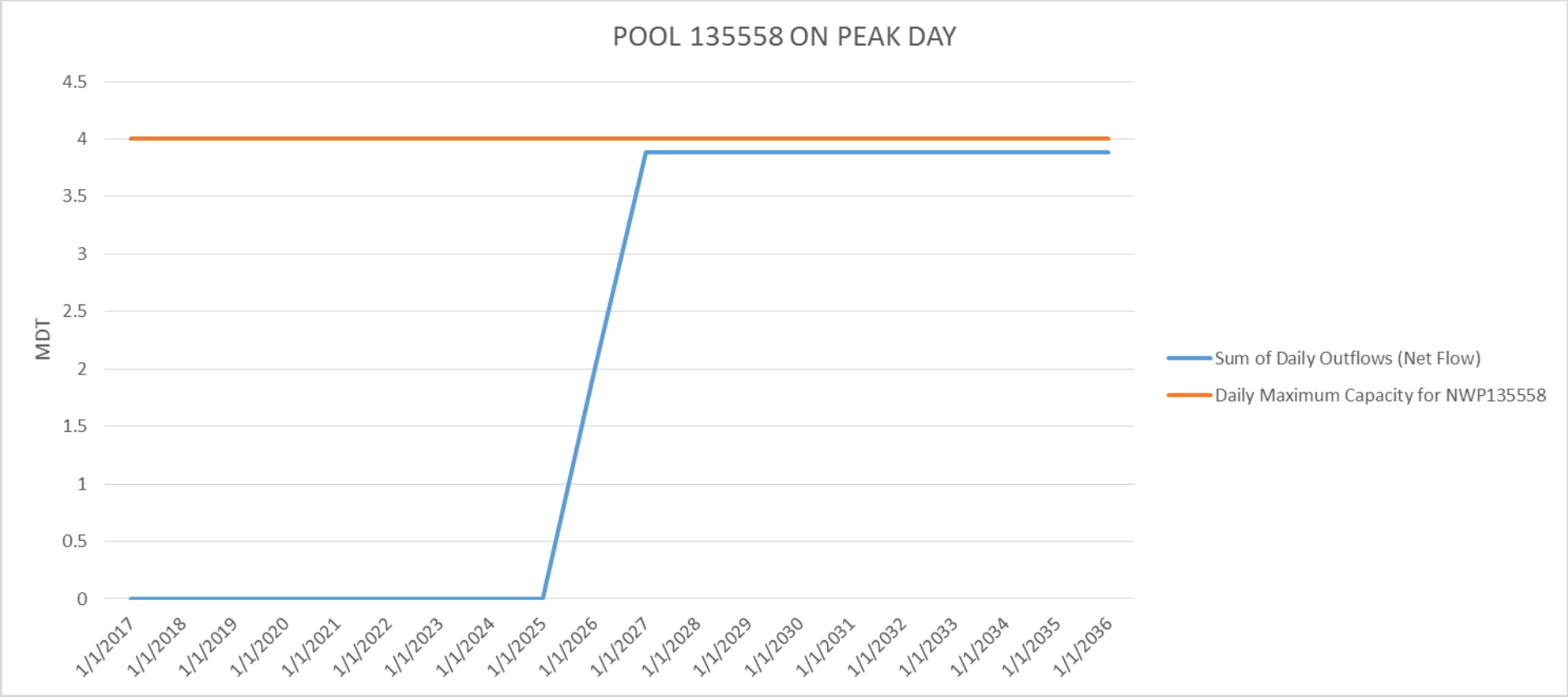
Zone 30-S on Peak Day for Transport 135558



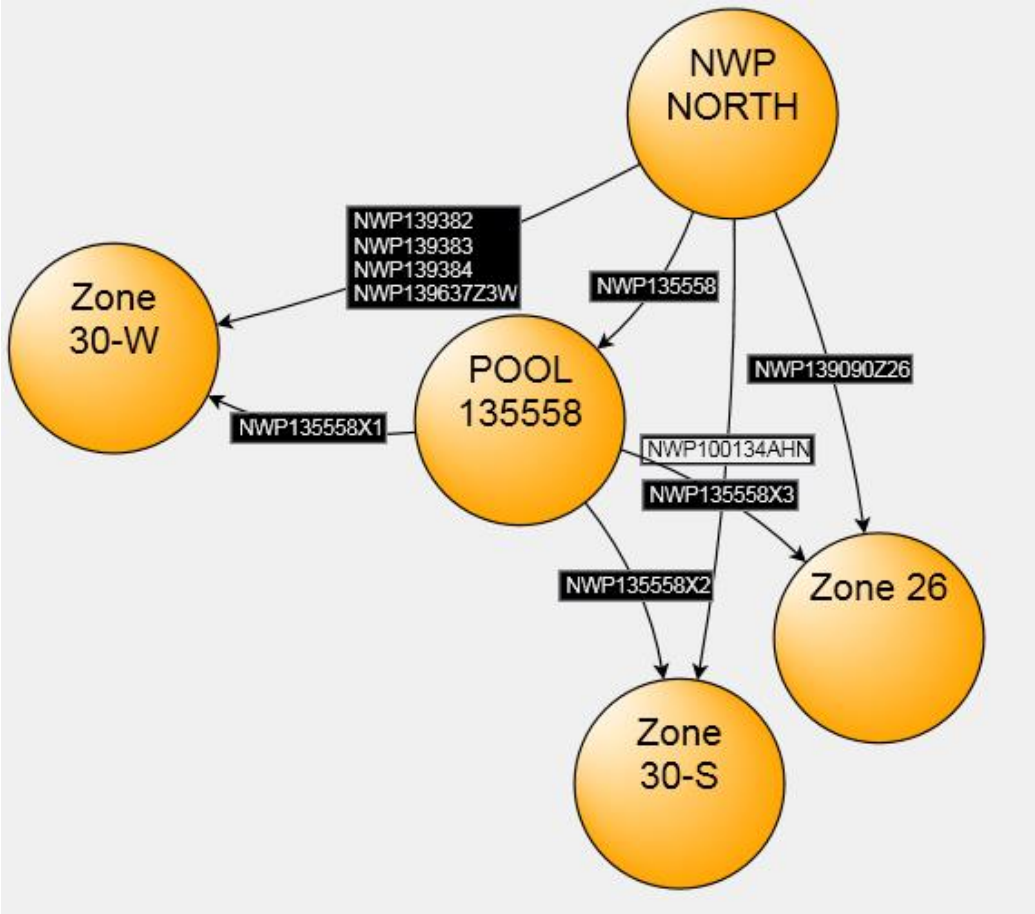
Zone 30-W on Peak Day for Transport 135558



Transport Contract 135558 on Peak Day



Example of delivery right flexibility



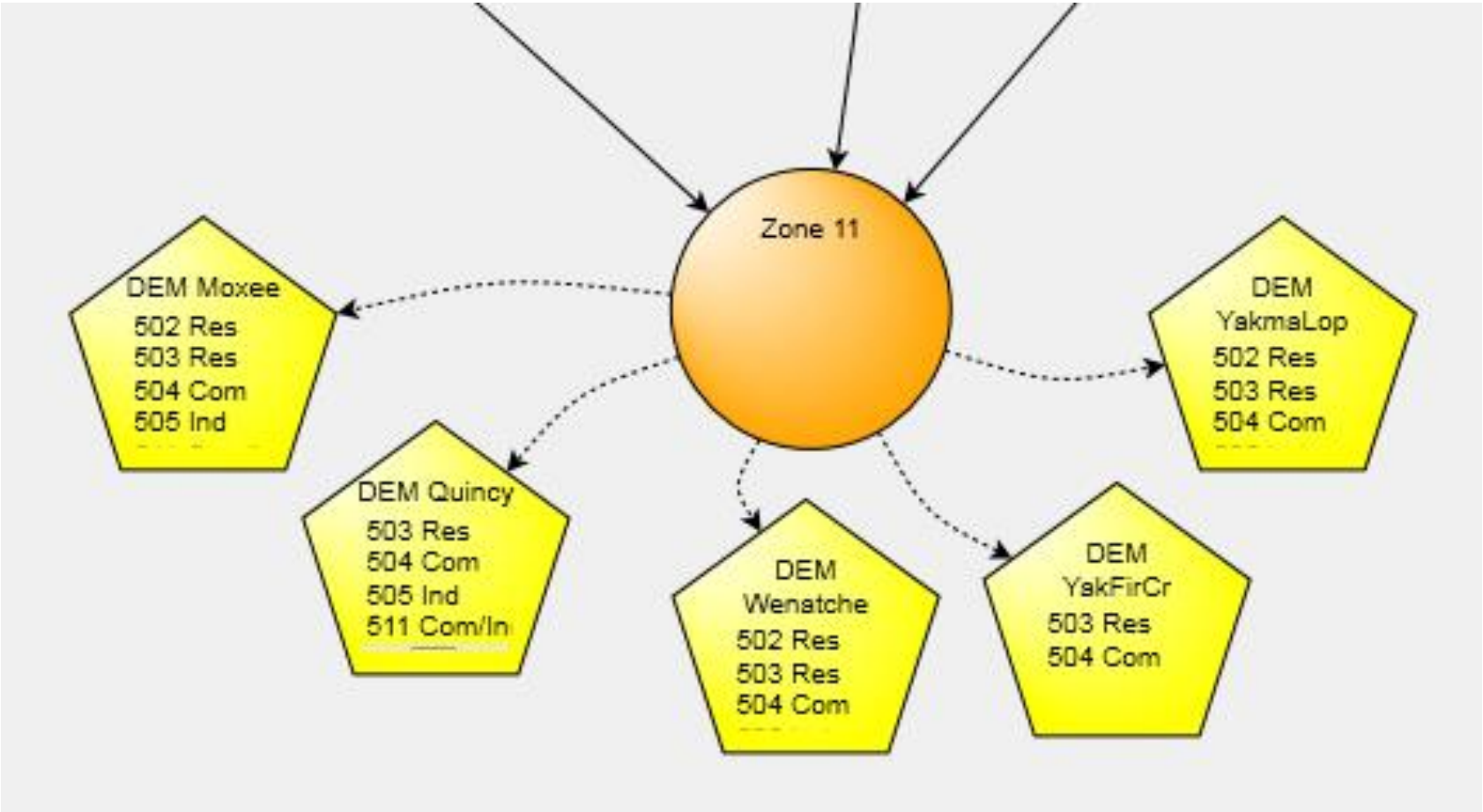
Demand Behind the Gate

- Cascade has strived over the last several years to make the IRP forecast and resource analysis to get to as granular a level as possible using the available data.
- Attempts to forecast demand behind the gate using existing forecasting methodology has been challenging.
- Customer billing data does not have daily meter reads for core customers making regression analysis on a use per HDD per customer difficult.
- Given Cascade is not a contiguous system, DSM by gate is currently is an ongoing complication
  - This year we have added the Climate Zone
  - Future IRPs will try and address the gate station level
- Some towns can be served by multiple pipelines and the mix can change over time.
- As part of the rate case settlement, Cascade is committed to performing a robust citygate study.

Demand

- Demand is forecasted at the Citygate level by rate schedule.
- For NWP, each Citygate's demand is associated with the zone.
- For GTN, each Citygate's demand is associated with it's respective Citygate interconnect.
- Demand Inputs
  - Forecast type (Monthly amount or Regressions)
  - Monthly projected customers for 20 years.
  - Regression coefficients if using the Regression forecast type.
  - If using a monthly number, it is the 2015 demand for that month with a growth factor.

Demand Example



Demand Example 2

	JAN 2016	FEB 2016	MAR 2016	APR 2016	MAY 2016	JUN 2016	JUL 2016
Forecast Method	Usage Fac						
Customers	24799.84312	24804.90431	24818.06341	24797.81864	24796.8064	24776.56163	24768.46372
*Demand - Daily							
Demand - Monthly Base							
Demand - Monthly Heat							
Demand - Monthly Total							
Demand - Percent Factor - non P non Q							
Demand - Percent Factor - non Q							
Usage Factors - Weekday Base	0.034631402						
Usage Factors - Weekday Heat	0.014867929						
Usage Factors - Weekend Base							
Usage Factors - Weekend Heat							
*Rate - Unserved Dispatch (Pri 1)							
*Rate - Unserved (Pri 2)							
*Rate - Revenue Variable (Pri 3)							
*Required Margin							
Rate - Revenue Fixed							
Determinant - Revenue Fixed							

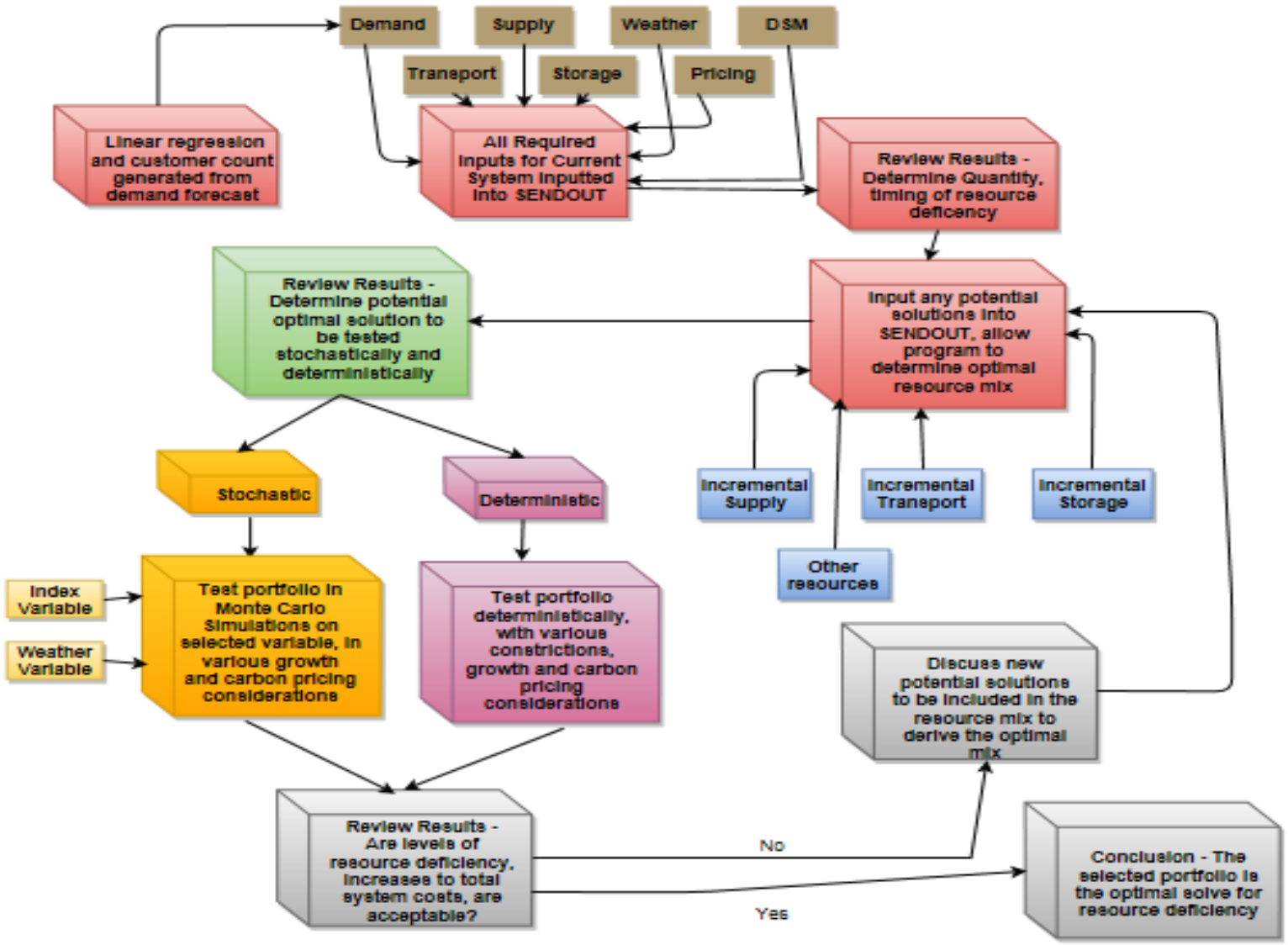
Weather

- Weather inputs for SENDOUT include:
  - Monte Carlo
  - Historical
  - Normal
- Monte Carlo inputs include mean, standard deviation, max and minimum.
- Historical data is used to build weather profiles for Monte Carlo.
- Normal weather is the daily average of the 30-year most recent history (1986-2015).

Weather Example – Monte Carlo

	JAN 2014	FEB 2014	MAR 2014	APR 2014	MAY 2014	JUN 2014	JUL 2014
HDD Mean	1031.8	804.1	639.6	453.9	254.2	92.6	10.3
HDD Std Dev	145.4	133.1	84.4	93.0	72.2	40.4	15.2
HDD Distribution	Normal						
HDD Max	1291	1242	841	641	426	170	75
HDD Min	772	568	448	254	92	19	0
CDD Mean							
CDD Std Dev							
CDD Distribution							
CDD Max							
CDD Min							
Scaling Year	Best Match						

Current Methodology – Flow Chart



Results/Analysis – As Is

- As Is Case: Using currently available Supplies, Transportation, and DSM, this scenario informs us where we expect deficiencies.
- For modeling purposes, we assume all contracts run through the 20 year planning horizon.
- Goal is to find the optimal mix of incremental supply, storage, transportation and other resources to “solve” for the best way to eliminate deficiencies at the lowest reasonable cost.
- While Cascade aims to serve the demand of all of its customers, we take the approach that we will not pick up incremental transportation if the sole purpose of it is to serve customers on an interruptible tariff.
- The mix of existing and incremental resources that SENDOUT selects as the optimal solve for our deficiencies is defined as our expected scenario.

Results/Analysis – As Is

Load Centers with Potential Peak Day Unserved Demand in dekatherms– As Is Scenario

Gate	2017	2020	2025	2030	2035	2036
Bend Loop	2,114	6,470	14,077	22,116	30,555	32,285
BREMERTON (SHELTON)	-	-	-	1,810	3,991	4,030
HERMISTON	-	-	-	1,127	1,852	1,859
Kennewick Loop	-	-	-	752	5,262	6,564
NYSSA-ONTARIO	-	-	-	923	1,063	1,062
Sedro-Woolley Loop	-	-	-	137	4,381	5,970
ZILLAH (TOPPENISH)	-	-	-	-	1,301	1,504
WENATCHEE	806	1,041	1,410	1,766	2,098	2,161
Yakima Loop	3,224	4,163	5,639	7,063	8,394	8,645
Total	6,144	11,674	21,126	35,694	58,897	64,079

Results/Analysis – Incremental Resources -

Incremental Transportation & Supply Acquired, in dekatherms

Resource	2017	2020	2030
Incremental GTN	-	20,472	11,814
I-5 Expansion	-	990	9,010
Wenatchee Expansion	-	5,810	1,500
Zone 20 Expansion	-	440	6,120
Incremental Starr Road	-	-	9,327
Eastern OR Expansion	-	3,920	1,170
Yakima LNG Plant	-	5,000	-
3rd Party Citygate Deliveries	6,144	-	-
Incremental Transport Acquired	6,144	36,632	38,940

Results/Analysis – Incremental Resources Selected

Transport

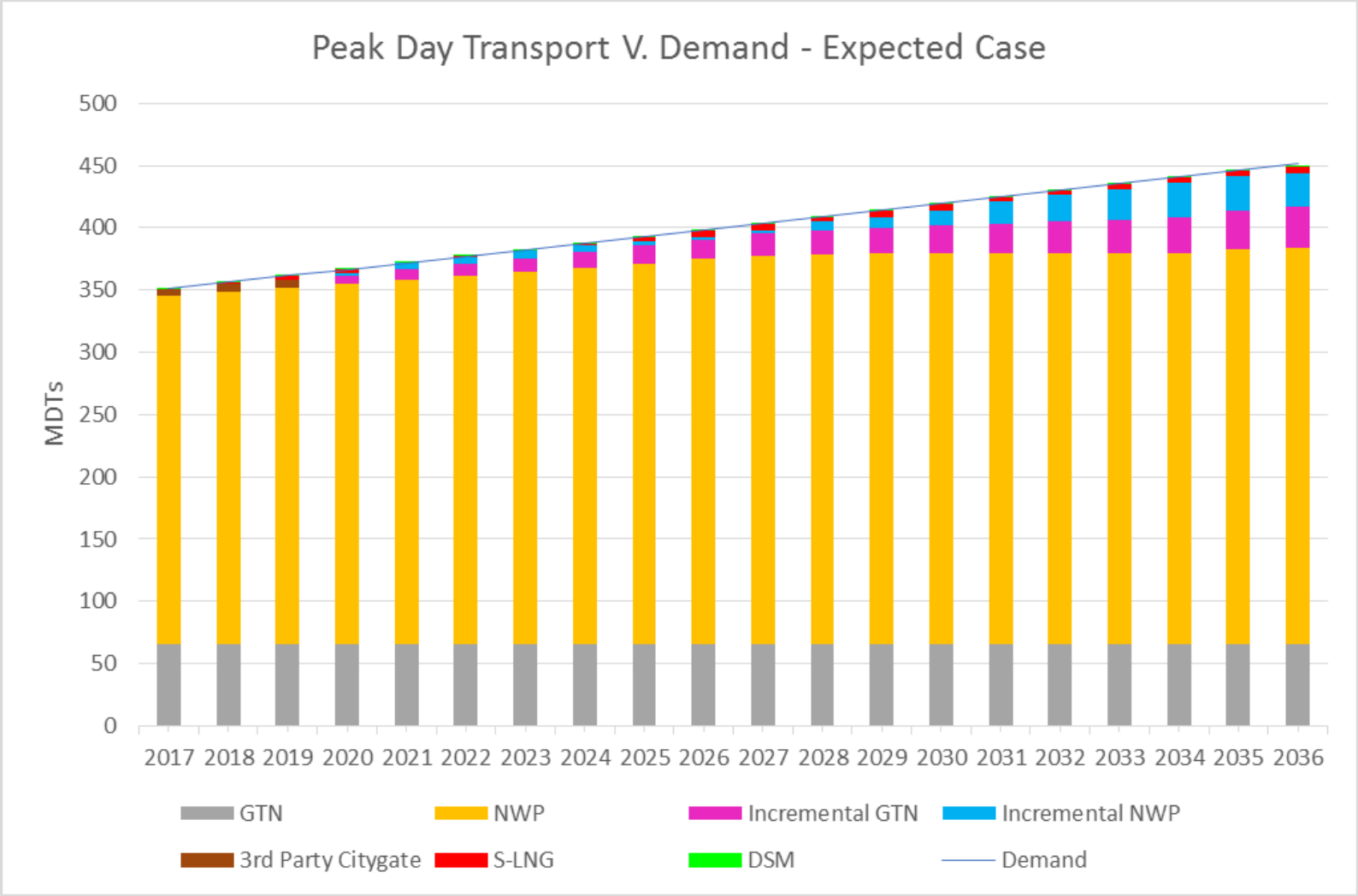
- 3rd Party Citygate Deliveries – Allows Cascade to purchase delivered natural gas from a 3rd party. 6,144 dth/day.
- Incremental GTN – Allows Cascade to continue to serve customers as the Company's core load grows in citygates that are fed by GTN capacity, specifically around Bend, Oregon where the Company expects shortfalls. 32,285 dth/day.
- I-5 Expansion – Allows Cascade to continue to serve customers as the Company's core load grows around the I-5 corridor, specifically in the Sedro-Woolley area. 10,000 dth/day.
- Wenatchee Expansion – Allows Cascade to continue to serve customers as the Company's core load grows in Central Washington in areas such as Wenatchee and Yakima. 7,310 dth/day.
- Zone 20 Expansion – Allows Cascade to continue to serve customers as the Company's core load grows in Eastern Washington in areas such as Kennewick. 6,560 dth/day.
- Incremental Starr Road – Allows Cascade the flexibility to move gas off of GTN and onto NWP through Starr Road when needed, displacing the need for potential incremental NWP capacity. 9,326 dth/day.
- Eastern Oregon Expansion – Allows Cascade to move gas from NWP to serve Eastern Oregon in areas such as Nyssa-Ontario. 3,950 dth/day.

Results/Analysis – Incremental Resources Selected

Supply

- Yakima Satellite LNG Plant – Allows Cascade the opportunity to serve demand in a cost effective way directly to Yakima, WA without new transport, which in turn helps increase served demand system wide through a displacement of Maximum Daily Delivery Obligations (MDDOs) among existing contracts. 5,000 dth/day.

Results/Analysis – Impact of Additional Transport/supply



Conclusion – Expected Scenario

Load Centers with Potential Peak Day Unserved Demand in dekatherms – Expected Scenario

Gate	2020	2025	2030	2035	2036
Bremerton (Shelton)	0	0	0	0	794
Kennewick Loop	0	0	0	0	362
Nyssa-Ontario	0	0	0	0	247
Othello	0	0	0	0	157
Pendelton	0	0	0	0	812
Umatilla	0	0	0	0	365
Total	0	0	0	0	2,736

Conclusion

- Cascade has identified potential deficiencies starting in 2017
- From 2017-2020, Cascade uses 3rd Party Citygate deliveries to solve this shortfall
- From 2020 through the end of the planning horizon, Cascade uses a mix of incremental Transportation and Supply to solve the deficiency
- With the resource mix that is designated the “Expected Scenario” Cascade projects that there will only be a slight deficiency in 2036, all of which is from customers on an interruptible tariff.

NEXT STEPS?

Cascade Natural Gas Corporation

Integrated Resource Plan
Technical Advisory Group Meeting #6

Thursday November 17th, 2016

CNGC Headquarters

Via WebEx

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

6th External TAG Meeting

Date & time: 11/17/2016, 09:00 AM – 10:38 AM

Location: WebEx from Kennewick GO

Presenters: Mark Sellers-Vaughn, Brian Robertson & Devin McGreal

In attendance: Mark Sellers-Vaughn, Brian Robertson, Devin McGreal, Mike Parvinen, Jennifer Gross, Pam Archer, Brian Hoyle, Eric Wood, Carolyn Stone

Called in: Garret Senger, Marty Saldivar - NWP, Ed Finklea, Kary Burin, Kathi Scanlan, David Nightingale, Jeremy Twitchell, Monica Cowlishaw & Bruce Folsom.

Minutes by: Carolyn P Stone

Mark began the meeting by welcoming everyone. The purpose of today's meeting, he explained, is to expand on how Sendout is used. On Monday there will be a "live configuration" of Sendout.

Mark then went through introductions and asked Garret Senger if he had anything to say before the meeting. Garret said he appreciated this meeting being set up and mentioned that the IRP deadline is coming up. He thanked the IRP group for following up on comments.

Mark then went over the Agenda including what the Sendout is, its history, methodology, simulation examples, results/solves and conclusion.

Presentation #1 – Mark Sellers-Vaughn
What is Sendout?

- Slide 3 explains that the Sendout is a "Resource Optimization Model" which develops portfolios. It is powerful & complex. A 20 year "horizon" is used.
- Slide 4 – Sendout uses a "Linear Programming Approach".
- Our knowledge and experience is needed along with the results of Sendout to decide the best solution for CNG.

History

- Slide 5 shows a progression of configuration changes made to Sendout over time. In 2004 the configuration was simplified compared to today.
- In 2016 the configuration is improved by adding load citygate station, rate schedule & zonal parameters.
- Slide 6 shows a table with history of IRP solves – at a high level. Mark stated that the "takeaway" from this slide is that the principal solves are consistently "incremental supply" and the resources to move the supply needed and added storage in Oregon, not Washington.

Question: Mark Asked Kathi Scanlan if Staff would like an expansion of these slides on historical solves from Sendout as an Appendix? If so, which Appendix would you like us to use or should we build a new one?

Answer: Kathi stated yes this would be good in an Appendix and it should be a NEW one.

Presentation #2 – Brian Robertson
Current Methodology

- Brian Robertson started his presentation by showing us on Slide 11 the Current Methodology Flow Chart.
- The first two red boxes show all the required inputs. The Demand Forecast Model is used here.
- Brian discussed the different types of supplies in SENDOUT; base, fixed, winter base, day supply, and Peak.
- Slide 26 – Storage:
    - Shows JP and Plymouth and contracts associated with those storage locations.
    - The storage targets are by Tariff.
    - Total withdrawal per day is 56K from JP and 78K from Plymouth.

Question: David Nightingale asked if CNG owned the storage or it was contracted.
Answer: Mark responded that the storage is leased. Cascade owns no storage facilities.

- Slide 27 shows a storage example including the associated contracts for Jackson Prairie (JP).
- Slide 28 – Shows how storage is modeled in Sendout. The inputs are the capacity and max per day allowed along with the storage % targets for June, August & September, 2017.
- Slide 29 – Brian discussed transportation.
- D1 Rate is a reservation Rate. The transportation rate is per Dth, to move the gas.
- Slide 31 – Shows a transport example. There is a constraint at Kemmerer that is not shown in this example.
- Slide 32 – How the transport example shown looks in Sendout.
- Slide 33 – Explains how Cascade has more delivery than receipt rights, 457K Dth of delivery, 360K of receipt. This allows flexibility! Slide 34, shows an example of that flexibility and Slide 35 shows how it looks when you do not have flexibility.
- Slide 36 – Brian explains the flexibility of Cascade's transportation contracts.
- Slide 42 – shows demand behind the gate. Brian explained that CNG is trying to get as granular as possible. CNG is now forecasting by Rate Schedule. There is a DSM by gate complication though because some towns are served by different pipelines. This year Climate zone was added.
- Slide 43 - Discusses how demand is forecasted for NWP and GTN and the associated inputs.
- Slide 44 - Shows a demand example using Zone 11.
- Slide 45 - Shows a demand example modeled in Sendout.
- Slide 46 – Discusses Weather inputs for Sendout. The Monte Carlo uses mean, standard deviation and max/min. Historical data used from 1986 – 2015.
- Slide 47 - Shows the weather example using the Monte Carlo simulation.

Presentation #3 – Devin McGreal
Results/Analysis

- Slide 48 - Shows the Current Methodology flow chart. All inputs put into Sendout in an "as is case" and Sendout tells where there are deficiencies, using Zone, Citygate, etc. Deficiencies refer to "unserved demand" - see box 4 of flow chart.
- When Sendout resolves, not every option is taken. If solutions not satisfactory, change inputs and test again to try and get the optimal solve for the resource portfolio.
- Results as is:
    - All contracts go through 20 years
    - Optimal Portfolio to eliminate deficiencies at the lowest cost!
    - Sendout finds a mix of resources which = "Expected Scenario"

- Slide 50 shows load centers with potential peak day unserved demand from the "As Is Scenario" from 2017 through 2036.
- Slide 51 shows the incremental resources recommended by Sendout to serve demand Ex: Acquire GTN capacity of 20.472 in 10 years.

Question: Kathy asked about Bend, Wenatchee & Yakima in 2017 on Slide 51, what's going on there?
Answer: Mark stated that existing capacity within the zone may not be sufficient. We could get short-term capacity until we get long-term in place.

Question: David Nightingale asked why DSM (Demand Side Management) was not mentioned here as a resource option?
Answer: Mark explained that DSM is a resource, but it is not in this slide. It will be in the coming slides. It **is** part of the optimal portfolio solution!

- Slide 52 - Shows detail on the incremental resources selected for Transport, including using Starr Road when needed.
- Slide 53 - Discusses the Yakima Satellite LNG Plant use. It allows 5,000 per day that to be used elsewhere.

Question: Kathy Scanlan asked if the Yakima LNG Plant is a "new build"?
Answer: Mark explained that CNG is working with their engineering department to confirm this project. It is a low cost alternative. We should know more by spring of next year. We need a consultant's help. It is a substantial cost to build but the same as the expense of a Yakima lateral expansion.

Question: David Nightingale then asked for transparency regarding the estimated costs.
Answer: Mark explained that CNG will share that information with the group, but it is not going in the IRP because it is confidential to the public. We can share cost "ranges" with the public but not specific prices.

- Slide 54 - Shows the resource "stack" impact
- The gray and yellow bars show current contracts, the brown shows the "solve" for 2017, 18 & 19.
- Slide 55 - shows the expected scenario where the unserved demand is satisfied until 2036 through stochastic & deterministic analysis, assuming average weather.

Question: David Nightingale stated that Devin used the expression Expected Case/Expected Scenario synonymously, are they the same?
Answer: Devin said:

Expected Case = the Portfolio we are suing,
Expected Scenario = shows the range of conditions in the Portfolio
****** NO they are not the same.

- Concluding with Slide 56 - Shows the deficiency details of the "solve" recommended by Sendout.

Question: Kathi Scanlan asked if the deficiencies in 2017 are the "As Is" case.
Answer: Mark answered "Yes". Each time we there is a shortfall or deficiency we will label which case it is.

Question: Kathi Scanlan asked if the IRP group can provide a table of quantities for Slide 54, DSM quantities.

Answer: Devin said "Absolutely".

Question: David Nightingale asked how long it takes to run Sendout?
Answer: Mark stated that a "deterministic run" takes 10 minutes. A run of Monte Carlo takes 10 hours.

Question: Kathy Scanlan asked for a spreadsheet list of inputs for a deterministic run of the model.
Answer: Devin said that the group is going to go through all the screens on Monday.

Question: David Nightingale said he wants a list of the inputs.
Answer: Brian Robertson stated that there are 70 to 80 transport contract inputs and asks if examples of those are OK? Mark stated that Monday the group will walk Staff through live Sendout scenarios and do a deterministic run and discuss the output.

Question: Kathi Scanlan asked if they could get the price ranges discussed earlier.
Answer: Mark said "Yes!"

Garrett gave thanks to the group and said it was helpful information today and he looks forward to Monday's presentation.

Bruce Folsom pointed out some numbers involved in the compilation of the data for the IRP as follows:

- 27 People with eyes on the IRP
- 14 Writers involved
- 7 Departments involved

This is a LOT of work going on! Bruce thanks CNG leadership for allocating the resources necessary to this project!

Mark thanked everyone for attending and will see Staff on Monday!

Appendix B

Demand Forecast

UG-160453

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Athena

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	234,442	154,372	388,814	236,650	155,636	392,286	238,870	156,907	395,777
2018	235,469	154,973	390,442	238,727	156,849	395,576	242,019	158,744	400,763
2019	236,482	155,568	392,050	240,784	158,057	398,841	245,153	160,580	405,733
2020	239,390	156,154	395,544	244,763	159,250	404,012	250,246	162,401	412,647
2021	238,448	156,735	395,183	244,807	160,436	405,243	251,325	164,220	415,545
2022	239,422	157,314	396,737	246,813	161,626	408,438	254,423	166,051	420,475
2023	240,372	157,883	398,256	248,778	162,798	411,576	257,472	167,863	425,335
2024	243,274	158,453	401,727	252,778	163,977	416,755	262,652	169,692	432,343
2025	242,268	159,018	401,287	252,725	165,150	417,875	263,633	171,519	435,152
2026	243,196	159,575	402,771	254,668	166,311	420,979	266,687	173,332	440,019
2027	244,121	160,129	404,249	256,613	167,469	424,082	269,755	175,150	444,905
2028	246,999	160,670	407,669	260,597	168,607	429,204	274,961	176,941	451,902
2029	245,921	161,210	407,132	260,423	169,744	430,168	275,803	178,740	454,542
2030	246,806	161,741	408,547	262,306	170,867	433,172	278,808	180,520	459,328
2031	247,672	162,259	409,931	264,158	171,967	436,125	281,777	182,272	464,049
2032	250,520	162,761	413,281	268,107	173,037	441,143	286,974	183,981	470,956
2033	249,341	163,252	412,593	267,747	174,085	441,832	287,567	185,664	473,230
2034	250,134	163,723	413,858	269,462	175,096	444,558	290,348	187,290	477,639
2035	250,913	164,183	415,096	271,152	176,086	447,238	293,099	188,889	481,988
2036	253,703	164,630	418,333	275,002	177,052	452,054	298,178	190,454	488,632

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.44%	0.39%	0.42%	0.88%	0.78%	0.84%	1.32%	1.17%	1.26%
2019	0.43%	0.38%	0.41%	0.86%	0.77%	0.83%	1.29%	1.16%	1.24%
2020	1.23%	0.38%	0.89%	1.65%	0.75%	1.30%	2.08%	1.13%	1.70%
2021	-0.39%	0.37%	-0.09%	0.02%	0.75%	0.30%	0.43%	1.12%	0.70%
2022	0.41%	0.37%	0.39%	0.82%	0.74%	0.79%	1.23%	1.11%	1.19%
2023	0.40%	0.36%	0.38%	0.80%	0.73%	0.77%	1.20%	1.09%	1.16%
2024	1.21%	0.36%	0.87%	1.61%	0.72%	1.26%	2.01%	1.09%	1.65%
2025	-0.41%	0.36%	-0.11%	-0.02%	0.72%	0.27%	0.37%	1.08%	0.65%
2026	0.38%	0.35%	0.37%	0.77%	0.70%	0.74%	1.16%	1.06%	1.12%
2027	0.38%	0.35%	0.37%	0.76%	0.70%	0.74%	1.15%	1.05%	1.11%
2028	1.18%	0.34%	0.85%	1.55%	0.68%	1.21%	1.93%	1.02%	1.57%
2029	-0.44%	0.34%	-0.13%	-0.07%	0.67%	0.22%	0.31%	1.02%	0.58%
2030	0.36%	0.33%	0.35%	0.72%	0.66%	0.70%	1.09%	1.00%	1.05%
2031	0.35%	0.32%	0.34%	0.71%	0.64%	0.68%	1.06%	0.97%	1.03%
2032	1.15%	0.31%	0.82%	1.49%	0.62%	1.15%	1.84%	0.94%	1.49%
2033	-0.47%	0.30%	-0.17%	-0.13%	0.61%	0.16%	0.21%	0.91%	0.48%
2034	0.32%	0.29%	0.31%	0.64%	0.58%	0.62%	0.97%	0.88%	0.93%
2035	0.31%	0.28%	0.30%	0.63%	0.57%	0.60%	0.95%	0.85%	0.91%
2036	1.11%	0.27%	0.78%	1.42%	0.55%	1.08%	1.73%	0.83%	1.38%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	423	4,315	4,738	426	4,355	4,781	430	4,395	4,824
2018	425	4,333	4,758	430	4,392	4,822	435	4,451	4,886
2019	426	4,352	4,778	433	4,429	4,862	440	4,508	4,948
2020	428	4,370	4,797	436	4,466	4,902	445	4,564	5,009
2021	429	4,387	4,817	440	4,502	4,942	450	4,620	5,070
2022	431	4,405	4,836	443	4,538	4,981	455	4,676	5,131
2023	433	4,422	4,855	446	4,574	5,020	460	4,731	5,191
2024	434	4,439	4,874	449	4,610	5,059	465	4,787	5,252
2025	436	4,457	4,892	452	4,646	5,098	470	4,843	5,313
2026	437	4,473	4,911	456	4,681	5,136	475	4,898	5,373
2027	439	4,490	4,929	459	4,716	5,175	480	4,954	5,433
2028	440	4,507	4,947	462	4,751	5,212	485	5,008	5,493
2029	442	4,523	4,965	465	4,785	5,250	490	5,063	5,553
2030	443	4,539	4,982	468	4,819	5,287	495	5,118	5,612
2031	445	4,555	4,999	471	4,853	5,324	499	5,171	5,671
2032	446	4,570	5,016	474	4,886	5,360	504	5,224	5,728
2033	447	4,585	5,032	477	4,918	5,395	509	5,276	5,785
2034	449	4,599	5,048	480	4,949	5,429	513	5,326	5,839
2035	450	4,613	5,063	482	4,979	5,462	518	5,376	5,893
2036	451	4,627	5,078	485	5,009	5,494	522	5,425	5,946

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.39%	0.43%	0.43%	0.78%	0.86%	0.85%	1.17%	1.29%	1.28%
2019	0.38%	0.42%	0.42%	0.77%	0.85%	0.84%	1.16%	1.27%	1.26%
2020	0.38%	0.41%	0.41%	0.75%	0.82%	0.82%	1.13%	1.24%	1.23%
2021	0.37%	0.41%	0.40%	0.75%	0.81%	0.81%	1.12%	1.22%	1.21%
2022	0.37%	0.40%	0.40%	0.74%	0.81%	0.80%	1.11%	1.21%	1.21%
2023	0.36%	0.39%	0.39%	0.73%	0.78%	0.78%	1.09%	1.18%	1.17%
2024	0.36%	0.39%	0.39%	0.72%	0.78%	0.78%	1.09%	1.18%	1.17%
2025	0.36%	0.39%	0.38%	0.72%	0.77%	0.77%	1.08%	1.17%	1.16%
2026	0.35%	0.38%	0.38%	0.70%	0.76%	0.75%	1.06%	1.14%	1.13%
2027	0.35%	0.37%	0.37%	0.70%	0.75%	0.75%	1.05%	1.13%	1.13%
2028	0.34%	0.36%	0.36%	0.68%	0.73%	0.73%	1.02%	1.10%	1.09%
2029	0.34%	0.36%	0.36%	0.67%	0.73%	0.72%	1.02%	1.10%	1.09%
2030	0.33%	0.35%	0.35%	0.66%	0.71%	0.71%	1.00%	1.07%	1.07%
2031	0.32%	0.35%	0.34%	0.64%	0.70%	0.69%	0.97%	1.05%	1.04%
2032	0.31%	0.34%	0.33%	0.62%	0.67%	0.67%	0.94%	1.02%	1.01%
2033	0.30%	0.33%	0.33%	0.61%	0.66%	0.66%	0.91%	1.00%	0.99%
2034	0.29%	0.31%	0.31%	0.58%	0.63%	0.63%	0.88%	0.95%	0.95%
2035	0.28%	0.31%	0.30%	0.57%	0.62%	0.61%	0.85%	0.93%	0.93%
2036	0.27%	0.30%	0.30%	0.55%	0.60%	0.60%	0.83%	0.91%	0.90%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	263,244	125,570	388,814	264,889	127,398	392,286	266,538	129,239	395,777
2018	264,065	126,377	390,442	266,540	129,036	395,576	269,031	131,732	400,763
2019	264,888	127,162	392,050	268,202	130,638	398,841	271,547	134,185	405,733
2020	266,984	128,560	395,544	271,161	132,851	404,012	275,390	137,256	412,647
2021	266,531	128,652	395,183	271,533	133,710	405,243	276,614	138,931	415,545
2022	267,351	129,385	396,737	273,205	135,233	408,438	279,169	141,306	420,475
2023	268,170	130,086	398,256	274,878	136,699	411,576	281,732	143,603	425,335
2024	270,276	131,451	401,727	277,878	138,877	416,755	285,671	146,673	432,343
2025	269,799	131,488	401,287	278,222	139,653	417,875	286,882	148,271	435,152
2026	270,601	132,170	402,771	279,877	141,102	420,979	289,442	150,578	440,019
2027	271,396	132,853	404,249	281,522	142,560	424,082	291,994	152,912	444,905
2028	273,487	134,182	407,669	284,511	144,693	429,204	295,943	155,959	451,902
2029	272,960	134,171	407,132	284,772	145,396	430,168	297,056	157,486	454,542
2030	273,726	134,821	408,547	286,369	146,803	433,172	299,556	159,772	459,328
2031	274,468	135,463	409,931	287,923	148,202	436,125	301,993	162,056	464,049
2032	276,502	136,779	413,281	290,809	150,334	441,143	305,811	165,145	470,956
2033	275,873	136,720	412,593	290,874	150,959	441,832	306,642	166,588	473,230
2034	276,539	137,318	413,858	292,278	152,280	444,558	308,863	168,776	477,639
2035	277,181	137,915	415,096	293,635	153,603	447,238	311,013	170,975	481,988
2036	279,132	139,201	418,333	296,361	155,693	452,054	314,599	174,033	488,632

Annual Change

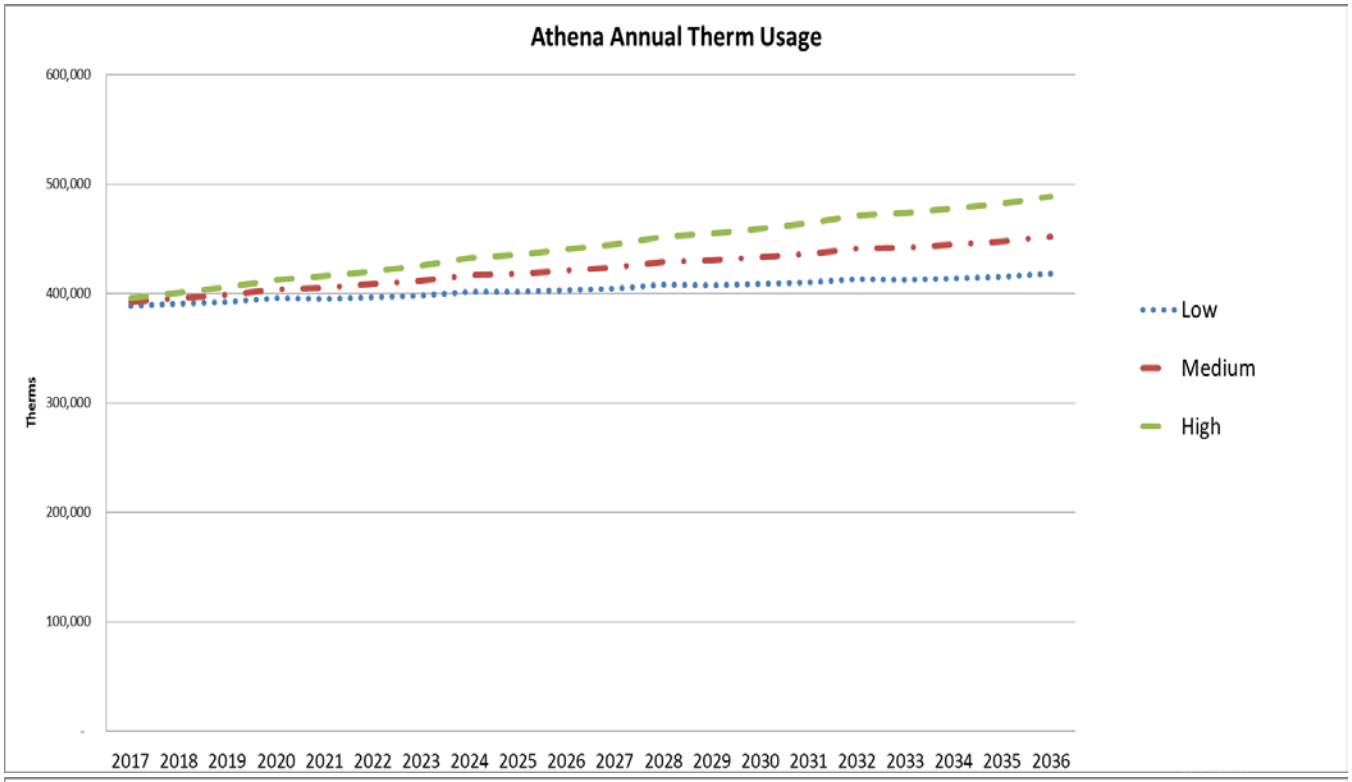
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.64%	0.42%	0.62%	1.29%	0.84%	0.94%	1.93%	1.26%
2019	0.31%	0.62%	0.41%	0.62%	1.24%	0.83%	0.94%	1.86%	1.24%
2020	0.79%	1.10%	0.89%	1.10%	1.69%	1.30%	1.42%	2.29%	1.70%
2021	-0.17%	0.07%	-0.09%	0.14%	0.65%	0.30%	0.44%	1.22%	0.70%
2022	0.31%	0.57%	0.39%	0.62%	1.14%	0.79%	0.92%	1.71%	1.19%
2023	0.31%	0.54%	0.38%	0.61%	1.08%	0.77%	0.92%	1.63%	1.16%
2024	0.79%	1.05%	0.87%	1.09%	1.59%	1.26%	1.40%	2.14%	1.65%
2025	-0.18%	0.03%	-0.11%	0.12%	0.56%	0.27%	0.42%	1.09%	0.65%
2026	0.30%	0.52%	0.37%	0.59%	1.04%	0.74%	0.89%	1.56%	1.12%
2027	0.29%	0.52%	0.37%	0.59%	1.03%	0.74%	0.88%	1.55%	1.11%
2028	0.77%	1.00%	0.85%	1.06%	1.50%	1.21%	1.35%	1.99%	1.57%
2029	-0.19%	-0.01%	-0.13%	0.09%	0.49%	0.22%	0.38%	0.98%	0.58%
2030	0.28%	0.48%	0.35%	0.56%	0.97%	0.70%	0.84%	1.45%	1.05%
2031	0.27%	0.48%	0.34%	0.54%	0.95%	0.68%	0.81%	1.43%	1.03%
2032	0.74%	0.97%	0.82%	1.00%	1.44%	1.15%	1.26%	1.91%	1.49%
2033	-0.23%	-0.04%	-0.17%	0.02%	0.42%	0.16%	0.27%	0.87%	0.48%
2034	0.24%	0.44%	0.31%	0.48%	0.88%	0.62%	0.72%	1.31%	0.93%
2035	0.23%	0.43%	0.30%	0.46%	0.87%	0.60%	0.70%	1.30%	0.91%
2036	0.70%	0.93%	0.78%	0.93%	1.36%	1.08%	1.15%	1.79%	1.38%

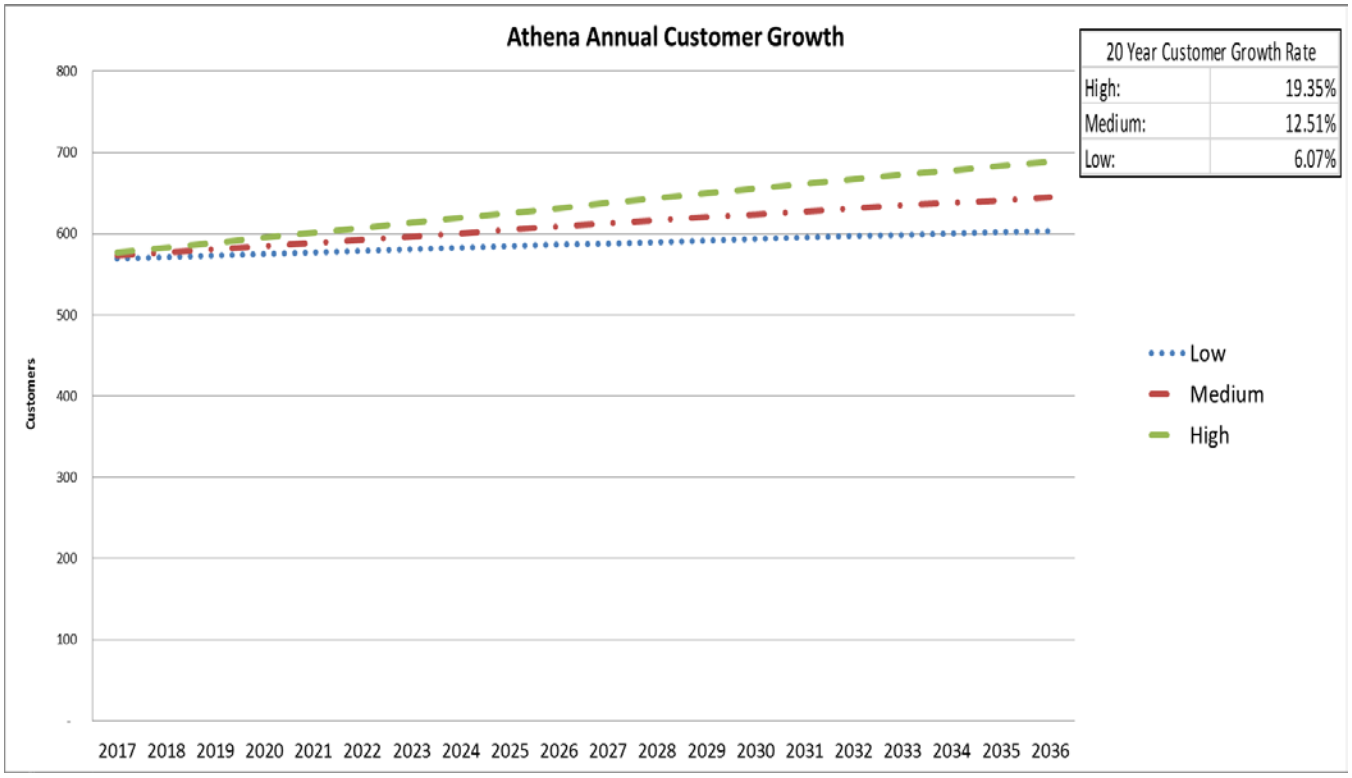
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	505	64	569	508	65	573	511	66	577
2018	506	64	571	511	66	577	516	67	583
2019	508	65	573	514	67	581	521	68	589
2020	510	65	575	518	67	585	526	70	595
2021	511	65	577	521	68	589	530	71	601
2022	513	66	579	524	69	593	535	72	607
2023	514	66	580	527	70	597	540	73	613
2024	516	67	582	530	70	601	545	74	619
2025	517	67	584	534	71	605	550	75	626
2026	519	67	586	537	72	609	555	77	632
2027	520	68	588	540	73	612	560	78	638
2028	522	68	590	543	73	616	565	79	644
2029	523	68	592	546	74	620	570	80	650
2030	525	69	594	549	75	624	574	81	656
2031	526	69	595	552	75	628	579	82	662
2032	528	69	597	555	76	631	584	84	667
2033	529	70	599	558	77	635	588	85	673
2034	530	70	600	560	78	638	592	86	678
2035	532	70	602	563	78	641	596	87	683
2036	533	71	603	566	79	644	600	88	689

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.64%	0.35%	0.62%	1.29%	0.70%	0.94%	1.93%	1.05%
2019	0.31%	0.62%	0.35%	0.62%	1.24%	0.69%	0.94%	1.86%	1.04%
2020	0.31%	0.59%	0.34%	0.62%	1.18%	0.69%	0.93%	1.78%	1.03%
2021	0.31%	0.58%	0.34%	0.62%	1.15%	0.68%	0.93%	1.73%	1.02%
2022	0.31%	0.57%	0.34%	0.62%	1.14%	0.68%	0.92%	1.71%	1.02%
2023	0.31%	0.54%	0.33%	0.61%	1.08%	0.67%	0.92%	1.63%	1.00%
2024	0.30%	0.54%	0.33%	0.61%	1.08%	0.66%	0.91%	1.63%	1.00%
2025	0.30%	0.53%	0.33%	0.60%	1.07%	0.66%	0.91%	1.60%	0.99%
2026	0.30%	0.52%	0.32%	0.59%	1.04%	0.65%	0.89%	1.56%	0.97%
2027	0.29%	0.52%	0.32%	0.59%	1.03%	0.64%	0.88%	1.55%	0.96%
2028	0.29%	0.49%	0.31%	0.58%	0.99%	0.63%	0.87%	1.48%	0.94%
2029	0.29%	0.50%	0.31%	0.57%	0.99%	0.62%	0.86%	1.49%	0.93%
2030	0.28%	0.48%	0.30%	0.56%	0.97%	0.61%	0.84%	1.45%	0.92%
2031	0.27%	0.48%	0.29%	0.54%	0.95%	0.59%	0.81%	1.43%	0.89%
2032	0.26%	0.46%	0.28%	0.52%	0.93%	0.57%	0.78%	1.39%	0.86%
2033	0.25%	0.46%	0.28%	0.50%	0.92%	0.55%	0.75%	1.38%	0.83%
2034	0.24%	0.44%	0.26%	0.48%	0.88%	0.53%	0.72%	1.31%	0.80%
2035	0.23%	0.43%	0.26%	0.46%	0.87%	0.51%	0.70%	1.30%	0.77%
2036	0.22%	0.43%	0.25%	0.45%	0.85%	0.50%	0.67%	1.28%	0.75%





20 Year Customer Growth Rate	
High:	19.35%
Medium:	12.51%
Low:	6.07%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

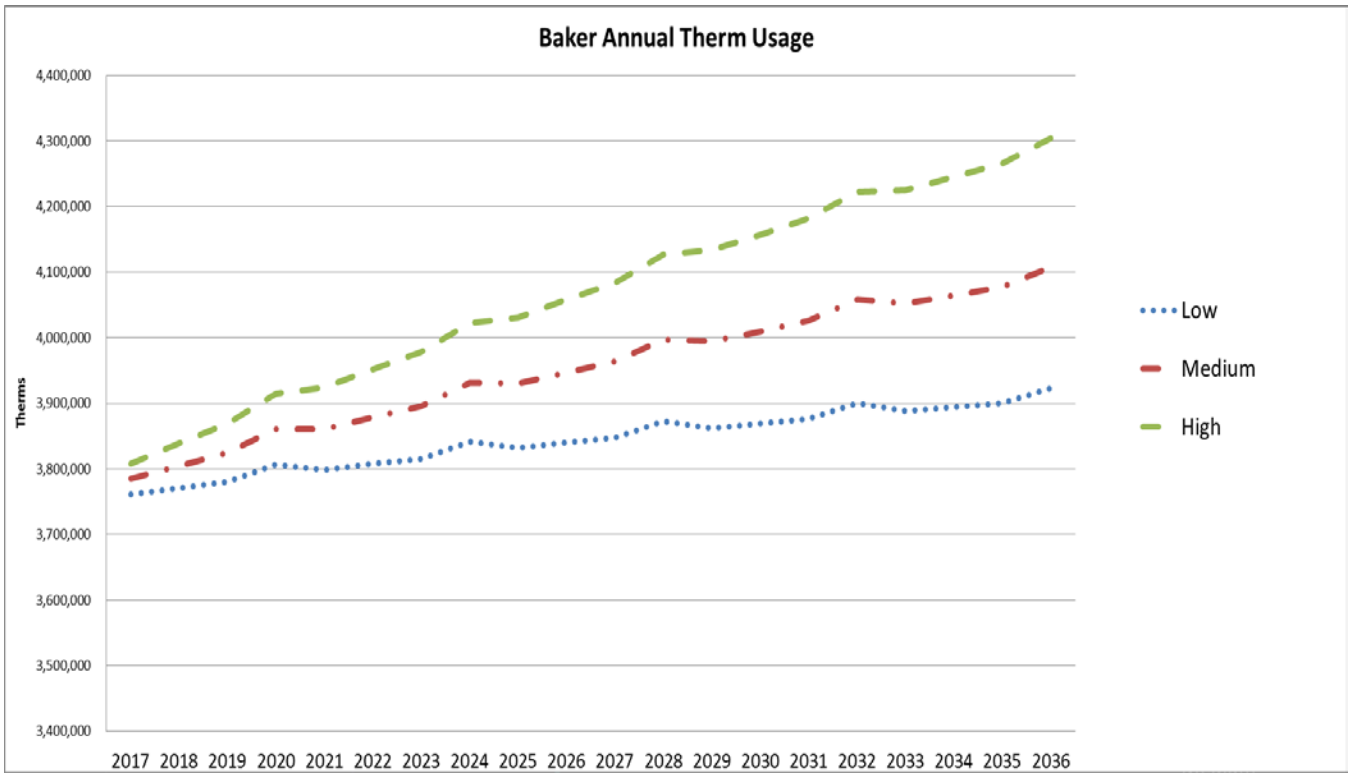
Baker

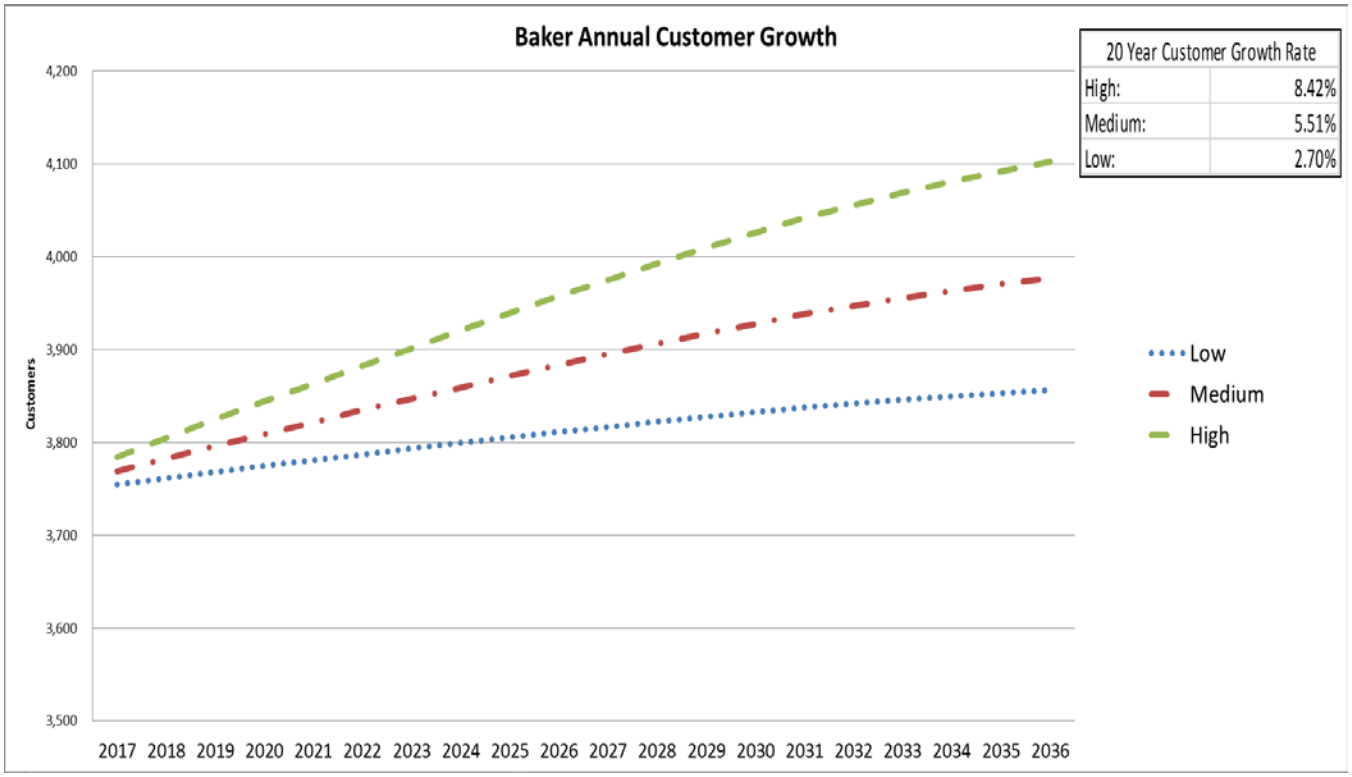
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	3,169,205	591,693	3,760,898	3,188,437	596,041	3,784,479	3,207,755	600,410	3,808,165	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,177,405	593,476	3,770,882	3,204,977	599,641	3,804,617	3,232,771	605,859	3,838,630	0.26%	0.30%	0.27%	0.52%	0.60%	0.53%	0.78%	0.91%	0.80%
2019	3,185,557	595,197	3,780,755	3,221,476	603,128	3,824,604	3,257,814	611,159	3,868,972	0.26%	0.29%	0.26%	0.51%	0.58%	0.53%	0.77%	0.87%	0.79%
2020	3,210,482	596,644	3,807,126	3,254,275	606,070	3,860,345	3,298,715	615,647	3,914,362	0.78%	0.24%	0.70%	1.02%	0.49%	0.93%	1.26%	0.73%	1.17%
2021	3,200,373	598,016	3,798,389	3,251,587	608,991	3,860,578	3,303,719	620,177	3,923,896	-0.31%	0.23%	-0.23%	-0.08%	0.48%	0.01%	0.15%	0.74%	0.24%
2022	3,207,945	599,422	3,807,367	3,267,042	611,989	3,879,032	3,327,386	624,843	3,952,229	0.24%	0.24%	0.24%	0.48%	0.49%	0.48%	0.72%	0.75%	0.72%
2023	3,214,780	600,571	3,815,350	3,281,021	614,587	3,895,608	3,348,841	628,965	3,977,806	0.21%	0.19%	0.21%	0.43%	0.42%	0.43%	0.64%	0.66%	0.65%
2024	3,239,507	601,860	3,841,368	3,313,581	617,364	3,930,945	3,389,633	633,316	4,022,949	0.77%	0.21%	0.68%	0.99%	0.45%	0.91%	1.22%	0.69%	1.13%
2025	3,228,824	602,967	3,831,791	3,309,870	620,013	3,929,883	3,393,311	637,606	4,030,918	-0.33%	0.18%	-0.25%	-0.11%	0.43%	-0.03%	0.11%	0.68%	0.20%
2026	3,235,916	604,020	3,839,936	3,324,491	622,680	3,947,171	3,415,947	641,998	4,057,945	0.22%	0.17%	0.21%	0.44%	0.43%	0.44%	0.67%	0.69%	0.67%
2027	3,242,471	605,046	3,847,517	3,338,043	625,178	3,963,220	3,436,981	646,078	4,083,059	0.20%	0.17%	0.20%	0.41%	0.40%	0.41%	0.62%	0.64%	0.62%
2028	3,266,833	605,807	3,872,640	3,369,970	627,493	3,997,464	3,477,018	650,070	4,127,088	0.75%	0.13%	0.65%	0.96%	0.37%	0.86%	1.16%	0.62%	1.08%
2029	3,255,566	606,764	3,862,329	3,365,203	629,982	3,995,184	3,479,301	654,223	4,133,524	-0.34%	0.16%	-0.27%	-0.14%	0.40%	-0.06%	0.07%	0.64%	0.16%
2030	3,261,528	607,506	3,869,034	3,377,613	632,147	4,009,760	3,498,710	657,941	4,156,650	0.18%	0.12%	0.17%	0.37%	0.34%	0.36%	0.56%	0.57%	0.56%
2031	3,267,972	608,294	3,876,266	3,391,076	634,540	4,025,616	3,519,848	662,094	4,181,942	0.20%	0.13%	0.19%	0.40%	0.38%	0.40%	0.60%	0.63%	0.61%
2032	3,291,444	608,983	3,900,426	3,421,303	636,606	4,057,909	3,557,465	665,679	4,223,144	0.72%	0.11%	0.62%	0.89%	0.33%	0.80%	1.07%	0.54%	0.99%
2033	3,278,749	609,542	3,888,291	3,413,677	638,524	4,052,202	3,555,479	669,104	4,224,582	-0.39%	0.09%	-0.31%	-0.22%	0.30%	-0.14%	-0.06%	0.51%	0.03%
2034	3,283,895	610,096	3,893,990	3,424,516	640,438	4,064,954	3,572,646	672,531	4,245,177	0.16%	0.09%	0.15%	0.32%	0.30%	0.31%	0.48%	0.51%	0.49%
2035	3,288,912	610,737	3,899,649	3,435,135	642,419	4,077,554	3,589,538	676,017	4,265,555	0.15%	0.11%	0.15%	0.31%	0.31%	0.31%	0.47%	0.52%	0.48%
2036	3,311,542	611,197	3,922,740	3,463,714	644,141	4,107,855	3,624,755	679,160	4,303,915	0.69%	0.08%	0.59%	0.83%	0.27%	0.74%	0.98%	0.46%	0.90%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	1,621	41,355	42,976	1,633	41,605	43,238	1,645	41,856	43,500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,626	41,462	43,088	1,643	41,819	43,462	1,660	42,180	43,840	0.30%	0.26%	0.26%	0.60%	0.52%	0.52%	0.91%	0.78%	0.78%
2019	1,631	41,567	43,198	1,652	42,033	43,685	1,674	42,504	44,178	0.29%	0.25%	0.26%	0.58%	0.51%	0.51%	0.87%	0.77%	0.77%
2020	1,635	41,663	43,297	1,660	42,226	43,887	1,687	42,798	44,485	0.24%	0.23%	0.23%	0.49%	0.46%	0.46%	0.73%	0.69%	0.69%
2021	1,638	41,757	43,396	1,668	42,420	44,088	1,699	43,094	44,793	0.23%	0.23%	0.23%	0.48%	0.46%	0.46%	0.74%	0.69%	0.69%
2022	1,642	41,854	43,497	1,677	42,618	44,295	1,712	43,399	45,111	0.24%	0.23%	0.23%	0.49%	0.47%	0.47%	0.75%	0.71%	0.71%
2023	1,645	41,941	43,587	1,684	42,798	44,482	1,723	43,675	45,398	0.19%	0.21%	0.21%	0.42%	0.42%	0.42%	0.66%	0.64%	0.64%
2024	1,649	42,032	43,680	1,691	42,984	44,675	1,735	43,961	45,696	0.21%	0.22%	0.22%	0.45%	0.43%	0.44%	0.69%	0.66%	0.66%
2025	1,652	42,120	43,772	1,699	43,168	44,866	1,747	44,246	45,993	0.18%	0.21%	0.21%	0.43%	0.43%	0.43%	0.68%	0.65%	0.65%
2026	1,655	42,209	43,864	1,706	43,355	45,061	1,759	44,537	46,296	0.17%	0.21%	0.21%	0.43%	0.43%	0.43%	0.69%	0.66%	0.66%
2027	1,658	42,292	43,950	1,713	43,528	45,241	1,770	44,807	46,577	0.17%	0.20%	0.20%	0.40%	0.40%	0.40%	0.64%	0.61%	0.61%
2028	1,660	42,373	44,033	1,719	43,700	45,419	1,781	45,077	46,858	0.13%	0.19%	0.19%	0.37%	0.40%	0.39%	0.62%	0.60%	0.60%
2029	1,662	42,456	44,118	1,726	43,874	45,600	1,792	45,350	47,142	0.16%	0.19%	0.19%	0.40%	0.40%	0.40%	0.64%	0.61%	0.61%
2030	1,664	42,530	44,194	1,732	44,032	45,764	1,803	45,599	47,401	0.12%	0.17%	0.17%	0.34%	0.36%	0.36%	0.57%	0.55%	0.55%
2031	1,667	42,610	44,276	1,738	44,203	45,942	1,814	45,870	47,683	0.13%	0.19%	0.19%	0.38%	0.39%	0.39%	0.63%	0.59%	0.60%
2032	1,668	42,678	44,347	1,744	44,350	46,094	1,824	46,102	47,926	0.11%	0.16%	0.16%	0.33%	0.33%	0.33%	0.54%	0.51%	0.51%
2033	1,670	42,743	44,413	1,749	44,490	46,239	1,833	46,326	48,159	0.09%	0.15%	0.15%	0.30%	0.32%	0.32%	0.51%	0.48%	0.49%
2034	1,671	42,806	44,478	1,755	44,627	46,382	1,843	46,545	48,388	0.09%	0.15%	0.15%	0.30%	0.31%	0.31%	0.51%	0.47%	0.48%
2035	1,673	42,868	44,541	1,760	44,762	46,522	1,852	46,762	48,614	0.11%	0.14%	0.14%	0.31%	0.30%	0.30%	0.52%	0.46%	0.47%
2036	1,675	42,924	44,598	1,765	44,884	46,649	1,861	46,958	48,819	0.08%	0.13%	0.13%	0.27%	0.27%	0.27%	0.46%	0.42%	0.42%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,129,680	1,631,218	3,760,898	2,135,558	1,648,921	3,784,479	2,141,443	1,666,722	3,808,165	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,132,642	1,638,240	3,770,882	2,141,497	1,663,120	3,804,617	2,150,377	1,688,253	3,838,630	0.14%	0.43%	0.27%	0.28%	0.86%	0.53%	0.42%	1.29%	0.80%
2019	2,135,533	1,645,221	3,780,755	2,147,304	1,677,299	3,824,604	2,159,124	1,709,848	3,868,972	0.14%	0.43%	0.26%	0.27%	0.85%	0.53%	0.41%	1.28%	0.79%
2020	2,148,777	1,658,349	3,807,126	2,163,605	1,696,740	3,860,345	2,178,515	1,735,847	3,914,362	0.62%	0.80%	0.70%	0.76%	1.16%	0.93%	0.90%	1.52%	1.17%
2021	2,141,305	1,657,084	3,798,389	2,158,919	1,701,658	3,860,578	2,176,654	1,747,241	3,923,896	-0.35%	-0.08%	-0.23%	-0.22%	0.29%	0.01%	-0.09%	0.66%	0.24%
2022	2,144,185	1,663,182	3,807,367	2,164,727	1,714,305	3,879,032	2,185,437	1,766,792	3,952,229	0.13%	0.37%	0.24%	0.27%	0.74%	0.48%	0.40%	1.12%	0.72%
2023	2,146,996	1,668,354	3,815,350	2,170,402	1,725,206	3,895,608	2,194,032	1,783,775	3,977,806	0.13%	0.31%	0.21%	0.26%	0.64%	0.43%	0.39%	0.96%	0.65%
2024	2,160,148	1,681,220	3,841,368	2,186,549	1,744,396	3,930,945	2,213,237	1,809,712	4,022,949	0.61%	0.77%	0.68%	0.74%	1.11%	0.91%	0.88%	1.45%	1.13%
2025	2,152,541	1,679,250	3,831,791	2,181,621	1,748,262	3,929,883	2,211,054	1,819,864	4,030,918	-0.35%	-0.12%	-0.25%	-0.23%	0.22%	-0.03%	-0.10%	0.56%	0.20%
2026	2,155,211	1,684,725	3,839,936	2,187,033	1,760,139	3,947,171	2,219,281	1,838,664	4,057,945	0.12%	0.33%	0.21%	0.25%	0.68%	0.44%	0.37%	1.03%	0.67%
2027	2,157,747	1,689,770	3,847,517	2,192,180	1,771,040	3,963,220	2,227,116	1,855,943	4,083,059	0.12%	0.30%	0.20%	0.24%	0.62%	0.41%	0.35%	0.94%	0.62%
2028	2,170,676	1,701,964	3,872,640	2,207,901	1,789,562	3,997,464	2,245,715	1,881,373	4,127,088	0.60%	0.72%	0.65%	0.72%	1.05%	0.86%	0.84%	1.37%	1.08%
2029	2,162,681	1,699,648	3,862,329	2,202,211	1,792,973	3,995,184	2,242,411	1,891,113	4,133,524	-0.37%	-0.14%	-0.27%	-0.26%	0.19%	-0.06%	-0.15%	0.52%	0.16%
2030	2,164,950	1,704,084	3,869,034	2,206,831	1,802,929	4,009,760	2,249,467	1,907,183	4,156,650	0.10%	0.26%	0.17%	0.21%	0.56%	0.36%	0.31%	0.85%	0.56%
2031	2,167,086	1,709,180	3,876,266	2,211,186	1,814,430	4,025,616	2,256,127	1,925,816	4,181,942	0.10%	0.30%	0.19%	0.20%	0.64%	0.40%	0.30%	0.98%	0.61%
2032	2,179,334	1,721,092	3,900,426	2,225,540	1,832,368	4,057,909	2,272,666	1,950,477	4,223,144	0.57%	0.70%	0.62%	0.65%	0.99%	0.80%	0.73%	1.28%	0.99%
2033	2,170,577	1,717,714	3,888,291	2,218,314	1,833,888	4,052,202	2,267,039	1,957,543	4,224,582	-0.40%	-0.20%	-0.31%	-0.32%	0.08%	-0.14%	-0.25%	0.36%	0.03%
2034	2,172,062	1,721,928	3,893,990	2,221,349	1,843,604	4,064,954	2,271,693	1,973,484	4,245,177	0.07%	0.25%	0.15%	0.14%	0.53%	0.31%	0.21%	0.81%	0.49%
2035	2,173,288	1,726,361	3,899,649	2,223,857	1,853,697	4,077,554	2,275,540	1,990,015	4,265,555	0.06%	0.26%	0.15%	0.11%	0.55%	0.31%	0.17%	0.84%	0.48%
2036	2,184,848	1,737,892	3,922,740	2,236,813	1,871,042	4,107,855	2,289,950	2,013,965	4,303,915	0.53%	0.67%	0.59%	0.58%	0.94%	0.74%	0.63%	1.20%	0.90%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,253	502	3,755	3,262	508	3,769	3,271	513	3,784	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,257	504	3,762	3,271	512	3,783	3,284	520	3,804	0.14%	0.44%	0.18%	0.28%	0.88%	0.36%	0.42%	1.32%	0.54%
2019	3,262	506	3,768	3,280	517	3,796	3,298	527	3,825	0.14%	0.44%	0.18%	0.27%	0.88%	0.35%	0.41%	1.31%	0.53%
2020	3,266	508	3,775	3,289	520	3,809	3,312	533	3,844	0.14%	0.37%	0.17%	0.28%	0.75%	0.34%	0.41%	1.12%	0.51%
2021	3,271	510	3,781	3,298	524	3,822	3,325	539	3,863	0.13%	0.38%	0.17%	0.26%	0.76%	0.33%	0.40%	1.14%	0.50%
2022	3,275	512	3,787	3,306	528	3,835	3,338	545	3,883	0.13%	0.39%	0.17%	0.27%	0.77%	0.34%	0.40%	1.16%	0.51%
2023	3,279	514	3,793	3,315	532	3,847	3,351	550	3,902	0.13%	0.33%	0.16%	0.26%	0.67%	0.32%	0.39%	1.00%	0.48%
2024	3,284	516	3,799	3,324	536	3,859	3,364	556	3,921	0.13%	0.35%	0.16%	0.26%	0.70%	0.32%	0.39%	1.05%	0.48%
2025	3,288	518	3,805	3,332	539	3,872	3,377	562	3,939	0.13%	0.35%	0.16%	0.25%	0.69%	0.32%	0.38%	1.04%	0.48%
2026	3,292	519	3,811	3,340	543	3,884	3,390	568	3,958	0.12%	0.36%	0.16%	0.25%	0.72%	0.31%	0.37%	1.08%	0.47%
2027	3,296	521	3,817	3,348	547	3,895	3,402	574	3,975	0.12%	0.32%	0.15%	0.24%	0.65%	0.29%	0.35%	0.98%	0.44%
2028	3,300	523	3,822	3,356	550	3,906	3,414	579	3,993	0.12%	0.32%	0.14%	0.23%	0.64%	0.29%	0.35%	0.97%	0.44%
2029	3,303	524	3,828	3,364	554	3,918	3,425	585	4,010	0.11%	0.33%	0.14%	0.22%	0.66%	0.28%	0.33%	1.00%	0.43%
2030	3,307	526	3,833	3,371	557	3,928	3,436	590	4,026	0.10%	0.29%	0.13%	0.21%	0.59%	0.26%	0.31%	0.89%	0.40%
2031	3,310	528	3,838	3,377	561	3,938	3,446	596	4,042	0.10%	0.34%	0.13%	0.20%	0.68%	0.27%	0.30%	1.02%	0.40%
2032	3,313	529	3,842	3,383	564	3,947	3,455	601	4,056	0.08%	0.29%	0.11%	0.17%	0.58%	0.23%	0.25%	0.87%	0.34%
2033	3,315	531	3,846	3,388	567	3,956	3,463	606	4,069	0.08%	0.28%	0.10%	0.15%	0.56%	0.21%	0.23%	0.84%	0.32%
2034	3,318	532	3,850	3,393	571	3,963	3,470	612	4,081	0.07%	0.28%	0.10%	0.14%	0.56%	0.20%	0.21%	0.85%	0.30%
2035	3,319	534	3,853	3,397	574	3,971	3,476	617	4,093	0.06%	0.29%	0.09%	0.11%	0.58%	0.18%	0.17%	0.87%	0.27%
2036	3,321	535	3,856	3,400	577	3,977	3,481	622	4,103	0.05%	0.26%	0.08%	0.10%	0.53%	0.16%	0.15%	0.79%	0.25%





20 Year Customer Growth Rate	
High:	8.42%
Medium:	5.51%
Low:	2.70%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Bend Loop

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	25,610,088	8,117,871	33,727,959	26,206,596	8,310,046	34,516,642	26,810,091	8,504,517	35,314,608
2018	25,900,415	8,210,567	34,110,981	26,800,962	8,499,907	35,300,869	27,722,452	8,796,094	36,518,546
2019	26,190,721	8,302,968	34,493,689	27,401,997	8,691,330	36,093,328	28,655,359	9,093,399	37,748,758
2020	26,635,056	8,395,450	35,030,506	28,173,605	8,885,084	37,058,689	29,783,301	9,397,685	39,180,986
2021	26,774,150	8,488,153	35,262,303	28,630,164	9,081,470	37,711,634	30,593,390	9,709,515	40,302,905
2022	27,067,772	8,581,153	35,648,925	29,258,492	9,280,668	38,539,159	31,601,092	10,029,282	41,630,374
2023	27,361,823	8,674,107	36,035,930	29,894,593	9,481,954	39,376,547	32,632,271	10,355,914	42,988,185
2024	27,816,985	8,767,297	36,584,282	30,716,751	9,685,940	40,402,691	33,884,776	10,690,483	44,575,258
2025	27,952,552	8,860,483	36,813,035	31,193,195	9,892,111	41,085,305	34,771,273	11,032,240	45,803,513
2026	28,248,633	8,953,723	37,202,357	31,854,476	10,100,595	41,955,071	35,877,719	11,381,471	47,259,190
2027	28,545,520	9,047,156	37,592,676	32,524,537	10,311,711	42,836,248	37,010,546	11,738,807	48,749,354
2028	29,009,840	9,140,686	38,150,526	33,395,066	10,525,255	43,920,321	38,390,261	12,103,993	50,494,254
2029	29,141,326	9,234,494	38,375,820	33,890,339	10,741,655	44,631,994	39,355,548	12,477,867	51,833,415
2030	29,440,424	9,328,461	38,768,886	34,586,593	10,960,652	45,547,244	40,569,272	12,860,082	53,429,354
2031	29,739,385	9,422,453	39,161,839	35,289,651	11,181,941	46,471,592	41,807,286	13,250,208	55,057,495
2032	30,211,616	9,516,272	39,727,888	36,206,966	11,405,055	47,612,021	43,317,567	13,647,494	56,965,060
2033	30,335,873	9,610,041	39,945,914	36,713,672	11,630,282	48,343,954	44,352,591	14,052,521	58,405,112
2034	30,633,832	9,703,806	40,337,638	37,435,629	11,857,728	49,293,357	45,662,093	14,465,556	60,127,649
2035	30,931,839	9,797,670	40,729,509	38,164,788	12,087,646	50,252,434	46,997,522	14,887,140	61,884,662
2036	31,410,376	9,891,460	41,301,836	39,125,812	12,319,618	51,445,430	48,638,200	15,316,594	63,954,794

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.13%	1.14%	1.14%	2.27%	2.28%	2.27%	3.40%	3.43%	3.41%
2019	1.12%	1.13%	1.12%	2.24%	2.25%	2.24%	3.37%	3.38%	3.37%
2020	1.70%	1.11%	1.56%	2.82%	2.23%	2.67%	3.94%	3.35%	3.79%
2021	0.52%	1.10%	0.66%	1.62%	2.21%	1.76%	2.72%	3.32%	2.86%
2022	1.10%	1.10%	1.10%	2.19%	2.19%	2.19%	3.29%	3.29%	3.29%
2023	1.09%	1.08%	1.09%	2.17%	2.17%	2.17%	3.26%	3.26%	3.26%
2024	1.66%	1.07%	1.52%	2.75%	2.15%	2.61%	3.84%	3.23%	3.69%
2025	0.49%	1.06%	0.63%	1.55%	2.13%	1.69%	2.62%	3.20%	2.76%
2026	1.06%	1.05%	1.06%	2.12%	2.11%	2.12%	3.18%	3.17%	3.18%
2027	1.05%	1.04%	1.05%	2.10%	2.09%	2.10%	3.16%	3.14%	3.15%
2028	1.63%	1.03%	1.48%	2.68%	2.07%	2.53%	3.73%	3.11%	3.58%
2029	0.45%	1.03%	0.59%	1.48%	2.06%	1.62%	2.51%	3.09%	2.65%
2030	1.03%	1.02%	1.02%	2.05%	2.04%	2.05%	3.08%	3.06%	3.08%
2031	1.02%	1.01%	1.01%	2.03%	2.02%	2.03%	3.05%	3.03%	3.05%
2032	1.59%	1.00%	1.45%	2.60%	2.00%	2.45%	3.61%	3.00%	3.46%
2033	0.41%	0.99%	0.55%	1.40%	1.97%	1.54%	2.39%	2.97%	2.53%
2034	0.98%	0.98%	0.98%	1.97%	1.96%	1.96%	2.95%	2.94%	2.95%
2035	0.97%	0.97%	0.97%	1.95%	1.94%	1.95%	2.92%	2.91%	2.92%
2036	1.55%	0.96%	1.41%	2.52%	1.92%	2.37%	3.49%	2.88%	3.35%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	22,241	392,474	414,715	22,767	401,606	424,373	23,300	410,845	434,145
2018	22,495	396,919	419,414	23,287	410,706	433,993	24,099	424,813	448,911
2019	22,748	401,363	424,111	23,812	419,907	443,719	24,913	439,094	464,008
2020	23,001	405,821	428,822	24,343	429,238	453,581	25,747	453,738	479,485
2021	23,255	410,295	433,551	24,881	438,709	463,590	26,601	468,762	495,364
2022	23,510	414,791	438,301	25,426	448,328	473,754	27,477	484,188	511,665
2023	23,765	419,292	443,057	25,978	458,065	484,043	28,372	499,973	528,345
2024	24,020	423,811	447,831	26,537	467,945	494,481	29,289	516,158	545,447
2025	24,275	428,336	452,611	27,102	477,945	505,046	30,225	532,715	562,941
2026	24,531	432,869	457,399	27,673	488,068	515,741	31,182	549,652	580,834
2027	24,787	437,414	462,201	28,251	498,325	526,577	32,161	566,993	599,154
2028	25,043	441,967	467,010	28,836	508,708	537,545	33,162	584,727	617,888
2029	25,300	446,536	471,836	29,429	519,234	548,663	34,186	602,889	637,075
2030	25,557	451,115	476,672	30,029	529,892	559,922	35,233	621,468	656,701
2031	25,815	455,692	481,507	30,635	540,655	571,291	36,302	640,418	676,720
2032	26,072	460,260	486,332	31,247	551,505	582,752	37,390	659,713	697,104
2033	26,329	464,824	491,153	31,864	562,455	594,319	38,500	679,379	717,879
2034	26,586	469,386	495,971	32,487	573,507	605,994	39,632	699,424	739,055
2035	26,843	473,948	500,791	33,117	584,669	617,786	40,787	719,865	760,651
2036	27,100	478,506	505,606	33,752	595,929	629,681	41,963	740,683	782,647

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.14%	1.13%	1.13%	2.28%	2.27%	2.27%	3.43%	3.40%	3.40%
2019	1.13%	1.12%	1.12%	2.25%	2.24%	2.24%	3.38%	3.36%	3.36%
2020	1.11%	1.11%	1.11%	2.23%	2.22%	2.22%	3.35%	3.33%	3.34%
2021	1.10%	1.10%	1.10%	2.21%	2.21%	2.21%	3.32%	3.31%	3.31%
2022	1.10%	1.10%	1.10%	2.19%	2.19%	2.19%	3.29%	3.29%	3.29%
2023	1.08%	1.09%	1.09%	2.17%	2.17%	2.17%	3.26%	3.26%	3.26%
2024	1.07%	1.08%	1.08%	2.15%	2.16%	2.16%	3.23%	3.24%	3.24%
2025	1.06%	1.07%	1.07%	2.13%	2.14%	2.14%	3.20%	3.21%	3.21%
2026	1.05%	1.06%	1.06%	2.11%	2.12%	2.12%	3.17%	3.18%	3.18%
2027	1.04%	1.05%	1.05%	2.09%	2.10%	2.10%	3.14%	3.15%	3.15%
2028	1.03%	1.04%	1.04%	2.07%	2.08%	2.08%	3.11%	3.13%	3.13%
2029	1.03%	1.03%	1.03%	2.06%	2.07%	2.07%	3.09%	3.11%	3.11%
2030	1.02%	1.03%	1.03%	2.04%	2.05%	2.05%	3.06%	3.08%	3.08%
2031	1.01%	1.01%	1.01%	2.02%	2.03%	2.03%	3.03%	3.05%	3.05%
2032	1.00%	1.00%	1.00%	2.00%	2.01%	2.01%	3.00%	3.01%	3.01%
2033	0.99%	0.99%	0.99%	1.97%	1.99%	1.98%	2.97%	2.98%	2.98%
2034	0.98%	0.98%	0.98%	1.96%	1.96%	1.96%	2.94%	2.95%	2.95%
2035	0.97%	0.97%	0.97%	1.94%	1.95%	1.95%	2.91%	2.92%	2.92%
2036	0.96%	0.96%	0.96%	1.92%	1.93%	1.93%	2.88%	2.89%	2.89%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	21,536,266	12,191,693	33,727,959	21,994,964	12,521,678	34,516,642	22,458,495	12,856,112	35,314,608
2018	21,766,058	12,344,923	34,110,981	22,464,337	12,836,532	35,300,869	23,177,393	13,341,153	36,518,546
2019	21,997,854	12,495,835	34,493,689	22,942,802	13,150,525	36,093,328	23,917,871	13,830,887	37,748,758
2020	22,331,314	12,699,192	35,030,506	23,535,277	13,523,412	37,058,689	24,790,617	14,390,369	39,180,986
2021	22,466,809	12,795,495	35,262,303	23,926,159	13,785,476	37,711,634	25,463,662	14,839,243	40,302,905
2022	22,704,028	12,944,898	35,648,925	24,431,414	14,107,746	38,539,159	26,270,246	15,360,127	41,630,374
2023	22,942,849	13,093,081	36,035,930	24,945,397	14,431,150	39,376,547	27,099,249	15,888,937	42,988,185
2024	23,287,676	13,296,606	36,584,282	25,583,157	14,819,534	40,402,691	28,077,602	16,497,656	44,575,258
2025	23,425,546	13,387,489	36,813,035	26,000,517	15,084,788	41,085,305	28,827,485	16,976,028	45,803,513
2026	23,668,936	13,533,421	37,202,357	26,540,806	15,414,265	41,955,071	29,726,033	17,533,157	47,259,190
2027	23,913,470	13,679,205	37,592,676	27,089,216	15,747,032	42,836,248	30,647,373	18,101,981	48,749,354
2028	24,267,619	13,882,907	38,150,526	27,769,851	16,150,470	43,920,321	31,733,572	18,760,682	50,494,254
2029	24,405,729	13,970,091	38,375,820	28,210,160	16,421,834	44,631,994	32,559,283	19,274,132	51,833,415
2030	24,653,495	14,115,391	38,768,886	28,782,936	16,764,308	45,547,244	33,550,903	19,878,451	53,429,354
2031	24,900,768	14,261,071	39,161,839	29,360,318	17,111,273	46,471,592	34,560,444	20,497,050	55,057,495
2032	25,260,511	14,467,377	39,727,888	30,076,730	17,535,291	47,612,021	35,747,744	21,217,316	56,965,060
2033	25,393,894	14,552,020	39,945,914	30,528,903	17,815,051	48,343,954	36,633,846	21,771,266	58,405,112
2034	25,639,825	14,697,813	40,337,638	31,120,226	18,173,132	49,293,357	37,698,203	22,429,446	60,127,649
2035	25,885,267	14,844,242	40,729,509	31,716,034	18,536,400	50,252,434	38,780,822	23,103,840	61,884,662
2036	26,247,798	15,054,037	41,301,836	32,461,905	18,983,525	51,445,430	40,061,714	23,893,080	63,954,794

Annual Change

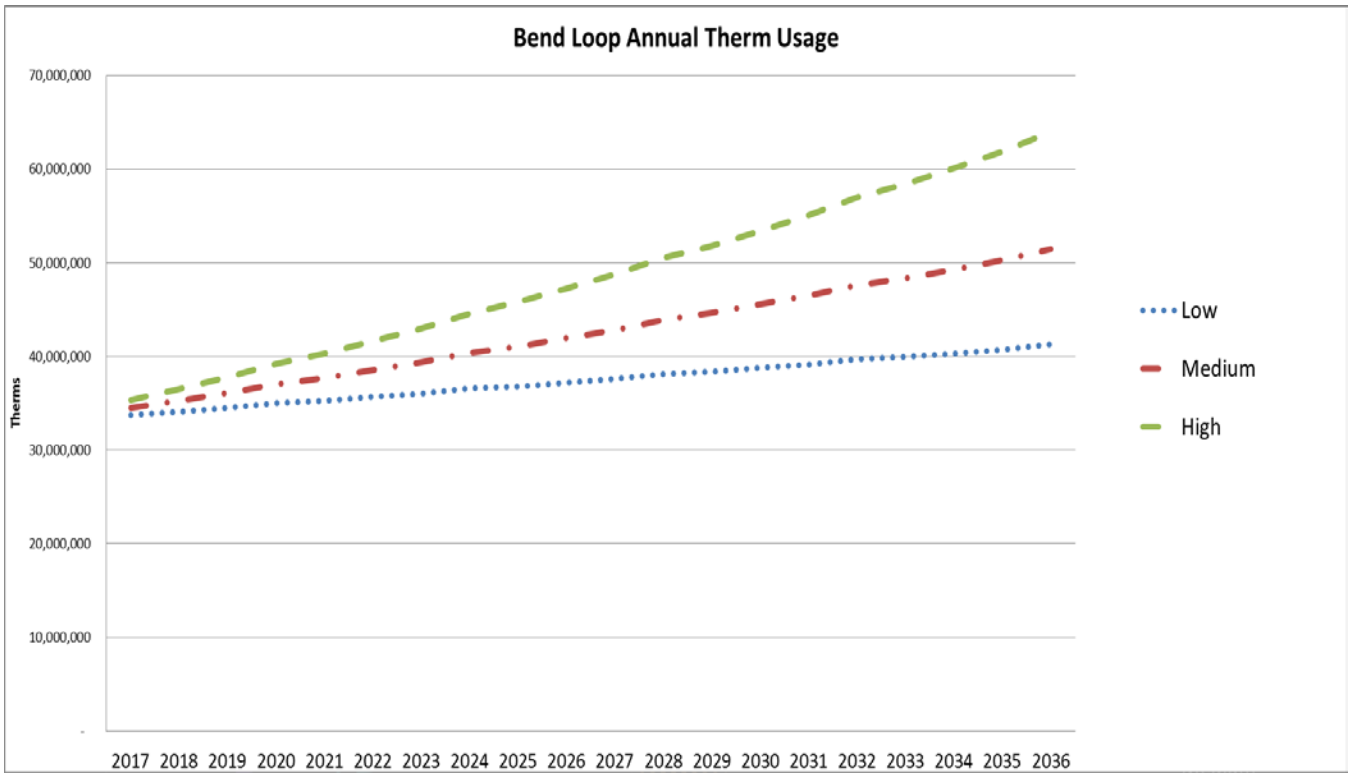
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.07%	1.26%	1.14%	2.13%	2.51%	2.27%	3.20%	3.77%	3.41%
2019	1.06%	1.22%	1.12%	2.13%	2.45%	2.24%	3.19%	3.67%	3.37%
2020	1.52%	1.63%	1.56%	2.58%	2.84%	2.67%	3.65%	4.05%	3.79%
2021	0.61%	0.76%	0.66%	1.66%	1.94%	1.76%	2.71%	3.12%	2.86%
2022	1.06%	1.17%	1.10%	2.11%	2.34%	2.19%	3.17%	3.51%	3.29%
2023	1.05%	1.14%	1.09%	2.10%	2.29%	2.17%	3.16%	3.44%	3.26%
2024	1.50%	1.55%	1.52%	2.56%	2.69%	2.61%	3.61%	3.83%	3.69%
2025	0.59%	0.68%	0.63%	1.63%	1.79%	1.69%	2.67%	2.90%	2.76%
2026	1.04%	1.09%	1.06%	2.08%	2.18%	2.12%	3.12%	3.28%	3.18%
2027	1.03%	1.08%	1.05%	2.07%	2.16%	2.10%	3.10%	3.24%	3.15%
2028	1.48%	1.49%	1.48%	2.51%	2.56%	2.53%	3.54%	3.64%	3.58%
2029	0.57%	0.63%	0.59%	1.59%	1.68%	1.62%	2.60%	2.74%	2.65%
2030	1.02%	1.04%	1.02%	2.03%	2.09%	2.05%	3.05%	3.14%	3.08%
2031	1.00%	1.03%	1.01%	2.01%	2.07%	2.03%	3.01%	3.11%	3.05%
2032	1.44%	1.45%	1.45%	2.44%	2.48%	2.45%	3.44%	3.51%	3.46%
2033	0.53%	0.59%	0.55%	1.50%	1.60%	1.54%	2.48%	2.61%	2.53%
2034	0.97%	1.00%	0.98%	1.94%	2.01%	1.96%	2.91%	3.02%	2.95%
2035	0.96%	1.00%	0.97%	1.91%	2.00%	1.95%	2.87%	3.01%	2.92%
2036	1.40%	1.41%	1.41%	2.35%	2.41%	2.37%	3.30%	3.42%	3.35%

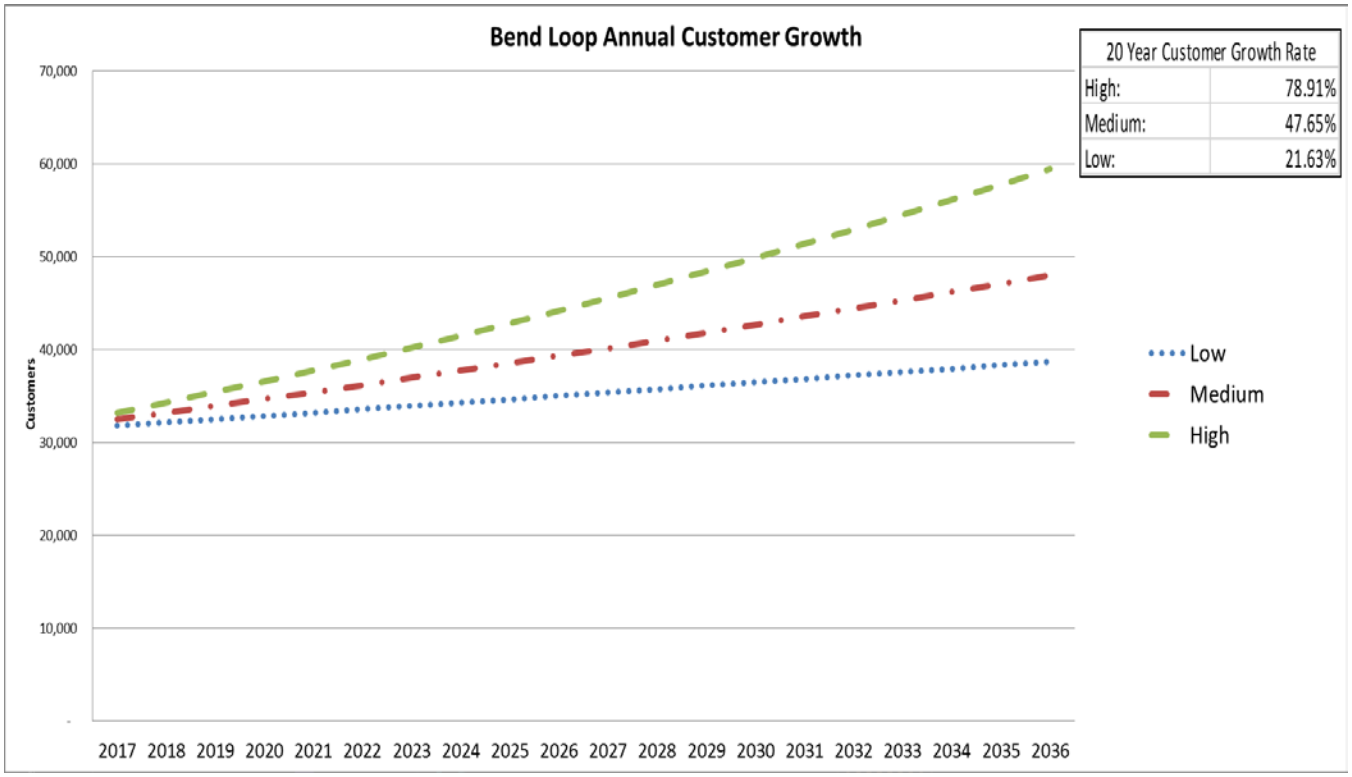
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	27,653	4,150	31,803	28,242	4,265	32,507	28,837	4,382	33,219
2018	27,948	4,204	32,152	28,845	4,375	33,219	29,760	4,551	34,311
2019	28,246	4,256	32,502	29,459	4,484	33,943	30,711	4,722	35,433
2020	28,545	4,309	32,854	30,084	4,595	34,679	31,689	4,896	36,585
2021	28,848	4,361	33,209	30,722	4,707	35,428	32,696	5,074	37,770
2022	29,152	4,413	33,566	31,370	4,819	36,190	33,731	5,257	38,988
2023	29,459	4,465	33,924	32,030	4,933	36,963	34,796	5,442	40,238
2024	29,768	4,517	34,285	32,702	5,047	37,749	35,891	5,632	41,522
2025	30,079	4,568	34,647	33,385	5,162	38,547	37,015	5,824	42,839
2026	30,391	4,620	35,011	34,079	5,278	39,356	38,169	6,020	44,188
2027	30,705	4,671	35,376	34,783	5,394	40,177	39,352	6,220	45,571
2028	31,021	4,722	35,742	35,497	5,512	41,009	40,564	6,423	46,987
2029	31,337	4,773	36,110	36,222	5,631	41,853	41,807	6,632	48,438
2030	31,655	4,824	36,479	36,958	5,751	42,709	43,080	6,844	49,924
2031	31,973	4,875	36,848	37,699	5,873	43,572	44,376	7,062	51,438
2032	32,290	4,926	37,215	38,446	5,996	44,442	45,695	7,283	52,979
2033	32,606	4,977	37,583	39,200	6,120	45,320	47,038	7,510	54,548
2034	32,922	5,028	37,950	39,959	6,246	46,205	48,405	7,741	56,146
2035	33,237	5,079	38,316	40,724	6,374	47,098	49,795	7,979	57,774
2036	33,552	5,130	38,682	41,495	6,503	47,998	51,210	8,221	59,430

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.07%	1.29%	1.10%	2.13%	2.57%	2.19%	3.20%	3.86%	3.29%
2019	1.06%	1.25%	1.09%	2.13%	2.50%	2.18%	3.19%	3.76%	3.27%
2020	1.06%	1.23%	1.08%	2.12%	2.46%	2.17%	3.19%	3.70%	3.25%
2021	1.06%	1.21%	1.08%	2.12%	2.43%	2.16%	3.18%	3.64%	3.24%
2022	1.06%	1.20%	1.07%	2.11%	2.40%	2.15%	3.17%	3.60%	3.23%
2023	1.05%	1.18%	1.07%	2.10%	2.35%	2.14%	3.16%	3.53%	3.21%
2024	1.05%	1.16%	1.06%	2.10%	2.32%	2.13%	3.15%	3.48%	3.19%
2025	1.04%	1.14%	1.06%	2.09%	2.28%	2.11%	3.13%	3.42%	3.17%
2026	1.04%	1.12%	1.05%	2.08%	2.24%	2.10%	3.12%	3.36%	3.15%
2027	1.03%	1.11%	1.04%	2.07%	2.21%	2.09%	3.10%	3.32%	3.13%
2028	1.03%	1.09%	1.04%	2.05%	2.18%	2.07%	3.08%	3.27%	3.11%
2029	1.02%	1.08%	1.03%	2.04%	2.16%	2.06%	3.06%	3.24%	3.09%
2030	1.02%	1.07%	1.02%	2.03%	2.14%	2.04%	3.05%	3.20%	3.07%
2031	1.00%	1.06%	1.01%	2.01%	2.12%	2.02%	3.01%	3.18%	3.03%
2032	0.99%	1.05%	1.00%	1.98%	2.09%	2.00%	2.97%	3.14%	3.00%
2033	0.98%	1.04%	0.99%	1.96%	2.07%	1.97%	2.94%	3.11%	2.96%
2034	0.97%	1.03%	0.98%	1.94%	2.05%	1.95%	2.91%	3.08%	2.93%
2035	0.96%	1.02%	0.97%	1.91%	2.04%	1.93%	2.87%	3.06%	2.90%
2036	0.95%	1.01%	0.96%	1.89%	2.02%	1.91%	2.84%	3.03%	2.87%





20 Year Customer Growth Rate	
High:	78.91%
Medium:	47.65%
Low:	21.63%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Chemult

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	27,466	19,776	47,241	27,663	19,923	47,586	27,860	20,071	47,932
2018	27,548	19,837	47,385	27,829	20,047	47,876	28,112	20,258	48,371
2019	27,624	19,893	47,518	27,983	20,161	48,144	28,345	20,431	48,776
2020	27,862	19,947	47,809	28,298	20,270	48,567	28,740	20,596	49,336
2021	27,766	19,998	47,764	28,271	20,372	48,643	28,783	20,753	49,537
2022	27,831	20,045	47,876	28,403	20,469	48,872	28,985	20,901	49,885
2023	27,894	20,091	47,985	28,532	20,563	49,095	29,182	21,045	50,227
2024	28,124	20,138	48,263	28,834	20,660	49,493	29,559	21,193	50,752
2025	28,018	20,182	48,200	28,786	20,749	49,535	29,574	21,331	50,904
2026	28,074	20,222	48,296	28,901	20,832	49,732	29,750	21,458	51,208
2027	28,128	20,261	48,390	29,013	20,913	49,926	29,922	21,584	51,506
2028	28,348	20,300	48,648	29,294	20,992	50,286	30,270	21,706	51,976
2029	28,232	20,336	48,568	29,226	21,068	50,293	30,253	21,823	52,076
2030	28,282	20,373	48,654	29,330	21,143	50,473	30,414	21,940	52,355
2031	28,326	20,405	48,731	29,422	21,209	50,631	30,557	22,044	52,601
2032	28,540	20,437	48,977	29,691	21,277	50,968	30,886	22,150	53,036
2033	28,413	20,467	48,880	29,602	21,340	50,941	30,838	22,247	53,085
2034	28,450	20,494	48,945	29,680	21,396	51,077	30,960	22,336	53,296
2035	28,487	20,521	49,008	29,757	21,452	51,209	31,080	22,423	53,503
2036	28,688	20,544	49,232	30,000	21,500	51,500	31,370	22,498	53,868

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.30%	0.31%	0.31%	0.60%	0.62%	0.61%	0.90%	0.93%	0.92%
2019	0.28%	0.28%	0.28%	0.55%	0.57%	0.56%	0.83%	0.85%	0.84%
2020	0.86%	0.27%	0.61%	1.12%	0.54%	0.88%	1.39%	0.81%	1.15%
2021	-0.34%	0.25%	-0.09%	-0.09%	0.51%	0.16%	0.15%	0.76%	0.41%
2022	0.23%	0.24%	0.23%	0.47%	0.47%	0.47%	0.70%	0.71%	0.70%
2023	0.23%	0.23%	0.23%	0.45%	0.46%	0.46%	0.68%	0.69%	0.69%
2024	0.83%	0.23%	0.58%	1.06%	0.47%	0.81%	1.29%	0.70%	1.04%
2025	-0.38%	0.22%	-0.13%	-0.16%	0.43%	0.09%	0.05%	0.65%	0.30%
2026	0.20%	0.20%	0.20%	0.40%	0.40%	0.40%	0.59%	0.60%	0.60%
2027	0.19%	0.19%	0.19%	0.39%	0.39%	0.39%	0.58%	0.58%	0.58%
2028	0.78%	0.19%	0.53%	0.97%	0.38%	0.72%	1.16%	0.57%	0.91%
2029	-0.41%	0.18%	-0.16%	-0.23%	0.36%	0.01%	-0.06%	0.54%	0.19%
2030	0.18%	0.18%	0.18%	0.36%	0.36%	0.36%	0.53%	0.54%	0.53%
2031	0.16%	0.16%	0.16%	0.31%	0.31%	0.31%	0.47%	0.47%	0.47%
2032	0.75%	0.16%	0.51%	0.91%	0.32%	0.67%	1.07%	0.48%	0.83%
2033	-0.44%	0.15%	-0.20%	-0.30%	0.29%	-0.05%	-0.15%	0.44%	0.09%
2034	0.13%	0.13%	0.13%	0.26%	0.27%	0.27%	0.40%	0.40%	0.40%
2035	0.13%	0.13%	0.13%	0.26%	0.26%	0.26%	0.39%	0.39%	0.39%
2036	0.71%	0.11%	0.46%	0.82%	0.22%	0.57%	0.93%	0.34%	0.68%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	54	524	578	55	527	582	55	531	586
2018	54	525	580	55	531	586	56	536	592
2019	55	527	581	55	534	589	56	540	596
2020	55	528	583	56	536	592	56	545	601
2021	55	529	584	56	539	595	57	549	606
2022	55	531	586	56	542	598	57	553	610
2023	55	532	587	56	544	600	58	556	614
2024	55	533	588	57	547	603	58	560	618
2025	55	534	590	57	549	606	58	564	622
2026	55	535	591	57	551	608	59	567	626
2027	56	536	592	57	553	610	59	571	630
2028	56	537	593	58	555	613	59	574	633
2029	56	538	594	58	557	615	60	577	637
2030	56	539	595	58	559	617	60	580	640
2031	56	540	596	58	561	619	60	583	643
2032	56	541	597	58	563	621	61	585	646
2033	56	542	598	58	564	623	61	588	649
2034	56	542	599	59	566	625	61	590	652
2035	56	543	599	59	567	626	61	593	654
2036	56	544	600	59	569	628	62	595	656

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.30%	0.30%	0.62%	0.60%	0.60%	0.93%	0.90%	0.91%
2019	0.28%	0.28%	0.28%	0.57%	0.55%	0.55%	0.85%	0.83%	0.83%
2020	0.27%	0.26%	0.26%	0.54%	0.53%	0.53%	0.81%	0.79%	0.79%
2021	0.25%	0.25%	0.25%	0.51%	0.50%	0.50%	0.76%	0.75%	0.75%
2022	0.24%	0.23%	0.23%	0.47%	0.47%	0.47%	0.71%	0.70%	0.70%
2023	0.23%	0.23%	0.23%	0.46%	0.45%	0.45%	0.69%	0.68%	0.68%
2024	0.23%	0.23%	0.23%	0.47%	0.46%	0.46%	0.70%	0.69%	0.69%
2025	0.22%	0.21%	0.21%	0.43%	0.43%	0.43%	0.65%	0.64%	0.64%
2026	0.20%	0.20%	0.20%	0.40%	0.40%	0.40%	0.60%	0.59%	0.60%
2027	0.19%	0.19%	0.19%	0.39%	0.39%	0.39%	0.58%	0.58%	0.58%
2028	0.19%	0.19%	0.19%	0.38%	0.38%	0.38%	0.57%	0.56%	0.56%
2029	0.18%	0.18%	0.18%	0.36%	0.36%	0.36%	0.54%	0.54%	0.54%
2030	0.18%	0.18%	0.18%	0.36%	0.36%	0.36%	0.54%	0.53%	0.53%
2031	0.16%	0.16%	0.16%	0.31%	0.31%	0.31%	0.47%	0.47%	0.47%
2032	0.16%	0.16%	0.16%	0.32%	0.32%	0.32%	0.48%	0.48%	0.48%
2033	0.15%	0.15%	0.15%	0.29%	0.29%	0.29%	0.44%	0.44%	0.44%
2034	0.13%	0.13%	0.13%	0.27%	0.26%	0.26%	0.40%	0.40%	0.40%
2035	0.13%	0.13%	0.13%	0.26%	0.26%	0.26%	0.39%	0.39%	0.39%
2036	0.11%	0.11%	0.11%	0.22%	0.22%	0.22%	0.34%	0.34%	0.34%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	9,981	37,261	47,241	10,020	37,566	47,586	10,060	37,872	47,932
2018	10,000	37,385	47,385	10,060	37,817	47,876	10,120	38,251	48,371
2019	10,020	37,498	47,518	10,099	38,044	48,144	10,179	38,597	48,776
2020	10,074	37,734	47,809	10,174	38,393	48,567	10,274	39,061	49,336
2021	10,059	37,705	47,764	10,179	38,465	48,643	10,299	39,237	49,537
2022	10,079	37,797	47,876	10,218	38,653	48,872	10,359	39,526	49,885
2023	10,098	37,887	47,985	10,257	38,838	49,095	10,419	39,809	50,227
2024	10,152	38,111	48,263	10,332	39,162	49,493	10,514	40,238	50,752
2025	10,136	38,064	48,200	10,335	39,200	49,535	10,537	40,367	50,904
2026	10,155	38,141	48,296	10,373	39,359	49,732	10,595	40,613	51,208
2027	10,173	38,217	48,390	10,410	39,515	49,926	10,653	40,854	51,506
2028	10,226	38,422	48,648	10,483	39,803	50,286	10,746	41,230	51,976
2029	10,209	38,359	48,568	10,483	39,811	50,293	10,764	41,312	52,076
2030	10,226	38,429	48,654	10,518	39,954	50,473	10,818	41,536	52,355
2031	10,242	38,489	48,731	10,551	40,080	50,631	10,869	41,732	52,601
2032	10,292	38,685	48,977	10,618	40,350	50,968	10,954	42,081	53,036
2033	10,271	38,609	48,880	10,611	40,330	50,941	10,962	42,123	53,085
2034	10,284	38,661	48,945	10,638	40,438	51,077	11,004	42,293	53,296
2035	10,296	38,712	49,008	10,663	40,545	51,209	11,043	42,460	53,503
2036	10,343	38,889	49,232	10,724	40,777	51,500	11,117	42,751	53,868

Annual Change

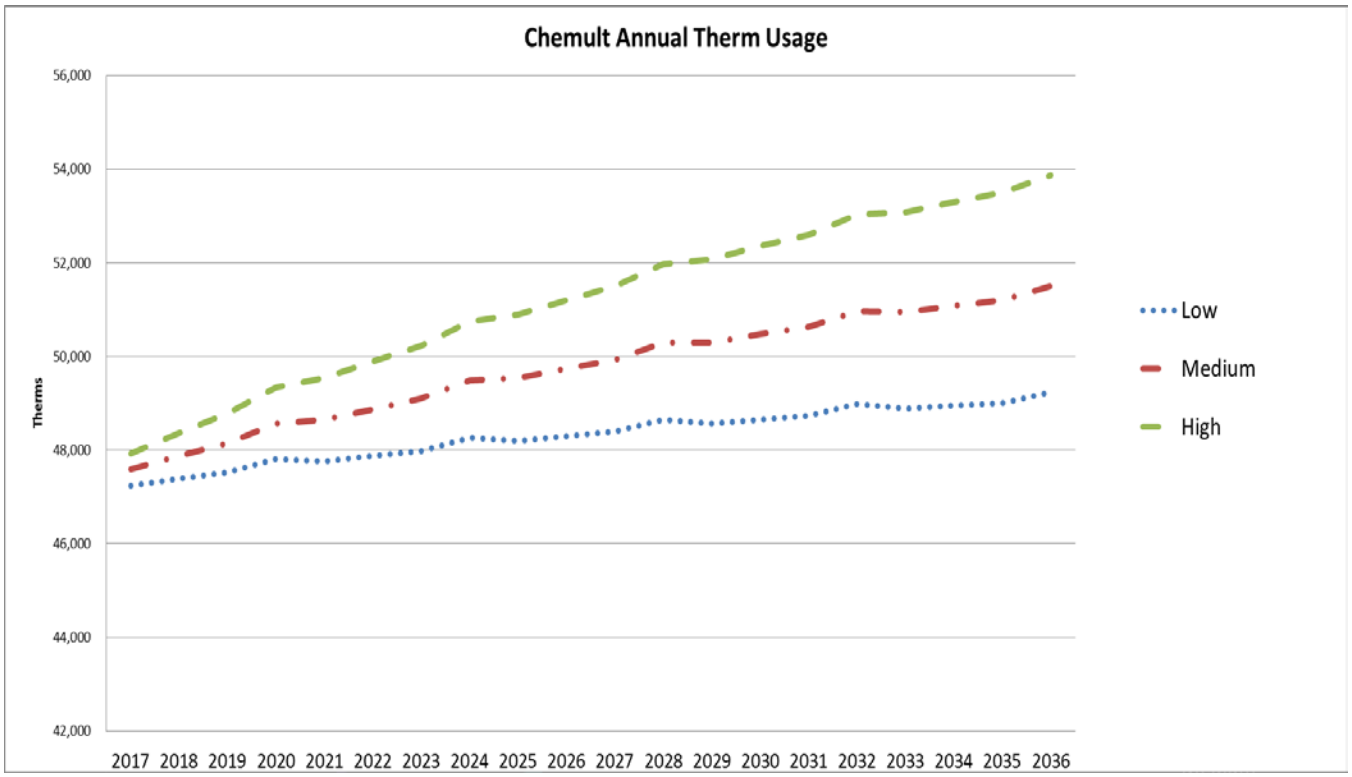
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.20%	0.33%	0.31%	0.40%	0.67%	0.61%	0.59%	1.00%	0.92%
2019	0.20%	0.30%	0.28%	0.39%	0.60%	0.56%	0.59%	0.90%	0.84%
2020	0.54%	0.63%	0.61%	0.74%	0.92%	0.88%	0.93%	1.20%	1.15%
2021	-0.15%	-0.08%	-0.09%	0.05%	0.19%	0.16%	0.24%	0.45%	0.41%
2022	0.19%	0.25%	0.23%	0.39%	0.49%	0.47%	0.58%	0.74%	0.70%
2023	0.19%	0.24%	0.23%	0.38%	0.48%	0.46%	0.58%	0.71%	0.69%
2024	0.53%	0.59%	0.58%	0.73%	0.83%	0.81%	0.92%	1.08%	1.04%
2025	-0.16%	-0.12%	-0.13%	0.03%	0.10%	0.09%	0.22%	0.32%	0.30%
2026	0.18%	0.20%	0.20%	0.37%	0.41%	0.40%	0.55%	0.61%	0.60%
2027	0.18%	0.20%	0.19%	0.36%	0.40%	0.39%	0.54%	0.59%	0.58%
2028	0.52%	0.54%	0.53%	0.70%	0.73%	0.72%	0.87%	0.92%	0.91%
2029	-0.17%	-0.16%	-0.16%	0.00%	0.02%	0.01%	0.17%	0.20%	0.19%
2030	0.17%	0.18%	0.18%	0.34%	0.36%	0.36%	0.50%	0.54%	0.53%
2031	0.16%	0.16%	0.16%	0.31%	0.31%	0.31%	0.47%	0.47%	0.47%
2032	0.49%	0.51%	0.51%	0.64%	0.67%	0.67%	0.79%	0.84%	0.83%
2033	-0.21%	-0.20%	-0.20%	-0.07%	-0.05%	-0.05%	0.07%	0.10%	0.09%
2034	0.13%	0.13%	0.13%	0.26%	0.27%	0.27%	0.38%	0.40%	0.40%
2035	0.12%	0.13%	0.13%	0.24%	0.26%	0.26%	0.35%	0.40%	0.39%
2036	0.45%	0.46%	0.46%	0.56%	0.57%	0.57%	0.67%	0.68%	0.68%

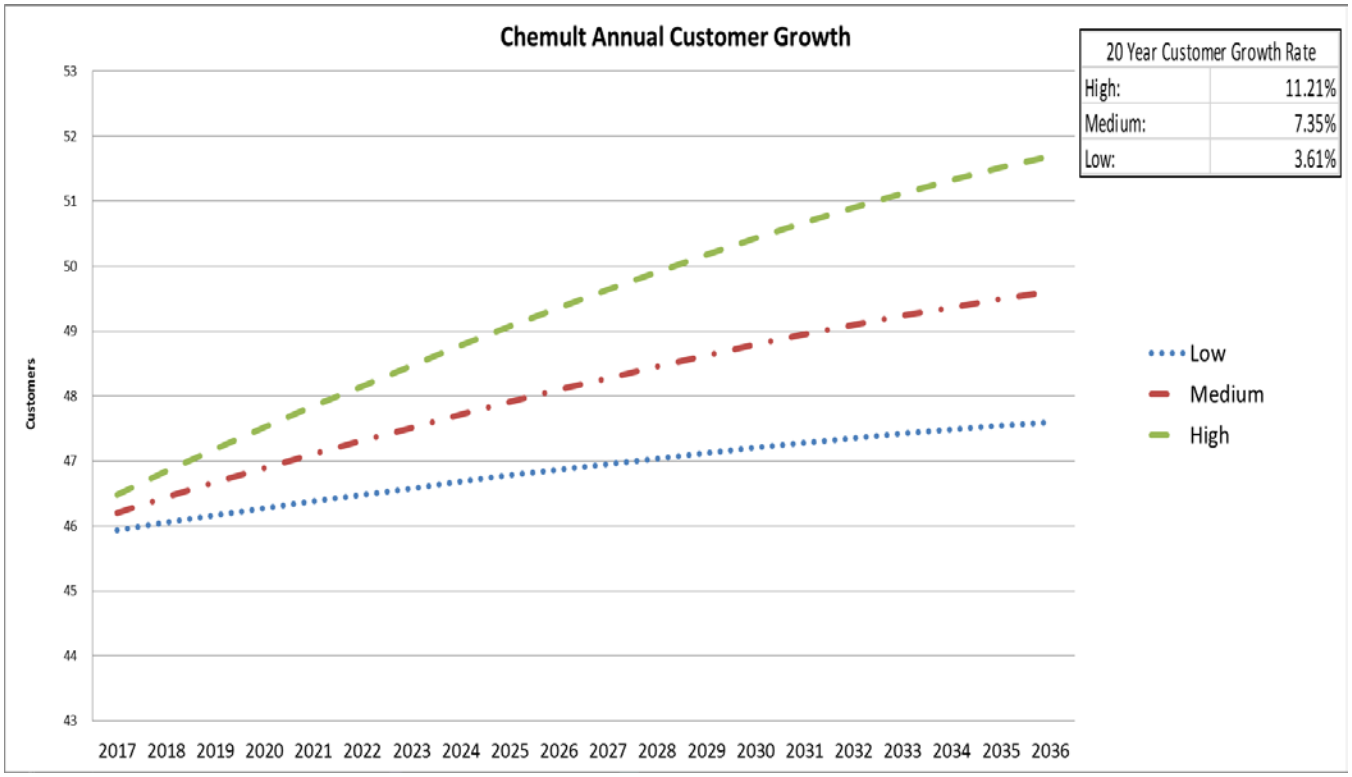
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	25	21	46	25	21	46	25	21	46
2018	25	21	46	25	21	46	25	21	47
2019	25	21	46	25	21	47	26	22	47
2020	25	21	46	25	21	47	26	22	48
2021	25	21	46	26	22	47	26	22	48
2022	25	21	46	26	22	47	26	22	48
2023	25	21	47	26	22	48	26	22	48
2024	25	21	47	26	22	48	26	23	49
2025	25	21	47	26	22	48	26	23	49
2026	25	21	47	26	22	48	27	23	49
2027	25	21	47	26	22	48	27	23	50
2028	26	21	47	26	22	48	27	23	50
2029	26	22	47	26	22	49	27	23	50
2030	26	22	47	26	22	49	27	23	50
2031	26	22	47	26	23	49	27	23	51
2032	26	22	47	27	23	49	27	24	51
2033	26	22	47	27	23	49	27	24	51
2034	26	22	47	27	23	49	28	24	51
2035	26	22	48	27	23	49	28	24	52
2036	26	22	48	27	23	50	28	24	52

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.20%	0.33%	0.26%	0.40%	0.67%	0.52%	0.59%	1.00%	0.78%
2019	0.20%	0.30%	0.24%	0.39%	0.60%	0.49%	0.59%	0.90%	0.73%
2020	0.20%	0.29%	0.24%	0.39%	0.57%	0.47%	0.59%	0.86%	0.71%
2021	0.19%	0.27%	0.23%	0.39%	0.53%	0.45%	0.58%	0.80%	0.68%
2022	0.19%	0.25%	0.22%	0.39%	0.49%	0.44%	0.58%	0.74%	0.65%
2023	0.19%	0.24%	0.21%	0.38%	0.48%	0.43%	0.58%	0.71%	0.64%
2024	0.19%	0.24%	0.21%	0.38%	0.49%	0.43%	0.57%	0.73%	0.64%
2025	0.19%	0.22%	0.20%	0.37%	0.44%	0.41%	0.56%	0.67%	0.61%
2026	0.18%	0.20%	0.19%	0.37%	0.41%	0.39%	0.55%	0.61%	0.58%
2027	0.18%	0.20%	0.19%	0.36%	0.40%	0.38%	0.54%	0.59%	0.57%
2028	0.18%	0.19%	0.18%	0.35%	0.38%	0.37%	0.53%	0.57%	0.55%
2029	0.17%	0.18%	0.18%	0.34%	0.36%	0.35%	0.52%	0.54%	0.53%
2030	0.17%	0.18%	0.17%	0.34%	0.36%	0.35%	0.50%	0.54%	0.52%
2031	0.16%	0.16%	0.16%	0.31%	0.31%	0.31%	0.47%	0.47%	0.47%
2032	0.15%	0.16%	0.15%	0.29%	0.33%	0.31%	0.44%	0.49%	0.46%
2033	0.14%	0.15%	0.14%	0.27%	0.30%	0.29%	0.41%	0.45%	0.43%
2034	0.13%	0.13%	0.13%	0.26%	0.27%	0.26%	0.38%	0.40%	0.39%
2035	0.12%	0.13%	0.12%	0.24%	0.26%	0.25%	0.35%	0.40%	0.37%
2036	0.11%	0.11%	0.11%	0.22%	0.22%	0.22%	0.33%	0.34%	0.33%





20 Year Customer Growth Rate	
High:	11.21%
Medium:	7.35%
Low:	3.61%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

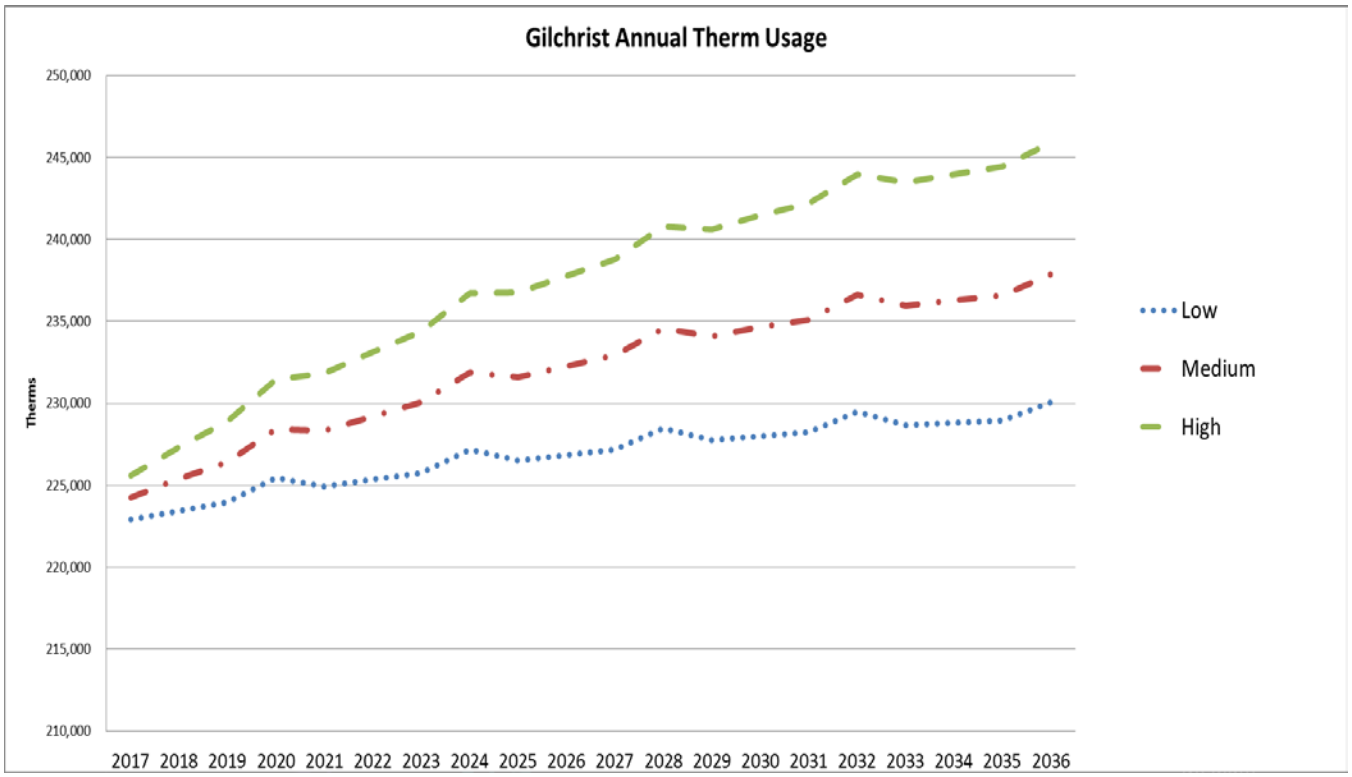
Gilchrist

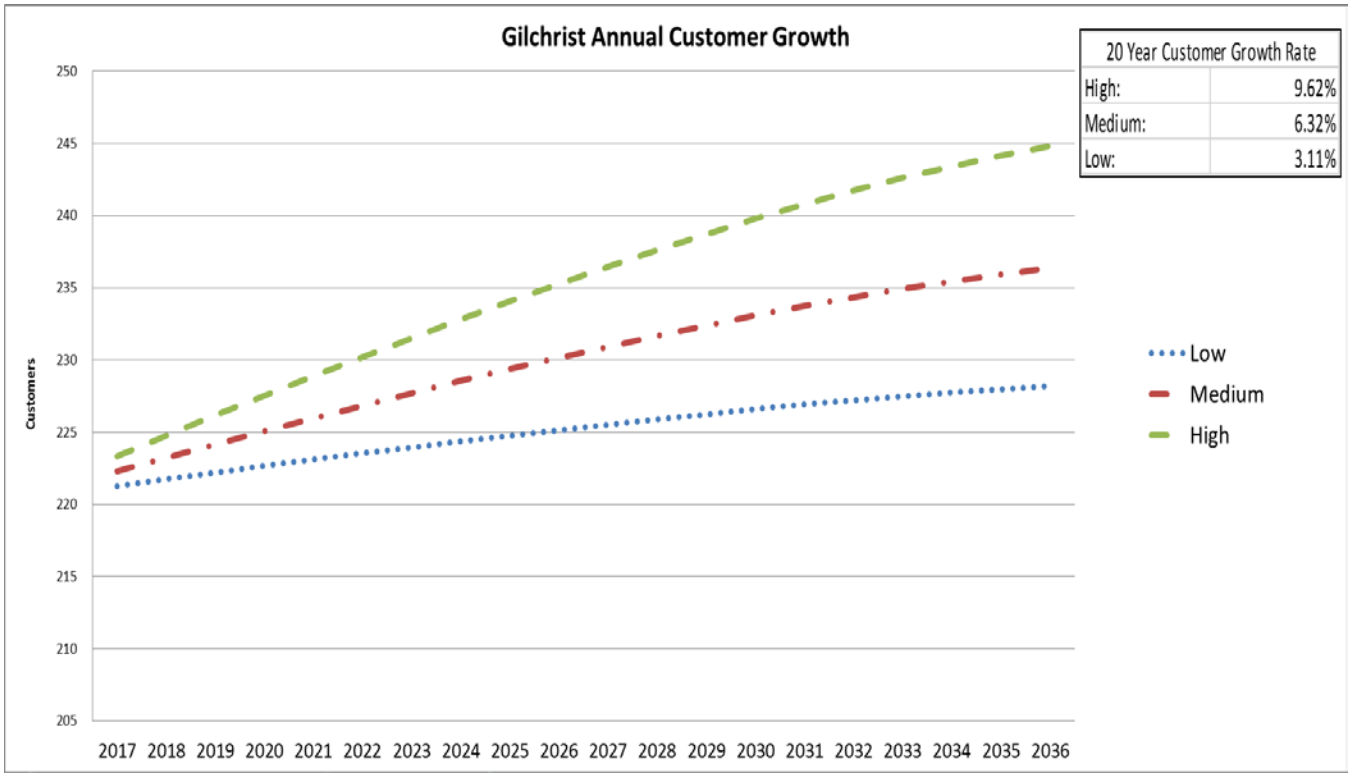
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	187,095	35,800	222,895	188,235	36,013	224,248	189,378	36,227	225,605	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	187,568	35,890	223,458	189,187	36,193	225,379	190,815	36,498	227,313	0.25%	0.25%	0.25%	0.51%	0.50%	0.50%	0.76%	0.75%	0.76%
2019	188,000	35,971	223,971	190,057	36,358	226,415	192,133	36,747	228,880	0.23%	0.23%	0.23%	0.46%	0.46%	0.46%	0.69%	0.68%	0.69%
2020	189,424	36,050	225,473	191,918	36,516	228,434	194,439	36,988	231,426	0.76%	0.22%	0.67%	0.98%	0.44%	0.89%	1.20%	0.66%	1.11%
2021	188,801	36,124	224,924	191,679	36,666	228,346	194,596	37,215	231,811	-0.33%	0.21%	-0.24%	-0.12%	0.41%	-0.04%	0.08%	0.62%	0.17%
2022	189,159	36,192	225,352	192,408	36,806	229,213	195,704	37,428	233,132	0.19%	0.19%	0.19%	0.38%	0.38%	0.38%	0.57%	0.57%	0.57%
2023	189,496	36,257	225,754	193,093	36,937	230,030	196,750	37,629	234,379	0.18%	0.18%	0.18%	0.36%	0.36%	0.36%	0.53%	0.54%	0.53%
2024	190,853	36,322	227,175	194,822	37,070	231,892	198,865	37,831	236,696	0.72%	0.18%	0.63%	0.90%	0.36%	0.81%	1.08%	0.54%	0.99%
2025	190,136	36,381	226,517	194,398	37,189	231,587	198,745	38,014	236,759	-0.38%	0.16%	-0.29%	-0.22%	0.32%	-0.13%	-0.06%	0.48%	0.03%
2026	190,413	36,435	226,848	194,964	37,299	232,264	199,614	38,183	237,796	0.15%	0.15%	0.15%	0.29%	0.30%	0.29%	0.44%	0.44%	0.44%
2027	190,681	36,487	227,168	195,512	37,406	232,918	200,454	38,347	238,801	0.14%	0.14%	0.14%	0.28%	0.29%	0.28%	0.42%	0.43%	0.42%
2028	191,953	36,535	228,489	197,072	37,506	234,577	202,315	38,500	240,815	0.67%	0.13%	0.58%	0.80%	0.27%	0.71%	0.93%	0.40%	0.84%
2029	191,161	36,581	227,742	196,495	37,599	234,095	201,967	38,644	240,611	-0.41%	0.12%	-0.33%	-0.29%	0.25%	-0.21%	-0.17%	0.37%	-0.08%
2030	191,387	36,626	228,013	196,961	37,691	234,652	202,684	38,785	241,469	0.12%	0.12%	0.12%	0.24%	0.24%	0.24%	0.36%	0.37%	0.36%
2031	191,571	36,662	228,233	197,340	37,767	235,106	203,269	38,902	242,171	0.10%	0.10%	0.10%	0.19%	0.20%	0.19%	0.29%	0.30%	0.29%
2032	192,787	36,699	229,486	198,785	37,843	236,628	204,957	39,019	243,977	0.63%	0.10%	0.55%	0.73%	0.20%	0.65%	0.83%	0.30%	0.75%
2033	191,911	36,730	228,642	198,041	37,906	235,948	204,354	39,118	243,472	-0.45%	0.08%	-0.37%	-0.37%	0.17%	-0.29%	-0.29%	0.25%	-0.21%
2034	192,043	36,757	228,800	198,313	37,962	236,275	204,775	39,203	243,978	0.07%	0.07%	0.07%	0.14%	0.15%	0.14%	0.21%	0.22%	0.21%
2035	192,160	36,781	228,940	198,554	38,011	236,565	205,148	39,279	244,428	0.06%	0.06%	0.06%	0.12%	0.13%	0.12%	0.18%	0.19%	0.18%
2036	193,274	36,798	230,072	199,802	38,049	237,851	206,538	39,340	245,877	0.58%	0.05%	0.49%	0.63%	0.10%	0.54%	0.68%	0.15%	0.59%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	98	2,882	2,980	99	2,899	2,998	99	2,917	3,016	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	98	2,889	2,987	99	2,914	3,013	100	2,939	3,039	0.25%	0.25%	0.25%	0.50%	0.50%	0.50%	0.75%	0.76%	0.76%
2019	99	2,896	2,994	100	2,927	3,027	101	2,959	3,060	0.23%	0.23%	0.23%	0.46%	0.46%	0.46%	0.68%	0.69%	0.69%
2020	99	2,902	3,001	100	2,940	3,040	101	2,979	3,080	0.22%	0.22%	0.22%	0.44%	0.44%	0.44%	0.66%	0.66%	0.66%
2021	99	2,908	3,007	100	2,952	3,053	102	2,997	3,099	0.21%	0.21%	0.21%	0.41%	0.41%	0.41%	0.62%	0.62%	0.62%
2022	99	2,913	3,013	101	2,963	3,064	103	3,014	3,117	0.19%	0.19%	0.19%	0.38%	0.38%	0.38%	0.57%	0.57%	0.57%
2023	99	2,919	3,018	101	2,974	3,075	103	3,030	3,133	0.18%	0.18%	0.18%	0.36%	0.36%	0.36%	0.54%	0.53%	0.53%
2024	100	2,924	3,023	102	2,985	3,086	104	3,046	3,150	0.18%	0.18%	0.18%	0.36%	0.36%	0.36%	0.54%	0.54%	0.54%
2025	100	2,929	3,028	102	2,994	3,096	104	3,061	3,165	0.16%	0.16%	0.16%	0.32%	0.32%	0.32%	0.48%	0.48%	0.48%
2026	100	2,933	3,033	102	3,003	3,105	105	3,074	3,179	0.15%	0.15%	0.15%	0.30%	0.29%	0.29%	0.44%	0.44%	0.44%
2027	100	2,937	3,037	102	3,011	3,114	105	3,087	3,192	0.14%	0.14%	0.14%	0.29%	0.28%	0.28%	0.43%	0.42%	0.42%
2028	100	2,941	3,041	103	3,019	3,122	105	3,099	3,205	0.13%	0.13%	0.13%	0.27%	0.26%	0.26%	0.40%	0.39%	0.39%
2029	100	2,944	3,045	103	3,026	3,130	106	3,111	3,217	0.12%	0.12%	0.12%	0.25%	0.24%	0.24%	0.37%	0.37%	0.37%
2030	100	2,948	3,048	103	3,034	3,137	106	3,122	3,228	0.12%	0.12%	0.12%	0.24%	0.24%	0.24%	0.37%	0.36%	0.36%
2031	100	2,951	3,051	103	3,040	3,143	107	3,131	3,237	0.10%	0.10%	0.10%	0.20%	0.19%	0.19%	0.30%	0.29%	0.29%
2032	101	2,954	3,054	104	3,046	3,149	107	3,140	3,247	0.10%	0.10%	0.10%	0.20%	0.20%	0.20%	0.30%	0.29%	0.29%
2033	101	2,956	3,057	104	3,050	3,154	107	3,148	3,255	0.08%	0.08%	0.08%	0.17%	0.16%	0.16%	0.25%	0.24%	0.24%
2034	101	2,958	3,059	104	3,055	3,159	107	3,154	3,262	0.07%	0.07%	0.07%	0.15%	0.14%	0.14%	0.22%	0.21%	0.21%
2035	101	2,960	3,061	104	3,058	3,163	108	3,160	3,268	0.06%	0.06%	0.06%	0.13%	0.12%	0.12%	0.19%	0.18%	0.18%
2036	101	2,961	3,062	104	3,061	3,166	108	3,165	3,272	0.05%	0.04%	0.04%	0.10%	0.09%	0.09%	0.15%	0.14%	0.14%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	96,001	126,894	222,895	96,382	127,866	224,248	96,763	128,842	225,605	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	96,191	127,266	223,458	96,763	128,616	225,379	97,338	129,975	227,313	0.20%	0.29%	0.25%	0.40%	0.59%	0.50%	0.59%	0.88%	0.76%
2019	96,381	127,590	223,971	97,145	129,270	226,415	97,913	130,967	228,880	0.20%	0.25%	0.23%	0.39%	0.51%	0.46%	0.59%	0.76%	0.69%
2020	96,999	128,474	225,473	97,959	130,475	228,434	98,927	132,499	231,426	0.64%	0.69%	0.67%	0.84%	0.93%	0.89%	1.04%	1.17%	1.11%
2021	96,758	128,166	224,924	97,906	130,439	228,346	99,066	132,745	231,811	-0.25%	-0.24%	-0.24%	-0.05%	-0.03%	-0.04%	0.14%	0.19%	0.17%
2022	96,946	128,406	225,352	98,286	130,927	229,213	99,643	133,490	233,132	0.19%	0.19%	0.19%	0.39%	0.37%	0.38%	0.58%	0.56%	0.57%
2023	97,132	128,621	225,754	98,664	131,367	230,030	100,216	134,163	234,379	0.19%	0.17%	0.18%	0.38%	0.34%	0.36%	0.58%	0.50%	0.53%
2024	97,749	129,426	227,175	99,479	132,413	231,892	101,236	135,460	236,696	0.64%	0.63%	0.63%	0.83%	0.80%	0.81%	1.02%	0.97%	0.99%
2025	97,500	129,017	226,517	99,411	132,176	231,587	101,355	135,403	236,759	-0.26%	-0.32%	-0.29%	-0.07%	-0.18%	-0.13%	0.12%	-0.04%	0.03%
2026	97,679	129,169	226,848	99,776	132,488	232,264	101,914	135,882	237,796	0.18%	0.12%	0.15%	0.37%	0.24%	0.29%	0.55%	0.35%	0.44%
2027	97,855	129,313	227,168	100,136	132,782	232,918	102,465	136,335	238,801	0.18%	0.11%	0.14%	0.36%	0.22%	0.28%	0.54%	0.33%	0.42%
2028	98,462	130,026	228,489	100,934	133,643	234,577	103,464	137,351	240,815	0.62%	0.55%	0.58%	0.80%	0.65%	0.71%	0.97%	0.74%	0.84%
2029	98,195	129,546	227,742	100,833	133,262	234,095	103,537	137,074	240,611	-0.27%	-0.37%	-0.33%	-0.10%	-0.29%	-0.21%	0.07%	-0.20%	-0.08%
2030	98,360	129,653	228,013	101,171	133,480	234,652	104,057	137,412	241,469	0.17%	0.08%	0.12%	0.34%	0.16%	0.24%	0.50%	0.25%	0.36%
2031	98,514	129,719	228,233	101,489	133,618	235,106	104,547	137,624	242,171	0.16%	0.05%	0.10%	0.31%	0.10%	0.19%	0.47%	0.15%	0.29%
2032	99,097	130,389	229,486	102,239	134,389	236,628	105,474	138,502	243,977	0.59%	0.52%	0.55%	0.74%	0.58%	0.65%	0.89%	0.64%	0.75%
2033	98,795	129,847	228,642	102,067	133,881	235,948	105,441	138,031	243,472	-0.31%	-0.42%	-0.37%	-0.17%	-0.38%	-0.29%	-0.03%	-0.34%	-0.21%
2034	98,921	129,879	228,800	102,327	133,947	236,275	105,845	138,133	243,978	0.13%	0.02%	0.07%	0.26%	0.05%	0.14%	0.38%	0.07%	0.21%
2035	99,038	129,903	228,940	102,569	133,996	236,565	106,220	138,208	244,428	0.12%	0.02%	0.06%	0.24%	0.04%	0.12%	0.35%	0.05%	0.18%
2036	99,587	130,485	230,072	103,251	134,600	237,851	107,044	138,834	245,877	0.55%	0.45%	0.49%	0.66%	0.45%	0.54%	0.78%	0.45%	0.59%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	182	39	221	183	40	222	183	40	223	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	182	39	222	183	40	223	185	40	225	0.20%	0.29%	0.21%	0.40%	0.59%	0.43%	0.59%	0.88%	0.64%
2019	183	39	222	184	40	224	186	40	226	0.20%	0.25%	0.21%	0.39%	0.51%	0.41%	0.59%	0.76%	0.62%
2020	183	40	223	185	40	225	187	41	228	0.20%	0.24%	0.20%	0.39%	0.47%	0.41%	0.59%	0.71%	0.61%
2021	183	40	223	186	40	226	188	41	229	0.19%	0.21%	0.20%	0.39%	0.43%	0.40%	0.58%	0.64%	0.59%
2022	184	40	224	186	40	227	189	41	230	0.19%	0.19%	0.19%	0.39%	0.37%	0.39%	0.58%	0.56%	0.58%
2023	184	40	224	187	41	228	190	41	232	0.19%	0.17%	0.19%	0.38%	0.34%	0.38%	0.58%	0.50%	0.56%
2024	185	40	224	188	41	229	191	42	233	0.19%	0.17%	0.19%	0.38%	0.34%	0.37%	0.57%	0.51%	0.56%
2025	185	40	225	189	41	229	192	42	234	0.19%	0.14%	0.18%	0.37%	0.28%	0.36%	0.56%	0.41%	0.54%
2026	185	40	225	189	41	230	193	42	235	0.18%	0.12%	0.17%	0.37%	0.24%	0.34%	0.55%	0.35%	0.52%
2027	186	40	226	190	41	231	194	42	236	0.18%	0.11%	0.17%	0.36%	0.22%	0.34%	0.54%	0.33%	0.50%
2028	186	40	226	191	41	232	195	42	238	0.18%	0.10%	0.16%	0.35%	0.19%	0.32%	0.53%	0.29%	0.49%
2029	186	40	226	191	41	232	196	42	239	0.17%	0.08%	0.16%	0.34%	0.17%	0.31%	0.52%	0.25%	0.47%
2030	187	40	227	192	41	233	197	42	240	0.17%	0.08%	0.15%	0.34%	0.16%	0.30%	0.50%	0.25%	0.46%
2031	187	40	227	192	41	234	198	43	241	0.16%	0.05%	0.14%	0.31%	0.10%	0.28%	0.47%	0.15%	0.41%
2032	187	40	227	193	41	234	199	43	242	0.15%	0.06%	0.13%	0.29%	0.12%	0.26%	0.44%	0.18%	0.40%
2033	187	40	227	194	41	235	200	43	243	0.14%	0.04%	0.12%	0.27%	0.08%	0.24%	0.41%	0.11%	0.36%
2034	188	40	228	194	41	235	201	43	243	0.13%	0.02%	0.11%	0.26%	0.05%	0.22%	0.38%	0.07%	0.33%
2035	188	40	228	195	41	236	201	43	244	0.12%	0.02%	0.10%	0.24%	0.04%	0.20%	0.35%	0.05%	0.30%
2036	188	40	228	195	41	236	202	43	245	0.11%	-0.01%	0.09%	0.22%	0.00%	0.18%	0.33%	0.00%	0.27%





20 Year Customer Growth Rate	
High:	9.62%
Medium:	6.32%
Low:	3.11%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

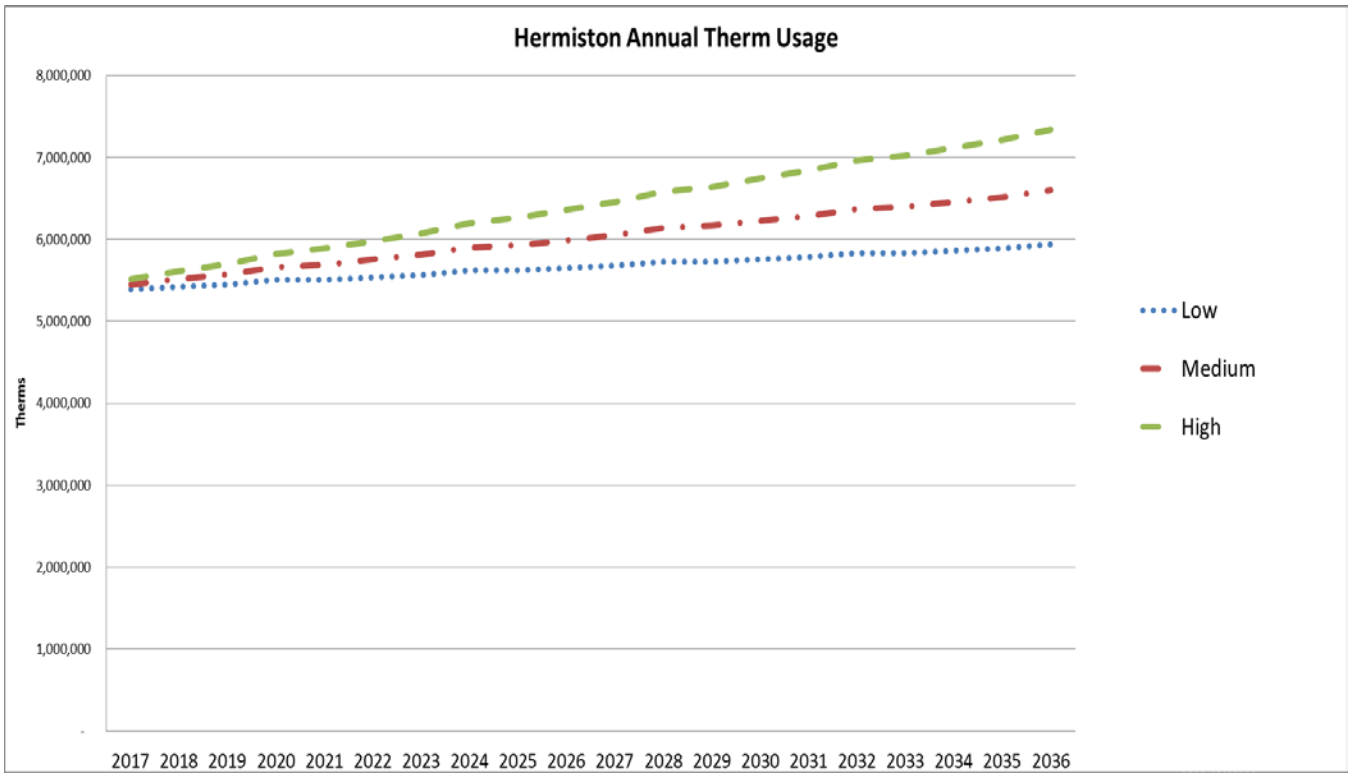
Hermiston

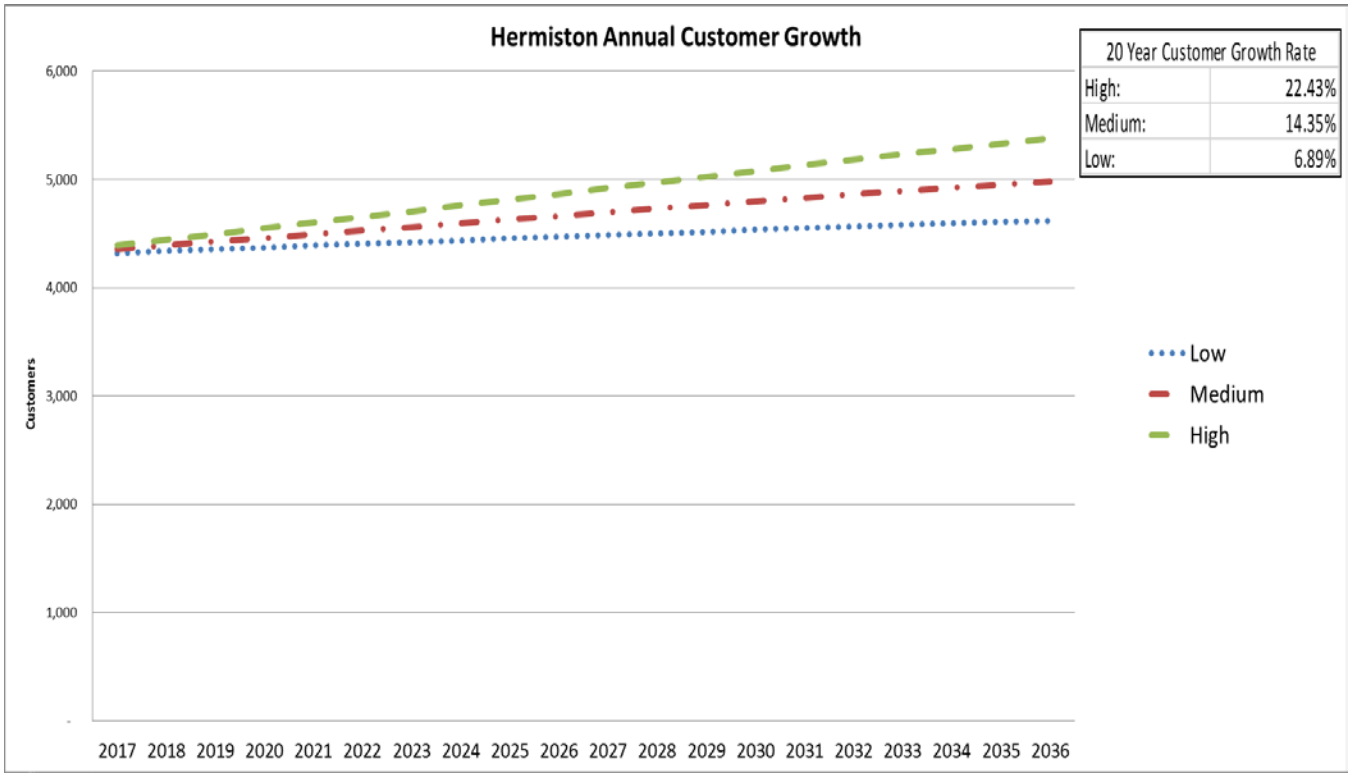
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	3,797,169	1,592,176	5,389,345	3,839,880	1,613,797	5,453,677	3,882,883	1,635,586	5,518,469	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,817,205	1,602,058	5,419,264	3,880,496	1,633,870	5,514,366	3,944,627	1,666,162	5,610,789	0.53%	0.62%	0.56%	1.06%	1.24%	1.11%	1.59%	1.87%	1.67%
2019	3,837,056	1,611,711	5,448,768	3,920,983	1,653,615	5,574,598	4,006,555	1,696,448	5,703,003	0.52%	0.60%	0.54%	1.04%	1.21%	1.09%	1.57%	1.82%	1.64%
2020	3,881,778	1,621,164	5,502,942	3,986,971	1,673,083	5,660,054	4,094,875	1,726,514	5,821,389	1.17%	0.59%	0.99%	1.68%	1.18%	1.53%	2.20%	1.77%	2.08%
2021	3,876,075	1,630,507	5,506,581	4,001,281	1,692,452	5,693,733	4,130,480	1,756,626	5,887,106	-0.15%	0.58%	0.07%	0.36%	1.16%	0.60%	0.87%	1.74%	1.13%
2022	3,895,497	1,639,800	5,535,297	4,041,604	1,711,848	5,753,452	4,193,263	1,786,979	5,980,241	0.50%	0.57%	0.52%	1.01%	1.15%	1.05%	1.52%	1.73%	1.58%
2023	3,914,627	1,648,917	5,563,544	4,081,549	1,730,998	5,812,547	4,255,813	1,817,140	6,072,953	0.49%	0.56%	0.51%	0.99%	1.12%	1.03%	1.49%	1.69%	1.55%
2024	3,959,522	1,658,004	5,617,526	4,148,833	1,750,209	5,899,042	4,347,611	1,847,595	6,195,206	1.15%	0.55%	0.97%	1.65%	1.11%	1.49%	2.16%	1.68%	2.01%
2025	3,952,919	1,667,045	5,619,963	4,162,193	1,769,445	5,931,638	4,383,186	1,878,285	6,261,471	-0.17%	0.55%	0.04%	0.32%	1.10%	0.55%	0.82%	1.66%	1.07%
2026	3,971,817	1,675,978	5,647,795	4,202,334	1,788,574	5,990,907	4,447,132	1,908,997	6,356,129	0.48%	0.54%	0.50%	0.96%	1.08%	1.00%	1.46%	1.64%	1.51%
2027	3,990,734	1,684,909	5,675,644	4,242,744	1,807,818	6,050,561	4,511,874	1,940,091	6,451,964	0.48%	0.53%	0.49%	0.96%	1.08%	1.00%	1.46%	1.63%	1.51%
2028	4,035,499	1,693,675	5,729,174	4,310,659	1,826,822	6,137,482	4,606,134	1,970,988	6,577,122	1.12%	0.52%	0.94%	1.60%	1.05%	1.44%	2.09%	1.59%	1.94%
2029	4,027,891	1,702,453	5,730,344	4,322,778	1,845,973	6,168,751	4,641,180	2,002,317	6,643,498	-0.19%	0.52%	0.02%	0.28%	1.05%	0.51%	0.76%	1.59%	1.01%
2030	4,046,207	1,711,098	5,757,305	4,362,555	1,864,948	6,227,503	4,705,978	2,033,548	6,739,526	0.45%	0.51%	0.47%	0.92%	1.03%	0.95%	1.40%	1.56%	1.45%
2031	4,064,304	1,719,683	5,783,987	4,402,084	1,883,910	6,285,994	4,770,748	2,064,954	6,835,702	0.45%	0.50%	0.46%	0.91%	1.02%	0.94%	1.38%	1.54%	1.43%
2032	4,108,769	1,728,120	5,836,889	4,470,235	1,902,659	6,372,894	4,866,846	2,096,199	6,963,045	1.09%	0.49%	0.91%	1.55%	1.00%	1.38%	2.01%	1.51%	1.86%
2033	4,099,583	1,736,483	5,836,065	4,479,789	1,921,359	6,401,148	4,899,152	2,127,554	7,026,706	-0.22%	0.48%	-0.01%	0.21%	0.98%	0.44%	0.66%	1.50%	0.91%
2034	4,116,601	1,744,618	5,861,219	4,517,583	1,939,659	6,457,243	4,962,124	2,158,424	7,120,548	0.42%	0.47%	0.43%	0.84%	0.95%	0.88%	1.29%	1.45%	1.34%
2035	4,133,336	1,752,636	5,885,972	4,554,949	1,957,802	6,512,750	5,024,721	2,189,210	7,213,931	0.41%	0.46%	0.42%	0.83%	0.94%	0.86%	1.26%	1.43%	1.31%
2036	4,177,069	1,760,614	5,937,683	4,622,328	1,975,982	6,598,310	5,120,952	2,220,253	7,341,205	1.06%	0.46%	0.88%	1.48%	0.93%	1.31%	1.92%	1.42%	1.76%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	4,362	67,966	72,328	4,421	68,727	73,148	4,481	69,494	73,975	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	4,389	68,322	72,711	4,476	69,450	73,926	4,565	70,593	75,158	0.62%	0.52%	0.53%	1.24%	1.05%	1.06%	1.87%	1.58%	1.60%
2019	4,416	68,675	73,091	4,530	70,170	74,700	4,648	71,693	76,341	0.60%	0.52%	0.52%	1.21%	1.04%	1.05%	1.82%	1.56%	1.57%
2020	4,442	69,022	73,464	4,584	70,882	75,465	4,730	72,789	77,519	0.59%	0.51%	0.51%	1.18%	1.01%	1.02%	1.77%	1.53%	1.54%
2021	4,467	69,368	73,835	4,637	71,595	76,232	4,813	73,893	78,705	0.58%	0.50%	0.51%	1.16%	1.01%	1.02%	1.74%	1.52%	1.53%
2022	4,493	69,712	74,204	4,690	72,310	77,000	4,896	75,006	79,902	0.57%	0.50%	0.50%	1.15%	1.00%	1.01%	1.73%	1.51%	1.52%
2023	4,518	70,051	74,569	4,742	73,018	77,760	4,978	76,114	81,093	0.56%	0.49%	0.49%	1.12%	0.98%	0.99%	1.69%	1.48%	1.49%
2024	4,542	70,391	74,933	4,795	73,731	78,526	5,062	77,238	82,300	0.55%	0.48%	0.49%	1.11%	0.98%	0.99%	1.68%	1.48%	1.49%
2025	4,567	70,729	75,296	4,848	74,445	79,293	5,146	78,369	83,515	0.55%	0.48%	0.48%	1.10%	0.97%	0.98%	1.66%	1.46%	1.48%
2026	4,592	71,063	75,655	4,900	75,155	80,055	5,230	79,500	84,730	0.54%	0.47%	0.48%	1.08%	0.95%	0.96%	1.64%	1.44%	1.46%
2027	4,616	71,398	76,014	4,953	75,870	80,823	5,315	80,645	85,960	0.53%	0.47%	0.47%	1.08%	0.95%	0.96%	1.63%	1.44%	1.45%
2028	4,640	71,726	76,366	5,005	76,574	81,579	5,400	81,779	87,179	0.52%	0.46%	0.46%	1.05%	0.93%	0.94%	1.59%	1.41%	1.42%
2029	4,664	72,054	76,719	5,057	77,284	82,342	5,486	82,930	88,416	0.52%	0.46%	0.46%	1.05%	0.93%	0.94%	1.59%	1.41%	1.42%
2030	4,688	72,378	77,066	5,109	77,987	83,097	5,571	84,075	89,647	0.51%	0.45%	0.45%	1.03%	0.91%	0.92%	1.56%	1.38%	1.39%
2031	4,711	72,698	77,409	5,161	78,686	83,847	5,657	85,220	90,877	0.50%	0.44%	0.45%	1.02%	0.90%	0.90%	1.54%	1.36%	1.37%
2032	4,735	73,011	77,746	5,213	79,374	84,587	5,743	86,354	92,097	0.49%	0.43%	0.43%	1.00%	0.87%	0.88%	1.51%	1.33%	1.34%
2033	4,757	73,321	78,078	5,264	80,058	85,322	5,829	87,487	93,316	0.48%	0.42%	0.43%	0.98%	0.86%	0.87%	1.50%	1.31%	1.32%
2034	4,780	73,621	78,401	5,314	80,725	86,039	5,913	88,599	94,512	0.47%	0.41%	0.41%	0.95%	0.83%	0.84%	1.45%	1.27%	1.28%
2035	4,802	73,917	78,718	5,364	81,384	86,748	5,998	89,703	95,701	0.46%	0.40%	0.40%	0.94%	0.82%	0.82%	1.43%	1.25%	1.26%
2036	4,824	74,208	79,032	5,414	82,040	87,454	6,083	90,808	96,891	0.46%	0.39%	0.40%	0.93%	0.81%	0.81%	1.42%	1.23%	1.24%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,325,517	3,063,828	5,389,345	2,340,042	3,113,635	5,453,677	2,354,613	3,163,857	5,518,469	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,332,768	3,086,496	5,419,264	2,354,635	3,159,731	5,514,366	2,376,638	3,234,151	5,610,789	0.31%	0.74%	0.56%	0.62%	1.48%	1.11%	0.94%	2.22%	1.67%
2019	2,340,041	3,108,727	5,448,768	2,369,317	3,205,281	5,574,598	2,398,867	3,304,136	5,703,003	0.31%	0.72%	0.54%	0.62%	1.44%	1.09%	0.94%	2.16%	1.64%
2020	2,358,910	3,144,033	5,502,942	2,395,814	3,264,240	5,660,054	2,433,179	3,388,209	5,821,389	0.81%	1.14%	0.99%	1.12%	1.84%	1.53%	1.43%	2.54%	2.08%
2021	2,354,549	3,152,032	5,506,581	2,398,742	3,294,992	5,693,733	2,443,623	3,443,483	5,887,106	-0.18%	0.25%	0.07%	0.12%	0.94%	0.60%	0.43%	1.63%	1.13%
2022	2,361,799	3,173,498	5,535,297	2,413,514	3,339,938	5,753,452	2,466,196	3,514,045	5,980,241	0.31%	0.68%	0.52%	0.62%	1.36%	1.05%	0.92%	2.05%	1.58%
2023	2,369,027	3,194,517	5,563,544	2,428,286	3,384,260	5,812,547	2,488,839	3,584,114	6,072,953	0.31%	0.66%	0.51%	0.61%	1.33%	1.03%	0.92%	1.99%	1.55%
2024	2,387,994	3,229,532	5,617,526	2,455,165	3,443,877	5,899,042	2,524,011	3,671,195	6,195,206	0.80%	1.10%	0.97%	1.11%	1.76%	1.49%	1.41%	2.43%	2.01%
2025	2,383,417	3,236,546	5,619,963	2,457,831	3,473,807	5,931,638	2,534,329	3,727,142	6,261,471	-0.19%	0.22%	0.04%	0.11%	0.87%	0.55%	0.41%	1.52%	1.07%
2026	2,390,507	3,257,289	5,647,795	2,472,453	3,518,454	5,990,907	2,556,945	3,799,183	6,356,129	0.30%	0.64%	0.50%	0.59%	1.29%	1.00%	0.89%	1.93%	1.51%
2027	2,397,532	3,278,111	5,675,644	2,486,986	3,563,575	6,050,561	2,579,489	3,872,475	6,451,964	0.29%	0.64%	0.49%	0.59%	1.28%	1.00%	0.88%	1.93%	1.51%
2028	2,416,365	3,312,808	5,729,174	2,513,764	3,623,718	6,137,482	2,614,774	3,962,348	6,577,122	0.79%	1.06%	0.94%	1.08%	1.69%	1.44%	1.37%	2.32%	1.94%
2029	2,411,349	3,318,995	5,730,344	2,515,691	3,653,060	6,168,751	2,624,213	4,019,284	6,643,498	-0.21%	0.19%	0.02%	0.08%	0.81%	0.51%	0.36%	1.44%	1.01%
2030	2,418,113	3,339,192	5,757,305	2,529,804	3,697,698	6,227,503	2,646,296	4,093,230	6,739,526	0.28%	0.61%	0.47%	0.56%	1.22%	0.95%	0.84%	1.84%	1.45%
2031	2,424,672	3,359,316	5,783,987	2,543,528	3,742,466	6,285,994	2,667,829	4,167,873	6,835,702	0.27%	0.60%	0.46%	0.54%	1.21%	0.94%	0.81%	1.82%	1.43%
2032	2,443,001	3,393,888	5,836,889	2,569,411	3,803,483	6,372,894	2,701,957	4,261,087	6,963,045	0.76%	1.03%	0.91%	1.02%	1.63%	1.38%	1.28%	2.24%	1.86%
2033	2,437,081	3,398,984	5,836,065	2,569,597	3,831,551	6,401,148	2,708,896	4,317,810	7,026,706	-0.24%	0.15%	-0.01%	0.01%	0.74%	0.44%	0.26%	1.33%	0.91%
2034	2,442,964	3,418,256	5,861,219	2,582,002	3,875,241	6,457,243	2,728,512	4,392,036	7,120,548	0.24%	0.57%	0.43%	0.48%	1.14%	0.88%	0.72%	1.72%	1.34%
2035	2,448,634	3,437,338	5,885,972	2,593,987	3,918,763	6,512,750	2,747,511	4,466,420	7,213,931	0.23%	0.56%	0.42%	0.46%	1.12%	0.86%	0.70%	1.69%	1.31%
2036	2,466,238	3,471,445	5,937,683	2,618,464	3,979,846	6,598,310	2,779,607	4,561,598	7,341,205	0.72%	0.99%	0.88%	0.94%	1.56%	1.31%	1.17%	2.13%	1.76%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,599	724	4,323	3,622	736	4,358	3,644	749	4,393	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,610	729	4,340	3,644	748	4,392	3,678	767	4,445	0.31%	0.79%	0.39%	0.62%	1.57%	0.78%	0.94%	2.36%	1.18%
2019	3,622	735	4,356	3,667	759	4,426	3,713	784	4,497	0.31%	0.76%	0.39%	0.62%	1.53%	0.78%	0.94%	2.29%	1.17%
2020	3,633	740	4,373	3,690	771	4,460	3,747	802	4,549	0.31%	0.74%	0.38%	0.62%	1.49%	0.77%	0.93%	2.23%	1.16%
2021	3,644	746	4,390	3,712	782	4,494	3,782	819	4,601	0.31%	0.73%	0.38%	0.62%	1.46%	0.76%	0.93%	2.19%	1.15%
2022	3,655	751	4,406	3,735	793	4,528	3,817	837	4,654	0.31%	0.72%	0.38%	0.62%	1.45%	0.76%	0.92%	2.17%	1.15%
2023	3,666	756	4,423	3,758	804	4,562	3,852	855	4,706	0.31%	0.70%	0.37%	0.61%	1.41%	0.75%	0.92%	2.11%	1.13%
2024	3,678	762	4,439	3,781	815	4,597	3,887	873	4,760	0.30%	0.70%	0.37%	0.61%	1.40%	0.75%	0.91%	2.10%	1.13%
2025	3,689	767	4,456	3,804	827	4,631	3,922	891	4,813	0.30%	0.69%	0.37%	0.60%	1.39%	0.74%	0.91%	2.08%	1.12%
2026	3,700	772	4,472	3,826	838	4,665	3,957	909	4,866	0.30%	0.68%	0.36%	0.59%	1.36%	0.73%	0.89%	2.04%	1.11%
2027	3,711	777	4,488	3,849	849	4,698	3,992	927	4,920	0.29%	0.68%	0.36%	0.59%	1.36%	0.73%	0.88%	2.04%	1.10%
2028	3,721	783	4,504	3,871	861	4,732	4,027	946	4,973	0.29%	0.66%	0.35%	0.58%	1.32%	0.71%	0.87%	1.99%	1.08%
2029	3,732	788	4,520	3,893	872	4,765	4,061	965	5,026	0.29%	0.66%	0.35%	0.57%	1.32%	0.71%	0.86%	1.99%	1.07%
2030	3,742	793	4,535	3,915	883	4,799	4,096	983	5,079	0.28%	0.65%	0.34%	0.56%	1.29%	0.70%	0.84%	1.94%	1.05%
2031	3,753	798	4,550	3,936	895	4,831	4,129	1,002	5,131	0.27%	0.64%	0.34%	0.54%	1.29%	0.68%	0.81%	1.93%	1.03%
2032	3,762	803	4,565	3,957	906	4,863	4,161	1,021	5,182	0.26%	0.63%	0.33%	0.52%	1.26%	0.66%	0.78%	1.89%	1.00%
2033	3,772	808	4,580	3,977	917	4,894	4,192	1,040	5,233	0.25%	0.62%	0.32%	0.50%	1.25%	0.64%	0.75%	1.88%	0.97%
2034	3,781	813	4,594	3,996	928	4,924	4,223	1,059	5,282	0.24%	0.61%	0.31%	0.48%	1.21%	0.62%	0.72%	1.82%	0.94%
2035	3,790	818	4,607	4,015	939	4,954	4,252	1,078	5,331	0.23%	0.60%	0.30%	0.46%	1.19%	0.60%	0.70%	1.79%	0.92%
2036	3,798	823	4,621	4,033	951	4,983	4,281	1,098	5,378	0.22%	0.59%	0.29%	0.45%	1.19%	0.59%	0.67%	1.78%	0.90%





20 Year Customer Growth Rate	
High:	22.43%
Medium:	14.35%
Low:	6.89%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

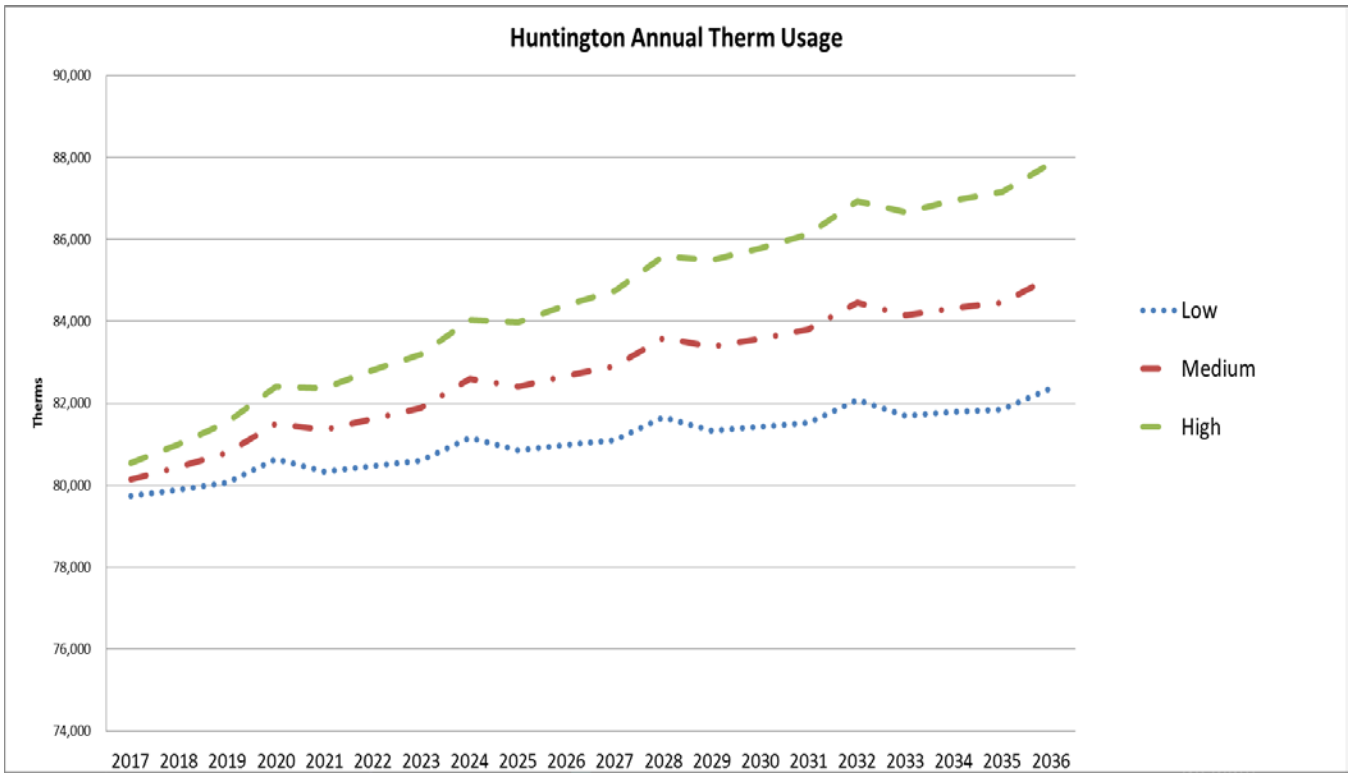
Huntington

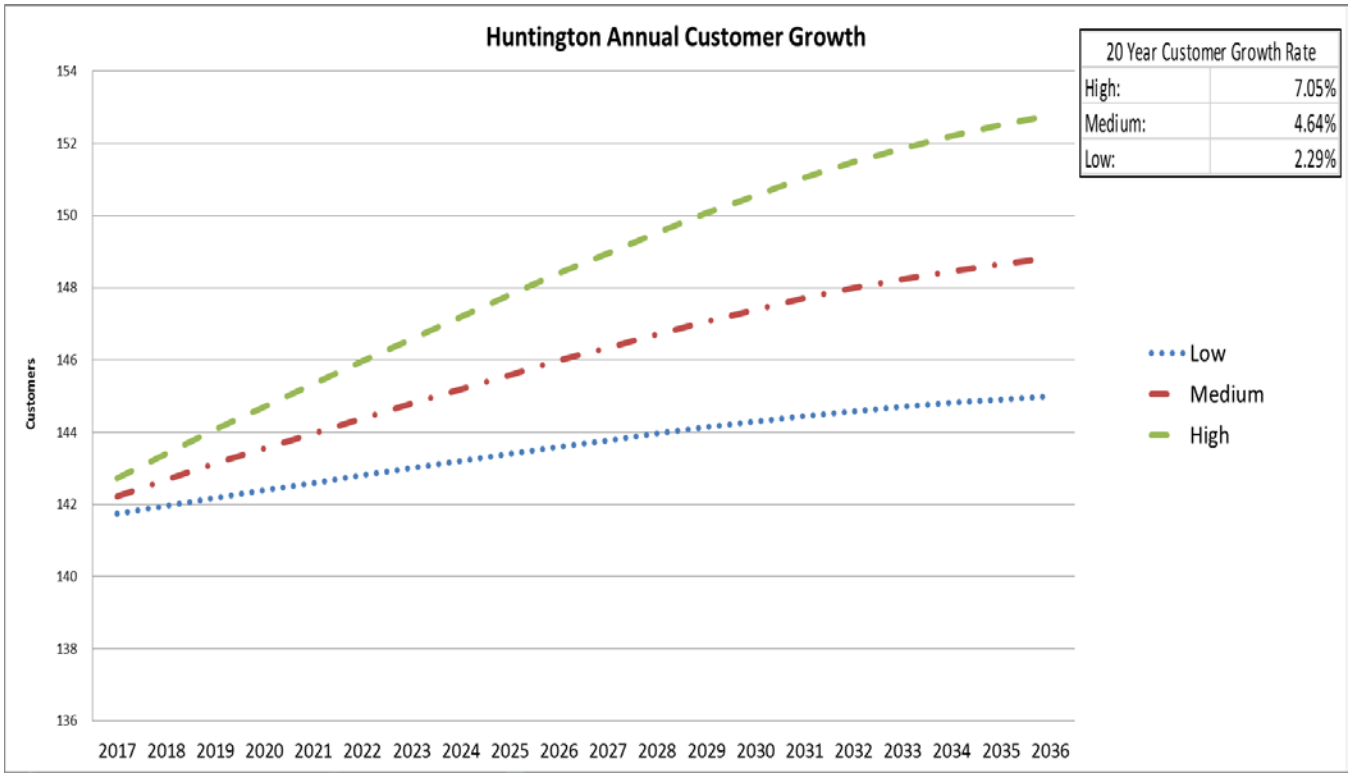
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	79,732	-	79,732	80,137	-	80,137	80,543	-	80,543	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	79,887	-	79,887	80,448	-	80,448	81,012	-	81,012	0.19%	0.00%	0.19%	0.39%	0.00%	0.39%	0.58%	0.00%	0.58%
2019	80,061	-	80,061	80,799	-	80,799	81,543	-	81,543	0.22%	0.00%	0.22%	0.44%	0.00%	0.44%	0.66%	0.00%	0.66%
2020	80,633	-	80,633	81,511	-	81,511	82,399	-	82,399	0.71%	0.00%	0.71%	0.88%	0.00%	0.88%	1.05%	0.00%	1.05%
2021	80,331	-	80,331	81,344	-	81,344	82,371	-	82,371	-0.38%	0.00%	-0.38%	-0.20%	0.00%	-0.20%	-0.03%	0.00%	-0.03%
2022	80,469	-	80,469	81,625	-	81,625	82,799	-	82,799	0.17%	0.00%	0.17%	0.35%	0.00%	0.35%	0.52%	0.00%	0.52%
2023	80,595	-	80,595	81,882	-	81,882	83,189	-	83,189	0.16%	0.00%	0.16%	0.31%	0.00%	0.31%	0.47%	0.00%	0.47%
2024	81,164	-	81,164	82,588	-	82,588	84,038	-	84,038	0.71%	0.00%	0.71%	0.86%	0.00%	0.86%	1.02%	0.00%	1.02%
2025	80,850	-	80,850	82,402	-	82,402	83,984	-	83,984	-0.39%	0.00%	-0.39%	-0.23%	0.00%	-0.23%	-0.07%	0.00%	-0.07%
2026	80,983	-	80,983	82,673	-	82,673	84,399	-	84,399	0.16%	0.00%	0.16%	0.33%	0.00%	0.33%	0.50%	0.00%	0.50%
2027	81,094	-	81,094	82,900	-	82,900	84,748	-	84,748	0.14%	0.00%	0.14%	0.27%	0.00%	0.27%	0.41%	0.00%	0.41%
2028	81,658	-	81,658	83,599	-	83,599	85,589	-	85,589	0.70%	0.00%	0.70%	0.84%	0.00%	0.84%	0.99%	0.00%	0.99%
2029	81,328	-	81,328	83,381	-	83,381	85,487	-	85,487	-0.40%	0.00%	-0.40%	-0.26%	0.00%	-0.26%	-0.12%	0.00%	-0.12%
2030	81,422	-	81,422	83,573	-	83,573	85,784	-	85,784	0.12%	0.00%	0.12%	0.23%	0.00%	0.23%	0.35%	0.00%	0.35%
2031	81,531	-	81,531	83,798	-	83,798	86,130	-	86,130	0.13%	0.00%	0.13%	0.27%	0.00%	0.27%	0.40%	0.00%	0.40%
2032	82,080	-	82,080	84,466	-	84,466	86,926	-	86,926	0.67%	0.00%	0.67%	0.80%	0.00%	0.80%	0.92%	0.00%	0.92%
2033	81,701	-	81,701	84,148	-	84,148	86,673	-	86,673	-0.46%	0.00%	-0.46%	-0.38%	0.00%	-0.38%	-0.29%	0.00%	-0.29%
2034	81,786	-	81,786	84,324	-	84,324	86,946	-	86,946	0.10%	0.00%	0.10%	0.21%	0.00%	0.21%	0.32%	0.00%	0.32%
2035	81,852	-	81,852	84,461	-	84,461	87,157	-	87,157	0.08%	0.00%	0.08%	0.16%	0.00%	0.16%	0.24%	0.00%	0.24%
2036	82,369	-	82,369	85,065	-	85,065	87,855	-	87,855	0.63%	0.00%	0.63%	0.72%	0.00%	0.72%	0.80%	0.00%	0.80%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	-	1,237	1,237	-	1,243	1,243	-	1,249	1,249	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	-	1,239	1,239	-	1,248	1,248	-	1,256	1,256	0.00%	0.19%	0.19%	0.00%	0.39%	0.39%	0.00%	0.58%	0.58%
2019	-	1,242	1,242	-	1,253	1,253	-	1,265	1,265	0.00%	0.22%	0.22%	0.00%	0.44%	0.44%	0.00%	0.66%	0.66%
2020	-	1,244	1,244	-	1,257	1,257	-	1,271	1,271	0.00%	0.17%	0.17%	0.00%	0.33%	0.33%	0.00%	0.50%	0.50%
2021	-	1,246	1,246	-	1,262	1,262	-	1,278	1,278	0.00%	0.17%	0.17%	0.00%	0.34%	0.34%	0.00%	0.52%	0.52%
2022	-	1,248	1,248	-	1,266	1,266	-	1,284	1,284	0.00%	0.17%	0.17%	0.00%	0.35%	0.35%	0.00%	0.52%	0.52%
2023	-	1,250	1,250	-	1,270	1,270	-	1,290	1,290	0.00%	0.16%	0.16%	0.00%	0.31%	0.31%	0.00%	0.47%	0.47%
2024	-	1,252	1,252	-	1,274	1,274	-	1,296	1,296	0.00%	0.16%	0.16%	0.00%	0.31%	0.31%	0.00%	0.47%	0.47%
2025	-	1,254	1,254	-	1,278	1,278	-	1,303	1,303	0.00%	0.16%	0.16%	0.00%	0.32%	0.32%	0.00%	0.48%	0.48%
2026	-	1,256	1,256	-	1,282	1,282	-	1,309	1,309	0.00%	0.16%	0.16%	0.00%	0.33%	0.33%	0.00%	0.50%	0.50%
2027	-	1,258	1,258	-	1,286	1,286	-	1,315	1,315	0.00%	0.14%	0.14%	0.00%	0.28%	0.28%	0.00%	0.41%	0.41%
2028	-	1,260	1,260	-	1,290	1,290	-	1,320	1,320	0.00%	0.15%	0.15%	0.00%	0.29%	0.29%	0.00%	0.44%	0.44%
2029	-	1,261	1,261	-	1,293	1,293	-	1,326	1,326	0.00%	0.14%	0.14%	0.00%	0.29%	0.29%	0.00%	0.43%	0.43%
2030	-	1,263	1,263	-	1,296	1,296	-	1,331	1,331	0.00%	0.12%	0.12%	0.00%	0.23%	0.23%	0.00%	0.35%	0.35%
2031	-	1,264	1,264	-	1,300	1,300	-	1,336	1,336	0.00%	0.13%	0.13%	0.00%	0.27%	0.27%	0.00%	0.40%	0.40%
2032	-	1,266	1,266	-	1,303	1,303	-	1,341	1,341	0.00%	0.12%	0.12%	0.00%	0.25%	0.25%	0.00%	0.38%	0.38%
2033	-	1,267	1,267	-	1,305	1,305	-	1,344	1,344	0.00%	0.08%	0.08%	0.00%	0.17%	0.17%	0.00%	0.26%	0.26%
2034	-	1,268	1,268	-	1,308	1,308	-	1,349	1,349	0.00%	0.10%	0.10%	0.00%	0.21%	0.21%	0.00%	0.32%	0.32%
2035	-	1,269	1,269	-	1,310	1,310	-	1,352	1,352	0.00%	0.08%	0.08%	0.00%	0.16%	0.16%	0.00%	0.24%	0.24%
2036	-	1,271	1,271	-	1,312	1,312	-	1,355	1,355	0.00%	0.08%	0.08%	0.00%	0.17%	0.17%	0.00%	0.25%	0.25%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	51,675	28,057	79,732	51,818	28,319	80,137	51,961	28,582	80,543	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	51,747	28,140	79,887	51,962	28,486	80,448	52,177	28,835	81,012	0.14%	0.29%	0.19%	0.28%	0.59%	0.39%	0.42%	0.88%	0.58%
2019	51,817	28,244	80,061	52,103	28,696	80,799	52,390	29,154	81,543	0.14%	0.37%	0.22%	0.27%	0.74%	0.44%	0.41%	1.11%	0.66%
2020	52,172	28,461	80,633	52,532	28,979	81,511	52,894	29,504	82,399	0.69%	0.77%	0.71%	0.82%	0.99%	0.88%	0.96%	1.20%	1.05%
2021	51,957	28,373	80,331	52,385	28,960	81,344	52,815	29,556	82,371	-0.41%	-0.31%	-0.38%	-0.28%	-0.07%	-0.20%	-0.15%	0.18%	-0.03%
2022	52,027	28,442	80,469	52,525	29,100	81,625	53,028	29,771	82,799	0.13%	0.24%	0.17%	0.27%	0.48%	0.35%	0.40%	0.73%	0.52%
2023	52,095	28,500	80,595	52,663	29,218	81,882	53,237	29,953	83,189	0.13%	0.20%	0.16%	0.26%	0.41%	0.31%	0.39%	0.61%	0.47%
2024	52,448	28,715	81,164	53,089	29,499	82,588	53,737	30,301	84,038	0.68%	0.76%	0.71%	0.81%	0.96%	0.86%	0.94%	1.16%	1.02%
2025	52,230	28,621	80,850	52,935	29,466	82,402	53,650	30,334	83,984	-0.42%	-0.33%	-0.39%	-0.29%	-0.11%	-0.23%	-0.16%	0.11%	-0.07%
2026	52,295	28,689	80,983	53,067	29,606	82,673	53,849	30,550	84,399	0.12%	0.24%	0.16%	0.25%	0.48%	0.33%	0.37%	0.71%	0.50%
2027	52,356	28,738	81,094	53,192	29,709	82,900	54,039	30,709	84,748	0.12%	0.17%	0.14%	0.24%	0.35%	0.27%	0.35%	0.52%	0.41%
2028	52,704	28,954	81,658	53,608	29,992	83,599	54,526	31,063	85,589	0.66%	0.75%	0.70%	0.78%	0.95%	0.84%	0.90%	1.15%	0.99%
2029	52,476	28,853	81,328	53,435	29,946	83,381	54,410	31,076	85,487	-0.43%	-0.35%	-0.40%	-0.32%	-0.15%	-0.26%	-0.21%	0.04%	-0.12%
2030	52,531	28,892	81,422	53,547	30,026	83,573	54,582	31,202	85,784	0.10%	0.13%	0.12%	0.21%	0.27%	0.23%	0.31%	0.40%	0.35%
2031	52,583	28,949	81,531	53,653	30,145	83,798	54,743	31,387	86,130	0.10%	0.20%	0.13%	0.20%	0.39%	0.27%	0.30%	0.59%	0.40%
2032	52,914	29,166	82,080	54,036	30,430	84,466	55,180	31,746	86,926	0.63%	0.75%	0.67%	0.71%	0.95%	0.80%	0.80%	1.14%	0.92%
2033	52,667	29,034	81,701	53,826	30,323	84,148	55,008	31,665	86,673	-0.47%	-0.45%	-0.46%	-0.39%	-0.35%	-0.38%	-0.31%	-0.26%	-0.29%
2034	52,703	29,083	81,786	53,899	30,425	84,324	55,121	31,825	86,946	0.07%	0.17%	0.10%	0.14%	0.34%	0.21%	0.21%	0.51%	0.32%
2035	52,733	29,119	81,852	53,960	30,500	84,461	55,214	31,943	87,157	0.06%	0.12%	0.08%	0.11%	0.25%	0.16%	0.17%	0.37%	0.24%
2036	53,048	29,321	82,369	54,310	30,755	85,065	55,600	32,256	87,855	0.60%	0.69%	0.63%	0.65%	0.84%	0.72%	0.70%	0.98%	0.80%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	127	15	142	127	15	142	127	15	143	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	127	15	142	127	15	143	128	16	143	0.14%	0.29%	0.16%	0.28%	0.59%	0.31%	0.42%	0.88%	0.47%
2019	127	15	142	128	15	143	128	16	144	0.14%	0.37%	0.16%	0.27%	0.74%	0.32%	0.41%	1.11%	0.48%
2020	127	15	142	128	16	144	129	16	145	0.14%	0.22%	0.15%	0.28%	0.43%	0.29%	0.41%	0.65%	0.44%
2021	127	15	143	128	16	144	129	16	145	0.13%	0.24%	0.14%	0.26%	0.49%	0.29%	0.40%	0.73%	0.43%
2022	127	15	143	129	16	144	130	16	146	0.13%	0.24%	0.15%	0.27%	0.48%	0.29%	0.40%	0.73%	0.44%
2023	128	15	143	129	16	145	130	16	147	0.13%	0.20%	0.14%	0.26%	0.41%	0.28%	0.39%	0.61%	0.42%
2024	128	15	143	129	16	145	131	16	147	0.13%	0.20%	0.14%	0.26%	0.41%	0.28%	0.39%	0.61%	0.42%
2025	128	15	143	130	16	146	131	16	148	0.13%	0.22%	0.14%	0.25%	0.44%	0.28%	0.38%	0.66%	0.41%
2026	128	15	144	130	16	146	132	16	148	0.12%	0.24%	0.14%	0.25%	0.48%	0.27%	0.37%	0.71%	0.41%
2027	128	16	144	130	16	146	132	17	149	0.12%	0.17%	0.12%	0.24%	0.35%	0.25%	0.35%	0.52%	0.37%
2028	128	16	144	131	16	147	133	17	150	0.12%	0.20%	0.13%	0.23%	0.40%	0.25%	0.35%	0.60%	0.38%
2029	129	16	144	131	16	147	133	17	150	0.11%	0.20%	0.12%	0.22%	0.40%	0.24%	0.33%	0.60%	0.36%
2030	129	16	144	131	16	147	134	17	151	0.10%	0.13%	0.11%	0.21%	0.27%	0.22%	0.31%	0.40%	0.32%
2031	129	16	144	131	16	148	134	17	151	0.10%	0.20%	0.11%	0.20%	0.39%	0.22%	0.30%	0.59%	0.33%
2032	129	16	145	132	16	148	134	17	151	0.08%	0.20%	0.10%	0.17%	0.39%	0.19%	0.25%	0.59%	0.29%
2033	129	16	145	132	16	148	135	17	152	0.08%	0.10%	0.08%	0.15%	0.20%	0.16%	0.23%	0.29%	0.24%
2034	129	16	145	132	16	148	135	17	152	0.07%	0.17%	0.08%	0.14%	0.34%	0.16%	0.21%	0.51%	0.24%
2035	129	16	145	132	16	149	135	17	153	0.06%	0.12%	0.06%	0.11%	0.25%	0.13%	0.17%	0.37%	0.19%
2036	129	16	145	132	17	149	135	17	153	0.05%	0.14%	0.06%	0.10%	0.28%	0.12%	0.15%	0.42%	0.18%





20 Year Customer Growth Rate	
High:	7.05%
Medium:	4.64%
Low:	2.29%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

La Pine

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	318,810	144,888	463,699	327,001	148,485	475,486	335,295	152,126	487,422
2018	322,702	146,613	469,315	334,985	152,021	487,006	347,578	157,561	505,140
2019	326,566	148,330	474,896	343,009	155,583	498,592	360,067	163,101	523,168
2020	332,002	150,049	482,051	352,799	159,190	511,989	374,631	168,774	543,405
2021	334,288	151,770	486,057	359,327	162,841	522,168	385,917	174,582	560,499
2022	338,158	153,496	491,655	367,650	166,548	534,199	399,328	180,546	579,874
2023	342,014	155,220	497,235	376,037	170,290	546,327	412,995	186,632	599,627
2024	347,519	156,946	504,465	386,356	174,078	560,435	429,017	192,861	621,878
2025	349,716	158,671	508,387	393,070	177,904	570,974	441,216	199,221	640,438
2026	353,554	160,394	513,947	401,698	181,769	583,467	455,746	205,715	661,461
2027	357,395	162,119	519,514	410,428	185,682	596,109	470,605	212,358	682,963
2028	362,954	163,845	526,798	421,246	189,635	610,881	488,096	219,141	707,237
2029	365,074	165,574	530,648	428,161	193,639	621,800	501,272	226,083	727,355
2030	368,917	167,305	536,222	437,178	197,688	634,866	517,107	233,177	750,284
2031	372,765	169,037	541,803	446,300	201,783	648,083	533,295	240,422	773,717
2032	378,401	170,765	549,166	457,674	205,908	663,582	552,417	247,797	800,214
2033	380,440	172,491	552,931	464,773	210,073	674,846	566,578	255,316	821,894
2034	384,278	174,218	558,496	474,152	214,280	688,432	583,732	262,987	846,719
2035	388,121	175,946	564,067	483,639	218,531	702,170	601,254	270,816	872,070
2036	393,832	177,672	571,503	495,573	222,819	718,393	622,083	278,789	900,872

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.22%	1.19%	1.21%	2.44%	2.38%	2.42%	3.66%	3.57%	3.64%
2019	1.20%	1.17%	1.19%	2.40%	2.34%	2.38%	3.59%	3.52%	3.57%
2020	1.66%	1.16%	1.51%	2.85%	2.32%	2.69%	4.04%	3.48%	3.87%
2021	0.69%	1.15%	0.83%	1.85%	2.29%	1.99%	3.01%	3.44%	3.15%
2022	1.16%	1.14%	1.15%	2.32%	2.28%	2.30%	3.48%	3.42%	3.46%
2023	1.14%	1.12%	1.13%	2.28%	2.25%	2.27%	3.42%	3.37%	3.41%
2024	1.61%	1.11%	1.45%	2.74%	2.22%	2.58%	3.88%	3.34%	3.71%
2025	0.63%	1.10%	0.78%	1.74%	2.20%	1.88%	2.84%	3.30%	2.98%
2026	1.10%	1.09%	1.09%	2.20%	2.17%	2.19%	3.29%	3.26%	3.28%
2027	1.09%	1.08%	1.08%	2.17%	2.15%	2.17%	3.26%	3.23%	3.25%
2028	1.56%	1.06%	1.40%	2.64%	2.13%	2.48%	3.72%	3.19%	3.55%
2029	0.58%	1.06%	0.73%	1.64%	2.11%	1.79%	2.70%	3.17%	2.84%
2030	1.05%	1.05%	1.05%	2.11%	2.09%	2.10%	3.16%	3.14%	3.15%
2031	1.04%	1.04%	1.04%	2.09%	2.07%	2.08%	3.13%	3.11%	3.12%
2032	1.51%	1.02%	1.36%	2.55%	2.04%	2.39%	3.59%	3.07%	3.42%
2033	0.54%	1.01%	0.69%	1.55%	2.02%	1.70%	2.56%	3.03%	2.71%
2034	1.01%	1.00%	1.01%	2.02%	2.00%	2.01%	3.03%	3.00%	3.02%
2035	1.00%	0.99%	1.00%	2.00%	1.98%	2.00%	3.00%	2.98%	2.99%
2036	1.47%	0.98%	1.32%	2.47%	1.96%	2.31%	3.46%	2.94%	3.30%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	397	5,086	5,483	407	5,215	5,622	417	5,346	5,763
2018	402	5,148	5,549	416	5,341	5,758	432	5,540	5,971
2019	406	5,209	5,615	426	5,468	5,894	447	5,737	6,184
2020	411	5,270	5,681	436	5,597	6,033	462	5,939	6,402
2021	416	5,331	5,747	446	5,726	6,173	478	6,146	6,624
2022	421	5,392	5,813	456	5,858	6,314	495	6,358	6,853
2023	425	5,453	5,879	467	5,991	6,458	511	6,575	7,086
2024	430	5,515	5,945	477	6,125	6,602	528	6,796	7,324
2025	435	5,576	6,010	487	6,261	6,748	546	7,022	7,567
2026	439	5,637	6,076	498	6,398	6,896	564	7,252	7,815
2027	444	5,698	6,142	509	6,536	7,045	582	7,487	8,069
2028	449	5,759	6,207	520	6,676	7,196	600	7,728	8,328
2029	454	5,820	6,273	531	6,818	7,349	619	7,974	8,593
2030	458	5,881	6,339	542	6,961	7,503	639	8,225	8,864
2031	463	5,942	6,405	553	7,106	7,659	659	8,482	9,141
2032	468	6,003	6,471	564	7,252	7,816	679	8,743	9,422
2033	473	6,064	6,537	576	7,399	7,975	699	9,010	9,709
2034	477	6,125	6,602	587	7,548	8,135	721	9,282	10,002
2035	482	6,186	6,668	599	7,699	8,297	742	9,559	10,301
2036	487	6,247	6,734	610	7,851	8,461	764	9,842	10,606

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.19%	1.21%	1.21%	2.38%	2.42%	2.42%	3.57%	3.63%	3.62%
2019	1.17%	1.19%	1.19%	2.34%	2.38%	2.37%	3.52%	3.56%	3.56%
2020	1.16%	1.17%	1.17%	2.32%	2.35%	2.35%	3.48%	3.52%	3.52%
2021	1.15%	1.16%	1.16%	2.29%	2.32%	2.32%	3.44%	3.48%	3.48%
2022	1.14%	1.15%	1.15%	2.28%	2.30%	2.30%	3.42%	3.45%	3.45%
2023	1.12%	1.13%	1.13%	2.25%	2.27%	2.27%	3.37%	3.40%	3.40%
2024	1.11%	1.12%	1.12%	2.22%	2.24%	2.24%	3.34%	3.37%	3.36%
2025	1.10%	1.11%	1.11%	2.20%	2.21%	2.21%	3.30%	3.32%	3.32%
2026	1.09%	1.09%	1.09%	2.17%	2.19%	2.19%	3.26%	3.28%	3.28%
2027	1.08%	1.08%	1.08%	2.15%	2.17%	2.16%	3.23%	3.25%	3.25%
2028	1.06%	1.07%	1.07%	2.13%	2.14%	2.14%	3.19%	3.21%	3.21%
2029	1.06%	1.06%	1.06%	2.11%	2.12%	2.12%	3.17%	3.18%	3.18%
2030	1.05%	1.05%	1.05%	2.09%	2.10%	2.10%	3.14%	3.15%	3.15%
2031	1.04%	1.04%	1.04%	2.07%	2.08%	2.08%	3.11%	3.12%	3.12%
2032	1.02%	1.03%	1.03%	2.04%	2.05%	2.05%	3.07%	3.08%	3.08%
2033	1.01%	1.02%	1.02%	2.02%	2.03%	2.03%	3.03%	3.05%	3.05%
2034	1.00%	1.01%	1.01%	2.00%	2.01%	2.01%	3.00%	3.02%	3.02%
2035	0.99%	1.00%	1.00%	1.98%	1.99%	1.99%	2.98%	2.99%	2.99%
2036	0.98%	0.99%	0.99%	1.96%	1.97%	1.97%	2.94%	2.96%	2.96%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	120,428	343,271	463,699	122,993	352,493	475,486	125,585	361,837	487,422
2018	121,713	347,603	469,315	125,617	361,389	487,006	129,605	375,535	505,140
2019	123,009	351,888	474,896	128,293	370,299	498,592	133,745	389,423	523,168
2020	124,315	357,736	482,051	131,017	380,972	511,989	138,005	405,399	543,405
2021	125,631	360,426	486,057	133,792	388,377	522,168	142,389	418,110	560,499
2022	126,958	364,697	491,655	136,617	397,582	534,199	146,899	432,974	579,874
2023	128,293	368,942	497,235	139,491	406,836	546,327	151,535	448,092	599,627
2024	129,639	374,827	504,465	142,417	418,017	560,435	156,303	465,575	621,878
2025	130,992	377,394	508,387	145,391	425,583	570,974	161,199	479,239	640,438
2026	132,353	381,594	513,947	148,412	435,055	583,467	166,224	495,237	661,461
2027	133,721	385,793	519,514	151,479	444,631	596,109	171,376	511,588	682,963
2028	135,094	391,704	526,798	154,590	456,291	610,881	176,656	530,581	707,237
2029	136,473	394,175	530,648	157,747	464,053	621,800	182,067	545,288	727,355
2030	137,859	398,363	536,222	160,950	473,916	634,866	187,612	562,672	750,284
2031	139,241	402,561	541,803	164,179	483,904	648,083	193,257	580,460	773,717
2032	140,621	408,544	549,166	167,432	496,150	663,582	199,002	601,212	800,214
2033	141,999	410,932	552,931	170,713	504,132	674,846	204,851	617,043	821,894
2034	143,374	415,122	558,496	174,020	514,412	688,432	210,803	635,916	846,719
2035	144,747	419,321	564,067	177,351	524,819	702,170	216,857	655,213	872,070
2036	146,117	425,386	571,503	180,710	537,682	718,393	223,017	677,855	900,872

Annual Change

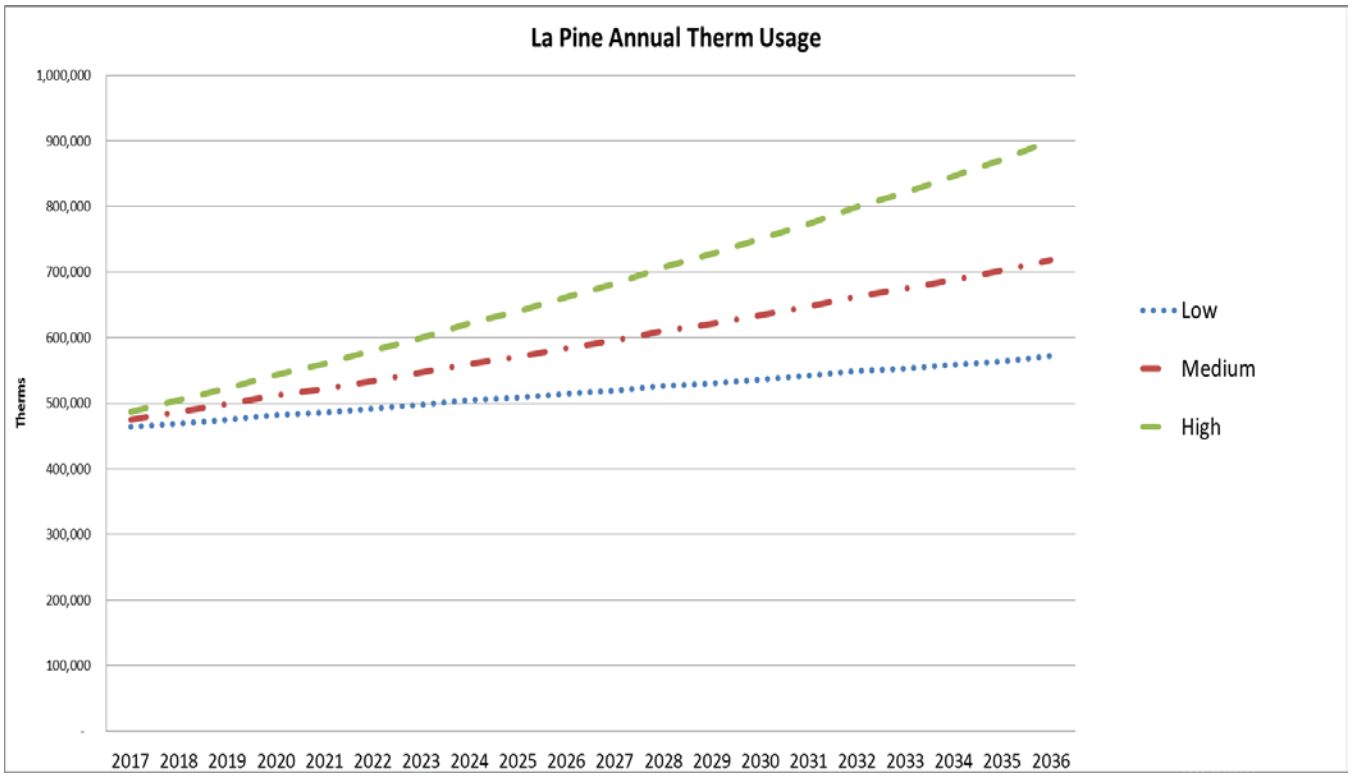
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.07%	1.26%	1.21%	2.13%	2.52%	2.42%	3.20%	3.79%	3.64%
2019	1.06%	1.23%	1.19%	2.13%	2.47%	2.38%	3.19%	3.70%	3.57%
2020	1.06%	1.66%	1.51%	2.12%	2.88%	2.69%	3.19%	4.10%	3.87%
2021	1.06%	0.75%	0.83%	2.12%	1.94%	1.99%	3.18%	3.14%	3.15%
2022	1.06%	1.19%	1.15%	2.11%	2.37%	2.30%	3.17%	3.56%	3.46%
2023	1.05%	1.16%	1.13%	2.10%	2.33%	2.27%	3.16%	3.49%	3.41%
2024	1.05%	1.60%	1.45%	2.10%	2.75%	2.58%	3.15%	3.90%	3.71%
2025	1.04%	0.69%	0.78%	2.09%	1.81%	1.88%	3.13%	2.93%	2.98%
2026	1.04%	1.11%	1.09%	2.08%	2.23%	2.19%	3.12%	3.34%	3.28%
2027	1.03%	1.10%	1.08%	2.07%	2.20%	2.17%	3.10%	3.30%	3.25%
2028	1.03%	1.53%	1.40%	2.05%	2.62%	2.48%	3.08%	3.71%	3.55%
2029	1.02%	0.63%	0.73%	2.04%	1.70%	1.79%	3.06%	2.77%	2.84%
2030	1.02%	1.06%	1.05%	2.03%	2.13%	2.10%	3.05%	3.19%	3.15%
2031	1.00%	1.05%	1.04%	2.01%	2.11%	2.08%	3.01%	3.16%	3.12%
2032	0.99%	1.49%	1.36%	1.98%	2.53%	2.39%	2.97%	3.58%	3.42%
2033	0.98%	0.58%	0.69%	1.96%	1.61%	1.70%	2.94%	2.63%	2.71%
2034	0.97%	1.02%	1.01%	1.94%	2.04%	2.01%	2.91%	3.06%	3.02%
2035	0.96%	1.01%	1.00%	1.91%	2.02%	2.00%	2.87%	3.03%	2.99%
2036	0.95%	1.45%	1.32%	1.89%	2.45%	2.31%	2.84%	3.46%	3.30%

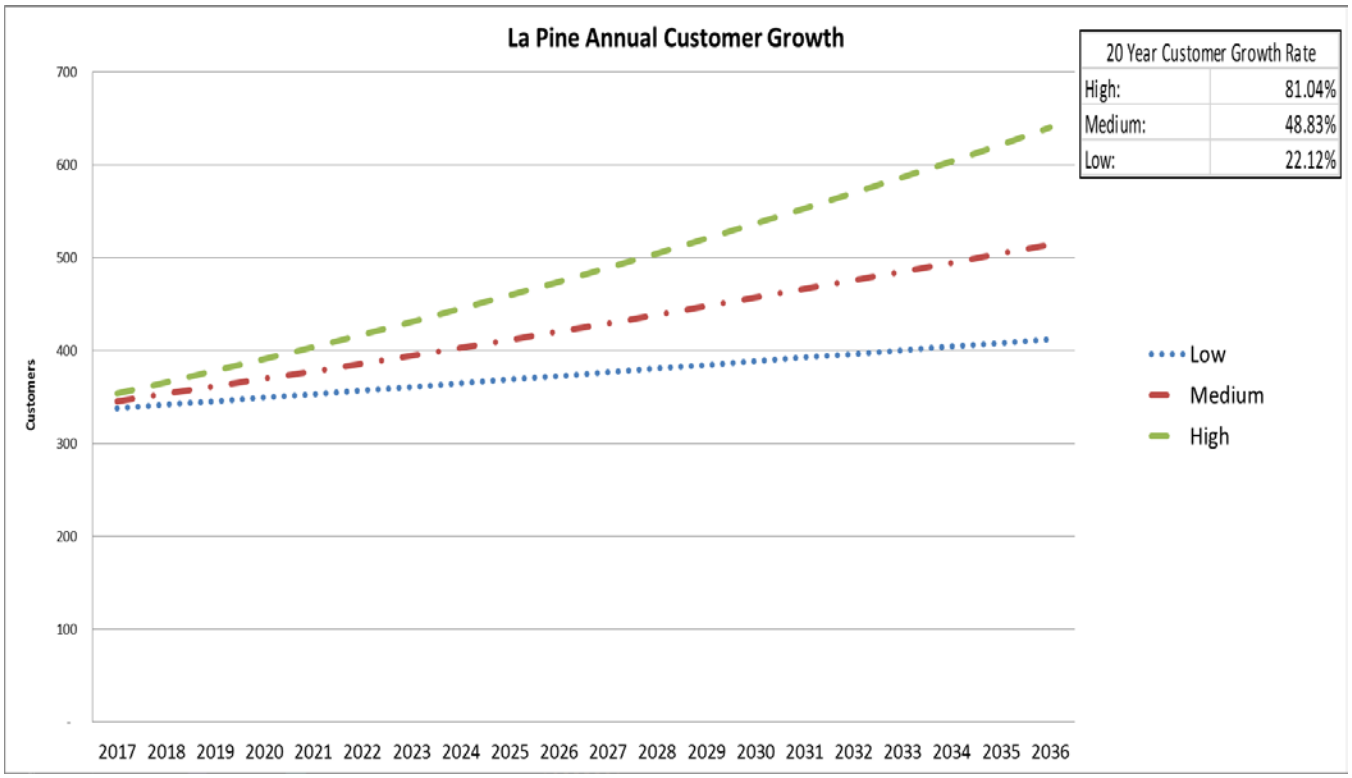
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	208	130	338	212	133	346	217	137	354
2018	210	131	342	217	137	354	224	142	366
2019	212	133	345	222	140	362	231	147	378
2020	215	135	349	226	143	370	238	153	391
2021	217	136	353	231	147	378	246	158	404
2022	219	138	357	236	150	386	254	164	417
2023	222	139	361	241	154	395	262	169	431
2024	224	141	365	246	157	403	270	175	445
2025	226	143	369	251	161	412	278	181	460
2026	229	144	373	256	164	421	287	187	474
2027	231	146	377	262	168	430	296	193	489
2028	233	147	381	267	172	439	305	200	505
2029	236	149	385	272	175	448	314	206	521
2030	238	151	389	278	179	457	324	213	537
2031	240	152	393	284	183	466	334	219	553
2032	243	154	397	289	187	476	344	226	570
2033	245	155	401	295	191	485	354	233	587
2034	248	157	405	301	194	495	364	240	604
2035	250	159	408	306	198	505	374	248	622
2036	252	160	412	312	202	514	385	255	640

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.07%	1.26%	1.14%	2.13%	2.52%	2.28%	3.20%	3.79%	3.43%
2019	1.06%	1.23%	1.13%	2.13%	2.47%	2.26%	3.19%	3.70%	3.39%
2020	1.06%	1.21%	1.12%	2.12%	2.43%	2.24%	3.19%	3.64%	3.36%
2021	1.06%	1.20%	1.11%	2.12%	2.39%	2.22%	3.18%	3.59%	3.34%
2022	1.06%	1.19%	1.11%	2.11%	2.37%	2.21%	3.17%	3.56%	3.32%
2023	1.05%	1.16%	1.10%	2.10%	2.33%	2.19%	3.16%	3.49%	3.29%
2024	1.05%	1.15%	1.09%	2.10%	2.30%	2.18%	3.15%	3.44%	3.26%
2025	1.04%	1.13%	1.08%	2.09%	2.26%	2.16%	3.13%	3.39%	3.23%
2026	1.04%	1.11%	1.07%	2.08%	2.23%	2.14%	3.12%	3.34%	3.20%
2027	1.03%	1.10%	1.06%	2.07%	2.20%	2.12%	3.10%	3.30%	3.18%
2028	1.03%	1.09%	1.05%	2.05%	2.17%	2.10%	3.08%	3.26%	3.15%
2029	1.02%	1.08%	1.04%	2.04%	2.15%	2.08%	3.06%	3.23%	3.13%
2030	1.02%	1.06%	1.03%	2.03%	2.13%	2.07%	3.05%	3.19%	3.10%
2031	1.00%	1.05%	1.02%	2.01%	2.11%	2.05%	3.01%	3.16%	3.07%
2032	0.99%	1.04%	1.01%	1.98%	2.08%	2.02%	2.97%	3.12%	3.03%
2033	0.98%	1.03%	1.00%	1.96%	2.06%	2.00%	2.94%	3.09%	3.00%
2034	0.97%	1.02%	0.99%	1.94%	2.04%	1.98%	2.91%	3.06%	2.97%
2035	0.96%	1.01%	0.98%	1.91%	2.02%	1.96%	2.87%	3.03%	2.94%
2036	0.95%	1.00%	0.97%	1.89%	2.00%	1.94%	2.84%	3.00%	2.90%





20 Year Customer Growth Rate	
High:	81.04%
Medium:	48.83%
Low:	22.12%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Madras

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	2,156,176	439,066	2,595,242	2,186,166	445,837	2,632,003	2,216,375	452,662	2,669,037
2018	2,169,429	442,148	2,611,577	2,213,066	452,102	2,665,168	2,257,322	462,211	2,719,532
2019	2,182,581	445,202	2,627,783	2,239,940	458,354	2,698,293	2,298,498	471,810	2,770,308
2020	2,205,887	448,087	2,653,974	2,276,471	464,306	2,740,777	2,348,983	481,017	2,829,999
2021	2,206,779	450,985	2,657,764	2,289,875	470,324	2,760,198	2,375,771	490,389	2,866,160
2022	2,218,490	453,856	2,672,346	2,314,276	476,329	2,790,605	2,413,896	499,806	2,913,702
2023	2,230,077	456,691	2,686,768	2,338,566	482,299	2,820,864	2,452,079	509,231	2,961,310
2024	2,252,628	459,477	2,712,105	2,374,139	488,205	2,862,343	2,502,027	518,618	3,020,645
2025	2,252,141	462,216	2,714,358	2,385,260	494,049	2,879,309	2,526,183	527,968	3,054,151
2026	2,263,174	465,017	2,728,191	2,408,823	500,062	2,908,885	2,563,919	537,649	3,101,568
2027	2,273,522	467,603	2,741,125	2,431,047	505,653	2,936,700	2,599,713	546,710	3,146,424
2028	2,295,603	470,324	2,765,927	2,466,182	511,569	2,977,751	2,649,866	556,356	3,206,222
2029	2,294,213	472,987	2,767,200	2,475,922	517,398	2,993,320	2,672,701	565,921	3,238,622
2030	2,304,352	475,586	2,779,937	2,498,082	523,118	3,021,200	2,709,025	575,362	3,284,387
2031	2,314,407	478,235	2,792,642	2,520,213	528,986	3,049,200	2,745,551	585,107	3,330,658
2032	2,336,060	480,852	2,816,912	2,554,934	534,817	3,089,751	2,795,884	594,848	3,390,732
2033	2,333,976	483,389	2,817,366	2,563,638	540,505	3,104,143	2,817,822	604,407	3,422,229
2034	2,343,447	485,882	2,829,329	2,584,820	546,124	3,130,943	2,853,352	613,902	3,467,255
2035	2,352,496	488,314	2,840,811	2,605,206	551,639	3,156,845	2,887,793	623,281	3,511,073
2036	2,373,766	490,791	2,864,557	2,639,519	557,283	3,196,802	2,938,199	632,922	3,571,121

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.61%	0.70%	0.63%	1.23%	1.41%	1.26%	1.85%	2.11%	1.89%
2019	0.61%	0.69%	0.62%	1.21%	1.38%	1.24%	1.82%	2.08%	1.87%
2020	1.07%	0.65%	1.00%	1.63%	1.30%	1.57%	2.20%	1.95%	2.15%
2021	0.04%	0.65%	0.14%	0.59%	1.30%	0.71%	1.14%	1.95%	1.28%
2022	0.53%	0.64%	0.55%	1.07%	1.28%	1.10%	1.60%	1.92%	1.66%
2023	0.52%	0.62%	0.54%	1.05%	1.25%	1.08%	1.58%	1.89%	1.63%
2024	1.01%	0.61%	0.94%	1.52%	1.22%	1.47%	2.04%	1.84%	2.00%
2025	-0.02%	0.60%	0.08%	0.47%	1.20%	0.59%	0.97%	1.80%	1.11%
2026	0.49%	0.61%	0.51%	0.99%	1.22%	1.03%	1.49%	1.83%	1.55%
2027	0.46%	0.56%	0.47%	0.92%	1.12%	0.96%	1.40%	1.69%	1.45%
2028	0.97%	0.58%	0.90%	1.45%	1.17%	1.40%	1.93%	1.76%	1.90%
2029	-0.06%	0.57%	0.05%	0.39%	1.14%	0.52%	0.86%	1.72%	1.01%
2030	0.44%	0.55%	0.46%	0.90%	1.11%	0.93%	1.36%	1.67%	1.41%
2031	0.44%	0.56%	0.46%	0.89%	1.12%	0.93%	1.35%	1.69%	1.41%
2032	0.94%	0.55%	0.87%	1.38%	1.10%	1.33%	1.83%	1.66%	1.80%
2033	-0.09%	0.53%	0.02%	0.34%	1.06%	0.47%	0.78%	1.61%	0.93%
2034	0.41%	0.52%	0.42%	0.83%	1.04%	0.86%	1.26%	1.57%	1.32%
2035	0.39%	0.50%	0.41%	0.79%	1.01%	0.83%	1.21%	1.53%	1.26%
2036	0.90%	0.51%	0.84%	1.32%	1.02%	1.27%	1.75%	1.55%	1.71%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	1,203	33,344	34,547	1,221	33,811	35,033	1,240	34,282	35,522
2018	1,211	33,551	34,762	1,239	34,231	35,470	1,266	34,922	36,188
2019	1,220	33,756	34,976	1,256	34,651	35,907	1,293	35,565	36,857
2020	1,228	33,947	35,175	1,272	35,044	36,316	1,318	36,170	37,488
2021	1,236	34,135	35,370	1,289	35,432	36,721	1,344	36,774	38,118
2022	1,243	34,318	35,561	1,305	35,814	37,119	1,369	37,371	38,740
2023	1,251	34,499	35,750	1,321	36,194	37,516	1,395	37,969	39,364
2024	1,259	34,675	35,934	1,338	36,565	37,902	1,421	38,555	39,976
2025	1,266	34,844	36,111	1,354	36,925	38,279	1,446	39,130	40,576
2026	1,274	35,017	36,291	1,370	37,294	38,664	1,473	39,721	41,194
2027	1,281	35,179	36,460	1,385	37,642	39,027	1,498	40,282	41,780
2028	1,289	35,344	36,632	1,402	37,999	39,400	1,524	40,861	42,385
2029	1,296	35,502	36,798	1,418	38,345	39,762	1,550	41,425	42,976
2030	1,303	35,661	36,964	1,433	38,691	40,124	1,576	41,994	43,571
2031	1,310	35,818	37,128	1,449	39,038	40,487	1,603	42,566	44,169
2032	1,317	35,973	37,291	1,465	39,381	40,846	1,630	43,137	44,767
2033	1,324	36,124	37,448	1,481	39,717	41,198	1,656	43,698	45,354
2034	1,331	36,272	37,603	1,496	40,048	41,544	1,682	44,254	45,936
2035	1,338	36,413	37,751	1,511	40,367	41,879	1,708	44,794	46,502
2036	1,345	36,559	37,904	1,527	40,698	42,225	1,734	45,355	47,089

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.70%	0.62%	0.62%	1.41%	1.24%	1.25%	2.11%	1.87%	1.87%
2019	0.69%	0.61%	0.61%	1.38%	1.23%	1.23%	2.08%	1.84%	1.85%
2020	0.65%	0.56%	0.57%	1.30%	1.13%	1.14%	1.95%	1.70%	1.71%
2021	0.65%	0.55%	0.56%	1.30%	1.11%	1.12%	1.95%	1.67%	1.68%
2022	0.64%	0.54%	0.54%	1.28%	1.08%	1.08%	1.92%	1.62%	1.63%
2023	0.62%	0.53%	0.53%	1.25%	1.06%	1.07%	1.89%	1.60%	1.61%
2024	0.61%	0.51%	0.51%	1.22%	1.02%	1.03%	1.84%	1.54%	1.56%
2025	0.60%	0.49%	0.49%	1.20%	0.99%	0.99%	1.80%	1.49%	1.50%
2026	0.61%	0.50%	0.50%	1.22%	1.00%	1.01%	1.83%	1.51%	1.52%
2027	0.56%	0.46%	0.47%	1.12%	0.93%	0.94%	1.69%	1.41%	1.42%
2028	0.58%	0.47%	0.47%	1.17%	0.95%	0.96%	1.76%	1.44%	1.45%
2029	0.57%	0.45%	0.45%	1.14%	0.91%	0.92%	1.72%	1.38%	1.39%
2030	0.55%	0.45%	0.45%	1.11%	0.90%	0.91%	1.67%	1.37%	1.38%
2031	0.56%	0.44%	0.44%	1.12%	0.89%	0.90%	1.69%	1.36%	1.37%
2032	0.55%	0.43%	0.44%	1.10%	0.88%	0.89%	1.66%	1.34%	1.35%
2033	0.53%	0.42%	0.42%	1.06%	0.85%	0.86%	1.61%	1.30%	1.31%
2034	0.52%	0.41%	0.41%	1.04%	0.83%	0.84%	1.57%	1.27%	1.28%
2035	0.50%	0.39%	0.39%	1.01%	0.80%	0.80%	1.53%	1.22%	1.23%
2036	0.51%	0.40%	0.40%	1.02%	0.82%	0.83%	1.55%	1.25%	1.26%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	597,767	1,997,475	2,595,242	603,766	2,028,237	2,632,003	609,794	2,059,242	2,669,037
2018	600,761	2,010,816	2,611,577	609,816	2,055,352	2,665,168	618,960	2,100,572	2,719,532
2019	603,755	2,024,028	2,627,783	615,892	2,082,401	2,698,293	628,212	2,142,096	2,770,308
2020	609,637	2,044,337	2,653,974	624,959	2,115,818	2,740,777	640,587	2,189,412	2,829,999
2021	609,723	2,048,041	2,657,764	628,098	2,132,101	2,760,198	646,932	2,219,228	2,866,160
2022	612,710	2,059,636	2,672,346	634,254	2,156,351	2,790,605	656,443	2,257,259	2,913,702
2023	615,684	2,071,085	2,686,768	640,409	2,180,455	2,820,864	666,000	2,295,310	2,961,310
2024	621,603	2,090,502	2,712,105	649,673	2,212,670	2,862,343	678,863	2,341,782	3,020,645
2025	621,600	2,092,757	2,714,358	652,747	2,226,562	2,879,309	685,292	2,368,860	3,054,151
2026	624,544	2,103,647	2,728,191	658,929	2,249,955	2,908,885	695,027	2,406,541	3,101,568
2027	627,449	2,113,677	2,741,125	665,059	2,271,641	2,936,700	704,725	2,441,699	3,146,424
2028	633,344	2,132,583	2,765,927	674,386	2,303,364	2,977,751	717,872	2,488,350	3,206,222
2029	633,206	2,133,994	2,767,200	677,291	2,316,029	2,993,320	724,212	2,514,410	3,238,622
2030	636,046	2,143,891	2,779,937	683,368	2,337,833	3,021,200	733,958	2,550,429	3,284,387
2031	638,825	2,153,817	2,792,642	689,338	2,359,861	3,049,200	743,578	2,587,081	3,330,658
2032	644,600	2,172,312	2,816,912	698,516	2,391,235	3,089,751	756,656	2,634,076	3,390,732
2033	644,200	2,173,166	2,817,366	700,963	2,403,180	3,104,143	762,426	2,659,803	3,422,229
2034	646,786	2,182,543	2,829,329	706,590	2,424,353	3,130,943	771,607	2,695,648	3,467,255
2035	649,325	2,191,486	2,840,811	712,138	2,444,707	3,156,845	780,695	2,730,379	3,511,073
2036	654,900	2,209,657	2,864,557	720,974	2,475,828	3,196,802	793,363	2,777,757	3,571,121

Annual Change

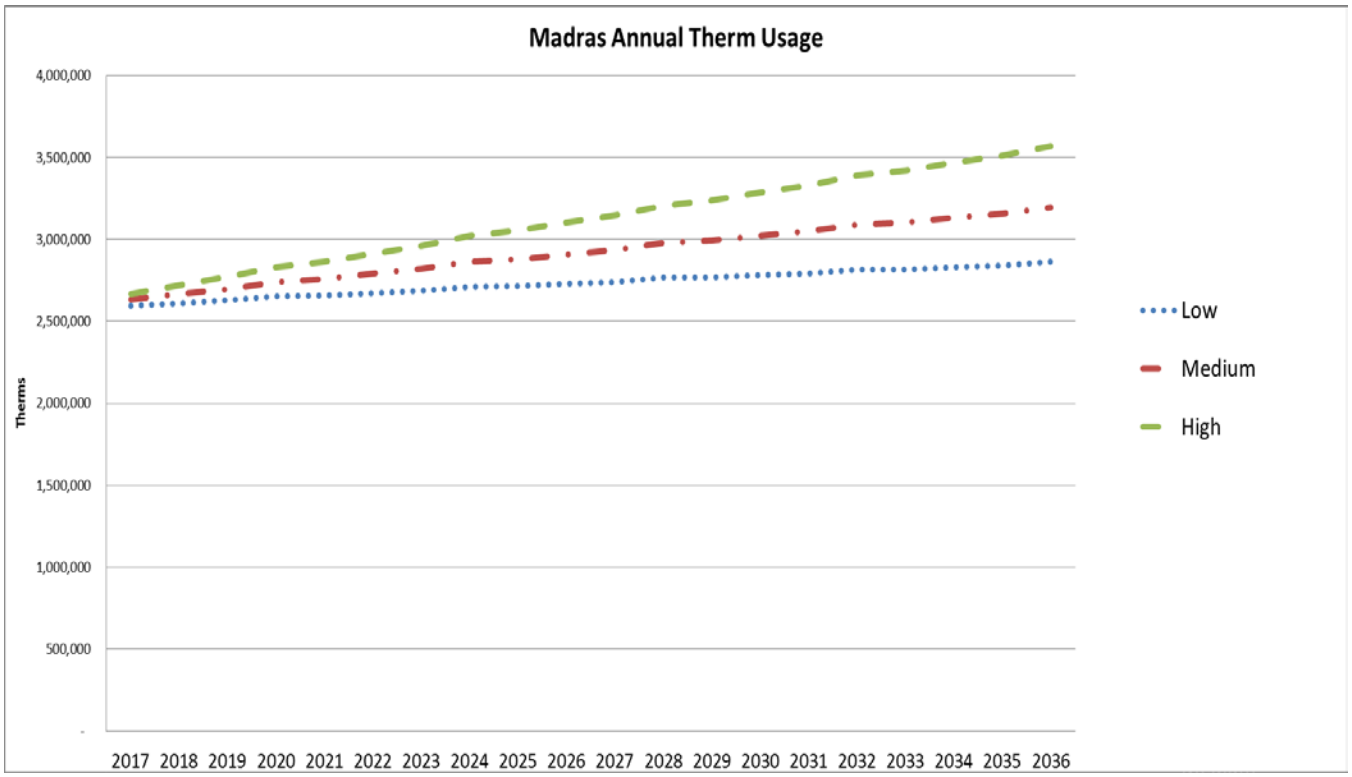
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.50%	0.67%	0.63%	1.00%	1.34%	1.26%	1.50%	2.01%	1.89%
2019	0.50%	0.66%	0.62%	1.00%	1.32%	1.24%	1.49%	1.98%	1.87%
2020	0.97%	1.00%	1.00%	1.47%	1.60%	1.57%	1.97%	2.21%	2.15%
2021	0.01%	0.18%	0.14%	0.50%	0.77%	0.71%	0.99%	1.36%	1.28%
2022	0.49%	0.57%	0.55%	0.98%	1.14%	1.10%	1.47%	1.71%	1.66%
2023	0.49%	0.56%	0.54%	0.97%	1.12%	1.08%	1.46%	1.69%	1.63%
2024	0.96%	0.94%	0.94%	1.45%	1.48%	1.47%	1.93%	2.02%	2.00%
2025	0.00%	0.11%	0.08%	0.47%	0.63%	0.59%	0.95%	1.16%	1.11%
2026	0.47%	0.52%	0.51%	0.95%	1.05%	1.03%	1.42%	1.59%	1.55%
2027	0.47%	0.48%	0.47%	0.93%	0.96%	0.96%	1.40%	1.46%	1.45%
2028	0.94%	0.89%	0.90%	1.40%	1.40%	1.40%	1.87%	1.91%	1.90%
2029	-0.02%	0.07%	0.05%	0.43%	0.55%	0.52%	0.88%	1.05%	1.01%
2030	0.45%	0.46%	0.46%	0.90%	0.94%	0.93%	1.35%	1.43%	1.41%
2031	0.44%	0.46%	0.46%	0.87%	0.94%	0.93%	1.31%	1.44%	1.41%
2032	0.90%	0.86%	0.87%	1.33%	1.33%	1.33%	1.76%	1.82%	1.80%
2033	-0.06%	0.04%	0.02%	0.35%	0.50%	0.47%	0.76%	0.98%	0.93%
2034	0.40%	0.43%	0.42%	0.80%	0.88%	0.86%	1.20%	1.35%	1.32%
2035	0.39%	0.41%	0.41%	0.79%	0.84%	0.83%	1.18%	1.29%	1.26%
2036	0.86%	0.83%	0.84%	1.24%	1.27%	1.27%	1.62%	1.74%	1.71%

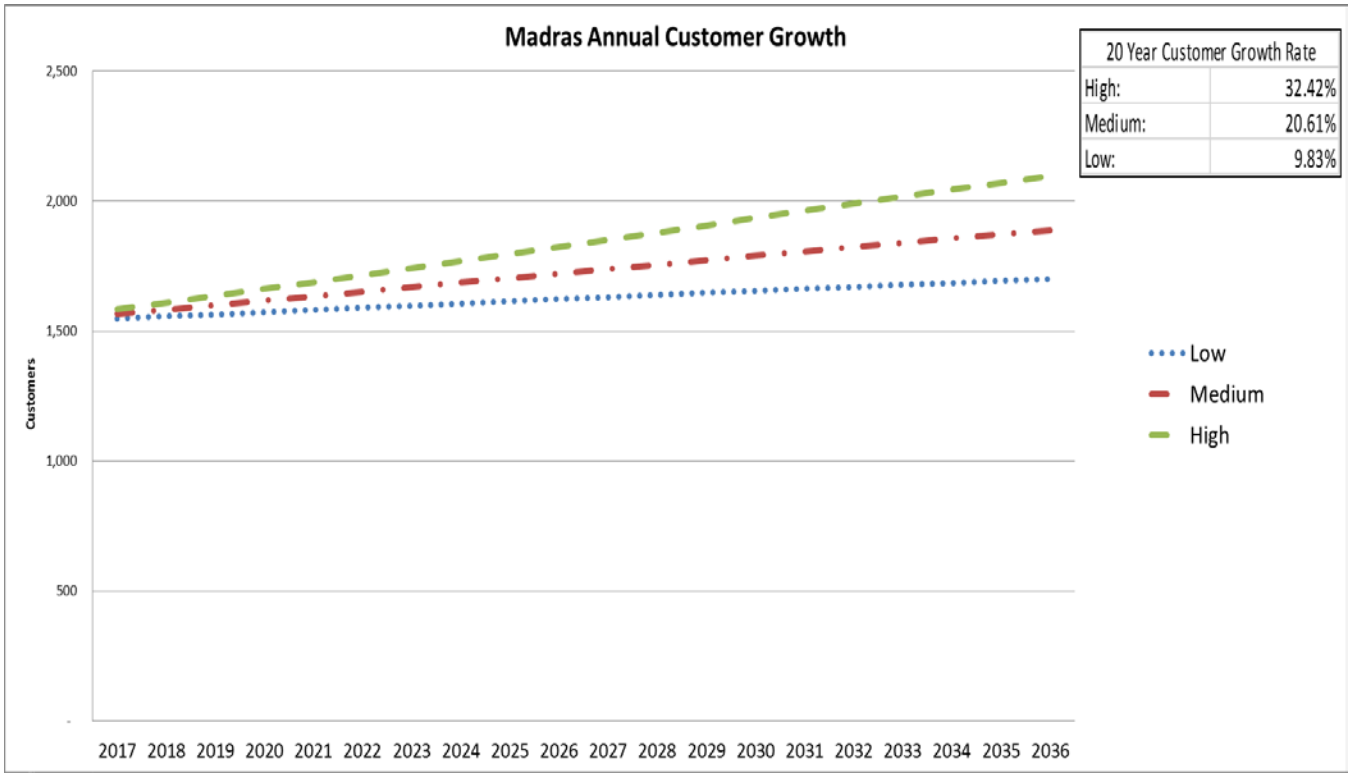
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,155	393	1,548	1,167	399	1,566	1,178	405	1,584
2018	1,161	396	1,557	1,178	405	1,583	1,196	414	1,610
2019	1,167	398	1,565	1,190	410	1,601	1,214	423	1,637
2020	1,172	401	1,573	1,202	416	1,618	1,232	431	1,663
2021	1,178	404	1,582	1,214	421	1,635	1,250	439	1,689
2022	1,184	406	1,590	1,226	426	1,652	1,269	448	1,716
2023	1,190	409	1,599	1,238	432	1,669	1,287	456	1,743
2024	1,195	411	1,607	1,249	437	1,687	1,306	464	1,770
2025	1,201	414	1,615	1,261	442	1,704	1,324	473	1,797
2026	1,207	416	1,623	1,273	448	1,721	1,343	482	1,825
2027	1,212	419	1,631	1,285	453	1,738	1,362	490	1,852
2028	1,218	421	1,639	1,297	459	1,756	1,381	499	1,879
2029	1,224	424	1,647	1,309	464	1,773	1,399	508	1,907
2030	1,229	426	1,655	1,321	469	1,790	1,418	517	1,935
2031	1,234	429	1,663	1,332	475	1,807	1,437	526	1,963
2032	1,240	431	1,671	1,343	480	1,824	1,455	535	1,990
2033	1,245	434	1,678	1,355	486	1,840	1,473	544	2,017
2034	1,250	436	1,686	1,365	491	1,857	1,491	553	2,044
2035	1,255	438	1,693	1,376	496	1,873	1,509	562	2,071
2036	1,260	441	1,700	1,387	502	1,889	1,526	571	2,097

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.50%	0.70%	0.55%	1.00%	1.41%	1.11%	1.50%	2.11%	1.66%
2019	0.50%	0.69%	0.55%	1.00%	1.38%	1.10%	1.49%	2.07%	1.64%
2020	0.50%	0.64%	0.53%	0.99%	1.28%	1.06%	1.49%	1.91%	1.60%
2021	0.49%	0.65%	0.53%	0.98%	1.30%	1.06%	1.47%	1.95%	1.60%
2022	0.49%	0.64%	0.53%	0.98%	1.28%	1.06%	1.47%	1.93%	1.59%
2023	0.49%	0.63%	0.52%	0.97%	1.26%	1.04%	1.46%	1.89%	1.57%
2024	0.48%	0.62%	0.52%	0.97%	1.24%	1.04%	1.45%	1.85%	1.55%
2025	0.48%	0.61%	0.51%	0.95%	1.22%	1.02%	1.43%	1.83%	1.53%
2026	0.47%	0.63%	0.51%	0.95%	1.26%	1.03%	1.42%	1.89%	1.54%
2027	0.47%	0.56%	0.49%	0.93%	1.12%	0.98%	1.40%	1.68%	1.47%
2028	0.46%	0.61%	0.50%	0.92%	1.21%	1.00%	1.38%	1.82%	1.50%
2029	0.45%	0.59%	0.49%	0.91%	1.19%	0.98%	1.36%	1.79%	1.48%
2030	0.45%	0.57%	0.48%	0.90%	1.14%	0.96%	1.35%	1.72%	1.44%
2031	0.44%	0.59%	0.48%	0.87%	1.19%	0.96%	1.31%	1.78%	1.44%
2032	0.43%	0.59%	0.47%	0.85%	1.17%	0.94%	1.28%	1.76%	1.41%
2033	0.41%	0.56%	0.45%	0.83%	1.12%	0.91%	1.24%	1.69%	1.36%
2034	0.40%	0.55%	0.44%	0.80%	1.11%	0.88%	1.20%	1.67%	1.33%
2035	0.39%	0.54%	0.43%	0.79%	1.08%	0.86%	1.18%	1.62%	1.30%
2036	0.38%	0.55%	0.42%	0.76%	1.11%	0.85%	1.14%	1.66%	1.28%





20 Year Customer Growth Rate	
High:	32.42%
Medium:	20.61%
Low:	9.83%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

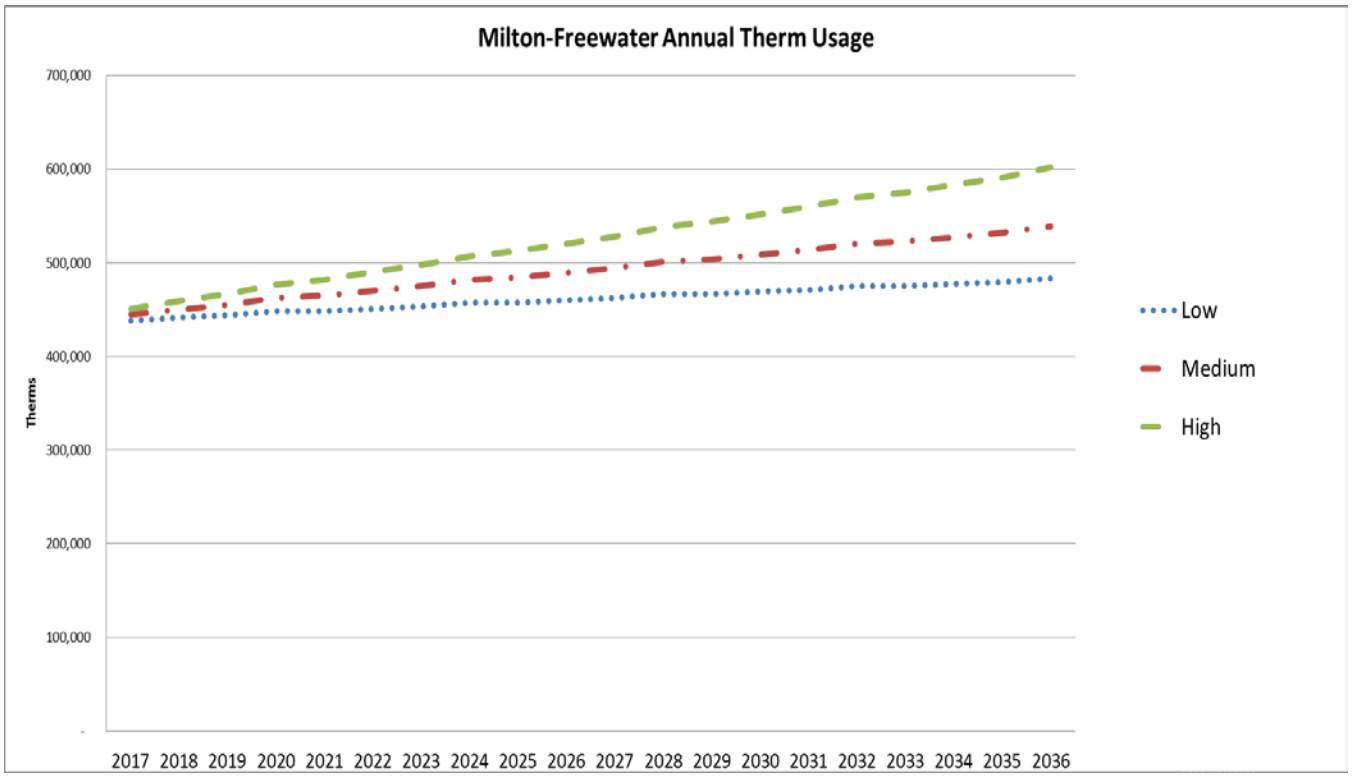
Milton-Freewater

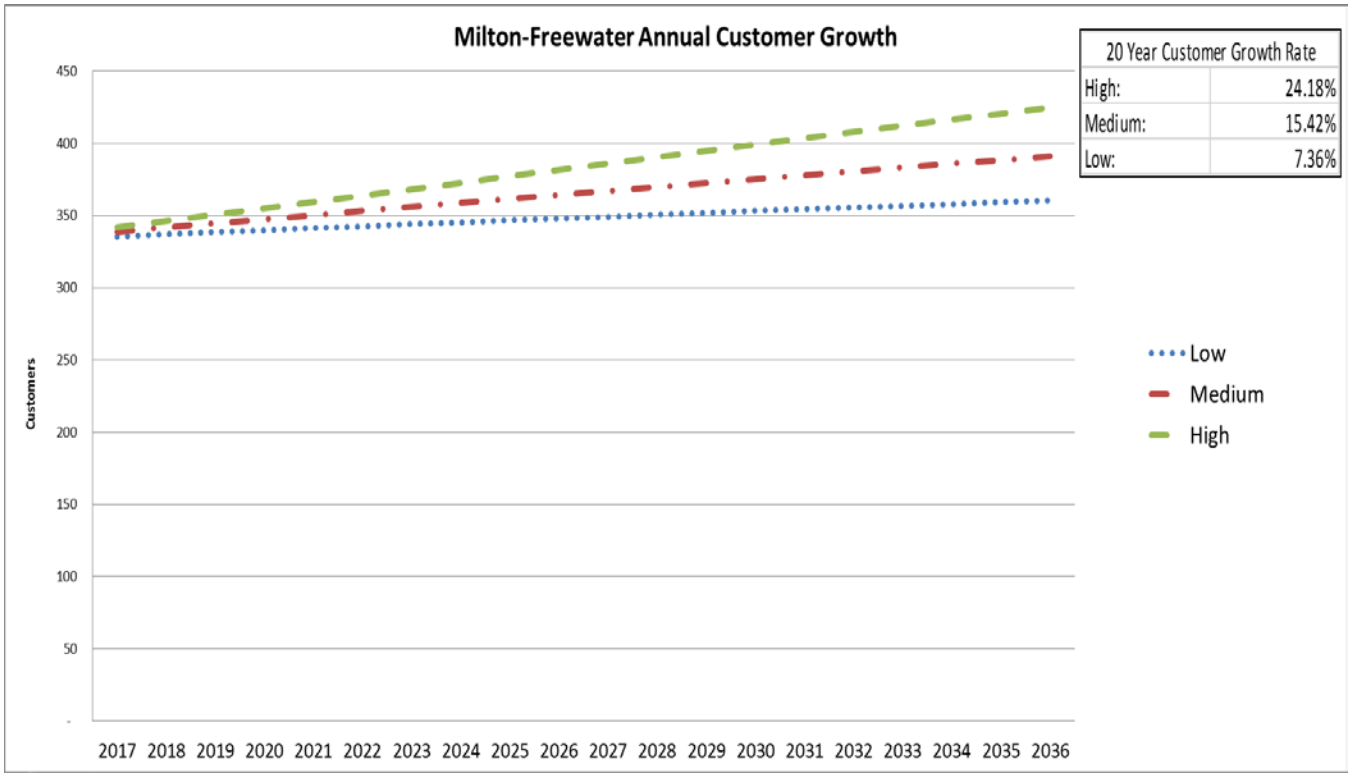
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	280,815	157,807	438,623	284,520	160,156	444,676	288,253	162,523	450,776	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	282,442	158,815	441,257	287,821	162,204	450,025	293,277	165,644	458,921	0.58%	0.64%	0.60%	1.16%	1.28%	1.20%	1.74%	1.92%	1.81%
2019	284,018	159,784	443,801	291,041	164,185	455,226	298,209	168,683	466,893	0.56%	0.61%	0.58%	1.12%	1.22%	1.16%	1.68%	1.83%	1.74%
2020	287,546	160,705	448,252	296,232	166,083	462,316	305,151	171,614	476,766	1.24%	0.58%	1.00%	1.78%	1.16%	1.56%	2.33%	1.74%	2.11%
2021	287,018	161,603	448,621	297,226	167,943	465,169	307,769	174,504	482,273	-0.18%	0.56%	0.08%	0.34%	1.12%	0.62%	0.86%	1.68%	1.16%
2022	288,490	162,487	450,978	300,286	169,788	470,074	312,540	177,388	489,928	0.51%	0.55%	0.53%	1.03%	1.10%	1.05%	1.55%	1.65%	1.59%
2023	289,923	163,344	453,266	303,280	171,584	474,864	317,234	180,214	497,448	0.50%	0.53%	0.51%	1.00%	1.06%	1.02%	1.50%	1.59%	1.53%
2024	293,419	164,202	457,621	308,474	173,395	481,869	324,290	183,080	507,369	1.21%	0.53%	0.96%	1.71%	1.06%	1.48%	2.22%	1.59%	1.99%
2025	292,796	165,054	457,849	309,337	175,204	484,542	326,810	185,960	512,770	-0.21%	0.52%	0.05%	0.28%	1.04%	0.55%	0.78%	1.57%	1.06%
2026	294,210	165,890	460,100	312,349	177,001	489,349	331,613	188,841	520,454	0.48%	0.51%	0.49%	0.97%	1.03%	0.99%	1.47%	1.55%	1.50%
2027	295,626	166,726	462,352	315,386	178,814	494,200	336,486	191,771	528,257	0.48%	0.50%	0.49%	0.97%	1.02%	0.99%	1.47%	1.55%	1.50%
2028	299,094	167,524	466,618	320,608	180,575	501,183	343,702	194,642	538,344	1.17%	0.48%	0.92%	1.66%	0.98%	1.41%	2.14%	1.50%	1.91%
2029	298,388	168,339	466,726	321,381	182,383	503,764	346,195	197,606	543,801	-0.24%	0.49%	0.02%	0.24%	1.00%	0.52%	0.73%	1.52%	1.01%
2030	299,760	169,142	468,903	324,386	184,177	508,563	351,099	200,564	551,663	0.46%	0.48%	0.47%	0.93%	0.98%	0.95%	1.42%	1.50%	1.45%
2031	301,118	169,932	471,050	327,384	185,969	513,353	356,026	203,545	559,571	0.45%	0.47%	0.46%	0.92%	0.97%	0.94%	1.40%	1.49%	1.43%
2032	304,593	170,711	475,304	332,697	187,748	520,445	363,500	206,520	570,020	1.15%	0.46%	0.90%	1.62%	0.96%	1.38%	2.10%	1.46%	1.87%
2033	303,777	171,483	475,260	333,312	189,530	522,842	365,849	209,523	575,371	-0.27%	0.45%	-0.01%	0.18%	0.95%	0.46%	0.65%	1.45%	0.94%
2034	305,055	172,223	477,278	336,193	191,261	527,453	370,664	212,461	583,124	0.42%	0.43%	0.42%	0.86%	0.91%	0.88%	1.32%	1.40%	1.35%
2035	306,323	172,961	479,284	339,067	192,996	532,063	375,494	215,421	590,915	0.42%	0.43%	0.42%	0.86%	0.91%	0.87%	1.30%	1.39%	1.34%
2036	309,762	173,697	483,459	344,373	194,736	539,109	383,065	218,406	601,471	1.12%	0.43%	0.87%	1.56%	0.90%	1.32%	2.02%	1.39%	1.79%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	432	5,342	5,774	439	5,412	5,851	445	5,482	5,928	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	435	5,373	5,808	444	5,474	5,918	454	5,577	6,031	0.64%	0.57%	0.58%	1.28%	1.15%	1.16%	1.92%	1.72%	1.74%
2019	438	5,402	5,840	450	5,534	5,984	462	5,669	6,131	0.61%	0.55%	0.56%	1.22%	1.10%	1.11%	1.83%	1.66%	1.67%
2020	440	5,431	5,871	455	5,593	6,048	470	5,759	6,229	0.58%	0.53%	0.53%	1.16%	1.05%	1.06%	1.74%	1.59%	1.60%
2021	443	5,458	5,901	460	5,650	6,110	478	5,848	6,326	0.56%	0.51%	0.51%	1.12%	1.03%	1.03%	1.68%	1.55%	1.56%
2022	445	5,486	5,931	465	5,707	6,172	486	5,937	6,423	0.55%	0.50%	0.51%	1.10%	1.01%	1.02%	1.65%	1.52%	1.53%
2023	448	5,512	5,960	470	5,763	6,233	494	6,025	6,519	0.53%	0.49%	0.49%	1.06%	0.98%	0.98%	1.59%	1.47%	1.48%
2024	450	5,539	5,989	475	5,819	6,294	502	6,114	6,615	0.53%	0.49%	0.49%	1.06%	0.98%	0.98%	1.59%	1.47%	1.48%
2025	452	5,566	6,018	480	5,876	6,356	509	6,203	6,712	0.52%	0.48%	0.48%	1.04%	0.97%	0.97%	1.57%	1.46%	1.47%
2026	454	5,592	6,047	485	5,932	6,417	517	6,292	6,810	0.51%	0.47%	0.47%	1.03%	0.95%	0.96%	1.55%	1.44%	1.45%
2027	457	5,618	6,075	490	5,988	6,478	525	6,383	6,908	0.50%	0.47%	0.47%	1.02%	0.95%	0.96%	1.55%	1.44%	1.45%
2028	459	5,644	6,103	495	6,043	6,538	533	6,472	7,005	0.48%	0.45%	0.45%	0.98%	0.92%	0.92%	1.50%	1.39%	1.40%
2029	461	5,669	6,131	500	6,099	6,599	541	6,563	7,105	0.49%	0.46%	0.46%	1.00%	0.93%	0.94%	1.52%	1.41%	1.42%
2030	463	5,695	6,158	505	6,155	6,660	549	6,654	7,204	0.48%	0.45%	0.45%	0.98%	0.91%	0.92%	1.50%	1.39%	1.40%
2031	466	5,720	6,185	510	6,211	6,720	558	6,746	7,303	0.47%	0.44%	0.44%	0.97%	0.90%	0.91%	1.49%	1.38%	1.38%
2032	468	5,744	6,212	514	6,266	6,780	566	6,837	7,403	0.46%	0.43%	0.43%	0.96%	0.88%	0.89%	1.46%	1.35%	1.36%
2033	470	5,768	6,238	519	6,320	6,840	574	6,928	7,502	0.45%	0.42%	0.42%	0.95%	0.88%	0.88%	1.45%	1.34%	1.35%
2034	472	5,792	6,264	524	6,374	6,898	582	7,018	7,600	0.43%	0.40%	0.41%	0.91%	0.84%	0.85%	1.40%	1.29%	1.30%
2035	474	5,815	6,289	529	6,427	6,956	590	7,107	7,698	0.43%	0.40%	0.40%	0.91%	0.83%	0.84%	1.39%	1.28%	1.29%
2036	476	5,838	6,314	534	6,480	7,013	598	7,197	7,796	0.43%	0.40%	0.40%	0.90%	0.83%	0.83%	1.39%	1.27%	1.28%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	106,780	331,843	438,623	107,447	337,229	444,676	108,116	342,660	450,776	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	107,113	334,144	441,257	108,117	341,909	450,025	109,127	349,794	458,921	0.31%	0.69%	0.60%	0.62%	1.39%	1.20%	0.94%	2.08%	1.81%
2019	107,447	336,355	443,801	108,791	346,435	455,226	110,148	356,745	466,893	0.31%	0.66%	0.58%	0.62%	1.32%	1.16%	0.94%	1.99%	1.74%
2020	108,358	339,894	448,252	110,053	352,263	462,316	111,769	364,996	476,766	0.85%	1.05%	1.00%	1.16%	1.68%	1.56%	1.47%	2.31%	2.11%
2021	108,113	340,509	448,621	110,142	355,027	465,169	112,203	370,070	482,273	-0.23%	0.18%	0.08%	0.08%	0.78%	0.62%	0.39%	1.39%	1.16%
2022	108,446	342,532	450,978	110,820	359,253	470,074	113,239	376,689	489,928	0.31%	0.59%	0.53%	0.62%	1.19%	1.05%	0.92%	1.79%	1.59%
2023	108,778	344,489	453,266	111,498	363,366	474,864	114,279	383,169	497,448	0.31%	0.57%	0.51%	0.61%	1.14%	1.02%	0.92%	1.72%	1.53%
2024	109,694	347,927	457,621	112,779	369,090	481,869	115,942	391,427	507,369	0.84%	1.00%	0.96%	1.15%	1.58%	1.48%	1.46%	2.16%	1.99%
2025	109,438	348,411	457,849	112,855	371,687	484,542	116,368	396,403	512,770	-0.23%	0.14%	0.05%	0.07%	0.70%	0.55%	0.37%	1.27%	1.06%
2026	109,764	350,336	460,100	113,526	375,823	489,349	117,406	403,048	520,454	0.30%	0.55%	0.49%	0.59%	1.11%	0.99%	0.89%	1.68%	1.50%
2027	110,086	352,265	462,352	114,194	380,006	494,200	118,441	409,816	528,257	0.29%	0.55%	0.49%	0.59%	1.11%	0.99%	0.88%	1.68%	1.50%
2028	110,997	355,620	466,618	115,471	385,712	501,183	120,111	418,233	538,344	0.83%	0.95%	0.92%	1.12%	1.50%	1.41%	1.41%	2.05%	1.91%
2029	110,721	356,005	466,726	115,512	388,253	503,764	120,495	423,306	543,801	-0.25%	0.11%	0.02%	0.04%	0.66%	0.52%	0.32%	1.21%	1.01%
2030	111,031	357,872	468,903	116,160	392,403	508,563	121,509	430,154	551,663	0.28%	0.52%	0.47%	0.56%	1.07%	0.95%	0.84%	1.62%	1.45%
2031	111,333	359,718	471,050	116,790	396,563	513,353	122,497	437,073	559,571	0.27%	0.52%	0.46%	0.54%	1.06%	0.94%	0.81%	1.61%	1.43%
2032	112,221	363,084	475,304	118,027	402,418	520,445	124,116	445,905	570,020	0.80%	0.94%	0.90%	1.06%	1.48%	1.38%	1.32%	2.02%	1.87%
2033	111,902	363,358	475,260	117,987	404,855	522,842	124,383	450,988	575,371	-0.28%	0.08%	-0.01%	-0.03%	0.61%	0.46%	0.22%	1.14%	0.94%
2034	112,172	365,105	477,278	118,557	408,897	527,453	125,284	457,840	583,124	0.24%	0.48%	0.42%	0.48%	1.00%	0.88%	0.72%	1.52%	1.35%
2035	112,433	366,851	479,284	119,107	412,956	532,063	126,156	464,759	590,915	0.23%	0.48%	0.42%	0.46%	0.99%	0.87%	0.70%	1.51%	1.34%
2036	113,288	370,171	483,459	120,281	418,829	539,109	127,683	473,788	601,471	0.76%	0.91%	0.87%	0.99%	1.42%	1.32%	1.21%	1.94%	1.79%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	229	107	336	230	108	339	232	110	342	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	230	107	337	232	110	342	234	112	346	0.31%	0.70%	0.44%	0.62%	1.40%	0.87%	0.94%	2.10%	1.31%
2019	230	108	338	233	111	345	236	115	351	0.31%	0.67%	0.43%	0.62%	1.34%	0.85%	0.94%	2.01%	1.28%
2020	231	109	340	235	113	347	238	117	355	0.31%	0.63%	0.41%	0.62%	1.27%	0.83%	0.93%	1.90%	1.25%
2021	232	109	341	236	114	350	241	119	360	0.31%	0.61%	0.41%	0.62%	1.23%	0.82%	0.93%	1.85%	1.23%
2022	232	110	343	238	116	353	243	121	364	0.31%	0.60%	0.40%	0.62%	1.21%	0.81%	0.92%	1.81%	1.22%
2023	233	111	344	239	117	356	245	123	368	0.31%	0.58%	0.39%	0.61%	1.16%	0.79%	0.92%	1.75%	1.19%
2024	234	111	345	240	118	359	247	126	373	0.30%	0.58%	0.39%	0.61%	1.16%	0.79%	0.91%	1.75%	1.19%
2025	235	112	347	242	120	362	249	128	377	0.30%	0.57%	0.39%	0.60%	1.15%	0.78%	0.91%	1.73%	1.18%
2026	235	113	348	243	121	364	252	130	382	0.30%	0.56%	0.38%	0.59%	1.13%	0.77%	0.89%	1.70%	1.17%
2027	236	113	349	245	122	367	254	132	386	0.29%	0.56%	0.38%	0.59%	1.13%	0.77%	0.88%	1.71%	1.16%
2028	237	114	351	246	124	370	256	134	390	0.29%	0.54%	0.37%	0.58%	1.09%	0.75%	0.87%	1.64%	1.13%
2029	237	115	352	248	125	373	258	136	395	0.29%	0.55%	0.37%	0.57%	1.11%	0.75%	0.86%	1.67%	1.14%
2030	238	115	353	249	126	375	261	139	399	0.28%	0.54%	0.36%	0.56%	1.09%	0.74%	0.84%	1.64%	1.12%
2031	239	116	354	250	128	378	263	141	404	0.27%	0.53%	0.36%	0.54%	1.08%	0.72%	0.81%	1.63%	1.10%
2032	239	116	356	252	129	381	265	143	408	0.26%	0.52%	0.35%	0.52%	1.06%	0.70%	0.78%	1.61%	1.07%
2033	240	117	357	253	131	383	267	146	412	0.25%	0.52%	0.34%	0.50%	1.06%	0.69%	0.75%	1.60%	1.05%
2034	240	118	358	254	132	386	269	148	416	0.24%	0.49%	0.32%	0.48%	1.02%	0.66%	0.72%	1.54%	1.01%
2035	241	118	359	255	133	389	270	150	421	0.23%	0.49%	0.32%	0.46%	1.01%	0.65%	0.70%	1.53%	0.99%
2036	242	119	360	256	135	391	272	152	425	0.22%	0.49%	0.31%	0.45%	1.01%	0.64%	0.67%	1.53%	0.98%





20 Year Customer Growth Rate	
High:	24.18%
Medium:	15.42%
Low:	7.36%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Mission Tap

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	287,184	178,729	465,913	291,065	181,277	472,342	294,975	183,845	478,820
2018	289,005	179,921	468,926	294,761	183,698	478,459	300,601	187,530	488,131
2019	290,821	181,110	471,931	298,473	186,128	484,601	306,288	191,257	497,545
2020	294,709	182,283	476,992	304,325	188,543	492,869	314,214	194,986	509,199
2021	294,402	183,452	477,853	305,863	190,967	496,830	317,727	198,753	516,480
2022	296,224	184,645	480,869	309,662	193,457	503,119	323,666	202,649	526,316
2023	297,988	185,798	483,786	313,364	195,880	509,244	329,491	206,467	535,957
2024	301,932	186,975	488,907	319,433	198,368	517,801	337,908	210,412	548,320
2025	301,593	188,158	489,751	321,003	200,888	521,892	341,628	214,436	556,064
2026	303,372	189,323	492,695	324,810	203,385	528,195	347,736	218,448	566,183
2027	305,174	190,504	495,678	328,691	205,933	534,623	354,002	222,568	576,570
2028	309,114	191,644	500,757	334,847	208,408	543,255	362,716	226,598	589,315
2029	308,683	192,802	501,486	336,320	210,940	547,260	366,437	230,747	597,184
2030	310,442	193,956	504,398	340,180	213,477	553,657	372,788	234,930	607,718
2031	312,195	195,107	507,302	344,050	216,025	560,075	379,197	239,158	618,355
2032	316,159	196,234	512,393	350,358	218,536	568,894	388,317	243,352	631,670
2033	315,622	197,360	512,982	351,690	221,060	572,750	391,965	247,594	639,559
2034	317,283	198,453	515,736	355,426	223,526	578,952	398,268	251,763	650,031
2035	318,924	199,534	518,459	359,141	225,980	585,121	404,570	255,937	660,507
2036	322,848	200,608	523,456	365,447	228,430	593,877	413,842	260,129	673,971

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.63%	0.67%	0.65%	1.27%	1.34%	1.29%	1.91%	2.00%	1.94%
2019	0.63%	0.66%	0.64%	1.26%	1.32%	1.28%	1.89%	1.99%	1.93%
2020	1.34%	0.65%	1.07%	1.96%	1.30%	1.71%	2.59%	1.95%	2.34%
2021	-0.10%	0.64%	0.18%	0.51%	1.29%	0.80%	1.12%	1.93%	1.43%
2022	0.62%	0.65%	0.63%	1.24%	1.30%	1.27%	1.87%	1.96%	1.90%
2023	0.60%	0.62%	0.61%	1.20%	1.25%	1.22%	1.80%	1.88%	1.83%
2024	1.32%	0.63%	1.06%	1.94%	1.27%	1.68%	2.55%	1.91%	2.31%
2025	-0.11%	0.63%	0.17%	0.49%	1.27%	0.79%	1.10%	1.91%	1.41%
2026	0.59%	0.62%	0.60%	1.19%	1.24%	1.21%	1.79%	1.87%	1.82%
2027	0.59%	0.62%	0.61%	1.19%	1.25%	1.22%	1.80%	1.89%	1.83%
2028	1.29%	0.60%	1.02%	1.87%	1.20%	1.61%	2.46%	1.81%	2.21%
2029	-0.14%	0.60%	0.15%	0.44%	1.22%	0.74%	1.03%	1.83%	1.34%
2030	0.57%	0.60%	0.58%	1.15%	1.20%	1.17%	1.73%	1.81%	1.76%
2031	0.56%	0.59%	0.58%	1.14%	1.19%	1.16%	1.72%	1.80%	1.75%
2032	1.27%	0.58%	1.00%	1.83%	1.16%	1.57%	2.41%	1.75%	2.15%
2033	-0.17%	0.57%	0.11%	0.38%	1.15%	0.68%	0.94%	1.74%	1.25%
2034	0.53%	0.55%	0.54%	1.06%	1.12%	1.08%	1.61%	1.68%	1.64%
2035	0.52%	0.54%	0.53%	1.05%	1.10%	1.07%	1.58%	1.66%	1.61%
2036	1.23%	0.54%	0.96%	1.76%	1.08%	1.50%	2.29%	1.64%	2.04%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	490	5,095	5,585	497	5,164	5,661	504	5,234	5,737
2018	493	5,128	5,620	503	5,230	5,733	514	5,334	5,848
2019	496	5,160	5,656	510	5,296	5,806	524	5,435	5,959
2020	499	5,192	5,691	517	5,362	5,878	534	5,536	6,070
2021	503	5,224	5,726	523	5,427	5,951	545	5,639	6,183
2022	506	5,256	5,762	530	5,495	6,025	555	5,744	6,299
2023	509	5,287	5,796	537	5,561	6,098	566	5,848	6,413
2024	512	5,319	5,832	543	5,628	6,172	576	5,955	6,531
2025	516	5,351	5,867	550	5,697	6,247	587	6,064	6,651
2026	519	5,383	5,902	557	5,765	6,322	598	6,172	6,771
2027	522	5,415	5,937	564	5,834	6,398	610	6,284	6,894
2028	525	5,446	5,971	571	5,901	6,472	621	6,393	7,014
2029	528	5,478	6,006	578	5,969	6,547	632	6,505	7,137
2030	531	5,509	6,040	585	6,038	6,623	644	6,618	7,262
2031	535	5,540	6,075	592	6,107	6,699	655	6,732	7,387
2032	538	5,571	6,108	599	6,175	6,773	667	6,845	7,512
2033	541	5,601	6,142	606	6,243	6,848	678	6,959	7,638
2034	544	5,631	6,174	612	6,309	6,922	690	7,072	7,761
2035	547	5,660	6,206	619	6,375	6,994	701	7,184	7,885
2036	550	5,689	6,238	626	6,441	7,067	713	7,296	8,009

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.67%	0.64%	0.64%	1.34%	1.27%	1.28%	2.00%	1.91%	1.92%
2019	0.66%	0.63%	0.63%	1.32%	1.26%	1.27%	1.99%	1.90%	1.90%
2020	0.65%	0.62%	0.62%	1.30%	1.24%	1.24%	1.95%	1.86%	1.87%
2021	0.64%	0.61%	0.61%	1.29%	1.23%	1.23%	1.93%	1.85%	1.85%
2022	0.65%	0.62%	0.62%	1.30%	1.25%	1.25%	1.96%	1.87%	1.88%
2023	0.62%	0.60%	0.60%	1.25%	1.20%	1.20%	1.88%	1.80%	1.81%
2024	0.63%	0.60%	0.61%	1.27%	1.21%	1.22%	1.91%	1.83%	1.84%
2025	0.63%	0.60%	0.61%	1.27%	1.21%	1.22%	1.91%	1.83%	1.84%
2026	0.62%	0.59%	0.59%	1.24%	1.19%	1.19%	1.87%	1.79%	1.80%
2027	0.62%	0.60%	0.60%	1.25%	1.20%	1.20%	1.89%	1.81%	1.81%
2028	0.60%	0.57%	0.57%	1.20%	1.15%	1.16%	1.81%	1.74%	1.74%
2029	0.60%	0.58%	0.58%	1.22%	1.16%	1.17%	1.83%	1.75%	1.76%
2030	0.60%	0.57%	0.57%	1.20%	1.15%	1.16%	1.81%	1.74%	1.74%
2031	0.59%	0.57%	0.57%	1.19%	1.14%	1.15%	1.80%	1.72%	1.73%
2032	0.58%	0.55%	0.55%	1.16%	1.11%	1.12%	1.75%	1.68%	1.69%
2033	0.57%	0.55%	0.55%	1.15%	1.10%	1.11%	1.74%	1.67%	1.67%
2034	0.55%	0.53%	0.53%	1.12%	1.07%	1.07%	1.68%	1.61%	1.62%
2035	0.54%	0.52%	0.52%	1.10%	1.05%	1.05%	1.66%	1.59%	1.59%
2036	0.54%	0.51%	0.51%	1.08%	1.03%	1.04%	1.64%	1.57%	1.57%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	105,987	359,926	465,913	106,649	365,693	472,342	107,313	371,507	478,820
2018	106,318	362,608	468,926	107,314	371,145	478,459	108,317	379,814	488,131
2019	106,649	365,282	471,931	107,983	376,617	484,601	109,330	388,215	497,545
2020	107,481	369,510	476,992	109,163	383,706	492,869	110,866	398,334	509,199
2021	107,310	370,543	477,853	109,324	387,506	496,830	111,370	405,110	516,480
2022	107,641	373,228	480,869	109,998	393,122	503,119	112,399	413,917	526,316
2023	107,970	375,816	483,786	110,671	398,573	509,244	113,431	422,527	535,957
2024	108,807	380,100	488,907	111,867	405,934	517,801	115,004	433,316	548,320
2025	108,626	381,125	489,751	112,017	409,874	521,892	115,504	440,560	556,064
2026	108,949	383,746	492,695	112,684	415,512	528,195	116,535	449,649	566,183
2027	109,269	386,409	495,678	113,346	421,277	534,623	117,562	459,008	576,570
2028	110,099	390,658	500,757	114,537	428,718	543,255	119,140	470,175	589,315
2029	109,899	391,587	501,486	114,654	432,605	547,260	119,600	477,583	597,184
2030	110,207	394,191	504,398	115,298	438,359	553,657	120,607	487,111	607,718
2031	110,506	396,795	507,302	115,923	444,152	560,075	121,588	496,767	618,355
2032	111,313	401,080	512,393	117,073	451,821	568,894	123,112	508,558	631,670
2033	111,072	401,910	512,982	117,111	455,638	572,750	123,460	516,099	639,559
2034	111,340	404,396	515,736	117,677	461,276	578,952	124,354	525,677	650,031
2035	111,598	406,861	518,459	118,223	466,898	585,121	125,220	535,288	660,507
2036	112,372	411,084	523,456	119,308	474,569	593,877	126,650	547,321	673,971

Annual Change

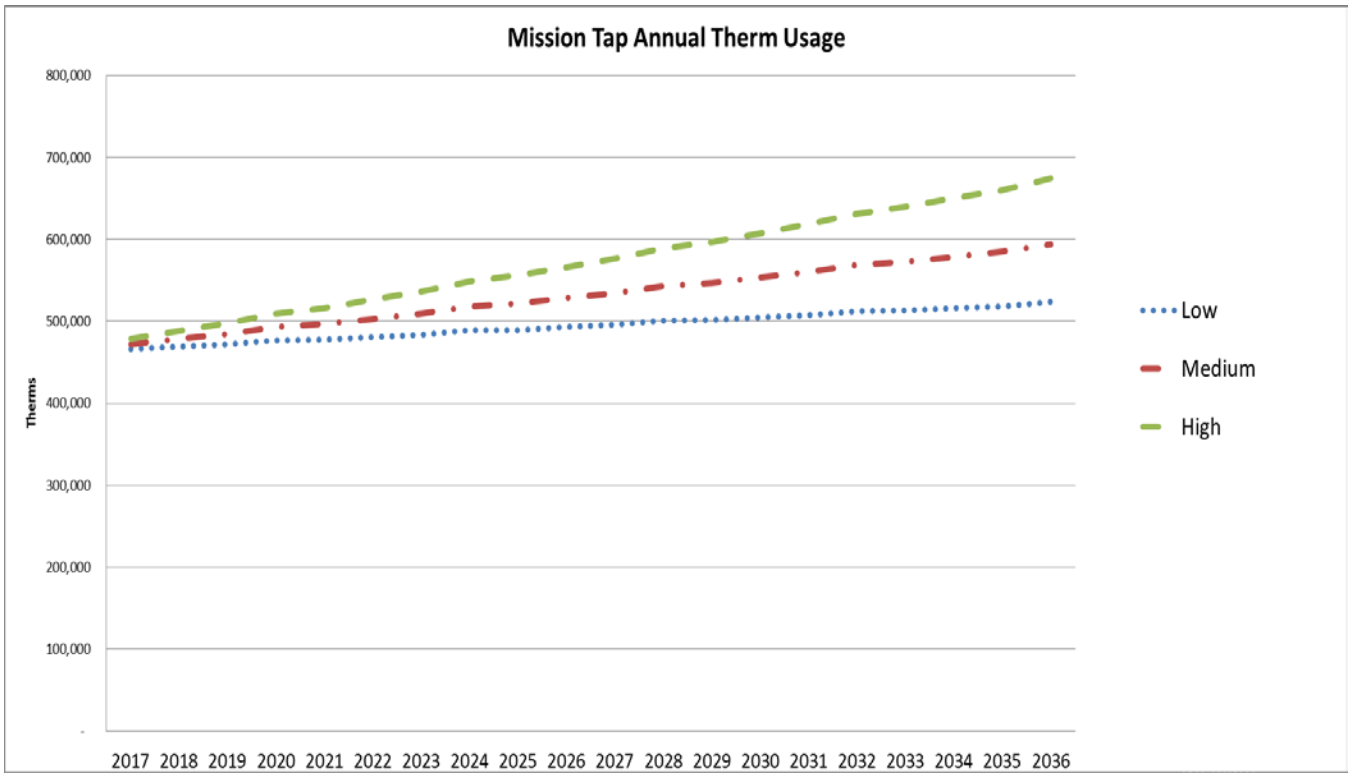
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.75%	0.65%	0.62%	1.49%	1.29%	0.94%	2.24%	1.94%
2019	0.31%	0.74%	0.64%	0.62%	1.47%	1.28%	0.94%	2.21%	1.93%
2020	0.78%	1.16%	1.07%	1.09%	1.88%	1.71%	1.40%	2.61%	2.34%
2021	-0.16%	0.28%	0.18%	0.15%	0.99%	0.80%	0.45%	1.70%	1.43%
2022	0.31%	0.72%	0.63%	0.62%	1.45%	1.27%	0.92%	2.17%	1.90%
2023	0.31%	0.69%	0.61%	0.61%	1.39%	1.22%	0.92%	2.08%	1.83%
2024	0.77%	1.14%	1.06%	1.08%	1.85%	1.68%	1.39%	2.55%	2.31%
2025	-0.17%	0.27%	0.17%	0.13%	0.97%	0.79%	0.43%	1.67%	1.41%
2026	0.30%	0.69%	0.60%	0.59%	1.38%	1.21%	0.89%	2.06%	1.82%
2027	0.29%	0.69%	0.61%	0.59%	1.39%	1.22%	0.88%	2.08%	1.83%
2028	0.76%	1.10%	1.02%	1.05%	1.77%	1.61%	1.34%	2.43%	2.21%
2029	-0.18%	0.24%	0.15%	0.10%	0.91%	0.74%	0.39%	1.58%	1.34%
2030	0.28%	0.67%	0.58%	0.56%	1.33%	1.17%	0.84%	2.00%	1.76%
2031	0.27%	0.66%	0.58%	0.54%	1.32%	1.16%	0.81%	1.98%	1.75%
2032	0.73%	1.08%	1.00%	0.99%	1.73%	1.57%	1.25%	2.37%	2.15%
2033	-0.22%	0.21%	0.11%	0.03%	0.84%	0.68%	0.28%	1.48%	1.25%
2034	0.24%	0.62%	0.54%	0.48%	1.24%	1.08%	0.72%	1.86%	1.64%
2035	0.23%	0.61%	0.53%	0.46%	1.22%	1.07%	0.70%	1.83%	1.61%
2036	0.69%	1.04%	0.96%	0.92%	1.64%	1.50%	1.14%	2.25%	2.04%

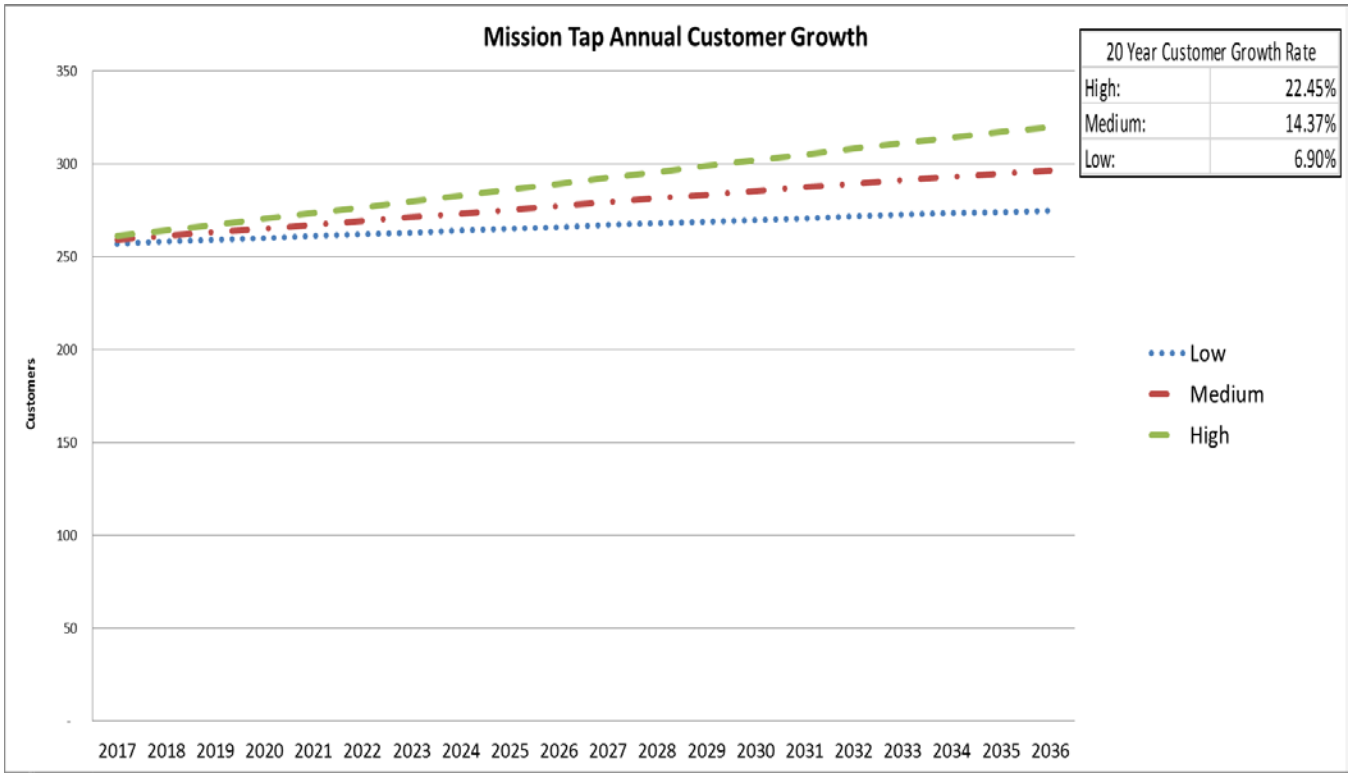
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	214	43	257	215	44	259	217	45	261
2018	215	44	258	217	45	261	219	46	264
2019	215	44	259	218	45	263	221	47	267
2020	216	44	260	219	46	265	223	48	270
2021	217	44	261	221	46	267	225	49	274
2022	217	45	262	222	47	269	227	50	277
2023	218	45	263	224	48	271	229	51	280
2024	219	45	264	225	48	273	231	52	283
2025	219	46	265	226	49	275	233	53	286
2026	220	46	266	228	50	277	235	54	289
2027	221	46	267	229	51	279	237	55	293
2028	221	47	268	230	51	281	240	56	296
2029	222	47	269	232	52	283	242	57	299
2030	223	47	270	233	53	285	244	58	302
2031	223	48	271	234	53	287	246	60	305
2032	224	48	272	235	54	289	248	61	308
2033	224	48	273	237	55	291	249	62	311
2034	225	49	273	238	55	293	251	63	314
2035	225	49	274	239	56	295	253	64	317
2036	226	49	275	240	57	297	255	65	320

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.75%	0.38%	0.62%	1.49%	0.77%	0.94%	2.24%	1.16%
2019	0.31%	0.74%	0.38%	0.62%	1.47%	0.77%	0.94%	2.21%	1.16%
2020	0.31%	0.72%	0.38%	0.62%	1.44%	0.76%	0.93%	2.16%	1.15%
2021	0.31%	0.71%	0.38%	0.62%	1.43%	0.76%	0.93%	2.14%	1.14%
2022	0.31%	0.72%	0.38%	0.62%	1.45%	0.76%	0.92%	2.17%	1.15%
2023	0.31%	0.69%	0.37%	0.61%	1.39%	0.75%	0.92%	2.08%	1.13%
2024	0.30%	0.70%	0.37%	0.61%	1.41%	0.75%	0.91%	2.11%	1.13%
2025	0.30%	0.70%	0.37%	0.60%	1.41%	0.75%	0.91%	2.11%	1.13%
2026	0.30%	0.69%	0.36%	0.59%	1.38%	0.73%	0.89%	2.06%	1.11%
2027	0.29%	0.69%	0.36%	0.59%	1.39%	0.73%	0.88%	2.08%	1.11%
2028	0.29%	0.66%	0.35%	0.58%	1.33%	0.71%	0.87%	1.99%	1.08%
2029	0.29%	0.67%	0.35%	0.57%	1.34%	0.71%	0.86%	2.02%	1.08%
2030	0.28%	0.67%	0.35%	0.56%	1.33%	0.70%	0.84%	2.00%	1.06%
2031	0.27%	0.66%	0.34%	0.54%	1.32%	0.69%	0.81%	1.98%	1.04%
2032	0.26%	0.64%	0.33%	0.52%	1.29%	0.66%	0.78%	1.93%	1.01%
2033	0.25%	0.64%	0.32%	0.50%	1.28%	0.65%	0.75%	1.92%	0.98%
2034	0.24%	0.62%	0.31%	0.48%	1.24%	0.62%	0.72%	1.86%	0.95%
2035	0.23%	0.61%	0.30%	0.46%	1.22%	0.61%	0.70%	1.83%	0.92%
2036	0.22%	0.60%	0.29%	0.45%	1.20%	0.59%	0.67%	1.81%	0.90%





20 Year Customer Growth Rate	
High:	22.45%
Medium:	14.37%
Low:	6.90%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

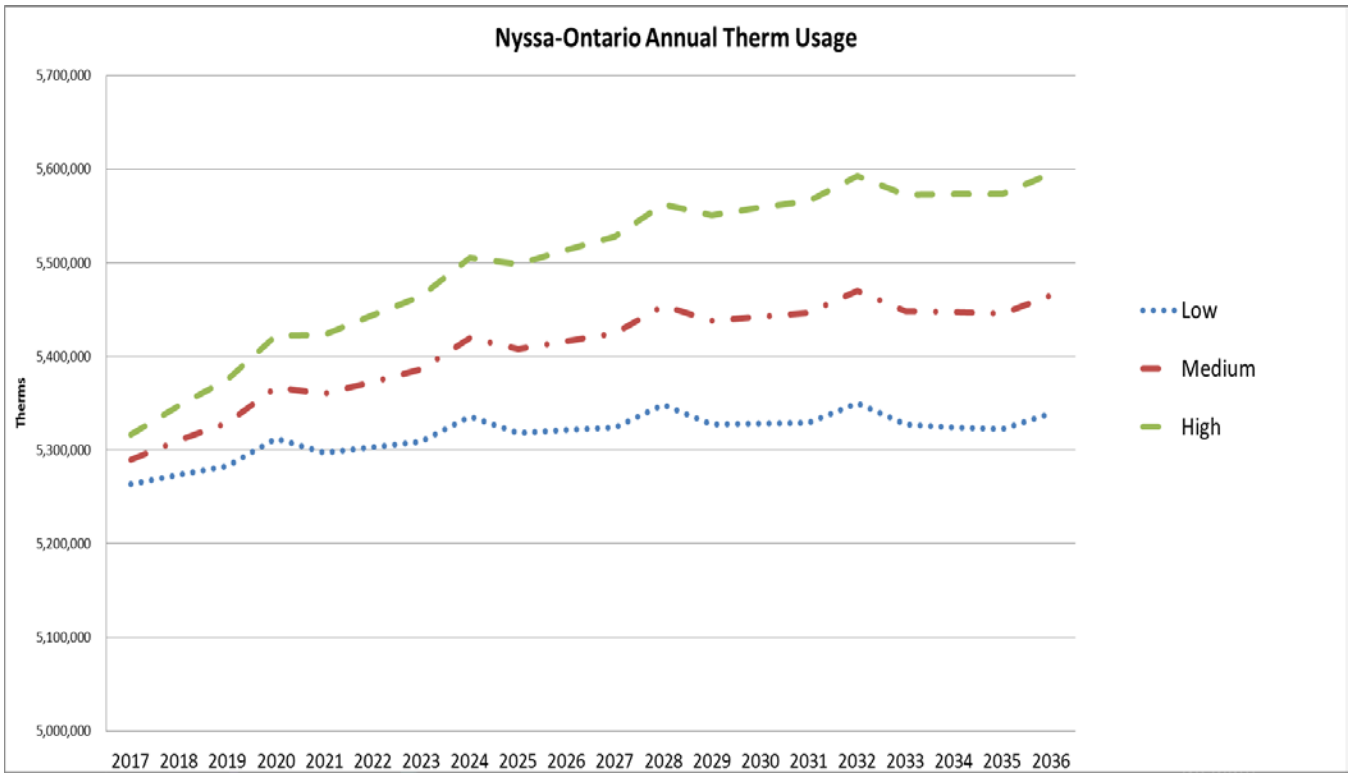
Nyssa-Ontario

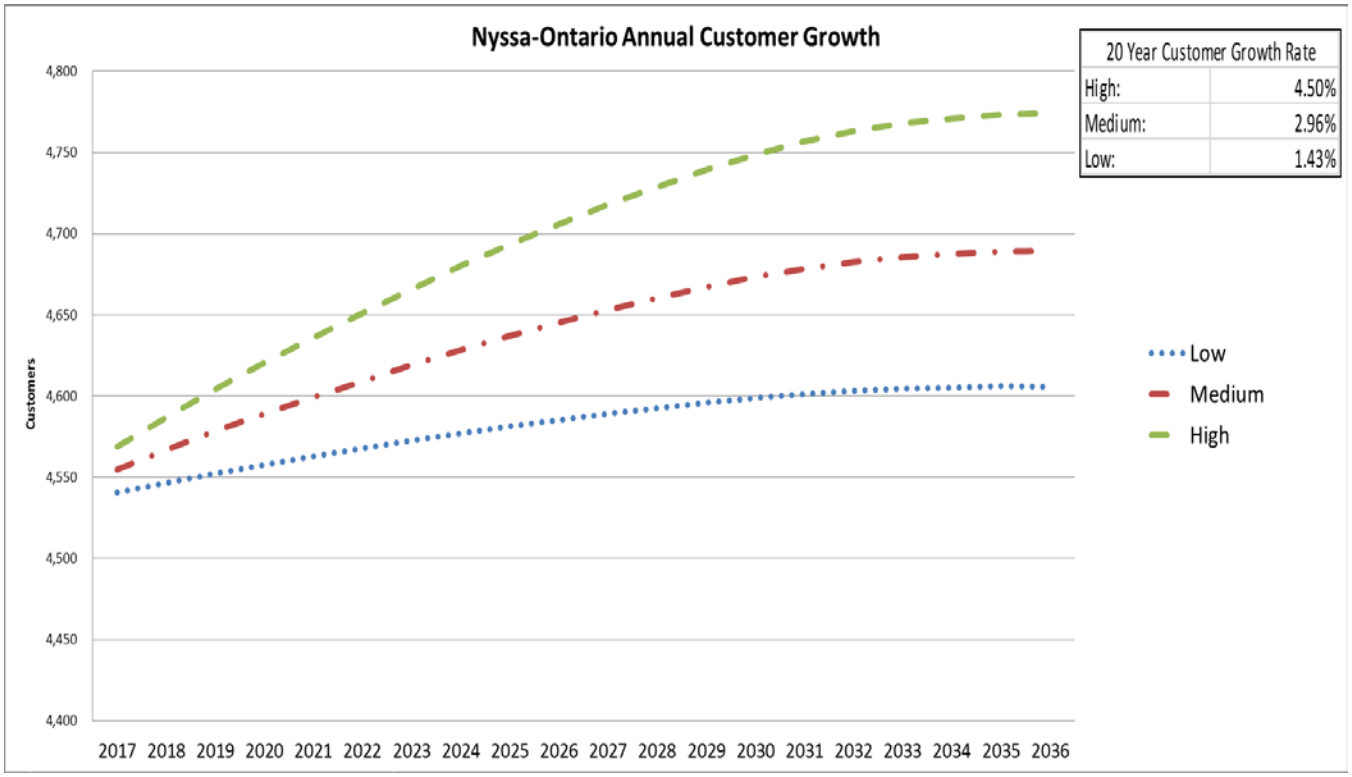
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	4,509,465	754,307	5,263,771	4,533,393	756,595	5,289,988	4,557,394	758,890	5,316,284	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	4,519,283	754,718	5,274,001	4,553,110	757,480	5,310,590	4,587,128	760,257	5,347,385	0.22%	0.05%	0.19%	0.43%	0.12%	0.39%	0.65%	0.18%	0.59%
2019	4,528,300	754,781	5,283,080	4,570,972	758,070	5,329,042	4,613,982	761,386	5,375,368	0.20%	0.01%	0.17%	0.39%	0.08%	0.35%	0.59%	0.15%	0.52%
2020	4,558,924	753,564	5,312,488	4,609,659	757,596	5,367,255	4,660,901	761,669	5,422,569	0.68%	-0.16%	0.56%	0.85%	-0.06%	0.72%	1.02%	0.04%	0.88%
2021	4,545,171	752,400	5,297,571	4,602,836	757,121	5,359,957	4,661,185	761,896	5,423,081	-0.30%	-0.15%	-0.28%	-0.15%	-0.06%	-0.14%	0.01%	0.03%	0.01%
2022	4,552,844	750,616	5,303,459	4,616,960	756,182	5,373,142	4,681,946	761,821	5,443,767	0.17%	-0.24%	0.11%	0.31%	-0.12%	0.25%	0.45%	-0.01%	0.38%
2023	4,560,660	748,520	5,309,180	4,631,113	755,016	5,386,129	4,702,636	761,606	5,464,242	0.17%	-0.28%	0.11%	0.31%	-0.15%	0.24%	0.44%	-0.03%	0.38%
2024	4,589,980	745,899	5,335,879	4,666,440	753,468	5,419,908	4,744,177	761,154	5,505,331	0.64%	-0.35%	0.50%	0.76%	-0.21%	0.63%	0.88%	-0.06%	0.75%
2025	4,575,089	742,854	5,317,942	4,656,136	751,565	5,407,701	4,738,638	760,421	5,499,059	-0.32%	-0.41%	-0.34%	-0.22%	-0.25%	-0.23%	-0.12%	-0.10%	-0.11%
2026	4,581,878	739,308	5,321,186	4,667,364	749,322	5,416,686	4,754,487	759,513	5,514,000	0.15%	-0.48%	0.06%	0.24%	-0.30%	0.17%	0.33%	-0.12%	0.27%
2027	4,588,230	735,807	5,324,037	4,677,786	747,046	5,424,832	4,769,146	758,495	5,527,642	0.14%	-0.47%	0.05%	0.22%	-0.30%	0.15%	0.31%	-0.13%	0.25%
2028	4,616,373	731,935	5,348,308	4,709,864	744,517	5,454,381	4,805,323	757,351	5,562,674	0.61%	-0.53%	0.46%	0.69%	-0.34%	0.54%	0.76%	-0.15%	0.63%
2029	4,600,254	727,525	5,327,779	4,696,297	741,556	5,437,853	4,794,430	755,887	5,550,317	-0.35%	-0.60%	-0.38%	-0.29%	-0.40%	-0.30%	-0.23%	-0.19%	-0.22%
2030	4,605,822	722,828	5,328,650	4,704,251	738,396	5,442,647	4,804,881	754,319	5,559,200	0.12%	-0.65%	0.02%	0.17%	-0.43%	0.09%	0.22%	-0.21%	0.16%
2031	4,610,623	718,540	5,329,163	4,710,833	735,478	5,446,310	4,813,324	752,826	5,566,150	0.10%	-0.59%	0.01%	0.14%	-0.40%	0.07%	0.18%	-0.20%	0.13%
2032	4,636,899	713,520	5,350,420	4,738,310	732,017	5,470,328	4,842,043	750,992	5,593,036	0.57%	-0.70%	0.40%	0.58%	-0.47%	0.44%	0.60%	-0.24%	0.48%
2033	4,618,675	708,428	5,327,103	4,719,848	728,492	5,448,340	4,823,338	749,110	5,572,448	-0.39%	-0.71%	-0.44%	-0.39%	-0.48%	-0.40%	-0.39%	-0.25%	-0.37%
2034	4,621,493	702,839	5,324,333	4,722,604	724,614	5,447,219	4,826,019	747,035	5,573,054	0.06%	-0.79%	-0.05%	0.06%	-0.53%	-0.02%	0.06%	-0.28%	0.01%
2035	4,624,627	697,363	5,321,990	4,725,360	720,824	5,446,184	4,828,371	745,029	5,573,400	0.07%	-0.78%	-0.04%	0.06%	-0.52%	-0.02%	0.05%	-0.27%	0.01%
2036	4,646,699	692,071	5,338,770	4,748,186	717,163	5,465,349	4,851,970	743,106	5,595,076	0.48%	-0.76%	0.32%	0.48%	-0.51%	0.35%	0.49%	-0.26%	0.39%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	2,067	68,416	70,482	2,073	68,765	70,838	2,079	69,115	71,194	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,068	68,557	70,625	2,075	69,049	71,124	2,083	69,544	71,627	0.05%	0.21%	0.20%	0.12%	0.41%	0.40%	0.18%	0.62%	0.61%
2019	2,068	68,684	70,752	2,077	69,305	71,382	2,086	69,931	72,017	0.01%	0.19%	0.18%	0.08%	0.37%	0.36%	0.15%	0.56%	0.54%
2020	2,065	68,800	70,865	2,076	69,539	71,614	2,087	70,284	72,371	-0.16%	0.17%	0.16%	-0.06%	0.34%	0.33%	0.04%	0.51%	0.49%
2021	2,061	68,905	70,967	2,074	69,751	71,825	2,087	70,606	72,693	-0.15%	0.15%	0.14%	-0.06%	0.30%	0.29%	0.03%	0.46%	0.44%
2022	2,056	69,002	71,059	2,072	69,945	72,017	2,087	70,901	72,988	-0.24%	0.14%	0.13%	-0.12%	0.28%	0.27%	-0.01%	0.42%	0.41%
2023	2,051	69,098	71,149	2,069	70,138	72,206	2,087	71,194	73,280	-0.28%	0.14%	0.13%	-0.15%	0.28%	0.26%	-0.03%	0.41%	0.40%
2024	2,044	69,186	71,230	2,064	70,315	72,379	2,085	71,462	73,548	-0.35%	0.13%	0.11%	-0.21%	0.25%	0.24%	-0.06%	0.38%	0.37%
2025	2,035	69,263	71,299	2,059	70,470	72,529	2,083	71,698	73,781	-0.41%	0.11%	0.10%	-0.25%	0.22%	0.21%	-0.10%	0.33%	0.32%
2026	2,026	69,336	71,362	2,053	70,614	72,667	2,081	71,918	73,999	-0.48%	0.10%	0.09%	-0.30%	0.21%	0.19%	-0.12%	0.31%	0.29%
2027	2,016	69,402	71,418	2,047	70,747	72,793	2,078	72,118	74,196	-0.47%	0.10%	0.08%	-0.30%	0.19%	0.17%	-0.13%	0.28%	0.27%
2028	2,005	69,463	71,469	2,040	70,868	72,907	2,075	72,302	74,377	-0.53%	0.09%	0.07%	-0.34%	0.17%	0.16%	-0.15%	0.25%	0.24%
2029	1,993	69,516	71,509	2,032	70,971	73,003	2,071	72,459	74,530	-0.60%	0.08%	0.06%	-0.40%	0.15%	0.13%	-0.19%	0.22%	0.21%
2030	1,980	69,563	71,543	2,023	71,062	73,085	2,067	72,596	74,663	-0.65%	0.07%	0.05%	-0.43%	0.13%	0.11%	-0.21%	0.19%	0.18%
2031	1,969	69,600	71,568	2,015	71,135	73,150	2,063	72,705	74,768	-0.59%	0.05%	0.04%	-0.40%	0.10%	0.09%	-0.20%	0.15%	0.14%
2032	1,955	69,625	71,580	2,006	71,182	73,188	2,058	72,776	74,833	-0.70%	0.04%	0.02%	-0.47%	0.07%	0.05%	-0.24%	0.10%	0.09%
2033	1,941	69,643	71,583	1,996	71,213	73,209	2,052	72,821	74,873	-0.71%	0.02%	0.00%	-0.48%	0.04%	0.03%	-0.25%	0.06%	0.05%
2034	1,926	69,645	71,570	1,985	71,226	73,211	2,047	72,845	74,891	-0.79%	0.00%	-0.02%	-0.53%	0.02%	0.00%	-0.28%	0.03%	0.02%
2035	1,911	69,649	71,559	1,975	71,237	73,212	2,041	72,863	74,904	-0.78%	0.01%	-0.02%	-0.52%	0.02%	0.00%	-0.27%	0.03%	0.02%
2036	1,896	69,613	71,509	1,965	71,217	73,182	2,036	72,860	74,896	-0.76%	-0.05%	-0.07%	-0.51%	-0.03%	-0.04%	-0.26%	0.00%	-0.01%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,873,451	3,390,321	5,263,771	1,877,756	3,412,232	5,289,988	1,882,067	3,434,217	5,316,284	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,875,567	3,398,435	5,274,001	1,881,998	3,428,592	5,310,590	1,888,443	3,458,942	5,347,385	0.11%	0.24%	0.19%	0.23%	0.48%	0.39%	0.34%	0.72%	0.59%
2019	1,877,680	3,405,400	5,283,080	1,886,239	3,442,803	5,329,042	1,894,827	3,480,541	5,375,368	0.11%	0.20%	0.17%	0.23%	0.41%	0.35%	0.34%	0.62%	0.52%
2020	1,889,689	3,422,799	5,312,488	1,900,373	3,466,883	5,367,255	1,911,105	3,511,465	5,422,569	0.64%	0.51%	0.56%	0.75%	0.70%	0.72%	0.86%	0.89%	0.88%
2021	1,881,778	3,415,794	5,297,571	1,894,476	3,465,480	5,359,957	1,907,246	3,515,835	5,423,081	-0.42%	-0.20%	-0.28%	-0.31%	-0.04%	-0.14%	-0.20%	0.12%	0.01%
2022	1,883,762	3,419,697	5,303,459	1,898,472	3,474,670	5,373,142	1,913,280	3,530,487	5,443,767	0.11%	0.11%	0.11%	0.21%	0.27%	0.25%	0.32%	0.42%	0.38%
2023	1,885,714	3,423,466	5,309,180	1,902,406	3,483,723	5,386,129	1,919,227	3,545,015	5,464,242	0.10%	0.11%	0.11%	0.21%	0.26%	0.24%	0.31%	0.41%	0.38%
2024	1,897,634	3,438,245	5,335,879	1,916,378	3,503,530	5,419,908	1,935,287	3,570,044	5,505,331	0.63%	0.43%	0.50%	0.73%	0.57%	0.63%	0.84%	0.71%	0.75%
2025	1,889,459	3,428,483	5,317,942	1,909,967	3,497,734	5,407,701	1,930,675	3,568,384	5,499,059	-0.43%	-0.28%	-0.34%	-0.33%	-0.17%	-0.23%	-0.24%	-0.05%	-0.11%
2026	1,891,223	3,429,963	5,321,186	1,913,532	3,503,154	5,416,686	1,936,081	3,577,920	5,514,000	0.09%	0.04%	0.06%	0.19%	0.15%	0.17%	0.28%	0.27%	0.27%
2027	1,892,894	3,431,144	5,324,037	1,916,913	3,507,919	5,424,832	1,941,212	3,586,430	5,527,642	0.09%	0.03%	0.05%	0.18%	0.14%	0.15%	0.27%	0.24%	0.25%
2028	1,904,509	3,443,800	5,348,308	1,930,282	3,524,099	5,454,381	1,956,377	3,606,297	5,562,674	0.61%	0.37%	0.46%	0.70%	0.46%	0.54%	0.78%	0.55%	0.63%
2029	1,895,958	3,431,821	5,327,779	1,923,122	3,514,731	5,437,853	1,950,646	3,599,670	5,550,317	-0.45%	-0.35%	-0.38%	-0.37%	-0.27%	-0.30%	-0.29%	-0.18%	-0.22%
2030	1,897,352	3,431,299	5,328,650	1,925,949	3,516,698	5,442,647	1,954,949	3,604,252	5,559,200	0.07%	-0.02%	0.02%	0.15%	0.06%	0.09%	0.22%	0.13%	0.16%
2031	1,898,533	3,430,631	5,329,163	1,928,347	3,517,964	5,446,310	1,958,599	3,607,551	5,566,150	0.06%	-0.02%	0.01%	0.12%	0.04%	0.07%	0.19%	0.09%	0.13%
2032	1,909,595	3,440,825	5,350,420	1,940,602	3,529,725	5,470,328	1,972,082	3,620,953	5,593,036	0.58%	0.30%	0.40%	0.64%	0.33%	0.44%	0.69%	0.37%	0.48%
2033	1,900,318	3,426,786	5,327,103	1,931,974	3,516,367	5,448,340	1,964,126	3,608,322	5,572,448	-0.49%	-0.41%	-0.44%	-0.44%	-0.38%	-0.40%	-0.40%	-0.35%	-0.37%
2034	1,900,892	3,423,441	5,324,333	1,933,142	3,514,077	5,447,219	1,965,907	3,607,147	5,573,054	0.03%	-0.10%	-0.05%	0.06%	-0.07%	-0.02%	0.09%	-0.03%	0.01%
2035	1,901,285	3,420,705	5,321,990	1,933,941	3,512,243	5,446,184	1,967,126	3,606,275	5,573,400	0.02%	-0.08%	-0.04%	0.04%	-0.05%	-0.02%	0.06%	-0.02%	0.01%
2036	1,911,601	3,427,170	5,338,770	1,944,681	3,520,668	5,465,349	1,978,302	3,616,774	5,595,076	0.54%	0.19%	0.32%	0.56%	0.24%	0.35%	0.57%	0.29%	0.39%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,616	925	4,541	3,624	931	4,555	3,632	936	4,569	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,620	927	4,547	3,632	935	4,567	3,645	942	4,587	0.11%	0.21%	0.13%	0.23%	0.42%	0.27%	0.34%	0.63%	0.40%
2019	3,624	929	4,552	3,640	938	4,578	3,657	947	4,604	0.11%	0.18%	0.13%	0.23%	0.35%	0.25%	0.34%	0.53%	0.38%
2020	3,628	930	4,558	3,648	941	4,589	3,669	952	4,621	0.11%	0.15%	0.12%	0.22%	0.31%	0.24%	0.33%	0.46%	0.36%
2021	3,632	931	4,563	3,656	943	4,599	3,681	955	4,636	0.11%	0.12%	0.11%	0.22%	0.25%	0.22%	0.33%	0.38%	0.34%
2022	3,636	932	4,568	3,664	945	4,609	3,693	958	4,651	0.11%	0.11%	0.11%	0.21%	0.22%	0.21%	0.32%	0.34%	0.32%
2023	3,639	933	4,572	3,672	947	4,619	3,704	962	4,666	0.10%	0.11%	0.10%	0.21%	0.23%	0.21%	0.31%	0.35%	0.32%
2024	3,643	934	4,577	3,679	949	4,628	3,715	965	4,680	0.10%	0.09%	0.10%	0.20%	0.19%	0.20%	0.31%	0.29%	0.30%
2025	3,647	935	4,581	3,686	951	4,637	3,726	967	4,693	0.10%	0.08%	0.09%	0.19%	0.17%	0.19%	0.29%	0.25%	0.28%
2026	3,650	935	4,585	3,693	952	4,645	3,737	969	4,706	0.09%	0.06%	0.09%	0.19%	0.14%	0.18%	0.28%	0.21%	0.27%
2027	3,653	936	4,589	3,700	953	4,653	3,746	971	4,718	0.09%	0.07%	0.08%	0.18%	0.14%	0.17%	0.27%	0.22%	0.26%
2028	3,656	936	4,593	3,706	955	4,660	3,756	973	4,729	0.08%	0.05%	0.08%	0.17%	0.11%	0.16%	0.25%	0.18%	0.24%
2029	3,659	937	4,596	3,712	955	4,667	3,765	975	4,739	0.08%	0.04%	0.07%	0.16%	0.10%	0.15%	0.24%	0.16%	0.22%
2030	3,662	937	4,599	3,717	956	4,673	3,773	976	4,749	0.07%	0.03%	0.06%	0.15%	0.07%	0.13%	0.22%	0.11%	0.20%
2031	3,664	937	4,601	3,722	957	4,678	3,780	977	4,757	0.06%	0.02%	0.05%	0.12%	0.06%	0.11%	0.19%	0.09%	0.17%
2032	3,666	937	4,603	3,726	957	4,682	3,786	977	4,763	0.05%	0.00%	0.04%	0.11%	0.02%	0.09%	0.16%	0.03%	0.13%
2033	3,668	937	4,605	3,729	957	4,685	3,791	977	4,768	0.04%	-0.01%	0.03%	0.08%	0.00%	0.07%	0.12%	0.00%	0.10%
2034	3,669	937	4,605	3,731	957	4,687	3,794	977	4,771	0.03%	-0.05%	0.01%	0.06%	-0.03%	0.04%	0.09%	-0.02%	0.07%
2035	3,669	937	4,606	3,732	956	4,689	3,797	977	4,773	0.02%	-0.01%	0.01%	0.04%	-0.01%	0.03%	0.06%	0.00%	0.05%
2036	3,670	936	4,605	3,733	956	4,689	3,798	977	4,774	0.01%	-0.10%	-0.01%	0.03%	-0.07%	0.01%	0.04%	-0.03%	0.02%





20 Year Customer Growth Rate	
High:	4.50%
Medium:	2.96%
Low:	1.43%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

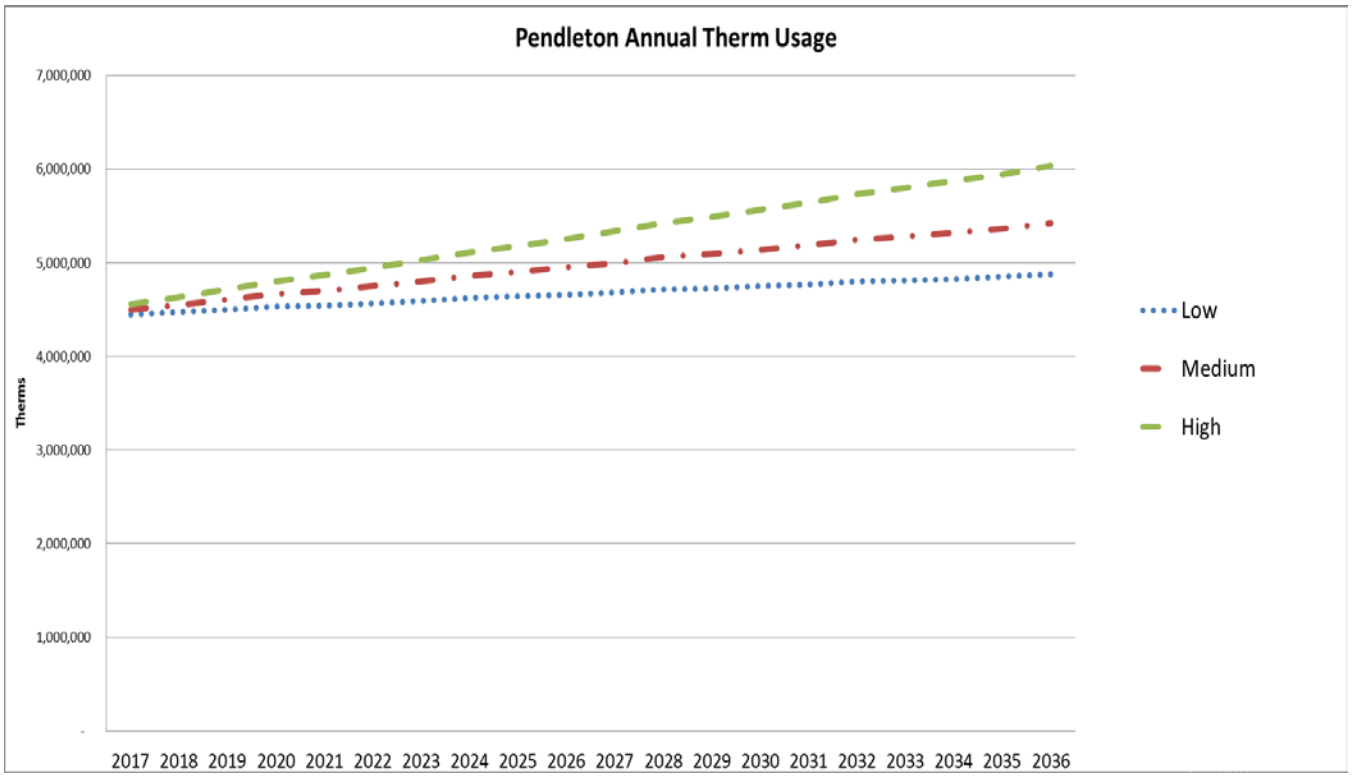
Pendleton

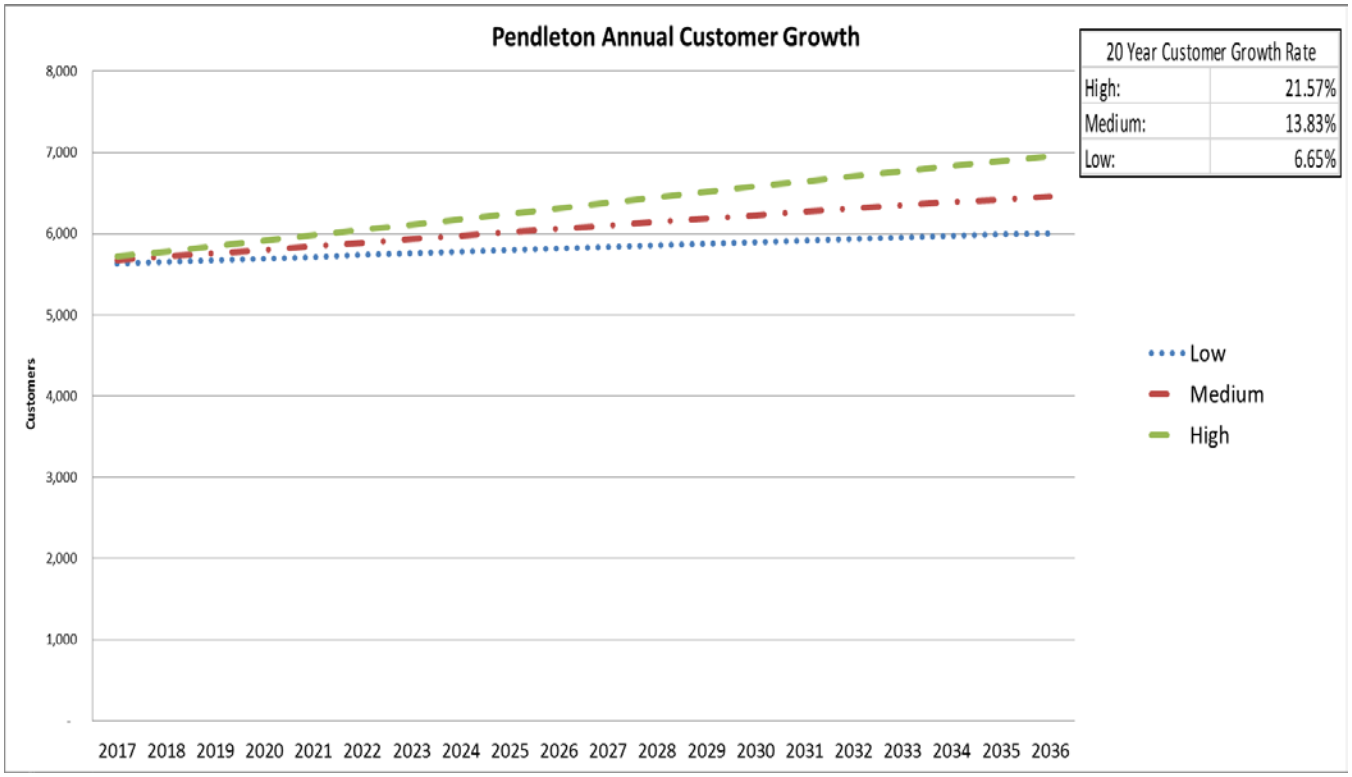
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	3,012,186	1,433,755	4,445,941	3,048,935	1,452,862	4,501,797	3,085,952	1,472,113	4,558,065	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,029,073	1,442,531	4,471,605	3,083,201	1,470,681	4,553,882	3,138,093	1,499,245	4,637,338	0.56%	0.61%	0.58%	1.12%	1.23%	1.16%	1.69%	1.84%	1.74%
2019	3,045,580	1,451,090	4,496,670	3,116,916	1,488,177	4,605,093	3,189,734	1,526,068	4,715,802	0.54%	0.59%	0.56%	1.09%	1.19%	1.12%	1.65%	1.79%	1.69%
2020	3,072,699	1,459,429	4,532,127	3,161,466	1,505,339	4,666,805	3,252,657	1,552,553	4,805,210	0.89%	0.57%	0.79%	1.43%	1.15%	1.34%	1.97%	1.74%	1.90%
2021	3,077,582	1,467,648	4,545,230	3,182,912	1,522,363	4,705,275	3,291,794	1,578,997	4,870,791	0.16%	0.56%	0.29%	0.68%	1.13%	0.82%	1.20%	1.70%	1.36%
2022	3,093,319	1,475,743	4,569,062	3,215,674	1,539,238	4,754,912	3,342,941	1,605,374	4,948,315	0.51%	0.55%	0.52%	1.03%	1.11%	1.05%	1.55%	1.67%	1.59%
2023	3,108,745	1,483,668	4,592,413	3,247,983	1,555,860	4,803,843	3,393,689	1,631,516	5,025,205	0.50%	0.54%	0.51%	1.00%	1.08%	1.03%	1.52%	1.63%	1.55%
2024	3,135,358	1,491,517	4,626,875	3,292,300	1,572,421	4,864,721	3,457,526	1,657,719	5,115,246	0.86%	0.53%	0.75%	1.36%	1.06%	1.27%	1.88%	1.61%	1.79%
2025	3,139,278	1,499,282	4,638,560	3,312,528	1,588,903	4,901,431	3,496,010	1,683,954	5,179,964	0.13%	0.52%	0.25%	0.61%	1.05%	0.75%	1.11%	1.58%	1.27%
2026	3,154,198	1,506,907	4,661,105	3,344,473	1,605,181	4,949,653	3,547,171	1,710,013	5,257,185	0.48%	0.51%	0.49%	0.96%	1.02%	0.98%	1.46%	1.55%	1.49%
2027	3,169,017	1,514,504	4,683,521	3,376,515	1,621,488	4,998,002	3,598,857	1,736,270	5,335,127	0.47%	0.50%	0.48%	0.96%	1.02%	0.98%	1.46%	1.54%	1.48%
2028	3,194,908	1,521,889	4,716,797	3,420,546	1,637,424	5,057,970	3,663,717	1,762,072	5,425,790	0.82%	0.49%	0.71%	1.30%	0.98%	1.20%	1.80%	1.49%	1.70%
2029	3,197,726	1,529,257	4,726,983	3,439,637	1,653,412	5,093,049	3,701,821	1,788,102	5,489,923	0.09%	0.48%	0.22%	0.56%	0.98%	0.69%	1.04%	1.48%	1.18%
2030	3,211,876	1,536,502	4,748,378	3,471,025	1,669,218	5,140,242	3,753,464	1,813,978	5,567,441	0.44%	0.47%	0.45%	0.91%	0.96%	0.93%	1.40%	1.45%	1.41%
2031	3,225,680	1,543,614	4,769,294	3,502,090	1,684,814	5,186,905	3,805,011	1,839,651	5,644,662	0.43%	0.46%	0.44%	0.90%	0.93%	0.91%	1.37%	1.42%	1.39%
2032	3,251,020	1,550,569	4,801,589	3,545,914	1,700,149	5,246,063	3,870,872	1,865,032	5,735,904	0.79%	0.45%	0.68%	1.25%	0.91%	1.14%	1.73%	1.38%	1.62%
2033	3,252,469	1,557,409	4,809,878	3,563,075	1,715,309	5,278,384	3,907,169	1,890,259	5,797,429	0.04%	0.44%	0.17%	0.48%	0.89%	0.62%	0.94%	1.35%	1.07%
2034	3,265,242	1,564,021	4,829,264	3,592,630	1,730,038	5,322,668	3,957,210	1,914,895	5,872,104	0.39%	0.42%	0.40%	0.83%	0.86%	0.84%	1.28%	1.30%	1.29%
2035	3,277,806	1,570,533	4,848,339	3,621,879	1,744,615	5,366,494	4,007,015	1,939,404	5,946,419	0.38%	0.42%	0.39%	0.81%	0.84%	0.82%	1.26%	1.28%	1.27%
2036	3,302,290	1,576,946	4,879,236	3,664,752	1,759,045	5,423,797	4,072,585	1,963,792	6,036,377	0.75%	0.41%	0.64%	1.18%	0.83%	1.07%	1.64%	1.26%	1.51%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	3,928	75,149	79,077	3,980	75,979	79,960	4,033	76,815	80,848	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,952	75,537	79,489	4,029	76,764	80,793	4,108	78,008	82,115	0.61%	0.52%	0.52%	1.23%	1.03%	1.04%	1.84%	1.55%	1.57%
2019	3,976	75,916	79,892	4,077	77,539	81,616	4,181	79,193	83,374	0.59%	0.50%	0.51%	1.19%	1.01%	1.02%	1.79%	1.52%	1.53%
2020	3,998	76,288	80,287	4,124	78,302	82,426	4,254	80,367	84,621	0.57%	0.49%	0.49%	1.15%	0.98%	0.99%	1.74%	1.48%	1.50%
2021	4,021	76,655	80,676	4,171	79,060	83,231	4,326	81,541	85,867	0.56%	0.48%	0.49%	1.13%	0.97%	0.98%	1.70%	1.46%	1.47%
2022	4,043	77,019	81,062	4,217	79,815	84,032	4,398	82,716	87,115	0.55%	0.47%	0.48%	1.11%	0.95%	0.96%	1.67%	1.44%	1.45%
2023	4,065	77,376	81,441	4,263	80,561	84,823	4,470	83,884	88,354	0.54%	0.46%	0.47%	1.08%	0.93%	0.94%	1.63%	1.41%	1.42%
2024	4,086	77,731	81,817	4,308	81,305	85,613	4,542	85,056	89,598	0.53%	0.46%	0.46%	1.06%	0.92%	0.93%	1.61%	1.40%	1.41%
2025	4,108	78,082	82,189	4,353	82,046	86,399	4,614	86,231	90,844	0.52%	0.45%	0.46%	1.05%	0.91%	0.92%	1.58%	1.38%	1.39%
2026	4,129	78,426	82,555	4,398	82,780	87,177	4,685	87,400	92,085	0.51%	0.44%	0.44%	1.02%	0.89%	0.90%	1.55%	1.36%	1.37%
2027	4,149	78,768	82,917	4,442	83,514	87,956	4,757	88,577	93,334	0.50%	0.44%	0.44%	1.02%	0.89%	0.89%	1.54%	1.35%	1.36%
2028	4,170	79,099	83,269	4,486	84,233	88,719	4,828	89,741	94,568	0.49%	0.42%	0.42%	0.98%	0.86%	0.87%	1.49%	1.31%	1.32%
2029	4,190	79,430	83,620	4,530	84,956	89,485	4,899	90,914	95,813	0.48%	0.42%	0.42%	0.98%	0.86%	0.86%	1.48%	1.31%	1.32%
2030	4,210	79,755	83,965	4,573	85,670	90,243	4,970	92,081	97,051	0.47%	0.41%	0.41%	0.96%	0.84%	0.85%	1.45%	1.28%	1.29%
2031	4,229	80,072	84,301	4,616	86,374	90,990	5,040	93,239	98,279	0.46%	0.40%	0.40%	0.93%	0.82%	0.83%	1.42%	1.26%	1.27%
2032	4,248	80,381	84,629	4,658	87,064	91,722	5,110	94,382	99,492	0.45%	0.39%	0.39%	0.91%	0.80%	0.81%	1.38%	1.23%	1.23%
2033	4,267	80,683	84,950	4,699	87,745	92,445	5,179	95,517	100,695	0.44%	0.38%	0.38%	0.89%	0.78%	0.79%	1.35%	1.20%	1.21%
2034	4,285	80,973	85,258	4,740	88,407	93,147	5,246	96,625	101,872	0.42%	0.36%	0.36%	0.86%	0.75%	0.76%	1.30%	1.16%	1.17%
2035	4,303	81,258	85,561	4,780	89,059	93,839	5,313	97,724	103,038	0.42%	0.35%	0.36%	0.84%	0.74%	0.74%	1.28%	1.14%	1.14%
2036	4,320	81,538	85,859	4,819	89,704	94,523	5,380	98,817	104,198	0.41%	0.34%	0.35%	0.83%	0.72%	0.73%	1.26%	1.12%	1.13%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,712,103	2,733,838	4,445,941	1,722,797	2,779,001	4,501,797	1,733,524	2,824,541	4,558,065	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,717,441	2,754,163	4,471,605	1,733,540	2,820,342	4,553,882	1,749,739	2,887,598	4,637,338	0.31%	0.74%	0.58%	0.62%	1.49%	1.16%	0.94%	2.23%	1.74%
2019	1,722,796	2,773,874	4,496,670	1,744,350	2,860,744	4,605,093	1,766,105	2,949,697	4,715,802	0.31%	0.72%	0.56%	0.62%	1.43%	1.12%	0.94%	2.15%	1.69%
2020	1,728,145	2,803,983	4,532,127	1,755,181	2,911,624	4,666,805	1,782,555	3,022,655	4,805,210	0.31%	1.09%	0.79%	0.62%	1.78%	1.34%	0.93%	2.47%	1.90%
2021	1,733,477	2,811,753	4,545,230	1,766,013	2,939,262	4,705,275	1,799,056	3,071,735	4,870,791	0.31%	0.28%	0.29%	0.62%	0.95%	0.82%	0.93%	1.62%	1.36%
2022	1,738,815	2,830,247	4,569,062	1,776,889	2,978,023	4,754,912	1,815,675	3,132,640	4,948,315	0.31%	0.66%	0.52%	0.62%	1.32%	1.05%	0.92%	1.98%	1.59%
2023	1,744,136	2,848,277	4,592,413	1,787,764	3,016,079	4,803,843	1,832,344	3,192,860	5,025,205	0.31%	0.64%	0.51%	0.61%	1.28%	1.03%	0.92%	1.92%	1.55%
2024	1,749,452	2,877,423	4,626,875	1,798,662	3,066,059	4,864,721	1,849,099	3,266,147	5,115,246	0.30%	1.02%	0.75%	0.61%	1.66%	1.27%	0.91%	2.30%	1.79%
2025	1,754,730	2,883,829	4,638,560	1,809,516	3,091,915	4,901,431	1,865,836	3,314,128	5,179,964	0.30%	0.22%	0.25%	0.60%	0.84%	0.75%	0.91%	1.47%	1.27%
2026	1,759,950	2,901,155	4,661,105	1,820,281	3,129,372	4,949,653	1,882,486	3,374,699	5,257,185	0.30%	0.60%	0.49%	0.59%	1.21%	0.98%	0.89%	1.83%	1.49%
2027	1,765,122	2,918,398	4,683,521	1,830,980	3,167,022	4,998,002	1,899,084	3,436,044	5,335,127	0.29%	0.59%	0.48%	0.59%	1.20%	0.98%	0.88%	1.82%	1.48%
2028	1,770,237	2,946,560	4,716,797	1,841,591	3,216,379	5,057,970	1,915,592	3,510,197	5,425,790	0.29%	0.96%	0.71%	0.58%	1.56%	1.20%	0.87%	2.16%	1.70%
2029	1,775,295	2,951,688	4,726,983	1,852,114	3,240,935	5,093,049	1,932,011	3,557,913	5,489,923	0.29%	0.17%	0.22%	0.57%	0.76%	0.69%	0.86%	1.36%	1.18%
2030	1,780,274	2,968,104	4,748,378	1,862,504	3,277,738	5,140,242	1,948,268	3,619,173	5,567,441	0.28%	0.56%	0.45%	0.56%	1.14%	0.93%	0.84%	1.72%	1.41%
2031	1,785,103	2,984,191	4,769,294	1,872,608	3,314,297	5,186,905	1,964,122	3,680,541	5,644,662	0.27%	0.54%	0.44%	0.54%	1.12%	0.91%	0.81%	1.70%	1.39%
2032	1,789,751	3,011,839	4,801,589	1,882,359	3,363,704	5,246,063	1,979,462	3,756,442	5,735,904	0.26%	0.93%	0.68%	0.52%	1.49%	1.14%	0.78%	2.06%	1.62%
2033	1,794,239	3,015,638	4,809,878	1,891,801	3,386,583	5,278,384	1,994,356	3,803,073	5,797,429	0.25%	0.13%	0.17%	0.50%	0.68%	0.62%	0.75%	1.24%	1.07%
2034	1,798,570	3,030,693	4,829,264	1,900,933	3,421,734	5,322,668	2,008,798	3,863,306	5,872,104	0.24%	0.50%	0.40%	0.48%	1.04%	0.84%	0.72%	1.58%	1.29%
2035	1,802,745	3,045,594	4,848,339	1,909,758	3,456,736	5,366,494	2,022,785	3,923,634	5,946,419	0.23%	0.49%	0.39%	0.46%	1.02%	0.82%	0.70%	1.56%	1.27%
2036	1,806,774	3,072,462	4,879,236	1,918,295	3,505,502	5,423,797	2,036,349	4,000,028	6,036,377	0.22%	0.88%	0.64%	0.45%	1.41%	1.07%	0.67%	1.95%	1.51%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	4,867	764	5,631	4,897	777	5,675	4,928	791	5,719	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	4,882	770	5,652	4,928	790	5,718	4,974	810	5,784	0.31%	0.79%	0.38%	0.62%	1.58%	0.75%	0.94%	2.37%	1.13%
2019	4,897	776	5,673	4,959	802	5,761	5,021	828	5,849	0.31%	0.77%	0.37%	0.62%	1.54%	0.75%	0.94%	2.31%	1.13%
2020	4,913	782	5,694	4,990	814	5,803	5,067	847	5,914	0.31%	0.75%	0.37%	0.62%	1.50%	0.74%	0.93%	2.25%	1.12%
2021	4,928	788	5,715	5,020	826	5,846	5,114	866	5,980	0.31%	0.74%	0.37%	0.62%	1.47%	0.74%	0.93%	2.21%	1.11%
2022	4,943	793	5,736	5,051	838	5,889	5,161	884	6,046	0.31%	0.73%	0.37%	0.62%	1.46%	0.74%	0.92%	2.19%	1.11%
2023	4,958	799	5,757	5,082	850	5,932	5,209	903	6,112	0.31%	0.71%	0.36%	0.61%	1.42%	0.73%	0.92%	2.13%	1.09%
2024	4,973	805	5,778	5,113	862	5,975	5,256	922	6,179	0.30%	0.71%	0.36%	0.61%	1.41%	0.72%	0.91%	2.12%	1.09%
2025	4,988	810	5,798	5,144	874	6,018	5,304	942	6,246	0.30%	0.70%	0.36%	0.60%	1.40%	0.72%	0.91%	2.10%	1.08%
2026	5,003	816	5,819	5,175	886	6,060	5,351	961	6,313	0.30%	0.69%	0.35%	0.59%	1.38%	0.71%	0.89%	2.07%	1.07%
2027	5,018	821	5,839	5,205	898	6,103	5,399	981	6,380	0.29%	0.69%	0.35%	0.59%	1.37%	0.70%	0.88%	2.06%	1.06%
2028	5,032	827	5,859	5,235	910	6,145	5,446	1,001	6,446	0.29%	0.67%	0.34%	0.58%	1.33%	0.69%	0.87%	2.00%	1.04%
2029	5,047	832	5,879	5,265	922	6,187	5,492	1,021	6,513	0.29%	0.67%	0.34%	0.57%	1.34%	0.68%	0.86%	2.01%	1.04%
2030	5,061	838	5,899	5,295	934	6,229	5,538	1,041	6,579	0.28%	0.65%	0.33%	0.56%	1.31%	0.67%	0.84%	1.97%	1.02%
2031	5,075	843	5,918	5,323	946	6,270	5,583	1,061	6,645	0.27%	0.65%	0.32%	0.54%	1.30%	0.66%	0.81%	1.95%	0.99%
2032	5,088	849	5,936	5,351	958	6,309	5,627	1,082	6,709	0.26%	0.64%	0.31%	0.52%	1.28%	0.63%	0.78%	1.92%	0.96%
2033	5,101	854	5,954	5,378	971	6,348	5,669	1,102	6,772	0.25%	0.63%	0.30%	0.50%	1.26%	0.62%	0.75%	1.90%	0.94%
2034	5,113	859	5,972	5,404	982	6,386	5,710	1,122	6,833	0.24%	0.61%	0.29%	0.48%	1.22%	0.60%	0.72%	1.84%	0.91%
2035	5,125	864	5,989	5,429	994	6,423	5,750	1,143	6,893	0.23%	0.60%	0.29%	0.46%	1.21%	0.58%	0.70%	1.81%	0.88%
2036	5,136	869	6,006	5,453	1,006	6,459	5,789	1,163	6,952	0.22%	0.60%	0.28%	0.45%	1.20%	0.56%	0.67%	1.80%	0.86%





20 Year Customer Growth Rate	
High:	21.57%
Medium:	13.83%
Low:	6.65%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

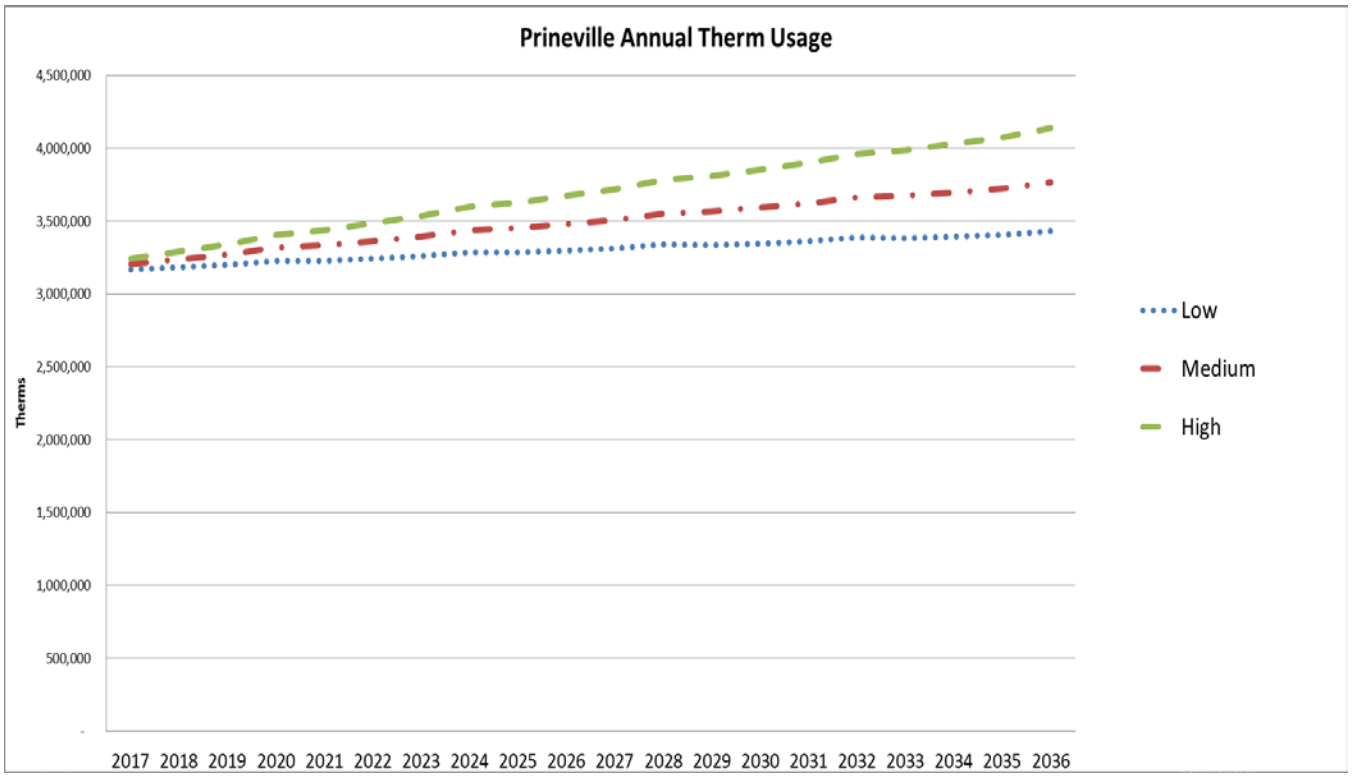
Prineville

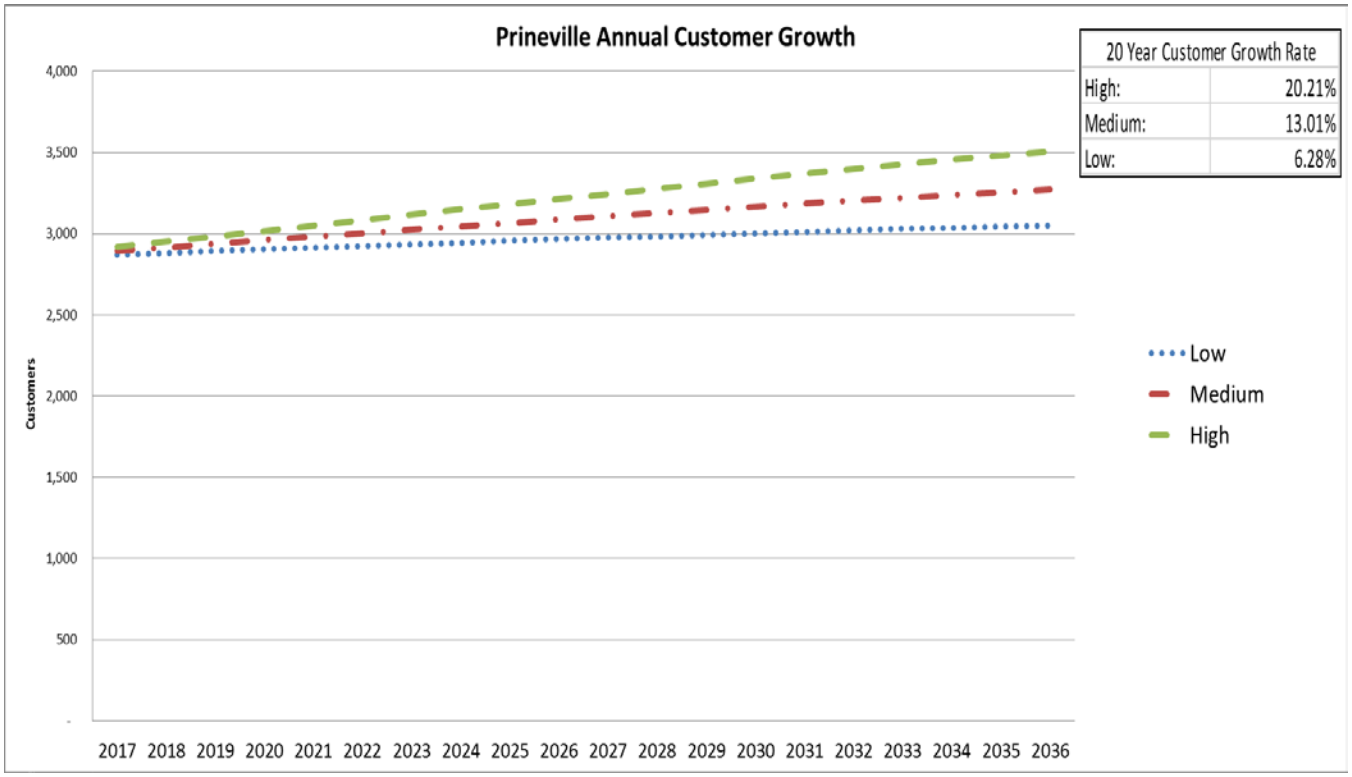
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	2,684,701	482,021	3,166,722	2,715,584	488,615	3,204,199	2,746,674	495,258	3,241,933	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,698,170	484,843	3,183,013	2,742,882	494,342	3,237,225	2,788,166	503,974	3,292,140	0.50%	0.59%	0.51%	1.01%	1.17%	1.03%	1.51%	1.76%	1.55%
2019	2,711,329	487,601	3,198,930	2,769,707	499,976	3,269,682	2,829,173	512,601	3,341,774	0.49%	0.57%	0.50%	0.98%	1.14%	1.00%	1.47%	1.71%	1.51%
2020	2,738,623	490,298	3,228,921	2,811,000	505,515	3,316,515	2,885,144	521,136	3,406,280	1.01%	0.55%	0.94%	1.49%	1.11%	1.43%	1.98%	1.67%	1.93%
2021	2,736,551	492,850	3,229,401	2,821,825	510,809	3,332,634	2,909,651	529,349	3,438,999	-0.08%	0.52%	0.01%	0.39%	1.05%	0.49%	0.85%	1.58%	0.96%
2022	2,748,912	495,440	3,244,352	2,847,719	516,209	3,363,928	2,950,028	537,774	3,487,802	0.45%	0.53%	0.46%	0.92%	1.06%	0.94%	1.39%	1.59%	1.42%
2023	2,760,270	497,848	3,258,118	2,872,212	521,298	3,393,510	2,988,705	545,777	3,534,482	0.41%	0.49%	0.42%	0.86%	0.99%	0.88%	1.31%	1.49%	1.34%
2024	2,786,296	500,267	3,286,563	2,911,975	526,417	3,438,392	3,043,413	553,858	3,597,271	0.94%	0.49%	0.87%	1.38%	0.98%	1.32%	1.83%	1.48%	1.78%
2025	2,782,875	502,637	3,285,512	2,921,050	531,478	3,452,528	3,066,263	561,901	3,628,163	-0.12%	0.47%	-0.03%	0.31%	0.96%	0.41%	0.75%	1.45%	0.86%
2026	2,793,507	504,917	3,298,424	2,944,655	536,392	3,481,047	3,104,248	569,760	3,674,008	0.38%	0.45%	0.39%	0.81%	0.92%	0.83%	1.24%	1.40%	1.26%
2027	2,803,848	507,154	3,311,002	2,967,748	541,239	3,508,988	3,141,592	577,551	3,719,144	0.37%	0.44%	0.38%	0.78%	0.90%	0.80%	1.20%	1.37%	1.23%
2028	2,828,941	509,382	3,338,323	3,006,575	546,091	3,552,666	3,195,839	585,386	3,781,225	0.89%	0.44%	0.83%	1.31%	0.90%	1.24%	1.73%	1.36%	1.67%
2029	2,824,534	511,650	3,336,183	3,014,261	551,051	3,565,311	3,217,331	593,434	3,810,765	-0.16%	0.45%	-0.06%	0.26%	0.91%	0.36%	0.67%	1.37%	0.78%
2030	2,833,927	513,720	3,347,646	3,035,906	555,624	3,591,530	3,252,990	600,902	3,853,892	0.33%	0.40%	0.34%	0.72%	0.83%	0.74%	1.11%	1.26%	1.13%
2031	2,843,824	515,911	3,359,735	3,058,456	560,463	3,618,920	3,290,141	608,827	3,898,968	0.35%	0.43%	0.36%	0.74%	0.87%	0.76%	1.14%	1.32%	1.17%
2032	2,868,463	518,080	3,386,544	3,097,034	565,299	3,662,333	3,344,839	616,795	3,961,634	0.87%	0.42%	0.80%	1.26%	0.86%	1.20%	1.66%	1.31%	1.61%
2033	2,862,771	520,197	3,382,967	3,102,603	570,040	3,672,643	3,363,716	624,646	3,988,362	-0.20%	0.41%	-0.11%	0.18%	0.84%	0.28%	0.56%	1.27%	0.67%
2034	2,871,895	522,286	3,394,180	3,124,059	574,743	3,698,802	3,399,742	632,470	4,032,212	0.32%	0.40%	0.33%	0.69%	0.83%	0.71%	1.07%	1.25%	1.10%
2035	2,880,696	524,327	3,405,023	3,144,890	579,359	3,724,249	3,434,886	640,184	4,075,070	0.31%	0.39%	0.32%	0.67%	0.80%	0.69%	1.03%	1.22%	1.06%
2036	2,904,648	526,372	3,431,019	3,182,366	584,006	3,766,372	3,488,442	647,986	4,136,427	0.83%	0.39%	0.76%	1.19%	0.80%	1.13%	1.56%	1.22%	1.51%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	1,321	42,063	43,384	1,339	42,550	43,889	1,357	43,041	44,398	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,328	42,275	43,604	1,354	42,980	44,335	1,381	43,694	45,075	0.59%	0.50%	0.51%	1.17%	1.01%	1.02%	1.76%	1.52%	1.53%
2019	1,336	42,482	43,818	1,370	43,402	44,772	1,404	44,340	45,744	0.57%	0.49%	0.49%	1.14%	0.98%	0.99%	1.71%	1.48%	1.48%
2020	1,343	42,686	44,029	1,385	43,820	45,205	1,428	44,982	46,409	0.55%	0.48%	0.48%	1.11%	0.96%	0.97%	1.67%	1.45%	1.45%
2021	1,350	42,878	44,229	1,399	44,221	45,620	1,450	45,603	47,053	0.52%	0.45%	0.45%	1.05%	0.91%	0.92%	1.58%	1.38%	1.39%
2022	1,357	43,072	44,430	1,414	44,627	46,041	1,473	46,237	47,710	0.53%	0.45%	0.46%	1.06%	0.92%	0.92%	1.59%	1.39%	1.40%
2023	1,364	43,251	44,615	1,428	45,011	46,440	1,495	46,843	48,339	0.49%	0.41%	0.42%	0.99%	0.86%	0.86%	1.49%	1.31%	1.32%
2024	1,371	43,431	44,801	1,442	45,397	46,839	1,517	47,453	48,970	0.49%	0.42%	0.42%	0.98%	0.86%	0.86%	1.48%	1.30%	1.31%
2025	1,377	43,606	44,983	1,456	45,778	47,234	1,539	48,061	49,600	0.47%	0.40%	0.41%	0.96%	0.84%	0.84%	1.45%	1.28%	1.29%
2026	1,383	43,773	45,156	1,470	46,148	47,618	1,561	48,656	50,217	0.45%	0.38%	0.39%	0.92%	0.81%	0.81%	1.40%	1.24%	1.24%
2027	1,389	43,936	45,325	1,483	46,511	47,994	1,582	49,243	50,825	0.44%	0.37%	0.37%	0.90%	0.79%	0.79%	1.37%	1.21%	1.21%
2028	1,396	44,098	45,493	1,496	46,874	48,370	1,604	49,832	51,436	0.44%	0.37%	0.37%	0.90%	0.78%	0.78%	1.36%	1.20%	1.20%
2029	1,402	44,262	45,663	1,510	47,243	48,752	1,626	50,433	52,059	0.45%	0.37%	0.37%	0.91%	0.79%	0.79%	1.37%	1.21%	1.21%
2030	1,407	44,410	45,817	1,522	47,583	49,105	1,646	50,994	52,640	0.40%	0.33%	0.34%	0.83%	0.72%	0.72%	1.26%	1.11%	1.12%
2031	1,413	44,566	45,980	1,536	47,939	49,474	1,668	51,579	53,247	0.43%	0.35%	0.35%	0.87%	0.75%	0.75%	1.32%	1.15%	1.15%
2032	1,419	44,718	46,138	1,549	48,291	49,840	1,690	52,165	53,854	0.42%	0.34%	0.34%	0.86%	0.74%	0.74%	1.31%	1.13%	1.14%
2033	1,425	44,865	46,291	1,562	48,635	50,196	1,711	52,738	54,449	0.41%	0.33%	0.33%	0.84%	0.71%	0.72%	1.27%	1.10%	1.10%
2034	1,431	45,010	46,441	1,575	48,973	50,548	1,733	53,306	55,039	0.40%	0.32%	0.32%	0.83%	0.70%	0.70%	1.25%	1.08%	1.08%
2035	1,437	45,149	46,586	1,587	49,303	50,890	1,754	53,861	55,615	0.39%	0.31%	0.31%	0.80%	0.67%	0.68%	1.22%	1.04%	1.05%
2036	1,442	45,288	46,730	1,600	49,632	51,232	1,775	54,419	56,194	0.39%	0.31%	0.31%	0.80%	0.67%	0.67%	1.22%	1.04%	1.04%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,166,550	2,000,172	3,166,722	1,173,836	2,030,364	3,204,199	1,181,144	2,060,788	3,241,933	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,170,178	2,012,835	3,183,013	1,181,138	2,056,087	3,237,225	1,192,166	2,099,974	3,292,140	0.31%	0.63%	0.51%	0.62%	1.27%	1.03%	0.93%	1.90%	1.55%
2019	1,173,768	2,025,163	3,198,930	1,188,385	2,081,297	3,269,682	1,203,138	2,138,636	3,341,774	0.31%	0.61%	0.50%	0.61%	1.23%	1.00%	0.92%	1.84%	1.51%
2020	1,183,080	2,045,841	3,228,921	1,201,454	2,115,061	3,316,515	1,220,056	2,186,224	3,406,280	0.79%	1.02%	0.94%	1.10%	1.62%	1.43%	1.41%	2.23%	1.93%
2021	1,180,915	2,048,486	3,229,401	1,202,880	2,129,755	3,332,634	1,225,183	2,213,816	3,438,999	-0.18%	0.13%	0.01%	0.12%	0.69%	0.49%	0.42%	1.26%	0.96%
2022	1,184,446	2,059,906	3,244,352	1,210,072	2,153,856	3,363,928	1,236,172	2,251,630	3,487,802	0.30%	0.56%	0.46%	0.60%	1.13%	0.94%	0.90%	1.71%	1.42%
2023	1,187,939	2,070,179	3,258,118	1,217,209	2,176,301	3,393,510	1,247,109	2,287,373	3,534,482	0.29%	0.50%	0.42%	0.59%	1.04%	0.88%	0.88%	1.59%	1.34%
2024	1,197,196	2,089,367	3,286,563	1,230,253	2,208,139	3,438,392	1,264,119	2,333,152	3,597,271	0.78%	0.93%	0.87%	1.07%	1.46%	1.32%	1.36%	2.00%	1.78%
2025	1,194,814	2,090,697	3,285,512	1,231,320	2,221,208	3,452,528	1,268,825	2,359,338	3,628,163	-0.20%	0.06%	-0.03%	0.09%	0.59%	0.41%	0.37%	1.12%	0.86%
2026	1,198,197	2,100,226	3,298,424	1,238,292	2,242,755	3,481,047	1,279,603	2,394,405	3,674,008	0.28%	0.46%	0.39%	0.57%	0.97%	0.83%	0.85%	1.49%	1.26%
2027	1,201,491	2,109,511	3,311,002	1,245,100	2,263,887	3,508,988	1,290,156	2,428,988	3,719,144	0.27%	0.44%	0.38%	0.55%	0.94%	0.80%	0.82%	1.44%	1.23%
2028	1,210,616	2,127,707	3,338,323	1,257,949	2,294,717	3,552,666	1,306,985	2,474,240	3,781,225	0.76%	0.86%	0.83%	1.03%	1.36%	1.24%	1.30%	1.86%	1.67%
2029	1,207,946	2,128,237	3,336,183	1,258,497	2,306,815	3,565,311	1,311,005	2,499,760	3,810,765	-0.22%	0.02%	-0.06%	0.04%	0.53%	0.36%	0.31%	1.03%	0.78%
2030	1,211,055	2,136,591	3,347,646	1,264,975	2,326,555	3,591,530	1,321,129	2,532,763	3,853,892	0.26%	0.39%	0.34%	0.51%	0.86%	0.74%	0.77%	1.32%	1.13%
2031	1,214,051	2,145,684	3,359,735	1,271,234	2,347,685	3,618,920	1,330,934	2,568,034	3,898,968	0.25%	0.43%	0.36%	0.49%	0.91%	0.76%	0.74%	1.39%	1.17%
2032	1,222,835	2,163,709	3,386,544	1,283,438	2,378,895	3,662,333	1,346,859	2,614,775	3,961,634	0.72%	0.84%	0.80%	0.96%	1.33%	1.20%	1.20%	1.82%	1.61%
2033	1,219,629	2,163,338	3,382,967	1,282,929	2,389,715	3,672,643	1,349,320	2,639,041	3,988,362	-0.26%	-0.02%	-0.11%	-0.04%	0.45%	0.28%	0.18%	0.93%	0.67%
2034	1,222,213	2,171,968	3,394,180	1,288,364	2,410,438	3,698,802	1,357,895	2,674,316	4,032,212	0.21%	0.40%	0.33%	0.42%	0.87%	0.71%	0.64%	1.34%	1.10%
2035	1,224,687	2,180,336	3,405,023	1,293,580	2,430,669	3,724,249	1,366,141	2,708,928	4,075,070	0.20%	0.39%	0.32%	0.40%	0.84%	0.69%	0.61%	1.29%	1.06%
2036	1,233,001	2,198,019	3,431,019	1,304,844	2,461,528	3,766,372	1,380,659	2,755,768	4,136,427	0.68%	0.81%	0.76%	0.87%	1.27%	1.13%	1.06%	1.73%	1.51%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,334	537	2,871	2,348	546	2,894	2,363	555	2,917	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,341	541	2,882	2,363	553	2,916	2,385	566	2,951	0.31%	0.68%	0.38%	0.62%	1.36%	0.76%	0.93%	2.04%	1.14%
2019	2,348	545	2,893	2,377	561	2,938	2,407	577	2,984	0.31%	0.66%	0.37%	0.61%	1.33%	0.75%	0.92%	1.99%	1.13%
2020	2,355	548	2,903	2,392	568	2,960	2,429	589	3,018	0.30%	0.66%	0.37%	0.61%	1.33%	0.75%	0.91%	2.00%	1.12%
2021	2,362	552	2,914	2,406	575	2,982	2,451	600	3,051	0.30%	0.63%	0.36%	0.61%	1.25%	0.73%	0.91%	1.88%	1.10%
2022	2,369	555	2,925	2,421	583	3,003	2,473	611	3,084	0.30%	0.63%	0.36%	0.60%	1.26%	0.73%	0.90%	1.89%	1.09%
2023	2,376	559	2,935	2,435	590	3,024	2,495	622	3,117	0.29%	0.59%	0.35%	0.59%	1.18%	0.71%	0.88%	1.78%	1.06%
2024	2,383	562	2,945	2,449	596	3,045	2,516	633	3,149	0.29%	0.58%	0.35%	0.58%	1.15%	0.69%	0.87%	1.73%	1.04%
2025	2,390	565	2,955	2,463	603	3,066	2,538	644	3,182	0.29%	0.57%	0.34%	0.57%	1.15%	0.69%	0.86%	1.73%	1.04%
2026	2,397	568	2,965	2,477	610	3,087	2,560	655	3,214	0.28%	0.55%	0.33%	0.57%	1.11%	0.67%	0.85%	1.66%	1.01%
2027	2,403	571	2,974	2,491	616	3,107	2,581	665	3,246	0.27%	0.53%	0.32%	0.55%	1.06%	0.65%	0.82%	1.59%	0.98%
2028	2,410	574	2,984	2,504	623	3,127	2,602	675	3,277	0.27%	0.52%	0.32%	0.54%	1.05%	0.64%	0.81%	1.58%	0.97%
2029	2,416	577	2,993	2,517	629	3,147	2,622	686	3,309	0.27%	0.53%	0.32%	0.53%	1.06%	0.64%	0.80%	1.60%	0.96%
2030	2,423	580	3,002	2,530	636	3,166	2,643	696	3,339	0.26%	0.48%	0.30%	0.51%	0.96%	0.60%	0.77%	1.44%	0.91%
2031	2,429	583	3,011	2,543	642	3,185	2,662	707	3,369	0.25%	0.50%	0.30%	0.49%	1.00%	0.60%	0.74%	1.50%	0.90%
2032	2,434	586	3,020	2,555	648	3,203	2,681	717	3,398	0.24%	0.50%	0.29%	0.47%	1.01%	0.58%	0.71%	1.51%	0.87%
2033	2,440	588	3,028	2,566	655	3,221	2,699	728	3,427	0.22%	0.48%	0.27%	0.45%	0.97%	0.55%	0.67%	1.46%	0.84%
2034	2,445	591	3,036	2,577	661	3,238	2,716	738	3,454	0.21%	0.48%	0.26%	0.42%	0.96%	0.53%	0.64%	1.44%	0.81%
2035	2,450	594	3,044	2,588	667	3,255	2,733	748	3,481	0.20%	0.45%	0.25%	0.40%	0.91%	0.51%	0.61%	1.37%	0.77%
2036	2,455	597	3,051	2,598	673	3,271	2,748	759	3,507	0.19%	0.46%	0.24%	0.38%	0.92%	0.49%	0.57%	1.38%	0.75%





20 Year Customer Growth Rate	
High:	20.21%
Medium:	13.01%
Low:	6.28%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

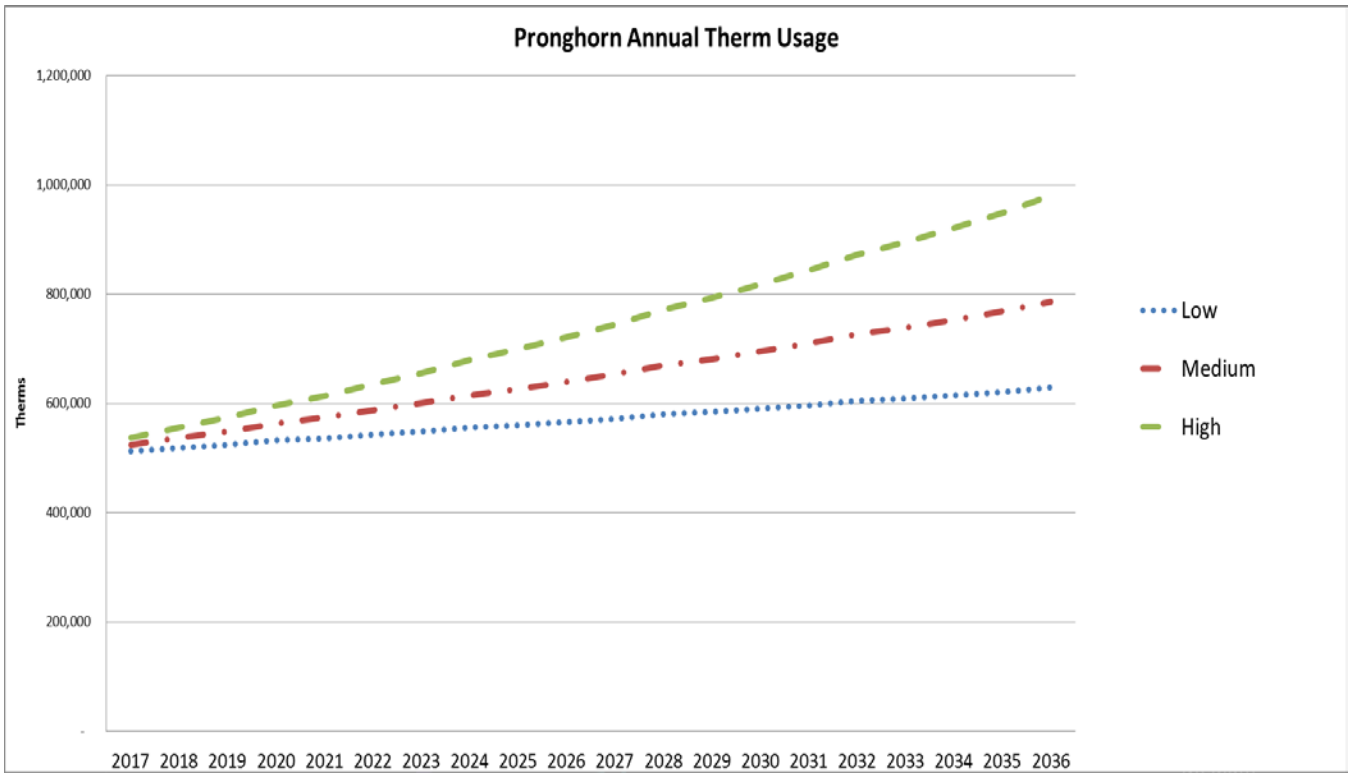
Pronghorn

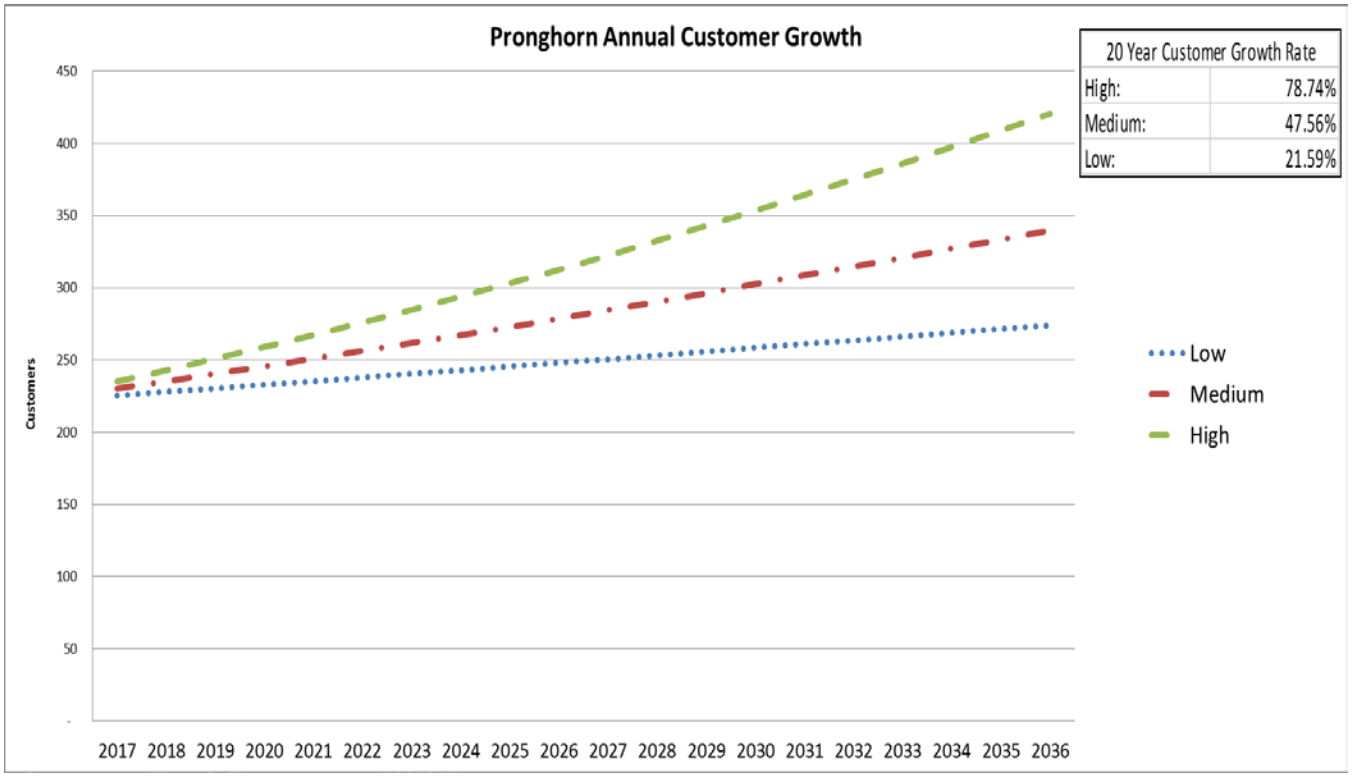
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	261,679	250,615	512,295	267,748	256,671	524,419	273,886	262,800	536,687	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	264,649	253,547	518,196	273,826	262,678	536,504	283,215	272,027	555,243	1.13%	1.17%	1.15%	2.27%	2.34%	2.30%	3.41%	3.51%	3.46%
2019	267,625	256,476	524,101	279,986	268,749	548,735	292,775	281,461	574,236	1.12%	1.16%	1.14%	2.25%	2.31%	2.28%	3.38%	3.47%	3.42%
2020	272,688	259,413	532,101	288,438	274,907	563,345	304,913	291,139	596,052	1.89%	1.15%	1.53%	3.02%	2.29%	2.66%	4.15%	3.44%	3.80%
2021	273,617	262,360	535,977	292,598	281,154	573,752	312,672	301,066	613,738	0.34%	1.14%	0.73%	1.44%	2.27%	1.85%	2.54%	3.41%	2.97%
2022	276,639	265,322	541,960	299,062	287,505	586,567	323,037	311,271	634,308	1.10%	1.13%	1.12%	2.21%	2.26%	2.23%	3.31%	3.39%	3.35%
2023	279,666	268,283	547,949	305,609	293,925	599,535	333,649	321,702	655,351	1.09%	1.12%	1.10%	2.19%	2.23%	2.21%	3.29%	3.35%	3.32%
2024	284,874	271,253	556,127	314,654	300,436	615,091	347,187	332,396	679,583	1.86%	1.11%	1.49%	2.96%	2.22%	2.59%	4.06%	3.32%	3.70%
2025	285,755	274,225	559,980	318,994	307,022	626,016	355,693	343,329	699,022	0.31%	1.10%	0.69%	1.38%	2.19%	1.78%	2.45%	3.29%	2.86%
2026	288,809	277,197	566,006	325,814	313,679	639,493	367,103	354,500	721,603	1.07%	1.08%	1.08%	2.14%	2.17%	2.15%	3.21%	3.25%	3.23%
2027	291,872	280,176	572,048	332,727	320,424	653,151	378,791	365,937	744,729	1.06%	1.07%	1.07%	2.12%	2.15%	2.14%	3.18%	3.23%	3.20%
2028	297,201	283,157	580,359	342,333	327,244	669,577	393,748	377,624	771,372	1.83%	1.06%	1.45%	2.89%	2.13%	2.51%	3.95%	3.19%	3.58%
2029	298,020	286,148	584,168	346,823	334,158	680,981	402,994	389,596	792,590	0.28%	1.06%	0.66%	1.31%	2.11%	1.70%	2.35%	3.17%	2.75%
2030	301,107	289,142	590,249	354,010	341,154	695,164	415,524	401,834	817,358	1.04%	1.05%	1.04%	2.07%	2.09%	2.08%	3.11%	3.14%	3.12%
2031	304,192	292,136	596,328	361,266	348,222	709,488	428,303	414,325	842,628	1.02%	1.04%	1.03%	2.05%	2.07%	2.06%	3.08%	3.11%	3.09%
2032	309,626	295,123	604,748	371,408	355,344	726,752	444,703	427,041	871,744	1.79%	1.02%	1.41%	2.81%	2.05%	2.43%	3.83%	3.07%	3.46%
2033	310,344	298,106	608,450	375,955	362,531	738,486	454,563	440,001	894,564	0.23%	1.01%	0.61%	1.22%	2.02%	1.61%	2.22%	3.03%	2.62%
2034	313,416	301,089	614,505	383,400	369,789	753,189	468,069	453,220	921,289	0.99%	1.00%	1.00%	1.98%	2.00%	1.99%	2.97%	3.00%	2.99%
2035	316,486	304,073	620,559	390,914	377,122	768,035	481,834	466,705	948,539	0.98%	0.99%	0.99%	1.96%	1.98%	1.97%	2.94%	2.98%	2.96%
2036	322,002	307,052	629,053	401,550	384,513	786,063	499,659	480,431	980,090	1.74%	0.98%	1.37%	2.72%	1.96%	2.35%	3.70%	2.94%	3.33%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	687	4,227	4,914	703	4,325	5,028	720	4,424	5,144	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	695	4,275	4,970	720	4,423	5,143	745	4,575	5,320	1.17%	1.13%	1.14%	2.34%	2.27%	2.28%	3.51%	3.40%	3.42%
2019	703	4,323	5,026	736	4,523	5,259	771	4,729	5,500	1.16%	1.12%	1.13%	2.31%	2.25%	2.26%	3.47%	3.37%	3.39%
2020	711	4,372	5,082	753	4,624	5,377	798	4,887	5,685	1.15%	1.12%	1.12%	2.29%	2.23%	2.24%	3.44%	3.35%	3.36%
2021	719	4,420	5,139	770	4,726	5,497	825	5,050	5,875	1.14%	1.11%	1.11%	2.27%	2.22%	2.23%	3.41%	3.33%	3.34%
2022	727	4,469	5,196	788	4,831	5,618	853	5,217	6,070	1.13%	1.10%	1.11%	2.26%	2.21%	2.21%	3.39%	3.31%	3.32%
2023	735	4,518	5,253	805	4,936	5,741	881	5,389	6,270	1.12%	1.09%	1.10%	2.23%	2.19%	2.19%	3.35%	3.28%	3.29%
2024	743	4,567	5,310	823	5,044	5,867	911	5,564	6,475	1.11%	1.09%	1.09%	2.22%	2.17%	2.18%	3.32%	3.26%	3.27%
2025	751	4,616	5,367	841	5,152	5,993	941	5,744	6,685	1.10%	1.08%	1.08%	2.19%	2.16%	2.16%	3.29%	3.23%	3.24%
2026	759	4,665	5,425	859	5,262	6,122	971	5,928	6,900	1.08%	1.07%	1.07%	2.17%	2.14%	2.14%	3.25%	3.21%	3.21%
2027	768	4,715	5,482	878	5,374	6,252	1,003	6,117	7,120	1.07%	1.06%	1.06%	2.15%	2.12%	2.12%	3.23%	3.18%	3.19%
2028	776	4,764	5,540	897	5,487	6,383	1,035	6,310	7,345	1.06%	1.05%	1.05%	2.13%	2.10%	2.11%	3.19%	3.15%	3.16%
2029	784	4,814	5,598	916	5,601	6,517	1,067	6,508	7,575	1.06%	1.04%	1.05%	2.11%	2.09%	2.09%	3.17%	3.13%	3.14%
2030	792	4,864	5,656	935	5,718	6,652	1,101	6,710	7,811	1.05%	1.04%	1.04%	2.09%	2.07%	2.07%	3.14%	3.11%	3.11%
2031	800	4,914	5,714	954	5,835	6,789	1,135	6,916	8,051	1.04%	1.02%	1.03%	2.07%	2.05%	2.05%	3.11%	3.07%	3.08%
2032	809	4,963	5,772	974	5,953	6,926	1,170	7,126	8,296	1.02%	1.01%	1.01%	2.05%	2.02%	2.03%	3.07%	3.04%	3.04%
2033	817	5,013	5,830	993	6,072	7,065	1,205	7,340	8,546	1.01%	1.00%	1.00%	2.02%	2.00%	2.00%	3.03%	3.00%	3.01%
2034	825	5,063	5,887	1,013	6,192	7,205	1,242	7,558	8,800	1.00%	0.99%	0.99%	2.00%	1.98%	1.98%	3.00%	2.97%	2.97%
2035	833	5,112	5,945	1,033	6,313	7,346	1,279	7,780	9,059	0.99%	0.98%	0.98%	1.98%	1.96%	1.96%	2.98%	2.94%	2.94%
2036	841	5,162	6,003	1,053	6,436	7,489	1,316	8,007	9,323	0.98%	0.97%	0.97%	1.96%	1.94%	1.94%	2.94%	2.91%	2.91%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	301,602	210,692	512,295	308,026	216,393	524,419	314,518	222,169	536,687	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	304,820	213,375	518,196	314,599	221,904	536,504	324,585	230,657	555,243	1.07%	1.27%	1.15%	2.13%	2.55%	2.30%	3.20%	3.82%	3.46%
2019	308,067	216,035	524,101	321,300	227,435	548,735	334,955	239,281	574,236	1.06%	1.25%	1.14%	2.13%	2.49%	2.28%	3.19%	3.74%	3.42%
2020	312,601	219,501	532,101	329,454	233,890	563,345	347,027	249,025	596,052	1.47%	1.60%	1.53%	2.54%	2.84%	2.66%	3.60%	4.07%	3.80%
2021	314,634	221,343	535,977	335,071	238,681	573,752	356,603	257,135	613,738	0.65%	0.84%	0.73%	1.70%	2.05%	1.85%	2.76%	3.26%	2.97%
2022	317,956	224,004	541,960	342,147	244,420	586,567	367,899	266,409	634,308	1.06%	1.20%	1.12%	2.11%	2.40%	2.23%	3.17%	3.61%	3.35%
2023	321,301	226,648	547,949	349,345	250,189	599,535	379,508	275,842	655,351	1.05%	1.18%	1.10%	2.10%	2.36%	2.21%	3.16%	3.54%	3.32%
2024	325,988	230,139	556,127	358,121	256,969	615,091	393,039	286,544	679,583	1.46%	1.54%	1.49%	2.51%	2.71%	2.59%	3.57%	3.88%	3.70%
2025	328,060	231,920	559,980	364,121	261,895	626,016	403,711	295,311	699,022	0.64%	0.77%	0.69%	1.68%	1.92%	1.78%	2.72%	3.06%	2.86%
2026	331,469	234,537	566,006	371,688	267,805	639,493	416,295	305,308	721,603	1.04%	1.13%	1.08%	2.08%	2.26%	2.15%	3.12%	3.39%	3.23%
2027	334,894	237,155	572,048	379,368	273,783	653,151	429,198	315,531	744,729	1.03%	1.12%	1.07%	2.07%	2.23%	2.14%	3.10%	3.35%	3.20%
2028	339,706	240,653	580,359	388,731	280,846	669,577	444,217	327,155	771,372	1.44%	1.47%	1.45%	2.47%	2.58%	2.51%	3.50%	3.68%	3.58%
2029	341,787	242,381	584,168	395,066	285,915	680,981	455,973	336,617	792,590	0.61%	0.72%	0.66%	1.63%	1.81%	1.70%	2.65%	2.89%	2.75%
2030	345,257	244,992	590,249	403,087	292,076	695,164	469,860	347,498	817,358	1.02%	1.08%	1.04%	2.03%	2.15%	2.08%	3.05%	3.23%	3.12%
2031	348,720	247,608	596,328	411,173	298,314	709,488	483,998	358,630	842,628	1.00%	1.07%	1.03%	2.01%	2.14%	2.06%	3.01%	3.20%	3.09%
2032	353,605	251,144	604,748	421,024	305,728	726,752	500,408	371,335	871,744	1.40%	1.43%	1.41%	2.40%	2.49%	2.43%	3.39%	3.54%	3.46%
2033	355,626	252,824	608,450	427,539	310,948	738,486	513,035	381,530	894,564	0.57%	0.67%	0.61%	1.55%	1.71%	1.61%	2.52%	2.75%	2.62%
2034	359,070	255,435	614,505	435,820	317,369	753,189	527,940	393,348	921,289	0.97%	1.03%	1.00%	1.94%	2.07%	1.99%	2.91%	3.10%	2.99%
2035	362,507	258,051	620,559	444,164	323,872	768,035	543,102	405,437	948,539	0.96%	1.02%	0.99%	1.91%	2.05%	1.97%	2.87%	3.07%	2.96%
2036	367,425	261,628	629,053	454,412	331,651	786,063	560,797	419,293	980,090	1.36%	1.39%	1.37%	2.31%	2.40%	2.35%	3.26%	3.42%	3.33%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	201	25	225	205	25	230	209	26	235	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	203	25	228	209	26	235	216	27	243	1.07%	1.27%	1.09%	2.13%	2.55%	2.18%	3.20%	3.82%	3.27%
2019	205	25	230	214	27	240	223	28	251	1.06%	1.25%	1.08%	2.13%	2.49%	2.17%	3.19%	3.74%	3.26%
2020	207	26	233	218	27	246	230	29	259	1.06%	1.23%	1.08%	2.12%	2.46%	2.16%	3.19%	3.69%	3.24%
2021	209	26	235	223	28	251	237	30	267	1.06%	1.21%	1.08%	2.12%	2.43%	2.15%	3.18%	3.64%	3.23%
2022	212	26	238	228	29	256	245	31	276	1.06%	1.20%	1.07%	2.11%	2.40%	2.14%	3.17%	3.61%	3.22%
2023	214	27	240	233	29	262	253	32	285	1.05%	1.18%	1.07%	2.10%	2.36%	2.13%	3.16%	3.54%	3.20%
2024	216	27	243	237	30	267	261	33	294	1.05%	1.17%	1.06%	2.10%	2.33%	2.12%	3.15%	3.50%	3.19%
2025	218	27	245	242	31	273	269	35	303	1.04%	1.15%	1.06%	2.09%	2.29%	2.11%	3.13%	3.44%	3.17%
2026	221	27	248	247	31	279	277	36	313	1.04%	1.13%	1.05%	2.08%	2.26%	2.10%	3.12%	3.39%	3.15%
2027	223	28	251	252	32	285	286	37	323	1.03%	1.12%	1.04%	2.07%	2.23%	2.08%	3.10%	3.35%	3.13%
2028	225	28	253	258	33	290	294	38	333	1.03%	1.10%	1.04%	2.05%	2.20%	2.07%	3.08%	3.30%	3.11%
2029	227	28	256	263	33	296	303	39	343	1.02%	1.09%	1.03%	2.04%	2.18%	2.06%	3.06%	3.27%	3.09%
2030	230	29	258	268	34	302	313	41	353	1.02%	1.08%	1.02%	2.03%	2.15%	2.04%	3.05%	3.23%	3.07%
2031	232	29	261	274	35	309	322	42	364	1.00%	1.07%	1.01%	2.01%	2.14%	2.02%	3.01%	3.20%	3.03%
2032	234	29	264	279	36	315	332	43	375	0.99%	1.05%	1.00%	1.98%	2.11%	2.00%	2.97%	3.16%	2.99%
2033	237	30	266	285	36	321	341	45	386	0.98%	1.04%	0.99%	1.96%	2.08%	1.97%	2.94%	3.13%	2.96%
2034	239	30	269	290	37	327	351	46	397	0.97%	1.03%	0.98%	1.94%	2.07%	1.95%	2.91%	3.10%	2.93%
2035	241	30	271	296	38	334	361	47	409	0.96%	1.02%	0.96%	1.91%	2.05%	1.93%	2.87%	3.07%	2.90%
2036	244	31	274	301	39	340	372	49	421	0.95%	1.01%	0.95%	1.89%	2.02%	1.91%	2.84%	3.04%	2.86%





20 Year Customer Growth Rate	
High:	78.74%
Medium:	47.56%
Low:	21.59%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Redmond

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	6,211,082	1,710,778	7,921,860	6,358,234	1,747,600	8,105,834	6,507,148	1,784,837	8,291,985
2018	6,282,202	1,728,087	8,010,288	6,503,913	1,783,012	8,286,925	6,730,891	1,839,161	8,570,052
2019	6,353,171	1,745,153	8,098,323	6,650,959	1,818,309	8,469,269	6,959,307	1,893,895	8,853,202
2020	6,460,330	1,762,018	8,222,348	6,838,088	1,853,570	8,691,659	7,233,665	1,949,164	9,182,829
2021	6,495,505	1,778,798	8,274,302	6,950,917	1,889,030	8,839,947	7,433,154	2,005,335	9,438,490
2022	6,567,041	1,795,483	8,362,523	7,104,217	1,924,669	9,028,886	7,679,363	2,062,395	9,741,758
2023	6,638,558	1,811,998	8,450,556	7,259,181	1,960,325	9,219,507	7,930,985	2,120,094	10,051,079
2024	6,747,981	1,828,484	8,576,466	7,457,966	1,996,294	9,454,259	8,234,887	2,178,906	10,413,793
2025	6,782,032	1,844,847	8,626,879	7,575,194	2,032,372	9,607,566	8,452,515	2,238,523	10,691,038
2026	6,853,834	1,861,144	8,714,978	7,735,919	2,068,680	9,804,600	8,722,039	2,299,143	11,021,182
2027	6,925,797	1,877,412	8,803,209	7,898,730	2,105,299	10,004,028	8,997,957	2,360,912	11,358,869
2028	7,037,156	1,893,628	8,930,784	8,108,755	2,142,179	10,250,934	9,332,190	2,423,763	11,755,953
2029	7,070,108	1,909,834	8,979,942	8,230,430	2,179,415	10,409,845	9,569,003	2,487,870	12,056,873
2030	7,142,496	1,926,002	9,068,499	8,399,439	2,216,945	10,616,384	9,864,498	2,553,145	12,417,643
2031	7,214,896	1,942,177	9,157,073	8,570,229	2,254,861	10,825,090	10,166,186	2,619,741	12,785,927
2032	7,328,081	1,958,289	9,286,370	8,791,519	2,293,008	11,084,527	10,532,257	2,687,410	13,219,667
2033	7,359,335	1,974,336	9,333,671	8,916,219	2,331,381	11,247,600	10,786,720	2,756,165	13,542,885
2034	7,431,510	1,990,356	9,421,866	9,091,736	2,370,068	11,461,805	11,106,253	2,826,162	13,932,415
2035	7,503,723	2,006,393	9,510,115	9,269,098	2,409,162	11,678,260	11,432,339	2,897,569	14,329,908
2036	7,618,432	2,022,361	9,640,794	9,501,131	2,448,478	11,949,609	11,830,675	2,970,090	14,800,765

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.15%	1.01%	1.12%	2.29%	2.03%	2.23%	3.44%	3.04%	3.35%
2019	1.13%	0.99%	1.10%	2.26%	1.98%	2.20%	3.39%	2.98%	3.30%
2020	1.69%	0.97%	1.53%	2.81%	1.94%	2.63%	3.94%	2.92%	3.72%
2021	0.54%	0.95%	0.63%	1.65%	1.91%	1.71%	2.76%	2.88%	2.78%
2022	1.10%	0.94%	1.07%	2.21%	1.89%	2.14%	3.31%	2.85%	3.21%
2023	1.09%	0.92%	1.05%	2.18%	1.85%	2.11%	3.28%	2.80%	3.18%
2024	1.65%	0.91%	1.49%	2.74%	1.83%	2.55%	3.83%	2.77%	3.61%
2025	0.50%	0.89%	0.59%	1.57%	1.81%	1.62%	2.64%	2.74%	2.66%
2026	1.06%	0.88%	1.02%	2.12%	1.79%	2.05%	3.19%	2.71%	3.09%
2027	1.05%	0.87%	1.01%	2.10%	1.77%	2.03%	3.16%	2.69%	3.06%
2028	1.61%	0.86%	1.45%	2.66%	1.75%	2.47%	3.71%	2.66%	3.50%
2029	0.47%	0.86%	0.55%	1.50%	1.74%	1.55%	2.54%	2.64%	2.56%
2030	1.02%	0.85%	0.99%	2.05%	1.72%	1.98%	3.09%	2.62%	2.99%
2031	1.01%	0.84%	0.98%	2.03%	1.71%	1.97%	3.06%	2.61%	2.97%
2032	1.57%	0.83%	1.41%	2.58%	1.69%	2.40%	3.60%	2.58%	3.39%
2033	0.43%	0.82%	0.51%	1.42%	1.67%	1.47%	2.42%	2.56%	2.44%
2034	0.98%	0.81%	0.94%	1.97%	1.66%	1.90%	2.96%	2.54%	2.88%
2035	0.97%	0.81%	0.94%	1.95%	1.65%	1.89%	2.94%	2.53%	2.85%
2036	1.53%	0.80%	1.37%	2.50%	1.63%	2.32%	3.48%	2.50%	3.29%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	4,687	97,623	102,310	4,788	99,927	104,715	4,890	102,258	107,148
2018	4,734	98,735	103,470	4,885	102,206	107,091	5,039	105,759	110,798
2019	4,781	99,846	104,627	4,982	104,507	109,488	5,189	109,333	114,521
2020	4,827	100,957	105,785	5,078	106,836	111,914	5,340	112,991	118,331
2021	4,873	102,072	106,945	5,175	109,197	114,372	5,494	116,741	122,235
2022	4,919	103,190	108,109	5,273	111,593	116,866	5,650	120,589	126,240
2023	4,964	104,308	109,272	5,371	114,015	119,386	5,808	124,521	130,330
2024	5,010	105,429	110,438	5,469	116,470	121,939	5,970	128,550	134,520
2025	5,054	106,550	111,604	5,568	118,952	124,521	6,133	132,668	138,801
2026	5,099	107,671	112,770	5,668	121,463	127,131	6,299	136,878	143,177
2027	5,144	108,796	113,939	5,768	124,006	129,774	6,468	141,187	147,656
2028	5,188	109,921	115,109	5,869	126,579	132,448	6,640	145,592	152,233
2029	5,232	111,050	116,282	5,971	129,186	135,157	6,816	150,104	156,920
2030	5,277	112,180	117,457	6,074	131,825	137,899	6,995	154,718	161,712
2031	5,321	113,311	118,632	6,178	134,492	140,670	7,177	159,428	166,605
2032	5,365	114,439	119,804	6,282	137,181	143,463	7,363	164,224	171,587
2033	5,409	115,567	120,976	6,387	139,894	146,282	7,551	169,114	176,666
2034	5,453	116,694	122,147	6,493	142,634	149,128	7,743	174,102	181,845
2035	5,497	117,821	123,318	6,600	145,403	152,004	7,939	179,192	187,130
2036	5,541	118,948	124,488	6,708	148,197	154,905	8,137	184,378	192,515

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.01%	1.14%	1.13%	2.03%	2.28%	2.27%	3.04%	3.42%	3.41%
2019	0.99%	1.12%	1.12%	1.98%	2.25%	2.24%	2.98%	3.38%	3.36%
2020	0.97%	1.11%	1.11%	1.94%	2.23%	2.22%	2.92%	3.35%	3.33%
2021	0.95%	1.10%	1.10%	1.91%	2.21%	2.20%	2.88%	3.32%	3.30%
2022	0.94%	1.10%	1.09%	1.89%	2.19%	2.18%	2.85%	3.30%	3.28%
2023	0.92%	1.08%	1.08%	1.85%	2.17%	2.16%	2.80%	3.26%	3.24%
2024	0.91%	1.07%	1.07%	1.83%	2.15%	2.14%	2.77%	3.24%	3.22%
2025	0.89%	1.06%	1.06%	1.81%	2.13%	2.12%	2.74%	3.20%	3.18%
2026	0.88%	1.05%	1.05%	1.79%	2.11%	2.10%	2.71%	3.17%	3.15%
2027	0.87%	1.04%	1.04%	1.77%	2.09%	2.08%	2.69%	3.15%	3.13%
2028	0.86%	1.03%	1.03%	1.75%	2.07%	2.06%	2.66%	3.12%	3.10%
2029	0.86%	1.03%	1.02%	1.74%	2.06%	2.05%	2.64%	3.10%	3.08%
2030	0.85%	1.02%	1.01%	1.72%	2.04%	2.03%	2.62%	3.07%	3.05%
2031	0.84%	1.01%	1.00%	1.71%	2.02%	2.01%	2.61%	3.04%	3.03%
2032	0.83%	1.00%	0.99%	1.69%	2.00%	1.99%	2.58%	3.01%	2.99%
2033	0.82%	0.99%	0.98%	1.67%	1.98%	1.96%	2.56%	2.98%	2.96%
2034	0.81%	0.98%	0.97%	1.66%	1.96%	1.95%	2.54%	2.95%	2.93%
2035	0.81%	0.97%	0.96%	1.65%	1.94%	1.93%	2.53%	2.92%	2.91%
2036	0.80%	0.96%	0.95%	1.63%	1.92%	1.91%	2.50%	2.89%	2.88%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	4,130,257	3,791,603	7,921,860	4,218,227	3,887,607	8,105,834	4,307,124	3,984,861	8,291,985
2018	4,174,327	3,835,961	8,010,288	4,308,244	3,978,681	8,286,925	4,444,995	4,125,056	8,570,052
2019	4,218,782	3,879,542	8,098,323	4,400,005	4,069,263	8,469,269	4,587,005	4,266,197	8,853,202
2020	4,283,331	3,939,016	8,222,348	4,514,262	4,177,397	8,691,659	4,755,046	4,427,782	9,182,829
2021	4,308,718	3,965,584	8,274,302	4,588,595	4,251,352	8,839,947	4,883,459	4,555,030	9,438,490
2022	4,354,213	4,008,311	8,362,523	4,685,493	4,343,392	9,028,886	5,038,147	4,703,610	9,741,758
2023	4,400,014	4,050,542	8,450,556	4,784,066	4,435,441	9,219,507	5,197,135	4,853,944	10,051,079
2024	4,466,770	4,109,696	8,576,466	4,907,062	4,547,197	9,454,259	5,385,517	5,028,276	10,413,793
2025	4,492,586	4,134,292	8,626,879	4,986,418	4,621,147	9,607,566	5,528,578	5,162,459	10,691,038
2026	4,539,264	4,175,714	8,714,978	5,090,036	4,714,564	9,804,600	5,700,903	5,320,279	11,021,182
2027	4,586,161	4,217,047	8,803,209	5,195,211	4,808,818	10,004,028	5,877,599	5,481,269	11,358,869
2028	4,654,731	4,276,054	8,930,784	5,326,488	4,924,446	10,250,934	6,086,763	5,669,190	11,755,953
2029	4,680,567	4,299,374	8,979,942	5,410,187	4,999,658	10,409,845	6,244,268	5,812,605	12,056,873
2030	4,728,084	4,340,414	9,068,499	5,520,035	5,096,349	10,616,384	6,434,443	5,983,200	12,417,643
2031	4,775,507	4,381,566	9,157,073	5,630,766	5,194,324	10,825,090	6,628,054	6,157,873	12,785,927
2032	4,845,176	4,441,195	9,286,370	5,768,967	5,315,560	11,084,527	6,856,714	6,362,953	13,219,667
2033	4,870,079	4,463,591	9,333,671	5,854,879	5,392,721	11,247,600	7,025,694	6,517,191	13,542,885
2034	4,917,244	4,504,622	9,421,866	5,968,284	5,493,521	11,461,805	7,229,818	6,702,597	13,932,415
2035	4,964,316	4,545,800	9,510,115	6,082,549	5,595,712	11,678,260	7,437,444	6,892,463	14,329,908
2036	5,034,546	4,606,248	9,640,794	6,226,463	5,723,146	11,949,609	7,684,170	7,116,595	14,800,765

Annual Change

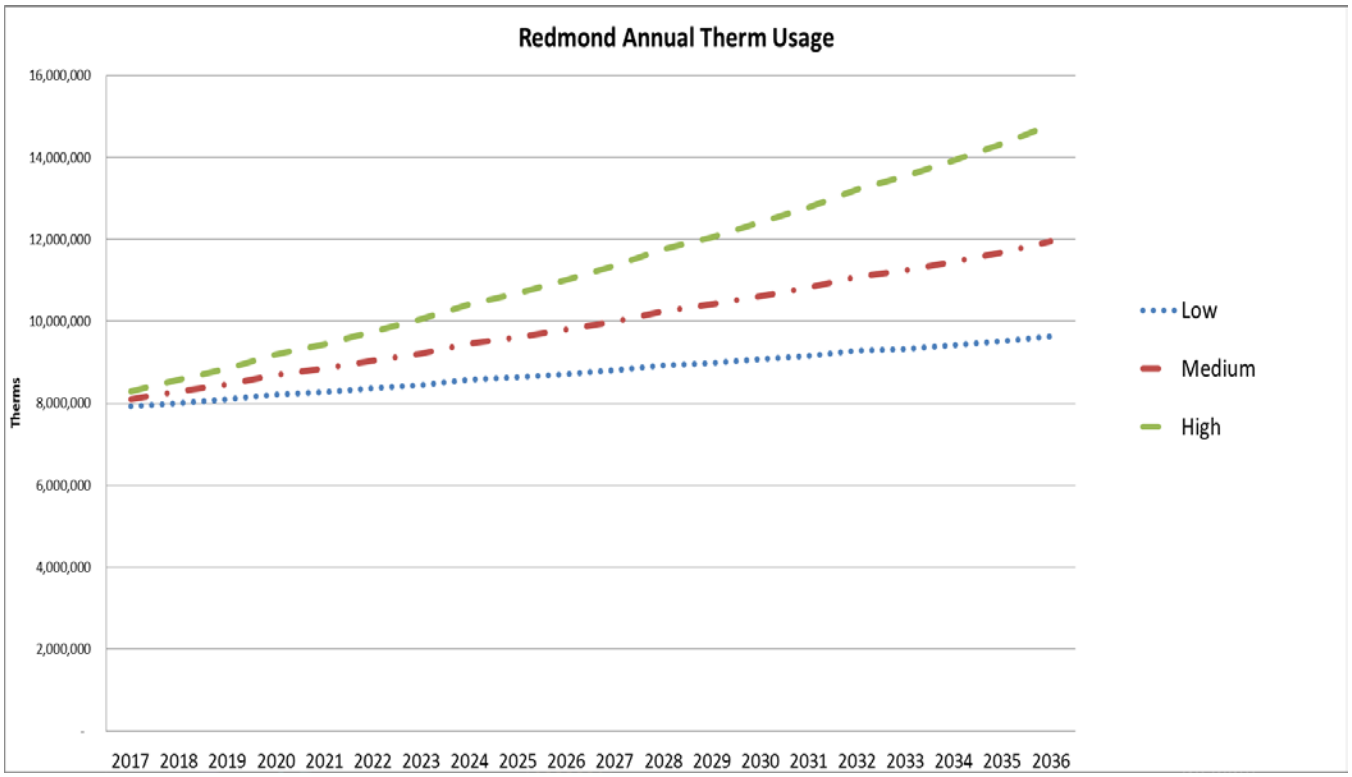
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.07%	1.17%	1.12%	2.13%	2.34%	2.23%	3.20%	3.52%	3.35%
2019	1.06%	1.14%	1.10%	2.13%	2.28%	2.20%	3.19%	3.42%	3.30%
2020	1.53%	1.53%	1.53%	2.60%	2.66%	2.63%	3.66%	3.79%	3.72%
2021	0.59%	0.67%	0.63%	1.65%	1.77%	1.71%	2.70%	2.87%	2.78%
2022	1.06%	1.08%	1.07%	2.11%	2.16%	2.14%	3.17%	3.26%	3.21%
2023	1.05%	1.05%	1.05%	2.10%	2.12%	2.11%	3.16%	3.20%	3.18%
2024	1.52%	1.46%	1.49%	2.57%	2.52%	2.55%	3.62%	3.59%	3.61%
2025	0.58%	0.60%	0.59%	1.62%	1.63%	1.62%	2.66%	2.67%	2.66%
2026	1.04%	1.00%	1.02%	2.08%	2.02%	2.05%	3.12%	3.06%	3.09%
2027	1.03%	0.99%	1.01%	2.07%	2.00%	2.03%	3.10%	3.03%	3.06%
2028	1.50%	1.40%	1.45%	2.53%	2.40%	2.47%	3.56%	3.43%	3.50%
2029	0.56%	0.55%	0.55%	1.57%	1.53%	1.55%	2.59%	2.53%	2.56%
2030	1.02%	0.95%	0.99%	2.03%	1.93%	1.98%	3.05%	2.93%	2.99%
2031	1.00%	0.95%	0.98%	2.01%	1.92%	1.97%	3.01%	2.92%	2.97%
2032	1.46%	1.36%	1.41%	2.45%	2.33%	2.40%	3.45%	3.33%	3.39%
2033	0.51%	0.50%	0.51%	1.49%	1.45%	1.47%	2.46%	2.42%	2.44%
2034	0.97%	0.92%	0.94%	1.94%	1.87%	1.90%	2.91%	2.84%	2.88%
2035	0.96%	0.91%	0.94%	1.91%	1.86%	1.89%	2.87%	2.83%	2.85%
2036	1.41%	1.33%	1.37%	2.37%	2.28%	2.32%	3.32%	3.25%	3.29%

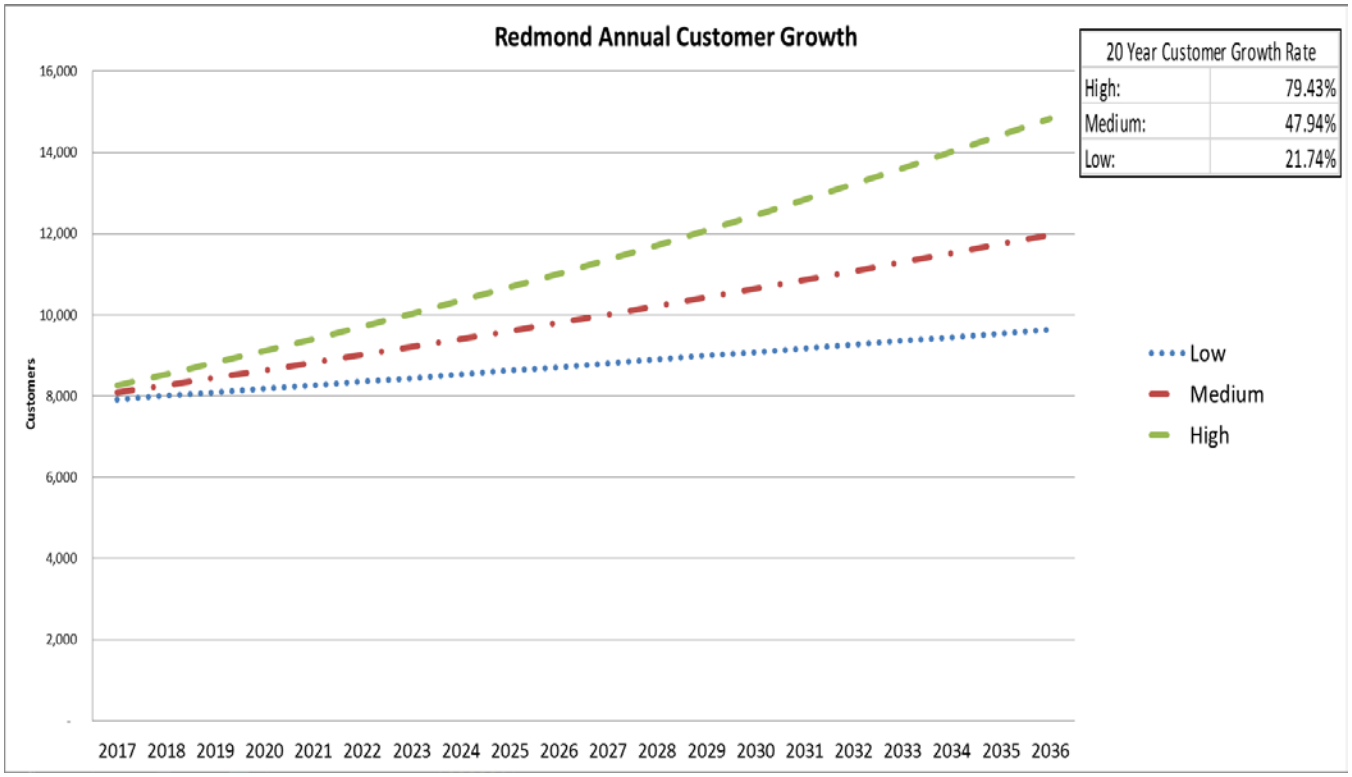
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	6,744	1,171	7,916	6,888	1,204	8,092	7,033	1,237	8,270
2018	6,816	1,186	8,003	7,035	1,235	8,270	7,258	1,285	8,543
2019	6,889	1,201	8,090	7,185	1,266	8,451	7,490	1,334	8,824
2020	6,962	1,216	8,179	7,338	1,298	8,635	7,729	1,384	9,112
2021	7,036	1,231	8,267	7,493	1,330	8,823	7,974	1,435	9,409
2022	7,110	1,246	8,357	7,651	1,362	9,013	8,227	1,487	9,714
2023	7,185	1,261	8,446	7,812	1,395	9,207	8,487	1,540	10,027
2024	7,260	1,276	8,537	7,976	1,428	9,404	8,754	1,595	10,349
2025	7,336	1,291	8,627	8,143	1,461	9,603	9,028	1,651	10,678
2026	7,412	1,306	8,718	8,312	1,494	9,806	9,309	1,707	11,017
2027	7,489	1,321	8,809	8,483	1,528	10,012	9,598	1,765	11,363
2028	7,566	1,335	8,901	8,658	1,562	10,220	9,893	1,824	11,718
2029	7,643	1,350	8,993	8,835	1,597	10,431	10,197	1,885	12,082
2030	7,721	1,365	9,085	9,014	1,632	10,646	10,507	1,947	12,454
2031	7,798	1,380	9,178	9,195	1,667	10,862	10,823	2,010	12,834
2032	7,875	1,394	9,270	9,377	1,703	11,080	11,145	2,075	13,220
2033	7,953	1,409	9,362	9,561	1,739	11,300	11,473	2,141	13,614
2034	8,030	1,424	9,454	9,746	1,776	11,521	11,806	2,209	14,015
2035	8,106	1,439	9,545	9,932	1,813	11,745	12,145	2,278	14,423
2036	8,183	1,454	9,637	10,121	1,850	11,971	12,490	2,349	14,839

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.07%	1.30%	1.10%	2.13%	2.60%	2.20%	3.20%	3.89%	3.30%
2019	1.06%	1.27%	1.09%	2.13%	2.53%	2.19%	3.19%	3.80%	3.29%
2020	1.06%	1.25%	1.09%	2.12%	2.50%	2.18%	3.19%	3.74%	3.27%
2021	1.06%	1.23%	1.08%	2.12%	2.46%	2.17%	3.18%	3.69%	3.26%
2022	1.06%	1.22%	1.08%	2.11%	2.44%	2.16%	3.17%	3.66%	3.24%
2023	1.05%	1.20%	1.07%	2.10%	2.39%	2.15%	3.16%	3.59%	3.22%
2024	1.05%	1.18%	1.07%	2.10%	2.36%	2.14%	3.15%	3.54%	3.21%
2025	1.04%	1.16%	1.06%	2.09%	2.32%	2.12%	3.13%	3.49%	3.19%
2026	1.04%	1.14%	1.05%	2.08%	2.29%	2.11%	3.12%	3.43%	3.17%
2027	1.03%	1.13%	1.05%	2.07%	2.26%	2.10%	3.10%	3.39%	3.15%
2028	1.03%	1.12%	1.04%	2.05%	2.23%	2.08%	3.08%	3.35%	3.12%
2029	1.02%	1.11%	1.03%	2.04%	2.21%	2.07%	3.06%	3.32%	3.10%
2030	1.02%	1.09%	1.03%	2.03%	2.19%	2.05%	3.05%	3.28%	3.08%
2031	1.00%	1.08%	1.02%	2.01%	2.17%	2.03%	3.01%	3.26%	3.05%
2032	0.99%	1.07%	1.00%	1.98%	2.14%	2.01%	2.97%	3.22%	3.01%
2033	0.98%	1.06%	0.99%	1.96%	2.12%	1.98%	2.94%	3.19%	2.98%
2034	0.97%	1.05%	0.98%	1.94%	2.11%	1.96%	2.91%	3.16%	2.95%
2035	0.96%	1.04%	0.97%	1.91%	2.09%	1.94%	2.87%	3.14%	2.91%
2036	0.95%	1.03%	0.96%	1.89%	2.07%	1.92%	2.84%	3.11%	2.88%





20 Year Customer Growth Rate	
High:	79.43%
Medium:	47.94%
Low:	21.74%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

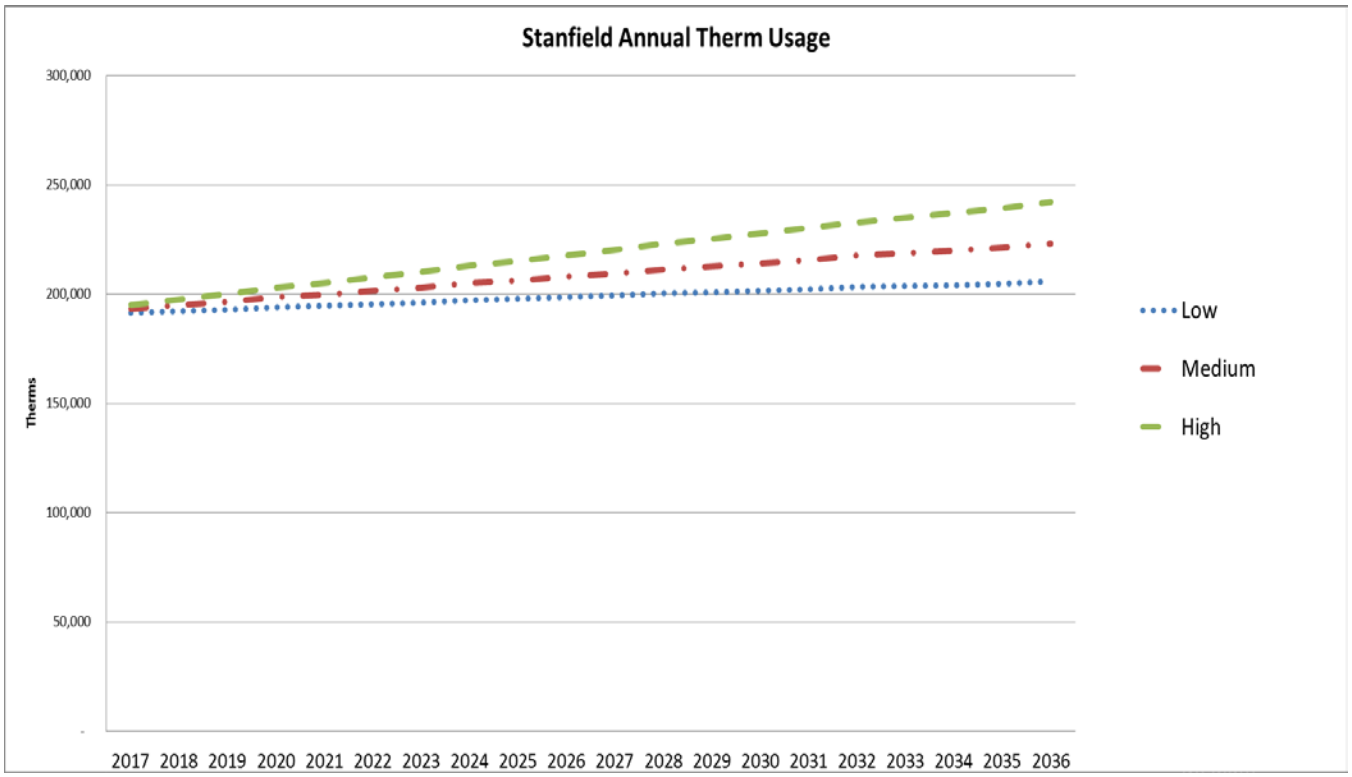
Stanfield

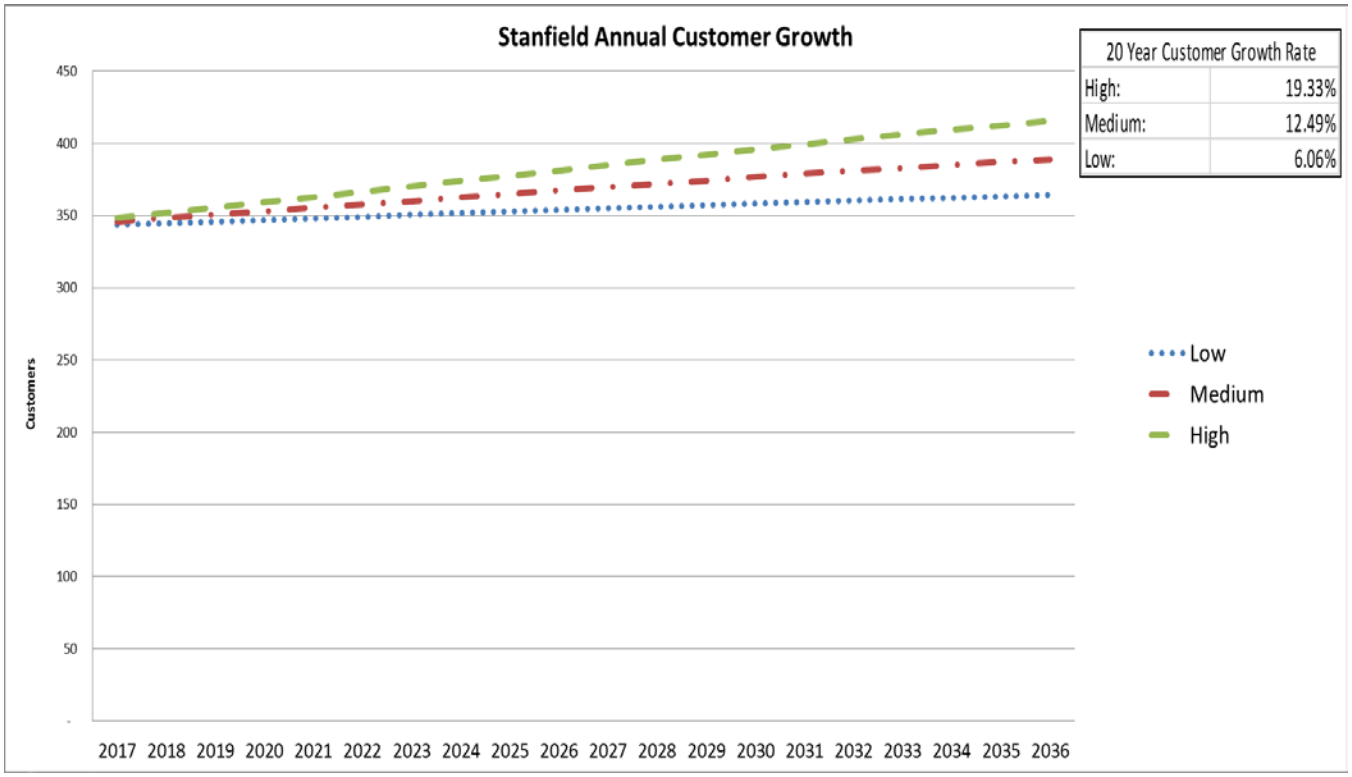
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	101,732	89,594	191,326	102,729	90,415	193,144	103,731	91,241	194,973	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	102,190	89,975	192,164	103,654	91,185	194,840	105,135	92,409	197,544	0.45%	0.43%	0.44%	0.90%	0.85%	0.88%	1.35%	1.28%	1.32%
2019	102,640	90,351	192,991	104,570	91,950	196,519	106,531	93,573	200,104	0.44%	0.42%	0.43%	0.88%	0.84%	0.86%	1.33%	1.26%	1.30%
2020	103,380	90,717	194,098	105,777	92,698	198,475	108,225	94,718	202,943	0.72%	0.41%	0.57%	1.15%	0.81%	0.99%	1.59%	1.22%	1.42%
2021	103,511	91,081	194,592	106,353	93,443	199,797	109,270	95,865	205,135	0.13%	0.40%	0.25%	0.55%	0.80%	0.67%	0.97%	1.21%	1.08%
2022	103,944	91,444	195,388	107,246	94,191	201,437	110,650	97,019	207,669	0.42%	0.40%	0.41%	0.84%	0.80%	0.82%	1.26%	1.20%	1.24%
2023	104,363	91,798	196,161	108,114	94,922	203,036	111,999	98,151	210,151	0.40%	0.39%	0.40%	0.81%	0.78%	0.79%	1.22%	1.17%	1.20%
2024	105,097	92,154	197,250	109,323	95,661	204,984	113,720	99,303	213,023	0.70%	0.39%	0.56%	1.12%	0.78%	0.96%	1.54%	1.17%	1.37%
2025	105,207	92,507	197,714	109,872	96,398	206,270	114,748	100,455	215,203	0.10%	0.38%	0.23%	0.50%	0.77%	0.63%	0.90%	1.16%	1.02%
2026	105,619	92,854	198,473	110,737	97,125	207,862	116,109	101,596	217,705	0.39%	0.38%	0.38%	0.79%	0.75%	0.77%	1.19%	1.14%	1.16%
2027	106,032	93,202	199,233	111,607	97,855	209,462	117,485	102,747	220,232	0.39%	0.37%	0.38%	0.79%	0.75%	0.77%	1.18%	1.13%	1.16%
2028	106,746	93,537	200,284	112,792	98,563	211,355	119,191	103,869	223,059	0.67%	0.36%	0.53%	1.06%	0.72%	0.90%	1.45%	1.09%	1.28%
2029	106,831	93,876	200,707	113,303	99,280	212,582	120,181	105,007	225,189	0.08%	0.36%	0.21%	0.45%	0.73%	0.58%	0.83%	1.10%	0.95%
2030	107,224	94,207	201,431	114,142	99,984	214,126	121,524	106,132	227,656	0.37%	0.35%	0.36%	0.74%	0.71%	0.73%	1.12%	1.07%	1.10%
2031	107,612	94,532	202,144	114,972	100,680	215,652	122,858	107,246	230,104	0.36%	0.35%	0.35%	0.73%	0.70%	0.71%	1.10%	1.05%	1.08%
2032	108,310	94,847	203,157	116,136	101,355	217,491	124,554	108,333	232,887	0.65%	0.33%	0.50%	1.01%	0.67%	0.85%	1.38%	1.01%	1.21%
2033	108,355	95,156	203,511	116,574	102,019	218,594	125,450	109,405	234,855	0.04%	0.33%	0.17%	0.38%	0.66%	0.51%	0.72%	0.99%	0.85%
2034	108,708	95,452	204,159	117,339	102,659	219,998	126,695	110,441	237,136	0.33%	0.31%	0.32%	0.66%	0.63%	0.64%	0.99%	0.95%	0.97%
2035	109,054	95,742	204,796	118,094	103,288	221,382	127,928	111,465	239,393	0.32%	0.30%	0.31%	0.64%	0.61%	0.63%	0.97%	0.93%	0.95%
2036	109,721	96,024	205,744	119,201	103,901	223,102	129,551	112,467	242,018	0.61%	0.29%	0.46%	0.94%	0.59%	0.78%	1.27%	0.90%	1.10%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	245	2,694	2,939	248	2,718	2,966	250	2,742	2,992	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	247	2,705	2,951	250	2,741	2,991	253	2,777	3,030	0.43%	0.42%	0.42%	0.85%	0.84%	0.84%	1.28%	1.26%	1.26%
2019	248	2,716	2,964	252	2,763	3,015	256	2,811	3,068	0.42%	0.41%	0.41%	0.84%	0.83%	0.83%	1.26%	1.24%	1.24%
2020	249	2,727	2,976	254	2,786	3,040	260	2,845	3,105	0.41%	0.40%	0.40%	0.81%	0.80%	0.80%	1.22%	1.21%	1.21%
2021	250	2,738	2,987	256	2,808	3,064	263	2,879	3,142	0.40%	0.40%	0.40%	0.80%	0.79%	0.79%	1.21%	1.19%	1.19%
2022	251	2,749	2,999	258	2,830	3,088	266	2,913	3,179	0.40%	0.39%	0.39%	0.80%	0.79%	0.79%	1.20%	1.19%	1.19%
2023	252	2,759	3,011	260	2,851	3,112	269	2,947	3,216	0.39%	0.38%	0.38%	0.78%	0.77%	0.77%	1.17%	1.15%	1.15%
2024	252	2,770	3,022	262	2,873	3,136	272	2,981	3,253	0.39%	0.38%	0.38%	0.78%	0.77%	0.77%	1.17%	1.16%	1.16%
2025	253	2,780	3,034	264	2,895	3,159	275	3,015	3,291	0.38%	0.38%	0.38%	0.77%	0.76%	0.76%	1.16%	1.15%	1.15%
2026	254	2,790	3,045	266	2,917	3,183	278	3,049	3,327	0.38%	0.37%	0.37%	0.75%	0.74%	0.75%	1.14%	1.12%	1.12%
2027	255	2,801	3,056	268	2,938	3,207	281	3,083	3,365	0.37%	0.37%	0.37%	0.75%	0.74%	0.74%	1.13%	1.12%	1.12%
2028	256	2,811	3,067	270	2,960	3,230	285	3,116	3,401	0.36%	0.36%	0.36%	0.72%	0.72%	0.72%	1.09%	1.08%	1.08%
2029	257	2,821	3,078	272	2,981	3,253	288	3,150	3,438	0.36%	0.36%	0.36%	0.73%	0.72%	0.72%	1.10%	1.08%	1.08%
2030	258	2,831	3,089	274	3,002	3,276	291	3,184	3,474	0.35%	0.35%	0.35%	0.71%	0.70%	0.70%	1.07%	1.06%	1.06%
2031	259	2,840	3,099	276	3,022	3,298	294	3,217	3,510	0.35%	0.34%	0.34%	0.70%	0.69%	0.69%	1.05%	1.04%	1.04%
2032	260	2,850	3,109	278	3,042	3,320	297	3,249	3,546	0.33%	0.33%	0.33%	0.67%	0.66%	0.66%	1.01%	1.00%	1.00%
2033	261	2,859	3,119	280	3,062	3,341	300	3,280	3,580	0.33%	0.32%	0.32%	0.66%	0.65%	0.65%	0.99%	0.98%	0.98%
2034	262	2,867	3,129	281	3,081	3,362	303	3,311	3,614	0.31%	0.31%	0.31%	0.63%	0.62%	0.62%	0.95%	0.93%	0.94%
2035	262	2,876	3,138	283	3,100	3,382	305	3,341	3,647	0.30%	0.30%	0.30%	0.61%	0.60%	0.61%	0.93%	0.91%	0.92%
2036	263	2,884	3,148	285	3,118	3,402	308	3,371	3,679	0.29%	0.29%	0.29%	0.59%	0.59%	0.59%	0.90%	0.89%	0.89%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	123,140	68,186	191,326	123,909	69,235	193,144	124,681	70,292	194,973	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	123,524	68,640	192,164	124,682	70,158	194,840	125,847	71,697	197,544	0.31%	0.67%	0.44%	0.62%	1.33%	0.88%	0.94%	2.00%	1.32%
2019	123,909	69,082	192,991	125,459	71,060	196,519	127,024	73,080	200,104	0.31%	0.64%	0.43%	0.62%	1.29%	0.86%	0.94%	1.93%	1.30%
2020	124,294	69,804	194,098	126,238	72,236	198,475	128,207	74,736	202,943	0.31%	1.05%	0.57%	0.62%	1.66%	0.99%	0.93%	2.27%	1.42%
2021	124,677	69,915	194,592	127,017	72,779	199,797	129,394	75,741	205,135	0.31%	0.16%	0.25%	0.62%	0.75%	0.67%	0.93%	1.34%	1.08%
2022	125,061	70,327	195,388	127,800	73,637	201,437	130,589	77,079	207,669	0.31%	0.59%	0.41%	0.62%	1.18%	0.82%	0.92%	1.77%	1.24%
2023	125,444	70,717	196,161	128,582	74,454	203,036	131,788	78,362	210,151	0.31%	0.55%	0.40%	0.61%	1.11%	0.79%	0.92%	1.66%	1.20%
2024	125,826	71,424	197,250	129,366	75,619	204,984	132,993	80,030	213,023	0.30%	1.00%	0.56%	0.61%	1.56%	0.96%	0.91%	2.13%	1.37%
2025	126,206	71,508	197,714	130,146	76,124	206,270	134,197	81,006	215,203	0.30%	0.12%	0.23%	0.60%	0.67%	0.63%	0.91%	1.22%	1.02%
2026	126,581	71,892	198,473	130,921	76,941	207,862	135,395	82,310	217,705	0.30%	0.54%	0.38%	0.59%	1.07%	0.77%	0.89%	1.61%	1.16%
2027	126,953	72,280	199,233	131,690	77,772	209,462	136,588	83,644	220,232	0.29%	0.54%	0.38%	0.59%	1.08%	0.77%	0.88%	1.62%	1.16%
2028	127,321	72,962	200,284	132,453	78,901	211,355	137,776	85,284	223,059	0.29%	0.94%	0.53%	0.58%	1.45%	0.90%	0.87%	1.96%	1.28%
2029	127,685	73,022	200,707	133,210	79,372	212,582	138,957	86,232	225,189	0.29%	0.08%	0.21%	0.57%	0.60%	0.58%	0.86%	1.11%	0.95%
2030	128,043	73,388	201,431	133,957	80,169	214,126	140,126	87,530	227,656	0.28%	0.50%	0.36%	0.56%	1.00%	0.73%	0.84%	1.51%	1.10%
2031	128,391	73,754	202,144	134,684	80,967	215,652	141,266	88,838	230,104	0.27%	0.50%	0.35%	0.54%	1.00%	0.71%	0.81%	1.49%	1.08%
2032	128,725	74,433	203,157	135,385	82,106	217,491	142,369	90,518	232,887	0.26%	0.92%	0.50%	0.52%	1.41%	0.85%	0.78%	1.89%	1.21%
2033	129,048	74,463	203,511	136,065	82,529	218,594	143,441	91,414	234,855	0.25%	0.04%	0.17%	0.50%	0.52%	0.51%	0.75%	0.99%	0.85%
2034	129,359	74,800	204,159	136,721	83,277	219,998	144,479	92,656	237,136	0.24%	0.45%	0.32%	0.48%	0.91%	0.64%	0.72%	1.36%	0.97%
2035	129,659	75,137	204,796	137,356	84,026	221,382	145,485	93,907	239,393	0.23%	0.45%	0.31%	0.46%	0.90%	0.63%	0.70%	1.35%	0.95%
2036	129,949	75,795	205,744	137,970	85,132	223,102	146,461	95,557	242,018	0.22%	0.88%	0.46%	0.45%	1.32%	0.78%	0.67%	1.76%	1.10%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	308	35	343	310	36	346	312	36	348	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	309	35	345	312	36	348	315	37	352	0.31%	0.67%	0.35%	0.62%	1.33%	0.70%	0.94%	2.00%	1.05%
2019	310	36	346	314	37	351	318	38	356	0.31%	0.64%	0.35%	0.62%	1.29%	0.69%	0.94%	1.93%	1.04%
2020	311	36	347	316	37	353	321	38	359	0.31%	0.61%	0.34%	0.62%	1.21%	0.68%	0.93%	1.82%	1.03%
2021	312	36	348	318	38	355	324	39	363	0.31%	0.60%	0.34%	0.62%	1.19%	0.68%	0.93%	1.79%	1.02%
2022	313	36	349	320	38	358	327	40	367	0.31%	0.59%	0.34%	0.62%	1.18%	0.68%	0.92%	1.77%	1.01%
2023	314	37	350	322	38	360	330	40	370	0.31%	0.55%	0.33%	0.61%	1.11%	0.66%	0.92%	1.66%	1.00%
2024	315	37	352	324	39	363	333	41	374	0.30%	0.56%	0.33%	0.61%	1.12%	0.66%	0.91%	1.68%	1.00%
2025	316	37	353	326	39	365	336	42	378	0.30%	0.55%	0.33%	0.60%	1.11%	0.66%	0.91%	1.66%	0.99%
2026	317	37	354	328	40	367	339	42	381	0.30%	0.54%	0.32%	0.59%	1.07%	0.65%	0.89%	1.61%	0.97%
2027	318	37	355	330	40	370	342	43	385	0.29%	0.54%	0.32%	0.59%	1.08%	0.64%	0.88%	1.62%	0.96%
2028	319	38	356	331	41	372	345	44	389	0.29%	0.51%	0.31%	0.58%	1.01%	0.63%	0.87%	1.52%	0.94%
2029	320	38	357	333	41	374	348	45	392	0.29%	0.52%	0.31%	0.57%	1.04%	0.62%	0.86%	1.55%	0.94%
2030	320	38	358	335	41	377	351	45	396	0.28%	0.50%	0.30%	0.56%	1.00%	0.61%	0.84%	1.51%	0.92%
2031	321	38	359	337	42	379	354	46	399	0.27%	0.50%	0.30%	0.54%	1.00%	0.59%	0.81%	1.49%	0.89%
2032	322	38	360	339	42	381	356	47	403	0.26%	0.48%	0.28%	0.52%	0.97%	0.57%	0.78%	1.45%	0.86%
2033	323	38	361	341	43	383	359	47	406	0.25%	0.48%	0.27%	0.50%	0.95%	0.55%	0.75%	1.43%	0.83%
2034	324	39	362	342	43	385	362	48	409	0.24%	0.45%	0.26%	0.48%	0.91%	0.53%	0.72%	1.36%	0.80%
2035	324	39	363	344	43	387	364	48	413	0.23%	0.45%	0.26%	0.46%	0.90%	0.51%	0.70%	1.35%	0.77%
2036	325	39	364	345	44	389	367	49	416	0.22%	0.44%	0.25%	0.45%	0.88%	0.50%	0.67%	1.32%	0.75%





20 Year Customer Growth Rate	
High:	19.33%
Medium:	12.49%
Low:	6.06%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Stearns (Sunriver)

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	3,188,250	1,369,915	4,558,165	3,258,166	1,402,546	4,660,713	3,328,846	1,435,567	4,764,412
2018	3,222,923	1,385,686	4,608,609	3,329,039	1,434,848	4,763,886	3,437,471	1,485,169	4,922,640
2019	3,257,800	1,401,440	4,659,240	3,401,100	1,467,480	4,868,580	3,549,098	1,535,846	5,084,944
2020	3,313,278	1,417,224	4,730,502	3,495,902	1,500,546	4,996,448	3,686,524	1,587,771	5,274,295
2021	3,328,194	1,433,045	4,761,239	3,548,889	1,534,058	5,082,947	3,781,693	1,640,977	5,422,669
2022	3,363,750	1,448,951	4,812,701	3,624,730	1,568,124	5,192,853	3,902,938	1,695,653	5,598,591
2023	3,399,466	1,464,836	4,864,302	3,701,718	1,602,518	5,304,236	4,027,307	1,751,458	5,778,765
2024	3,456,695	1,480,774	4,937,468	3,803,463	1,637,402	5,440,864	4,180,912	1,808,666	5,989,578
2025	3,471,511	1,496,710	4,968,221	3,859,473	1,672,656	5,532,130	4,286,145	1,867,098	6,153,243
2026	3,507,749	1,512,637	5,020,386	3,940,065	1,708,266	5,648,331	4,420,421	1,926,740	6,347,161
2027	3,544,132	1,528,597	5,072,729	4,021,814	1,744,327	5,766,141	4,558,022	1,987,766	6,545,789
2028	3,602,814	1,544,557	5,147,371	4,130,129	1,780,762	5,910,891	4,728,081	2,050,065	6,778,146
2029	3,617,272	1,560,565	5,177,837	4,188,693	1,817,686	6,006,378	4,843,211	2,113,844	6,957,056
2030	3,654,042	1,576,587	5,230,629	4,273,869	1,855,019	6,128,888	4,990,969	2,178,987	7,169,956
2031	3,690,756	1,592,603	5,283,359	4,359,772	1,892,722	6,252,493	5,141,475	2,245,437	7,386,913
2032	3,750,481	1,608,573	5,359,054	4,473,919	1,930,692	6,404,611	5,327,524	2,313,028	7,640,551
2033	3,763,951	1,624,513	5,388,464	4,533,590	1,968,970	6,502,560	5,450,526	2,381,836	7,832,361
2034	3,800,466	1,640,447	5,440,914	4,621,578	2,007,610	6,629,188	5,609,240	2,451,975	8,061,215
2035	3,836,928	1,656,381	5,493,309	4,710,282	2,046,627	6,756,909	5,770,773	2,523,479	8,294,252
2036	3,897,331	1,672,269	5,569,601	4,829,468	2,085,905	6,915,373	5,971,993	2,596,151	8,568,144

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.09%	1.15%	1.11%	2.18%	2.30%	2.21%	3.26%	3.46%	3.32%
2019	1.08%	1.14%	1.10%	2.16%	2.27%	2.20%	3.25%	3.41%	3.30%
2020	1.70%	1.13%	1.53%	2.79%	2.25%	2.63%	3.87%	3.38%	3.72%
2021	0.45%	1.12%	0.65%	1.52%	2.23%	1.73%	2.58%	3.35%	2.81%
2022	1.07%	1.11%	1.08%	2.14%	2.22%	2.16%	3.21%	3.33%	3.24%
2023	1.06%	1.10%	1.07%	2.12%	2.19%	2.14%	3.19%	3.29%	3.22%
2024	1.68%	1.09%	1.50%	2.75%	2.18%	2.58%	3.81%	3.27%	3.65%
2025	0.43%	1.08%	0.62%	1.47%	2.15%	1.68%	2.52%	3.23%	2.73%
2026	1.04%	1.06%	1.05%	2.09%	2.13%	2.10%	3.13%	3.19%	3.15%
2027	1.04%	1.06%	1.04%	2.07%	2.11%	2.09%	3.11%	3.17%	3.13%
2028	1.66%	1.04%	1.47%	2.69%	2.09%	2.51%	3.73%	3.13%	3.55%
2029	0.40%	1.04%	0.59%	1.42%	2.07%	1.62%	2.44%	3.11%	2.64%
2030	1.02%	1.03%	1.02%	2.03%	2.05%	2.04%	3.05%	3.08%	3.06%
2031	1.00%	1.02%	1.01%	2.01%	2.03%	2.02%	3.02%	3.05%	3.03%
2032	1.62%	1.00%	1.43%	2.62%	2.01%	2.43%	3.62%	3.01%	3.43%
2033	0.36%	0.99%	0.55%	1.33%	1.98%	1.53%	2.31%	2.97%	2.51%
2034	0.97%	0.98%	0.97%	1.94%	1.96%	1.95%	2.91%	2.94%	2.92%
2035	0.96%	0.97%	0.96%	1.92%	1.94%	1.93%	2.88%	2.92%	2.89%
2036	1.57%	0.96%	1.39%	2.53%	1.92%	2.35%	3.49%	2.88%	3.30%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	3,753	49,169	52,922	3,843	50,247	54,090	3,933	51,338	55,271
2018	3,796	49,704	53,500	3,931	51,341	55,272	4,069	53,013	57,082
2019	3,840	50,242	54,082	4,020	52,452	56,473	4,208	54,735	58,943
2020	3,883	50,783	54,666	4,111	53,582	57,694	4,350	56,504	60,854
2021	3,926	51,328	55,254	4,203	54,732	58,935	4,496	58,323	62,819
2022	3,970	51,876	55,846	4,296	55,902	60,198	4,646	60,193	64,839
2023	4,013	52,427	56,440	4,390	57,089	61,480	4,799	62,112	66,910
2024	4,057	52,982	57,039	4,486	58,297	62,783	4,955	64,083	69,038
2025	4,101	53,539	57,639	4,583	59,523	64,106	5,115	66,104	71,220
2026	4,144	54,098	58,242	4,680	60,766	65,446	5,279	68,176	73,455
2027	4,188	54,659	58,847	4,779	62,027	66,806	5,446	70,299	75,745
2028	4,232	55,222	59,454	4,879	63,305	68,184	5,617	72,472	78,088
2029	4,276	55,787	60,063	4,980	64,602	69,582	5,791	74,698	80,490
2030	4,319	56,354	60,674	5,082	65,916	70,998	5,970	76,978	82,948
2031	4,363	56,921	61,284	5,186	67,241	72,427	6,152	79,300	85,451
2032	4,407	57,486	61,893	5,290	68,576	73,866	6,337	81,662	87,999
2033	4,451	58,050	62,501	5,394	69,923	75,317	6,526	84,067	90,593
2034	4,494	58,613	63,108	5,500	71,280	76,780	6,718	86,516	93,234
2035	4,538	59,176	63,714	5,607	72,648	78,256	6,914	89,008	95,922
2036	4,582	59,737	64,319	5,715	74,027	79,742	7,113	91,543	98,656

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.15%	1.09%	1.09%	2.30%	2.18%	2.18%	3.46%	3.26%	3.28%
2019	1.14%	1.08%	1.09%	2.27%	2.17%	2.17%	3.41%	3.25%	3.26%
2020	1.13%	1.08%	1.08%	2.25%	2.15%	2.16%	3.38%	3.23%	3.24%
2021	1.12%	1.07%	1.08%	2.23%	2.15%	2.15%	3.35%	3.22%	3.23%
2022	1.11%	1.07%	1.07%	2.22%	2.14%	2.14%	3.33%	3.21%	3.22%
2023	1.10%	1.06%	1.06%	2.19%	2.12%	2.13%	3.29%	3.19%	3.19%
2024	1.09%	1.06%	1.06%	2.18%	2.12%	2.12%	3.27%	3.17%	3.18%
2025	1.08%	1.05%	1.05%	2.15%	2.10%	2.11%	3.23%	3.15%	3.16%
2026	1.06%	1.04%	1.05%	2.13%	2.09%	2.09%	3.19%	3.13%	3.14%
2027	1.06%	1.04%	1.04%	2.11%	2.08%	2.08%	3.17%	3.11%	3.12%
2028	1.04%	1.03%	1.03%	2.09%	2.06%	2.06%	3.13%	3.09%	3.09%
2029	1.04%	1.02%	1.02%	2.07%	2.05%	2.05%	3.11%	3.07%	3.07%
2030	1.03%	1.02%	1.02%	2.05%	2.03%	2.04%	3.08%	3.05%	3.05%
2031	1.02%	1.01%	1.01%	2.03%	2.01%	2.01%	3.05%	3.02%	3.02%
2032	1.00%	0.99%	0.99%	2.01%	1.99%	1.99%	3.01%	2.98%	2.98%
2033	0.99%	0.98%	0.98%	1.98%	1.96%	1.96%	2.97%	2.95%	2.95%
2034	0.98%	0.97%	0.97%	1.96%	1.94%	1.94%	2.94%	2.91%	2.91%
2035	0.97%	0.96%	0.96%	1.94%	1.92%	1.92%	2.92%	2.88%	2.88%
2036	0.96%	0.95%	0.95%	1.92%	1.90%	1.90%	2.88%	2.85%	2.85%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,442,039	1,116,126	4,558,165	3,515,350	1,145,363	4,660,713	3,589,434	1,174,978	4,764,412
2018	3,478,765	1,129,844	4,608,609	3,590,368	1,173,519	4,763,886	3,704,332	1,218,308	4,922,640
2019	3,515,812	1,143,428	4,659,240	3,666,839	1,201,742	4,868,580	3,822,679	1,262,265	5,084,944
2020	3,569,453	1,161,048	4,730,502	3,761,896	1,234,552	4,996,448	3,962,550	1,311,744	5,274,295
2021	3,590,763	1,170,477	4,761,239	3,824,004	1,258,944	5,082,947	4,069,736	1,352,934	5,422,669
2022	3,628,676	1,184,024	4,812,701	3,904,756	1,288,097	5,192,853	4,198,648	1,399,943	5,598,591
2023	3,666,846	1,197,456	4,864,302	3,986,904	1,317,332	5,304,236	4,331,144	1,447,622	5,778,765
2024	3,722,319	1,215,149	4,937,468	4,089,230	1,351,634	5,440,864	4,487,944	1,501,633	5,989,578
2025	3,743,993	1,224,228	4,968,221	4,155,539	1,376,591	5,532,130	4,607,359	1,545,883	6,153,243
2026	3,782,893	1,237,493	5,020,386	4,241,890	1,406,441	5,648,331	4,750,970	1,596,191	6,347,161
2027	3,821,976	1,250,753	5,072,729	4,329,540	1,436,601	5,766,141	4,898,223	1,647,565	6,545,789
2028	3,878,954	1,268,417	5,147,371	4,438,753	1,472,138	5,910,891	5,072,317	1,705,829	6,778,146
2029	3,900,651	1,277,186	5,177,837	4,508,695	1,497,683	6,006,378	5,203,795	1,753,261	6,957,056
2030	3,940,250	1,290,378	5,230,629	4,600,239	1,528,649	6,128,888	5,362,281	1,807,676	7,169,956
2031	3,979,771	1,303,588	5,283,359	4,692,520	1,559,974	6,252,493	5,523,631	1,863,282	7,386,913
2032	4,037,659	1,321,395	5,359,054	4,807,486	1,597,125	6,404,611	5,713,945	1,926,606	7,640,551
2033	4,058,585	1,329,879	5,388,464	4,879,289	1,623,271	6,502,560	5,855,013	1,977,349	7,832,361
2034	4,097,891	1,343,023	5,440,914	4,973,797	1,655,391	6,629,188	6,025,124	2,036,091	8,061,215
2035	4,137,119	1,356,191	5,493,309	5,069,022	1,687,886	6,756,909	6,198,154	2,096,099	8,294,252
2036	4,195,467	1,374,134	5,569,601	5,188,735	1,726,639	6,915,373	6,403,494	2,164,650	8,568,144

Annual Change

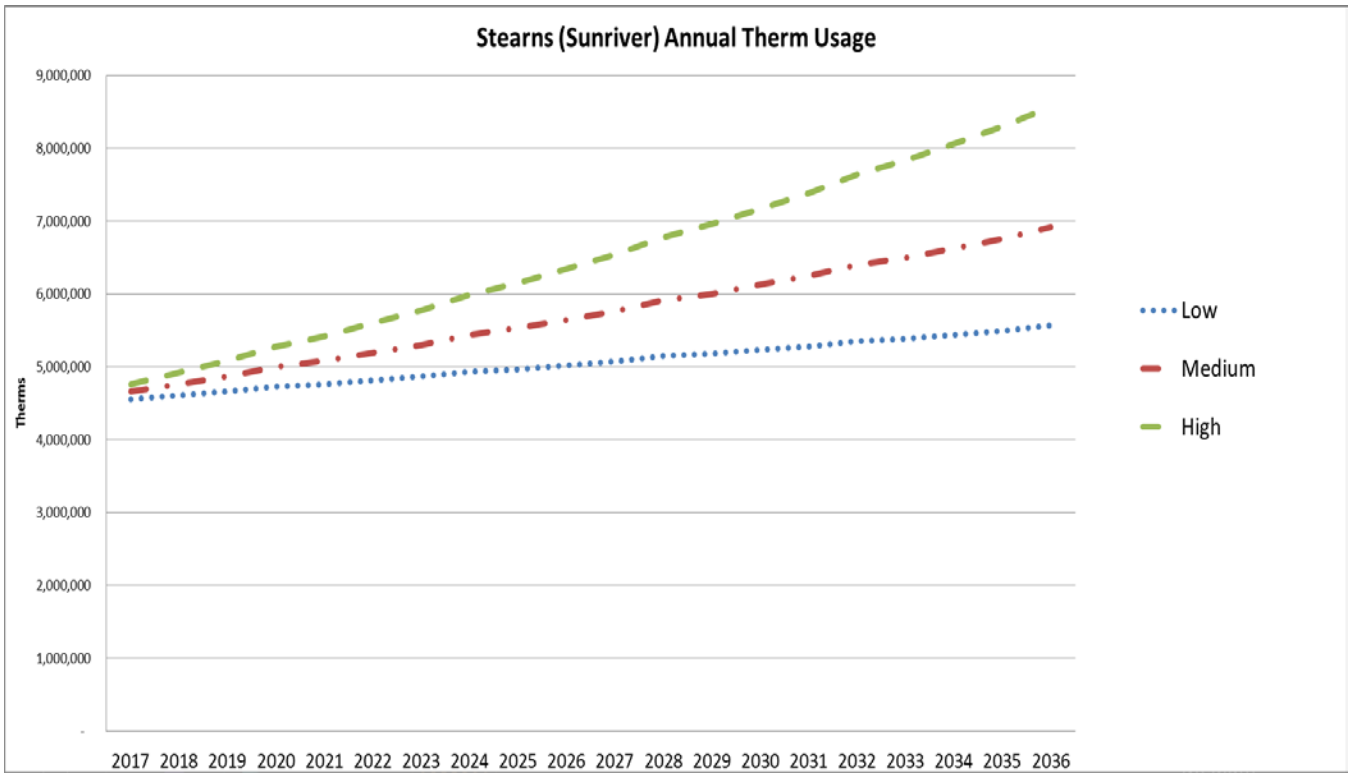
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.07%	1.23%	1.11%	2.13%	2.46%	2.21%	3.20%	3.69%	3.32%
2019	1.06%	1.20%	1.10%	2.13%	2.40%	2.20%	3.19%	3.61%	3.30%
2020	1.53%	1.54%	1.53%	2.59%	2.73%	2.63%	3.66%	3.92%	3.72%
2021	0.60%	0.81%	0.65%	1.65%	1.98%	1.73%	2.70%	3.14%	2.81%
2022	1.06%	1.16%	1.08%	2.11%	2.32%	2.16%	3.17%	3.47%	3.24%
2023	1.05%	1.13%	1.07%	2.10%	2.27%	2.14%	3.16%	3.41%	3.22%
2024	1.51%	1.48%	1.50%	2.57%	2.60%	2.58%	3.62%	3.73%	3.65%
2025	0.58%	0.75%	0.62%	1.62%	1.85%	1.68%	2.66%	2.95%	2.73%
2026	1.04%	1.08%	1.05%	2.08%	2.17%	2.10%	3.12%	3.25%	3.15%
2027	1.03%	1.07%	1.04%	2.07%	2.14%	2.09%	3.10%	3.22%	3.13%
2028	1.49%	1.41%	1.47%	2.52%	2.47%	2.51%	3.55%	3.54%	3.55%
2029	0.56%	0.69%	0.59%	1.58%	1.74%	1.62%	2.59%	2.78%	2.64%
2030	1.02%	1.03%	1.02%	2.03%	2.07%	2.04%	3.05%	3.10%	3.06%
2031	1.00%	1.02%	1.01%	2.01%	2.05%	2.02%	3.01%	3.08%	3.03%
2032	1.45%	1.37%	1.43%	2.45%	2.38%	2.43%	3.45%	3.40%	3.43%
2033	0.52%	0.64%	0.55%	1.49%	1.64%	1.53%	2.47%	2.63%	2.51%
2034	0.97%	0.99%	0.97%	1.94%	1.98%	1.95%	2.91%	2.97%	2.92%
2035	0.96%	0.98%	0.96%	1.91%	1.96%	1.93%	2.87%	2.95%	2.89%
2036	1.41%	1.32%	1.39%	2.36%	2.30%	2.35%	3.31%	3.27%	3.30%

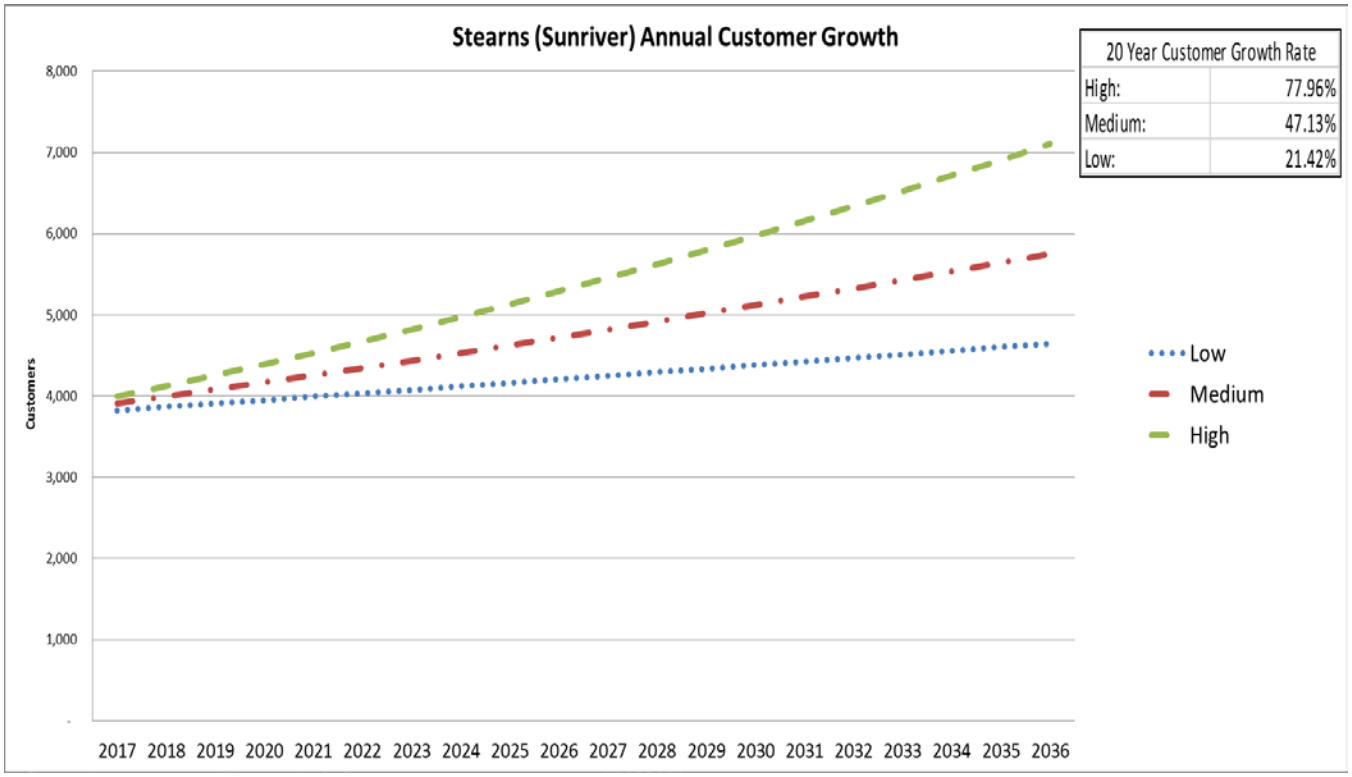
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,596	230	3,826	3,672	236	3,909	3,750	242	3,992
2018	3,634	233	3,867	3,751	242	3,993	3,870	251	4,121
2019	3,673	236	3,909	3,831	248	4,079	3,993	260	4,254
2020	3,712	239	3,951	3,912	254	4,166	4,121	270	4,390
2021	3,751	242	3,993	3,995	260	4,255	4,252	279	4,531
2022	3,791	244	4,035	4,079	266	4,345	4,386	289	4,675
2023	3,831	247	4,078	4,165	272	4,437	4,525	299	4,823
2024	3,871	250	4,121	4,252	278	4,530	4,667	309	4,976
2025	3,911	253	4,164	4,341	284	4,625	4,813	319	5,132
2026	3,952	255	4,207	4,431	290	4,722	4,963	330	5,293
2027	3,993	258	4,251	4,523	297	4,819	5,117	340	5,457
2028	4,034	261	4,295	4,616	303	4,919	5,275	351	5,626
2029	4,075	264	4,338	4,710	309	5,019	5,436	362	5,798
2030	4,116	266	4,383	4,806	316	5,121	5,602	373	5,975
2031	4,158	269	4,427	4,902	322	5,224	5,770	385	6,155
2032	4,199	272	4,470	4,999	329	5,328	5,942	396	6,338
2033	4,240	274	4,514	5,097	335	5,432	6,117	408	6,525
2034	4,281	277	4,558	5,196	342	5,538	6,294	420	6,715
2035	4,322	280	4,602	5,295	348	5,644	6,475	433	6,908
2036	4,363	283	4,645	5,396	355	5,751	6,659	445	7,104

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.07%	1.23%	1.08%	2.13%	2.46%	2.15%	3.20%	3.69%	3.23%
2019	1.06%	1.20%	1.07%	2.13%	2.41%	2.15%	3.19%	3.61%	3.22%
2020	1.06%	1.19%	1.07%	2.12%	2.37%	2.14%	3.19%	3.56%	3.21%
2021	1.06%	1.17%	1.07%	2.12%	2.34%	2.13%	3.18%	3.51%	3.20%
2022	1.06%	1.16%	1.06%	2.11%	2.32%	2.12%	3.17%	3.48%	3.19%
2023	1.05%	1.14%	1.06%	2.10%	2.27%	2.11%	3.16%	3.41%	3.17%
2024	1.05%	1.12%	1.05%	2.10%	2.25%	2.11%	3.15%	3.37%	3.16%
2025	1.04%	1.10%	1.05%	2.09%	2.21%	2.10%	3.13%	3.32%	3.14%
2026	1.04%	1.09%	1.04%	2.08%	2.17%	2.08%	3.12%	3.26%	3.13%
2027	1.03%	1.07%	1.04%	2.07%	2.15%	2.07%	3.10%	3.22%	3.11%
2028	1.03%	1.06%	1.03%	2.05%	2.12%	2.06%	3.08%	3.18%	3.09%
2029	1.02%	1.05%	1.02%	2.04%	2.10%	2.05%	3.06%	3.15%	3.07%
2030	1.02%	1.03%	1.02%	2.03%	2.07%	2.03%	3.05%	3.11%	3.05%
2031	1.00%	1.03%	1.00%	2.01%	2.05%	2.01%	3.01%	3.08%	3.01%
2032	0.99%	1.01%	0.99%	1.98%	2.02%	1.98%	2.97%	3.04%	2.98%
2033	0.98%	1.00%	0.98%	1.96%	2.00%	1.96%	2.94%	3.00%	2.94%
2034	0.97%	0.99%	0.97%	1.94%	1.98%	1.94%	2.91%	2.97%	2.91%
2035	0.96%	0.98%	0.96%	1.91%	1.97%	1.92%	2.87%	2.95%	2.88%
2036	0.95%	0.97%	0.95%	1.89%	1.94%	1.90%	2.84%	2.91%	2.85%





20 Year Customer Growth Rate	
High:	77.96%
Medium:	47.13%
Low:	21.42%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

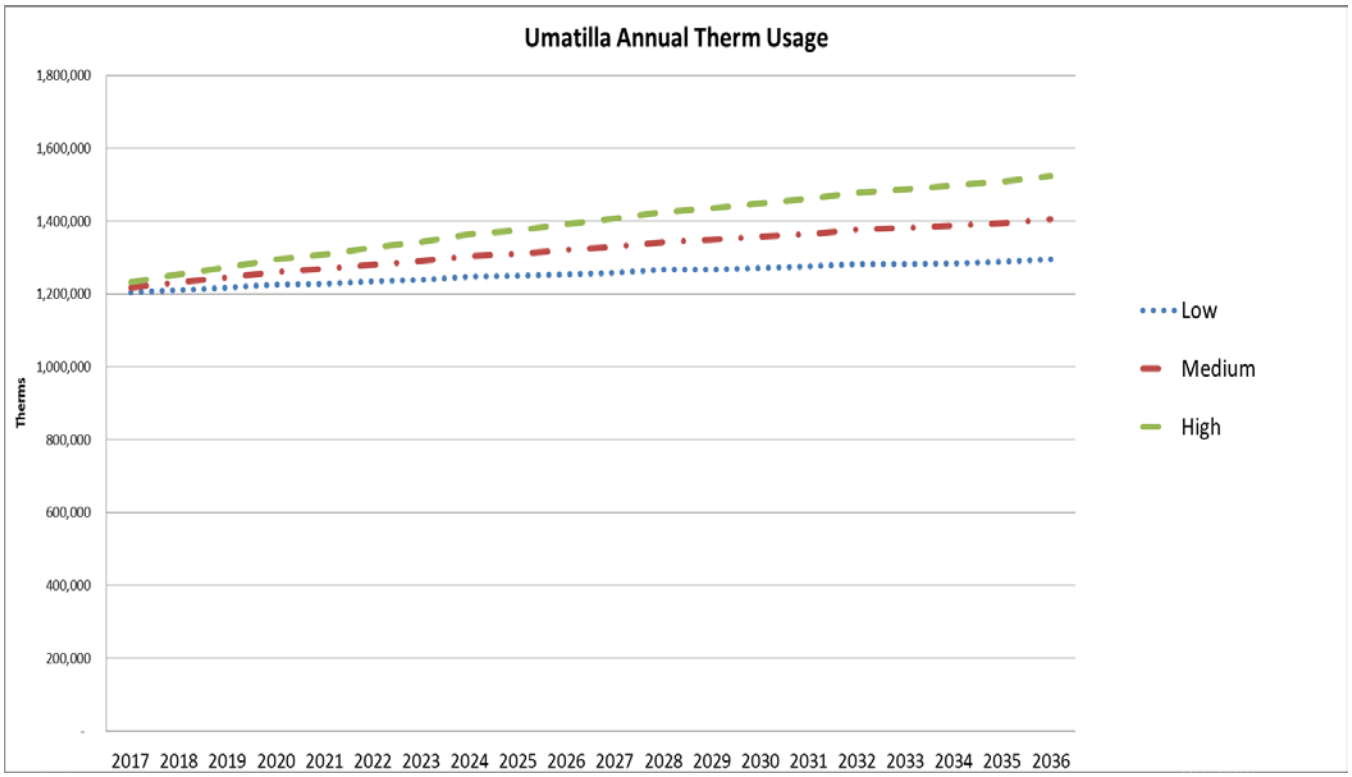
Umatilla

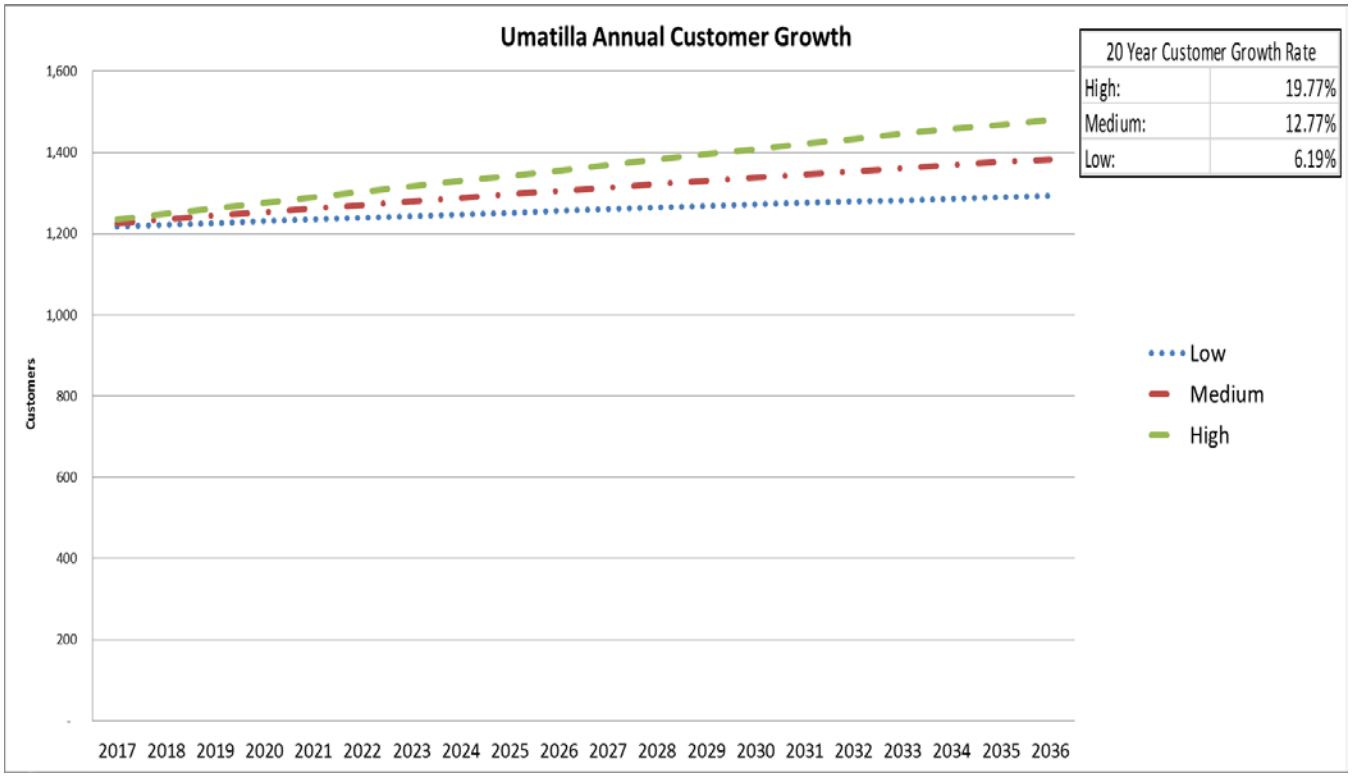
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	769,914	434,429	1,204,343	778,549	439,994	1,218,542	787,236	445,595	1,232,831	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	774,032	437,000	1,211,032	786,885	445,203	1,232,088	799,892	453,512	1,253,404	0.53%	0.59%	0.56%	1.07%	1.18%	1.11%	1.61%	1.78%	1.67%
2019	777,867	439,362	1,217,230	794,693	450,019	1,244,713	811,813	460,876	1,272,689	0.50%	0.54%	0.51%	0.99%	1.08%	1.02%	1.49%	1.62%	1.54%
2020	785,039	441,584	1,226,622	805,800	454,573	1,260,373	827,031	467,876	1,294,907	0.92%	0.51%	0.77%	1.40%	1.01%	1.26%	1.87%	1.52%	1.75%
2021	785,032	443,683	1,228,715	809,389	458,900	1,268,288	834,416	474,561	1,308,978	0.00%	0.48%	0.17%	0.45%	0.95%	0.63%	0.89%	1.43%	1.09%
2022	788,552	445,740	1,234,292	816,659	463,157	1,279,816	845,677	481,170	1,326,847	0.45%	0.46%	0.45%	0.90%	0.93%	0.91%	1.35%	1.39%	1.37%
2023	791,747	447,624	1,239,371	823,289	467,077	1,290,366	855,994	487,285	1,343,279	0.41%	0.42%	0.41%	0.81%	0.85%	0.82%	1.22%	1.27%	1.24%
2024	798,587	449,500	1,248,087	833,842	470,994	1,304,837	870,558	493,421	1,363,979	0.86%	0.42%	0.70%	1.28%	0.84%	1.12%	1.70%	1.26%	1.54%
2025	798,035	451,205	1,249,240	836,417	474,571	1,310,988	876,547	499,048	1,375,595	-0.07%	0.38%	0.09%	0.31%	0.76%	0.47%	0.69%	1.14%	0.85%
2026	801,059	452,919	1,253,978	842,769	478,181	1,320,950	886,554	504,748	1,391,302	0.38%	0.38%	0.38%	0.76%	0.76%	0.76%	1.14%	1.14%	1.14%
2027	803,926	454,550	1,258,476	848,816	481,631	1,330,447	896,118	510,220	1,406,337	0.36%	0.36%	0.36%	0.72%	0.72%	0.72%	1.08%	1.08%	1.08%
2028	810,273	456,063	1,266,336	858,433	484,843	1,343,276	909,364	515,331	1,424,695	0.79%	0.33%	0.62%	1.13%	0.67%	0.96%	1.48%	1.00%	1.31%
2029	809,405	457,580	1,266,985	860,434	488,074	1,348,508	914,593	520,492	1,435,085	-0.11%	0.33%	0.05%	0.23%	0.67%	0.39%	0.58%	1.00%	0.73%
2030	811,866	458,955	1,270,821	865,679	491,013	1,356,691	922,974	525,201	1,448,175	0.30%	0.30%	0.30%	0.61%	0.60%	0.61%	0.92%	0.90%	0.91%
2031	814,396	460,368	1,274,764	871,093	494,043	1,365,136	931,662	530,076	1,461,737	0.31%	0.31%	0.31%	0.63%	0.62%	0.62%	0.94%	0.93%	0.94%
2032	820,323	461,623	1,281,947	879,891	496,746	1,376,637	943,722	534,439	1,478,161	0.73%	0.27%	0.56%	1.01%	0.55%	0.84%	1.29%	0.82%	1.12%
2033	819,081	462,964	1,282,046	881,168	499,641	1,380,809	947,913	539,126	1,487,038	-0.15%	0.29%	0.01%	0.15%	0.58%	0.30%	0.44%	0.88%	0.60%
2034	821,219	464,141	1,285,360	885,787	502,190	1,387,977	955,397	543,266	1,498,664	0.26%	0.25%	0.26%	0.52%	0.51%	0.52%	0.79%	0.77%	0.78%
2035	823,113	465,197	1,288,310	889,893	504,485	1,394,378	962,073	547,007	1,509,080	0.23%	0.23%	0.23%	0.46%	0.46%	0.46%	0.70%	0.69%	0.70%
2036	828,806	466,326	1,295,132	898,249	506,947	1,405,196	973,518	551,032	1,524,550	0.69%	0.24%	0.53%	0.94%	0.49%	0.78%	1.19%	0.74%	1.03%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	1,190	15,561	16,751	1,205	15,738	16,943	1,221	15,916	17,137	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,197	15,645	16,842	1,220	15,908	17,128	1,242	16,175	17,418	0.59%	0.54%	0.55%	1.18%	1.08%	1.09%	1.78%	1.63%	1.64%
2019	1,204	15,723	16,927	1,233	16,067	17,300	1,263	16,418	17,681	0.54%	0.50%	0.50%	1.08%	1.00%	1.01%	1.62%	1.50%	1.51%
2020	1,210	15,798	17,007	1,245	16,220	17,466	1,282	16,653	17,934	0.51%	0.48%	0.48%	1.01%	0.95%	0.96%	1.52%	1.43%	1.44%
2021	1,216	15,868	17,084	1,257	16,366	17,623	1,300	16,877	18,177	0.48%	0.45%	0.45%	0.95%	0.90%	0.90%	1.43%	1.35%	1.35%
2022	1,221	15,940	17,161	1,269	16,513	17,782	1,318	17,105	18,423	0.46%	0.45%	0.45%	0.93%	0.90%	0.90%	1.39%	1.35%	1.36%
2023	1,226	16,004	17,230	1,280	16,646	17,926	1,335	17,312	18,647	0.42%	0.40%	0.40%	0.85%	0.81%	0.81%	1.27%	1.21%	1.22%
2024	1,232	16,070	17,301	1,290	16,784	18,074	1,352	17,527	18,879	0.42%	0.41%	0.41%	0.84%	0.83%	0.83%	1.26%	1.24%	1.24%
2025	1,236	16,130	17,366	1,300	16,910	18,210	1,367	17,725	19,092	0.38%	0.37%	0.38%	0.76%	0.75%	0.75%	1.14%	1.13%	1.13%
2026	1,241	16,191	17,431	1,310	17,037	18,347	1,383	17,925	19,308	0.38%	0.38%	0.38%	0.76%	0.75%	0.75%	1.14%	1.13%	1.13%
2027	1,245	16,248	17,493	1,320	17,157	18,477	1,398	18,115	19,513	0.36%	0.35%	0.35%	0.72%	0.71%	0.71%	1.08%	1.06%	1.06%
2028	1,249	16,302	17,551	1,328	17,272	18,600	1,412	18,297	19,709	0.33%	0.33%	0.33%	0.67%	0.67%	0.67%	1.00%	1.01%	1.01%
2029	1,254	16,356	17,610	1,337	17,387	18,725	1,426	18,481	19,907	0.33%	0.33%	0.33%	0.67%	0.67%	0.67%	1.00%	1.01%	1.01%
2030	1,257	16,405	17,662	1,345	17,491	18,836	1,439	18,647	20,086	0.30%	0.30%	0.30%	0.60%	0.60%	0.60%	0.90%	0.90%	0.90%
2031	1,261	16,455	17,716	1,354	17,598	18,951	1,452	18,818	20,270	0.31%	0.30%	0.30%	0.62%	0.61%	0.61%	0.93%	0.92%	0.92%
2032	1,265	16,499	17,764	1,361	17,693	19,054	1,464	18,971	20,435	0.27%	0.27%	0.27%	0.55%	0.54%	0.54%	0.82%	0.81%	0.81%
2033	1,268	16,547	17,815	1,369	17,795	19,164	1,477	19,137	20,614	0.29%	0.29%	0.29%	0.58%	0.58%	0.58%	0.88%	0.87%	0.87%
2034	1,272	16,589	17,860	1,376	17,886	19,262	1,488	19,283	20,771	0.25%	0.25%	0.25%	0.51%	0.51%	0.51%	0.77%	0.76%	0.76%
2035	1,275	16,625	17,900	1,382	17,965	19,348	1,499	19,413	20,911	0.23%	0.22%	0.22%	0.46%	0.45%	0.45%	0.69%	0.67%	0.67%
2036	1,278	16,664	17,941	1,389	18,049	19,438	1,510	19,549	21,059	0.24%	0.23%	0.23%	0.49%	0.47%	0.47%	0.74%	0.70%	0.71%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	287,215	917,128	1,204,343	289,021	929,521	1,218,542	290,833	941,997	1,232,831	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	288,117	922,915	1,211,032	290,836	941,252	1,232,088	293,573	959,831	1,253,404	0.31%	0.63%	0.56%	0.63%	1.26%	1.11%	0.94%	1.89%	1.67%
2019	289,020	928,209	1,217,230	292,661	952,052	1,244,713	296,335	976,354	1,272,689	0.31%	0.57%	0.51%	0.63%	1.15%	1.02%	0.94%	1.72%	1.54%
2020	291,374	935,248	1,226,622	295,964	964,409	1,260,373	300,612	994,295	1,294,907	0.81%	0.76%	0.77%	1.13%	1.30%	1.26%	1.44%	1.84%	1.75%
2021	290,824	937,891	1,228,715	296,320	971,968	1,268,288	301,901	1,007,076	1,308,978	-0.19%	0.28%	0.17%	0.12%	0.78%	0.63%	0.43%	1.29%	1.09%
2022	291,726	942,566	1,234,292	298,157	981,659	1,279,816	304,710	1,022,138	1,326,847	0.31%	0.50%	0.45%	0.62%	1.00%	0.91%	0.93%	1.50%	1.37%
2023	292,625	946,746	1,239,371	299,995	990,371	1,290,366	307,527	1,035,753	1,343,279	0.31%	0.44%	0.41%	0.62%	0.89%	0.82%	0.92%	1.33%	1.24%
2024	294,990	953,097	1,248,087	303,344	1,001,492	1,304,837	311,909	1,052,071	1,363,979	0.81%	0.67%	0.70%	1.12%	1.12%	1.12%	1.42%	1.58%	1.54%
2025	294,415	954,825	1,249,240	303,670	1,007,318	1,310,988	313,186	1,062,409	1,375,595	-0.20%	0.18%	0.09%	0.11%	0.58%	0.47%	0.41%	0.98%	0.85%
2026	295,298	958,680	1,253,978	305,491	1,015,459	1,320,950	316,004	1,075,298	1,391,302	0.30%	0.40%	0.38%	0.60%	0.81%	0.76%	0.90%	1.21%	1.14%
2027	296,172	962,304	1,258,476	307,300	1,023,147	1,330,447	318,810	1,087,527	1,406,337	0.30%	0.38%	0.36%	0.59%	0.76%	0.72%	0.89%	1.14%	1.08%
2028	298,520	967,816	1,266,336	310,637	1,032,639	1,343,276	323,207	1,101,488	1,424,695	0.79%	0.57%	0.62%	1.09%	0.93%	0.96%	1.38%	1.28%	1.31%
2029	297,890	969,095	1,266,985	310,872	1,037,637	1,348,508	324,376	1,110,709	1,435,085	-0.21%	0.13%	0.05%	0.08%	0.48%	0.39%	0.36%	0.84%	0.73%
2030	298,734	972,088	1,270,821	312,632	1,044,060	1,356,691	327,131	1,121,044	1,448,175	0.28%	0.31%	0.30%	0.57%	0.62%	0.61%	0.85%	0.93%	0.91%
2031	299,550	975,215	1,274,764	314,340	1,050,796	1,365,136	329,813	1,131,925	1,461,737	0.27%	0.32%	0.31%	0.55%	0.65%	0.62%	0.82%	0.97%	0.94%
2032	301,837	980,109	1,281,947	317,570	1,059,068	1,376,637	334,071	1,144,090	1,478,161	0.76%	0.50%	0.56%	1.03%	0.79%	0.84%	1.29%	1.07%	1.12%
2033	301,096	980,950	1,282,046	317,589	1,063,221	1,380,809	334,932	1,152,106	1,487,038	-0.25%	0.09%	0.01%	0.01%	0.39%	0.30%	0.26%	0.70%	0.60%
2034	301,829	983,531	1,285,360	319,136	1,068,841	1,387,977	337,379	1,161,285	1,498,664	0.24%	0.26%	0.26%	0.49%	0.53%	0.52%	0.73%	0.80%	0.78%
2035	302,535	985,775	1,288,310	320,628	1,073,751	1,394,378	339,745	1,169,335	1,509,080	0.23%	0.23%	0.23%	0.47%	0.46%	0.46%	0.70%	0.69%	0.70%
2036	304,733	990,399	1,295,132	323,684	1,081,511	1,405,196	343,755	1,180,795	1,524,550	0.73%	0.47%	0.53%	0.95%	0.72%	0.78%	1.18%	0.98%	1.03%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,047	170	1,217	1,054	173	1,226	1,060	175	1,235	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,050	171	1,222	1,060	175	1,235	1,070	179	1,249	0.31%	0.68%	0.37%	0.63%	1.36%	0.73%	0.94%	2.04%	1.10%
2019	1,054	173	1,226	1,067	177	1,244	1,080	182	1,263	0.31%	0.65%	0.36%	0.63%	1.29%	0.72%	0.94%	1.94%	1.08%
2020	1,057	174	1,231	1,074	179	1,253	1,090	185	1,276	0.31%	0.59%	0.35%	0.63%	1.18%	0.70%	0.94%	1.76%	1.06%
2021	1,060	175	1,235	1,080	182	1,262	1,101	189	1,289	0.31%	0.59%	0.35%	0.62%	1.19%	0.70%	0.93%	1.78%	1.05%
2022	1,064	176	1,239	1,087	184	1,271	1,111	192	1,303	0.31%	0.55%	0.34%	0.62%	1.10%	0.69%	0.93%	1.64%	1.03%
2023	1,067	177	1,243	1,094	186	1,279	1,121	195	1,316	0.31%	0.55%	0.34%	0.62%	1.10%	0.69%	0.92%	1.65%	1.03%
2024	1,070	177	1,248	1,100	188	1,288	1,131	198	1,330	0.31%	0.54%	0.34%	0.61%	1.07%	0.68%	0.92%	1.61%	1.02%
2025	1,073	178	1,252	1,107	189	1,296	1,142	201	1,343	0.30%	0.49%	0.33%	0.61%	0.99%	0.66%	0.91%	1.48%	1.00%
2026	1,077	179	1,256	1,114	191	1,305	1,152	204	1,356	0.30%	0.51%	0.33%	0.60%	1.01%	0.66%	0.90%	1.52%	0.99%
2027	1,080	180	1,260	1,120	193	1,314	1,162	207	1,370	0.30%	0.51%	0.33%	0.59%	1.02%	0.65%	0.89%	1.53%	0.98%
2028	1,083	181	1,264	1,127	195	1,322	1,172	210	1,383	0.29%	0.47%	0.32%	0.58%	0.94%	0.64%	0.87%	1.41%	0.96%
2029	1,086	182	1,268	1,133	197	1,330	1,183	213	1,396	0.29%	0.48%	0.32%	0.58%	0.96%	0.63%	0.86%	1.44%	0.95%
2030	1,089	183	1,272	1,140	199	1,338	1,193	216	1,409	0.28%	0.42%	0.30%	0.57%	0.84%	0.61%	0.85%	1.26%	0.91%
2031	1,092	183	1,276	1,146	200	1,346	1,202	219	1,421	0.27%	0.46%	0.30%	0.55%	0.93%	0.60%	0.82%	1.39%	0.91%
2032	1,095	184	1,279	1,152	202	1,354	1,212	222	1,434	0.26%	0.43%	0.29%	0.52%	0.87%	0.58%	0.79%	1.30%	0.87%
2033	1,098	185	1,283	1,158	204	1,362	1,221	225	1,446	0.25%	0.44%	0.28%	0.51%	0.89%	0.56%	0.76%	1.33%	0.85%
2034	1,100	186	1,286	1,163	206	1,369	1,230	227	1,457	0.24%	0.40%	0.27%	0.49%	0.80%	0.53%	0.73%	1.21%	0.80%
2035	1,103	187	1,289	1,169	207	1,376	1,239	230	1,469	0.23%	0.37%	0.25%	0.47%	0.74%	0.51%	0.70%	1.11%	0.77%
2036	1,105	187	1,293	1,174	209	1,383	1,247	233	1,480	0.23%	0.41%	0.25%	0.45%	0.82%	0.51%	0.68%	1.24%	0.76%





20 Year Customer Growth Rate	
High:	19.77%
Medium:	12.77%
Low:	6.19%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

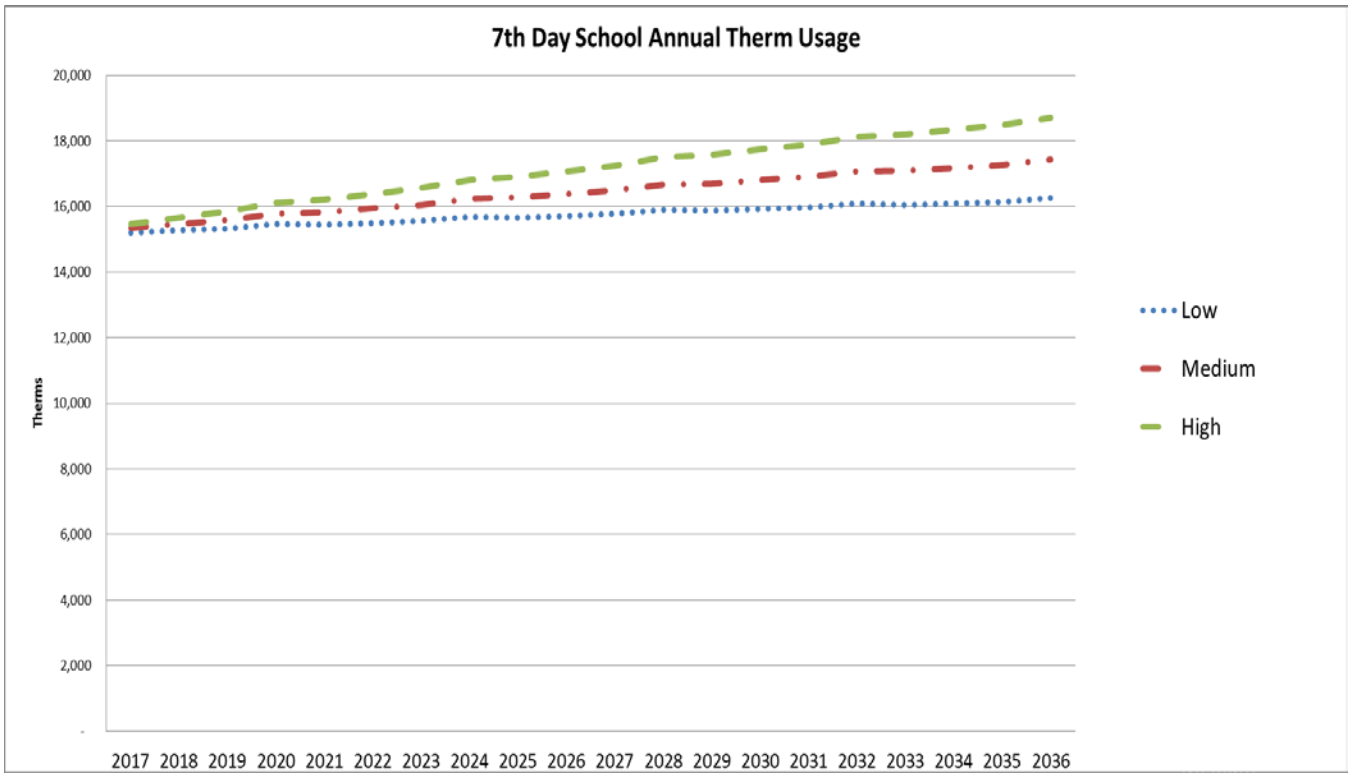
7th Day School

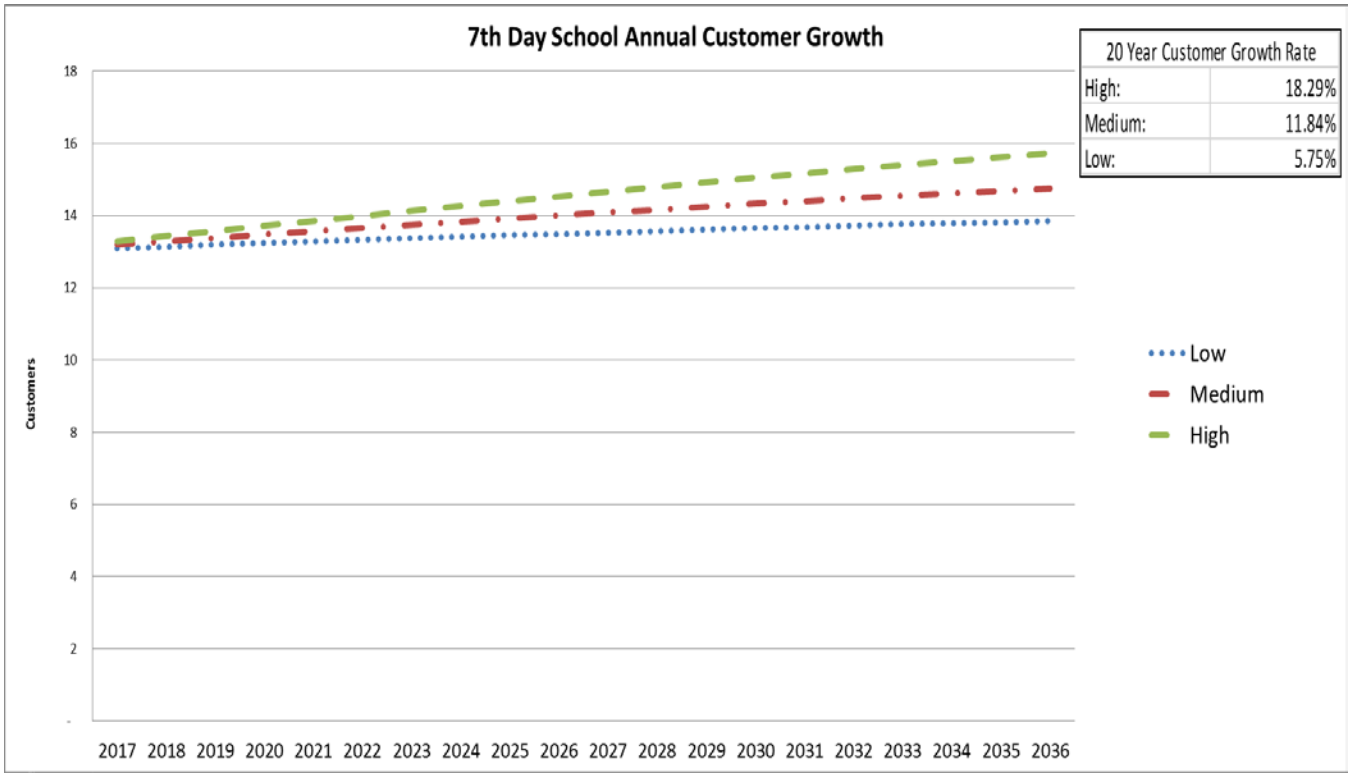
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	15,026	187	15,213	15,156	190	15,346	15,286	194	15,480	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	15,086	188	15,274	15,278	192	15,470	15,471	197	15,667	0.40%	0.57%	0.40%	0.80%	1.14%	0.81%	1.21%	1.71%	1.21%
2019	15,145	189	15,334	15,397	194	15,591	15,652	199	15,852	0.39%	0.44%	0.39%	0.78%	0.88%	0.78%	1.17%	1.31%	1.18%
2020	15,280	189	15,470	15,593	195	15,789	15,912	201	16,113	0.89%	0.32%	0.89%	1.28%	0.63%	1.27%	1.66%	0.96%	1.65%
2021	15,259	190	15,449	15,630	196	15,826	16,008	203	16,211	-0.14%	0.23%	-0.13%	0.23%	0.47%	0.24%	0.60%	0.71%	0.61%
2022	15,315	190	15,505	15,744	197	15,940	16,184	204	16,387	0.36%	0.13%	0.36%	0.73%	0.28%	0.72%	1.10%	0.43%	1.09%
2023	15,370	190	15,560	15,856	197	16,053	16,358	204	16,562	0.36%	0.05%	0.35%	0.72%	0.12%	0.71%	1.08%	0.19%	1.07%
2024	15,502	190	15,692	16,050	197	16,247	16,616	204	16,820	0.86%	-0.02%	0.85%	1.22%	-0.02%	1.20%	1.58%	-0.02%	1.56%
2025	15,477	190	15,667	16,079	197	16,276	16,704	204	16,908	-0.16%	-0.07%	-0.16%	0.18%	-0.13%	0.18%	0.53%	-0.18%	0.52%
2026	15,529	190	15,719	16,188	196	16,384	16,875	203	17,078	0.34%	-0.13%	0.33%	0.68%	-0.24%	0.67%	1.02%	-0.35%	1.01%
2027	15,581	189	15,770	16,296	195	16,491	17,044	202	17,246	0.33%	-0.17%	0.33%	0.67%	-0.33%	0.65%	1.00%	-0.48%	0.99%
2028	15,711	189	15,900	16,486	195	16,681	17,299	201	17,500	0.84%	-0.21%	0.82%	1.17%	-0.41%	1.15%	1.50%	-0.60%	1.47%
2029	15,681	188	15,869	16,507	194	16,701	17,377	199	17,577	-0.19%	-0.23%	-0.19%	0.13%	-0.46%	0.12%	0.45%	-0.68%	0.44%
2030	15,730	188	15,918	16,610	193	16,803	17,541	198	17,739	0.31%	-0.26%	0.30%	0.63%	-0.51%	0.61%	0.94%	-0.77%	0.92%
2031	15,777	187	15,965	16,711	192	16,903	17,701	196	17,898	0.30%	-0.27%	0.29%	0.60%	-0.54%	0.59%	0.91%	-0.81%	0.89%
2032	15,903	187	16,090	16,894	191	17,084	17,948	195	18,142	0.80%	-0.28%	0.79%	1.09%	-0.57%	1.08%	1.39%	-0.86%	1.37%
2033	15,867	186	16,053	16,902	190	17,092	18,008	193	18,201	-0.23%	-0.29%	-0.23%	0.05%	-0.58%	0.04%	0.33%	-0.88%	0.32%
2034	15,909	186	16,095	16,993	188	17,182	18,155	191	18,346	0.27%	-0.29%	0.26%	0.54%	-0.59%	0.53%	0.82%	-0.90%	0.80%
2035	15,950	185	16,136	17,082	187	17,269	18,298	189	18,487	0.26%	-0.30%	0.25%	0.52%	-0.61%	0.51%	0.79%	-0.93%	0.77%
2036	16,071	185	16,256	17,255	186	17,441	18,530	188	18,718	0.76%	-0.30%	0.75%	1.01%	-0.62%	0.99%	1.27%	-0.96%	1.25%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	1	197	198	1	199	199	1	200	201	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1	198	198	1	200	201	1	203	203	0.57%	0.40%	0.40%	1.14%	0.80%	0.80%	1.71%	1.21%	1.21%
2019	1	199	199	1	202	202	1	205	206	0.44%	0.39%	0.39%	0.88%	0.78%	0.78%	1.31%	1.18%	1.18%
2020	1	199	200	1	203	204	1	208	208	0.32%	0.38%	0.38%	0.63%	0.76%	0.76%	0.96%	1.15%	1.15%
2021	1	200	201	1	205	205	1	210	210	0.23%	0.37%	0.37%	0.47%	0.75%	0.75%	0.71%	1.12%	1.12%
2022	1	201	201	1	206	207	1	212	213	0.13%	0.37%	0.37%	0.28%	0.73%	0.73%	0.43%	1.10%	1.10%
2023	1	202	202	1	208	208	1	215	215	0.05%	0.36%	0.36%	0.12%	0.72%	0.72%	0.19%	1.09%	1.08%
2024	1	202	203	1	209	210	1	217	217	-0.02%	0.36%	0.35%	-0.02%	0.71%	0.71%	-0.02%	1.07%	1.07%
2025	1	203	203	1	211	211	1	219	220	-0.07%	0.35%	0.35%	-0.13%	0.70%	0.70%	-0.18%	1.05%	1.05%
2026	1	204	204	1	212	213	1	221	222	-0.13%	0.34%	0.34%	-0.24%	0.69%	0.68%	-0.35%	1.03%	1.03%
2027	1	204	205	1	214	214	1	224	224	-0.17%	0.34%	0.33%	-0.33%	0.67%	0.67%	-0.48%	1.01%	1.01%
2028	1	205	206	1	215	216	1	226	226	-0.21%	0.33%	0.33%	-0.41%	0.66%	0.66%	-0.60%	1.00%	0.99%
2029	1	206	206	1	217	217	1	228	229	-0.23%	0.32%	0.32%	-0.46%	0.65%	0.65%	-0.68%	0.98%	0.97%
2030	1	206	207	1	218	218	1	230	231	-0.26%	0.32%	0.31%	-0.51%	0.63%	0.63%	-0.77%	0.96%	0.95%
2031	1	207	207	1	219	220	1	232	233	-0.27%	0.31%	0.30%	-0.54%	0.61%	0.61%	-0.81%	0.93%	0.92%
2032	1	208	208	1	221	221	1	234	235	-0.28%	0.29%	0.29%	-0.57%	0.59%	0.59%	-0.86%	0.89%	0.89%
2033	1	208	209	1	222	222	1	236	237	-0.29%	0.28%	0.28%	-0.58%	0.57%	0.57%	-0.88%	0.86%	0.86%
2034	1	209	209	1	223	224	1	238	239	-0.29%	0.27%	0.27%	-0.59%	0.55%	0.55%	-0.90%	0.83%	0.82%
2035	1	209	210	1	224	225	1	240	241	-0.30%	0.26%	0.26%	-0.61%	0.53%	0.53%	-0.93%	0.80%	0.80%
2036	1	210	210	1	225	226	1	242	243	-0.30%	0.25%	0.25%	-0.62%	0.51%	0.51%	-0.96%	0.77%	0.76%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	9,998	5,215	15,213	10,064	5,282	15,346	10,130	5,350	15,480	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	10,030	5,244	15,274	10,130	5,340	15,470	10,229	5,438	15,667	0.33%	0.55%	0.40%	0.66%	1.10%	0.81%	0.98%	1.65%	1.21%
2019	10,063	5,271	15,334	10,196	5,395	15,591	10,330	5,522	15,852	0.33%	0.51%	0.39%	0.65%	1.03%	0.78%	0.98%	1.55%	1.18%
2020	10,149	5,320	15,470	10,316	5,472	15,789	10,485	5,628	16,113	0.86%	0.94%	0.89%	1.18%	1.43%	1.27%	1.51%	1.92%	1.65%
2021	10,128	5,321	15,449	10,328	5,498	15,826	10,530	5,681	16,211	-0.21%	0.01%	-0.13%	0.11%	0.47%	0.24%	0.43%	0.93%	0.61%
2022	10,160	5,344	15,505	10,393	5,547	15,940	10,631	5,757	16,387	0.32%	0.44%	0.36%	0.64%	0.89%	0.72%	0.96%	1.34%	1.09%
2023	10,192	5,367	15,560	10,459	5,594	16,053	10,731	5,831	16,562	0.32%	0.43%	0.35%	0.63%	0.86%	0.71%	0.95%	1.29%	1.07%
2024	10,279	5,414	15,692	10,580	5,667	16,247	10,890	5,931	16,820	0.84%	0.87%	0.85%	1.16%	1.29%	1.20%	1.47%	1.71%	1.56%
2025	10,256	5,411	15,667	10,589	5,686	16,276	10,932	5,975	16,908	-0.22%	-0.05%	-0.16%	0.09%	0.35%	0.18%	0.39%	0.76%	0.52%
2026	10,287	5,432	15,719	10,653	5,731	16,384	11,032	6,046	17,078	0.30%	0.39%	0.33%	0.61%	0.78%	0.67%	0.91%	1.18%	1.01%
2027	10,318	5,452	15,770	10,717	5,774	16,491	11,131	6,115	17,246	0.30%	0.38%	0.33%	0.60%	0.76%	0.65%	0.90%	1.15%	0.99%
2028	10,403	5,497	15,900	10,837	5,844	16,681	11,288	6,212	17,500	0.82%	0.82%	0.82%	1.12%	1.20%	1.15%	1.41%	1.59%	1.47%
2029	10,378	5,492	15,869	10,842	5,859	16,701	11,325	6,252	17,577	-0.24%	-0.10%	-0.19%	0.04%	0.26%	0.12%	0.33%	0.63%	0.44%
2030	10,407	5,511	15,918	10,903	5,900	16,803	11,421	6,318	17,739	0.28%	0.35%	0.30%	0.56%	0.70%	0.61%	0.84%	1.07%	0.92%
2031	10,435	5,530	15,965	10,962	5,941	16,903	11,513	6,384	17,898	0.27%	0.34%	0.29%	0.54%	0.69%	0.59%	0.81%	1.04%	0.89%
2032	10,517	5,573	16,090	11,077	6,008	17,084	11,664	6,478	18,142	0.79%	0.78%	0.79%	1.05%	1.12%	1.08%	1.31%	1.47%	1.37%
2033	10,488	5,565	16,053	11,073	6,019	17,092	11,689	6,512	18,201	-0.28%	-0.14%	-0.23%	-0.04%	0.19%	0.04%	0.21%	0.52%	0.32%
2034	10,512	5,583	16,095	11,125	6,057	17,182	11,772	6,574	18,346	0.24%	0.31%	0.26%	0.47%	0.63%	0.53%	0.71%	0.96%	0.80%
2035	10,536	5,599	16,136	11,175	6,094	17,269	11,851	6,636	18,487	0.23%	0.30%	0.25%	0.45%	0.61%	0.51%	0.68%	0.93%	0.77%
2036	10,615	5,641	16,256	11,283	6,158	17,441	11,991	6,726	18,718	0.75%	0.75%	0.75%	0.96%	1.05%	0.99%	1.18%	1.37%	1.25%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	11	2	13	11	2	13	11	2	13	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	11	2	13	11	2	13	11	2	13	0.33%	0.51%	0.36%	0.66%	1.01%	0.71%	0.98%	1.52%	1.07%
2019	11	2	13	11	2	13	11	2	14	0.33%	0.47%	0.35%	0.65%	0.94%	0.70%	0.98%	1.41%	1.05%
2020	11	2	13	11	2	13	12	2	14	0.32%	0.44%	0.34%	0.65%	0.88%	0.68%	0.97%	1.32%	1.03%
2021	11	2	13	11	2	14	12	2	14	0.32%	0.41%	0.34%	0.64%	0.83%	0.67%	0.96%	1.25%	1.01%
2022	11	2	13	12	2	14	12	2	14	0.32%	0.39%	0.33%	0.64%	0.78%	0.66%	0.96%	1.18%	0.99%
2023	11	2	13	12	2	14	12	2	14	0.32%	0.37%	0.32%	0.63%	0.75%	0.65%	0.95%	1.13%	0.97%
2024	11	2	13	12	2	14	12	2	14	0.31%	0.36%	0.32%	0.63%	0.72%	0.64%	0.94%	1.08%	0.96%
2025	11	2	13	12	2	14	12	2	14	0.31%	0.34%	0.31%	0.62%	0.69%	0.63%	0.92%	1.04%	0.94%
2026	11	2	13	12	2	14	12	2	15	0.30%	0.33%	0.31%	0.61%	0.66%	0.62%	0.91%	1.00%	0.93%
2027	11	2	14	12	2	14	12	2	15	0.30%	0.31%	0.30%	0.60%	0.64%	0.60%	0.90%	0.96%	0.91%
2028	11	2	14	12	2	14	12	2	15	0.29%	0.30%	0.29%	0.59%	0.61%	0.59%	0.88%	0.93%	0.89%
2029	11	2	14	12	2	14	13	2	15	0.29%	0.29%	0.29%	0.57%	0.60%	0.58%	0.86%	0.91%	0.87%
2030	12	2	14	12	2	14	13	2	15	0.28%	0.28%	0.28%	0.56%	0.58%	0.57%	0.84%	0.88%	0.85%
2031	12	2	14	12	2	14	13	2	15	0.27%	0.27%	0.27%	0.54%	0.56%	0.54%	0.81%	0.85%	0.82%
2032	12	2	14	12	2	14	13	2	15	0.26%	0.26%	0.26%	0.52%	0.54%	0.52%	0.78%	0.82%	0.78%
2033	12	2	14	12	2	15	13	2	15	0.25%	0.25%	0.25%	0.49%	0.52%	0.50%	0.74%	0.80%	0.75%
2034	12	2	14	12	2	15	13	2	16	0.24%	0.24%	0.24%	0.47%	0.50%	0.48%	0.71%	0.77%	0.72%
2035	12	2	14	12	2	15	13	2	16	0.23%	0.24%	0.23%	0.45%	0.49%	0.46%	0.68%	0.75%	0.69%
2036	12	2	14	12	2	15	13	3	16	0.22%	0.23%	0.22%	0.43%	0.47%	0.44%	0.65%	0.72%	0.66%





20 Year Customer Growth Rate	
High:	18.29%
Medium:	11.84%
Low:	5.75%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

A/M Rendering

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	176,424	259,033	435,456	178,765	262,480	441,245	181,122	265,950	447,072
2018	177,596	260,758	438,355	181,142	265,977	447,119	184,735	271,264	455,999
2019	178,776	262,493	441,269	183,548	269,516	453,064	188,416	276,679	465,095
2020	181,602	264,236	445,837	187,677	273,095	460,772	193,914	282,190	476,104
2021	181,151	265,986	447,137	188,441	276,713	465,154	195,975	287,799	483,774
2022	182,347	267,745	450,092	190,930	280,372	471,302	199,857	293,508	493,365
2023	183,548	269,510	453,058	193,444	284,070	477,514	203,805	299,315	503,120
2024	186,438	271,283	457,721	197,773	287,808	485,581	209,717	305,224	514,940
2025	185,961	273,059	459,020	198,548	291,577	490,125	211,898	311,218	523,116
2026	187,170	274,837	462,008	201,131	295,374	496,505	216,032	317,299	533,331
2027	188,381	276,617	464,998	203,732	299,200	502,932	220,223	323,464	543,687
2028	191,318	278,395	469,713	208,229	303,046	511,275	226,511	329,702	556,214
2029	190,799	280,173	470,973	208,980	306,918	515,899	228,761	336,022	564,783
2030	192,008	281,950	473,958	211,628	310,813	522,441	233,109	342,418	575,526
2031	193,204	283,710	476,914	214,265	314,692	528,957	237,466	348,829	586,295
2032	196,161	285,451	481,612	218,870	318,555	537,425	244,039	355,254	599,293
2033	195,562	287,176	482,738	219,510	322,406	541,917	246,212	361,697	607,909
2034	196,722	288,883	485,606	222,116	326,240	548,356	250,597	368,148	618,745
2035	197,872	290,574	488,446	224,712	330,059	554,771	254,991	374,615	629,606
2036	200,826	292,250	493,076	229,373	333,867	563,240	261,762	381,099	642,861

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.66%	0.67%	0.67%	1.33%	1.33%	1.33%	1.99%	2.00%	2.00%
2019	0.66%	0.67%	0.66%	1.33%	1.33%	1.33%	1.99%	2.00%	1.99%
2020	1.58%	0.66%	1.04%	2.25%	1.33%	1.70%	2.92%	1.99%	2.37%
2021	-0.25%	0.66%	0.29%	0.41%	1.32%	0.95%	1.06%	1.99%	1.61%
2022	0.66%	0.66%	0.66%	1.32%	1.32%	1.32%	1.98%	1.98%	1.98%
2023	0.66%	0.66%	0.66%	1.32%	1.32%	1.32%	1.98%	1.98%	1.98%
2024	1.57%	0.66%	1.03%	2.24%	1.32%	1.69%	2.90%	1.97%	2.35%
2025	-0.26%	0.65%	0.28%	0.39%	1.31%	0.94%	1.04%	1.96%	1.59%
2026	0.65%	0.65%	0.65%	1.30%	1.30%	1.30%	1.95%	1.95%	1.95%
2027	0.65%	0.65%	0.65%	1.29%	1.30%	1.29%	1.94%	1.94%	1.94%
2028	1.56%	0.64%	1.01%	2.21%	1.29%	1.66%	2.86%	1.93%	2.30%
2029	-0.27%	0.64%	0.27%	0.36%	1.28%	0.90%	0.99%	1.92%	1.54%
2030	0.63%	0.63%	0.63%	1.27%	1.27%	1.27%	1.90%	1.90%	1.90%
2031	0.62%	0.62%	0.62%	1.25%	1.25%	1.25%	1.87%	1.87%	1.87%
2032	1.53%	0.61%	0.99%	2.15%	1.23%	1.60%	2.77%	1.84%	2.22%
2033	-0.31%	0.60%	0.23%	0.29%	1.21%	0.84%	0.89%	1.81%	1.44%
2034	0.59%	0.59%	0.59%	1.19%	1.19%	1.19%	1.78%	1.78%	1.78%
2035	0.58%	0.59%	0.58%	1.17%	1.17%	1.17%	1.75%	1.76%	1.76%
2036	1.49%	0.58%	0.95%	2.07%	1.15%	1.53%	2.66%	1.73%	2.11%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	710	2,288	2,998	719	2,319	3,038	729	2,349	3,078
2018	714	2,303	3,018	729	2,349	3,078	743	2,396	3,139
2019	719	2,319	3,038	738	2,381	3,119	758	2,444	3,202
2020	724	2,334	3,058	748	2,412	3,160	773	2,492	3,265
2021	729	2,349	3,078	758	2,444	3,202	788	2,542	3,330
2022	734	2,365	3,099	768	2,476	3,244	804	2,592	3,396
2023	738	2,381	3,119	778	2,509	3,287	820	2,643	3,463
2024	743	2,396	3,139	789	2,542	3,330	836	2,695	3,532
2025	748	2,412	3,160	799	2,575	3,374	853	2,748	3,601
2026	753	2,428	3,181	809	2,609	3,418	869	2,802	3,671
2027	758	2,443	3,201	820	2,642	3,462	886	2,856	3,742
2028	763	2,459	3,222	830	2,676	3,507	903	2,911	3,815
2029	768	2,475	3,242	841	2,710	3,551	921	2,967	3,888
2030	772	2,490	3,263	852	2,745	3,596	938	3,023	3,961
2031	777	2,506	3,283	862	2,779	3,641	956	3,080	4,036
2032	782	2,521	3,303	873	2,813	3,686	973	3,137	4,110
2033	787	2,536	3,323	883	2,847	3,730	991	3,193	4,184
2034	791	2,551	3,343	894	2,881	3,775	1,009	3,250	4,259
2035	796	2,566	3,362	904	2,914	3,819	1,026	3,307	4,334
2036	801	2,581	3,382	915	2,948	3,863	1,044	3,364	4,408

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.67%	0.66%	0.67%	1.33%	1.33%	1.33%	2.00%	1.99%	2.00%
2019	0.67%	0.66%	0.66%	1.33%	1.33%	1.33%	2.00%	1.99%	1.99%
2020	0.66%	0.66%	0.66%	1.33%	1.33%	1.33%	1.99%	1.99%	1.99%
2021	0.66%	0.66%	0.66%	1.32%	1.32%	1.32%	1.99%	1.98%	1.99%
2022	0.66%	0.66%	0.66%	1.32%	1.32%	1.32%	1.98%	1.98%	1.98%
2023	0.66%	0.66%	0.66%	1.32%	1.32%	1.32%	1.98%	1.98%	1.98%
2024	0.66%	0.66%	0.66%	1.32%	1.31%	1.31%	1.97%	1.97%	1.97%
2025	0.65%	0.65%	0.65%	1.31%	1.31%	1.31%	1.96%	1.96%	1.96%
2026	0.65%	0.65%	0.65%	1.30%	1.30%	1.30%	1.95%	1.95%	1.95%
2027	0.65%	0.65%	0.65%	1.30%	1.29%	1.29%	1.94%	1.94%	1.94%
2028	0.64%	0.64%	0.64%	1.29%	1.28%	1.28%	1.93%	1.93%	1.93%
2029	0.64%	0.64%	0.64%	1.28%	1.28%	1.28%	1.92%	1.91%	1.91%
2030	0.63%	0.63%	0.63%	1.27%	1.27%	1.27%	1.90%	1.90%	1.90%
2031	0.62%	0.62%	0.62%	1.25%	1.25%	1.25%	1.87%	1.87%	1.87%
2032	0.61%	0.61%	0.61%	1.23%	1.23%	1.23%	1.84%	1.84%	1.84%
2033	0.60%	0.60%	0.60%	1.21%	1.21%	1.21%	1.81%	1.81%	1.81%
2034	0.59%	0.59%	0.59%	1.19%	1.19%	1.19%	1.78%	1.78%	1.78%
2035	0.59%	0.58%	0.58%	1.17%	1.17%	1.17%	1.76%	1.75%	1.75%
2036	0.58%	0.58%	0.58%	1.15%	1.15%	1.15%	1.73%	1.73%	1.73%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	431,624	3,832	435,456	437,333	3,912	441,245	443,079	3,992	447,072
2018	434,486	3,869	438,355	443,132	3,986	447,119	451,892	4,107	455,999
2019	437,365	3,904	441,269	449,004	4,060	453,064	460,874	4,221	465,095
2020	441,884	3,953	445,837	456,624	4,148	460,772	471,754	4,350	476,104
2021	443,162	3,975	447,137	460,947	4,207	465,154	479,323	4,451	483,774
2022	446,082	4,010	450,092	467,021	4,281	471,302	488,796	4,568	493,365
2023	449,014	4,044	453,058	473,159	4,355	477,514	498,433	4,687	503,120
2024	453,628	4,093	457,721	481,136	4,445	485,581	510,116	4,825	514,940
2025	454,907	4,114	459,020	485,619	4,506	490,125	518,185	4,931	523,116
2026	457,859	4,149	462,008	491,923	4,582	496,505	528,275	5,056	533,331
2027	460,814	4,183	464,998	498,273	4,659	502,932	538,504	5,183	543,687
2028	465,481	4,233	469,713	506,523	4,752	511,275	550,883	5,330	556,214
2029	466,720	4,253	470,973	511,085	4,814	515,899	559,339	5,443	564,783
2030	469,671	4,288	473,958	517,548	4,893	522,441	569,949	5,577	575,526
2031	472,592	4,322	476,914	523,985	4,972	528,957	580,583	5,713	586,295
2032	477,240	4,372	481,612	532,356	5,069	537,425	593,423	5,870	599,293
2033	478,346	4,392	482,738	536,784	5,132	541,917	601,920	5,990	607,909
2034	481,179	4,426	485,606	543,143	5,213	548,356	612,614	6,131	618,745
2035	483,985	4,461	488,446	549,477	5,295	554,771	623,331	6,275	629,606
2036	488,565	4,511	493,076	557,845	5,395	563,240	636,418	6,442	642,861

Annual Change

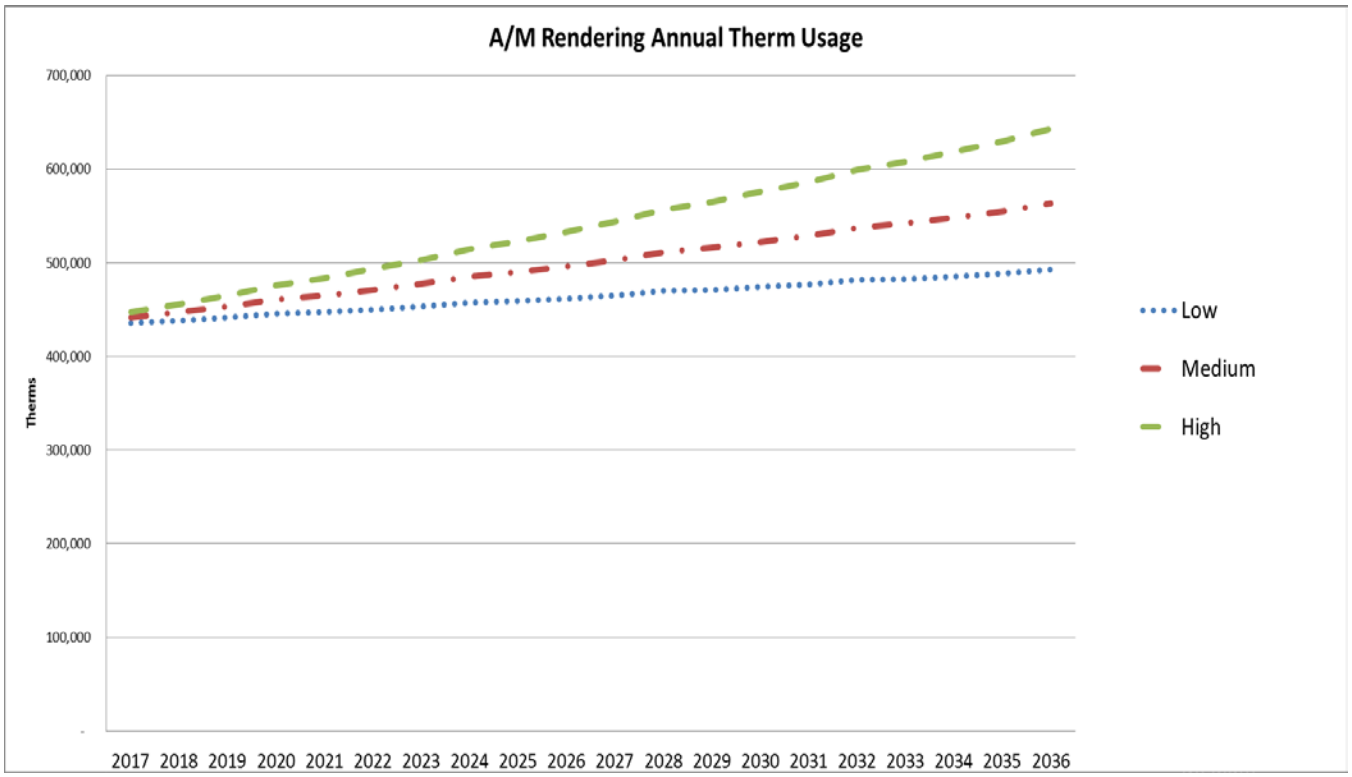
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.66%	0.96%	0.67%	1.33%	1.91%	1.33%	1.99%	2.87%	2.00%
2019	0.66%	0.93%	0.66%	1.33%	1.85%	1.33%	1.99%	2.78%	1.99%
2020	1.03%	1.25%	1.04%	1.70%	2.15%	1.70%	2.36%	3.06%	2.37%
2021	0.29%	0.55%	0.29%	0.95%	1.43%	0.95%	1.60%	2.32%	1.61%
2022	0.66%	0.88%	0.66%	1.32%	1.76%	1.32%	1.98%	2.63%	1.98%
2023	0.66%	0.87%	0.66%	1.31%	1.73%	1.32%	1.97%	2.60%	1.98%
2024	1.03%	1.20%	1.03%	1.69%	2.07%	1.69%	2.34%	2.93%	2.35%
2025	0.28%	0.51%	0.28%	0.93%	1.36%	0.94%	1.58%	2.21%	1.59%
2026	0.65%	0.84%	0.65%	1.30%	1.69%	1.30%	1.95%	2.53%	1.95%
2027	0.65%	0.84%	0.65%	1.29%	1.68%	1.29%	1.94%	2.52%	1.94%
2028	1.01%	1.17%	1.01%	1.66%	2.01%	1.66%	2.30%	2.84%	2.30%
2029	0.27%	0.48%	0.27%	0.90%	1.30%	0.90%	1.53%	2.12%	1.54%
2030	0.63%	0.82%	0.63%	1.26%	1.63%	1.27%	1.90%	2.45%	1.90%
2031	0.62%	0.81%	0.62%	1.24%	1.62%	1.25%	1.87%	2.43%	1.87%
2032	0.98%	1.15%	0.99%	1.60%	1.95%	1.60%	2.21%	2.76%	2.22%
2033	0.23%	0.45%	0.23%	0.83%	1.24%	0.84%	1.43%	2.04%	1.44%
2034	0.59%	0.79%	0.59%	1.18%	1.57%	1.19%	1.78%	2.36%	1.78%
2035	0.58%	0.78%	0.58%	1.17%	1.57%	1.17%	1.75%	2.35%	1.76%
2036	0.95%	1.12%	0.95%	1.52%	1.89%	1.53%	2.10%	2.67%	2.11%

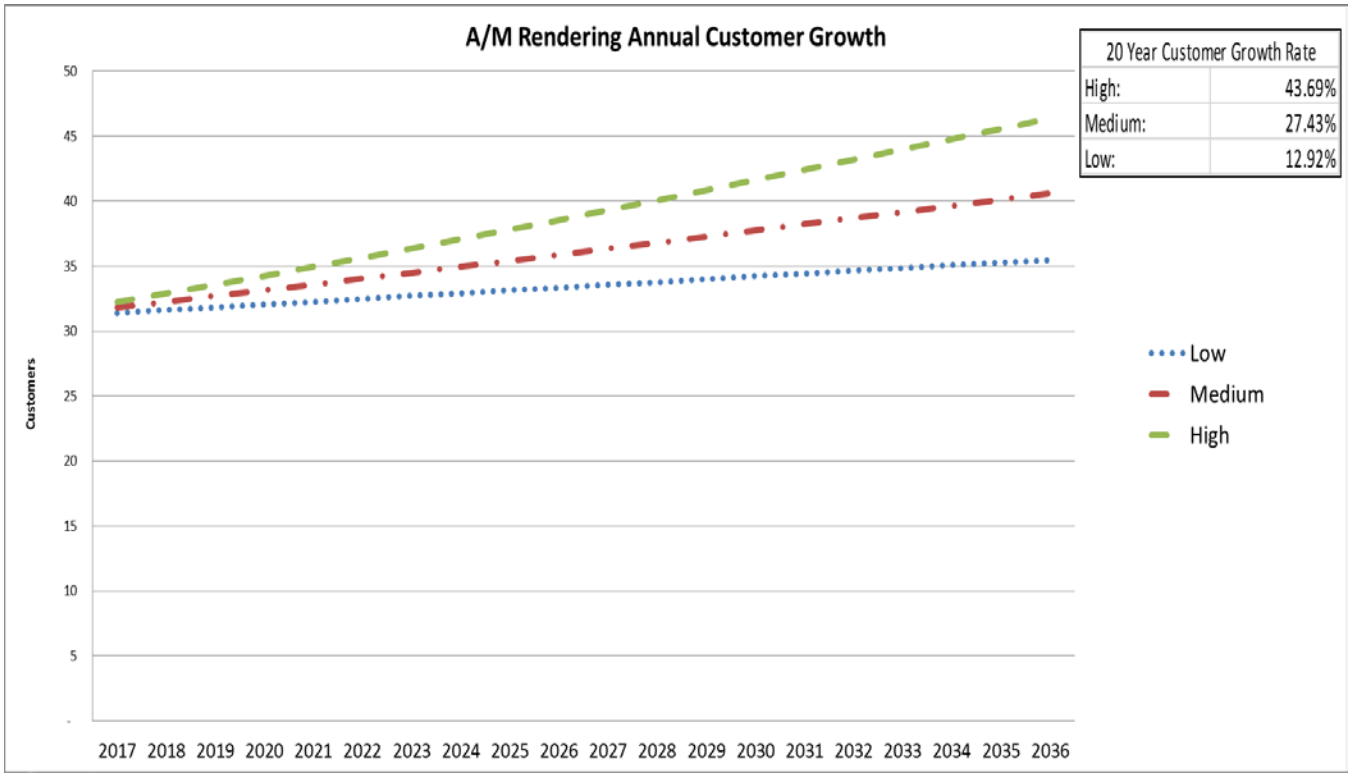
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	30	1	31	31	1	32	31	1	32
2018	31	1	32	31	1	32	32	1	33
2019	31	1	32	32	1	33	32	1	34
2020	31	1	32	32	1	33	33	1	34
2021	31	1	32	32	1	34	34	1	35
2022	31	1	32	33	1	34	34	1	36
2023	32	1	33	33	1	34	35	1	36
2024	32	1	33	34	1	35	36	1	37
2025	32	1	33	34	1	35	36	1	38
2026	32	1	33	35	1	36	37	1	39
2027	32	1	34	35	1	36	38	1	39
2028	33	1	34	36	1	37	39	1	40
2029	33	1	34	36	1	37	39	1	41
2030	33	1	34	36	1	38	40	1	42
2031	33	1	34	37	1	38	41	2	42
2032	33	1	35	37	1	39	42	2	43
2033	34	1	35	38	1	39	42	2	44
2034	34	1	35	38	1	40	43	2	45
2035	34	1	35	39	1	40	44	2	46
2036	34	1	35	39	1	41	45	2	46

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.66%	0.96%	0.67%	1.33%	1.91%	1.35%	1.99%	2.87%	2.02%
2019	0.66%	0.93%	0.67%	1.33%	1.85%	1.34%	1.99%	2.78%	2.01%
2020	0.66%	0.90%	0.67%	1.32%	1.81%	1.34%	1.98%	2.71%	2.01%
2021	0.66%	0.89%	0.67%	1.32%	1.78%	1.34%	1.98%	2.67%	2.00%
2022	0.66%	0.88%	0.67%	1.32%	1.76%	1.33%	1.98%	2.63%	2.00%
2023	0.66%	0.87%	0.66%	1.31%	1.73%	1.33%	1.97%	2.60%	1.99%
2024	0.66%	0.86%	0.66%	1.31%	1.72%	1.33%	1.97%	2.58%	1.99%
2025	0.65%	0.85%	0.66%	1.30%	1.70%	1.32%	1.96%	2.55%	1.98%
2026	0.65%	0.84%	0.66%	1.30%	1.69%	1.31%	1.95%	2.53%	1.97%
2027	0.65%	0.84%	0.65%	1.29%	1.68%	1.30%	1.94%	2.52%	1.96%
2028	0.64%	0.83%	0.65%	1.28%	1.66%	1.29%	1.92%	2.50%	1.94%
2029	0.64%	0.82%	0.64%	1.27%	1.65%	1.29%	1.91%	2.47%	1.93%
2030	0.63%	0.82%	0.64%	1.26%	1.63%	1.28%	1.90%	2.45%	1.92%
2031	0.62%	0.81%	0.63%	1.24%	1.62%	1.26%	1.87%	2.43%	1.89%
2032	0.61%	0.80%	0.62%	1.22%	1.61%	1.24%	1.84%	2.41%	1.86%
2033	0.60%	0.79%	0.61%	1.20%	1.59%	1.22%	1.81%	2.38%	1.83%
2034	0.59%	0.79%	0.60%	1.18%	1.57%	1.20%	1.78%	2.36%	1.80%
2035	0.58%	0.78%	0.59%	1.17%	1.57%	1.18%	1.75%	2.35%	1.77%
2036	0.57%	0.77%	0.58%	1.15%	1.55%	1.16%	1.72%	2.32%	1.75%





20 Year Customer Growth Rate	
High:	43.69%
Medium:	27.43%
Low:	12.92%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

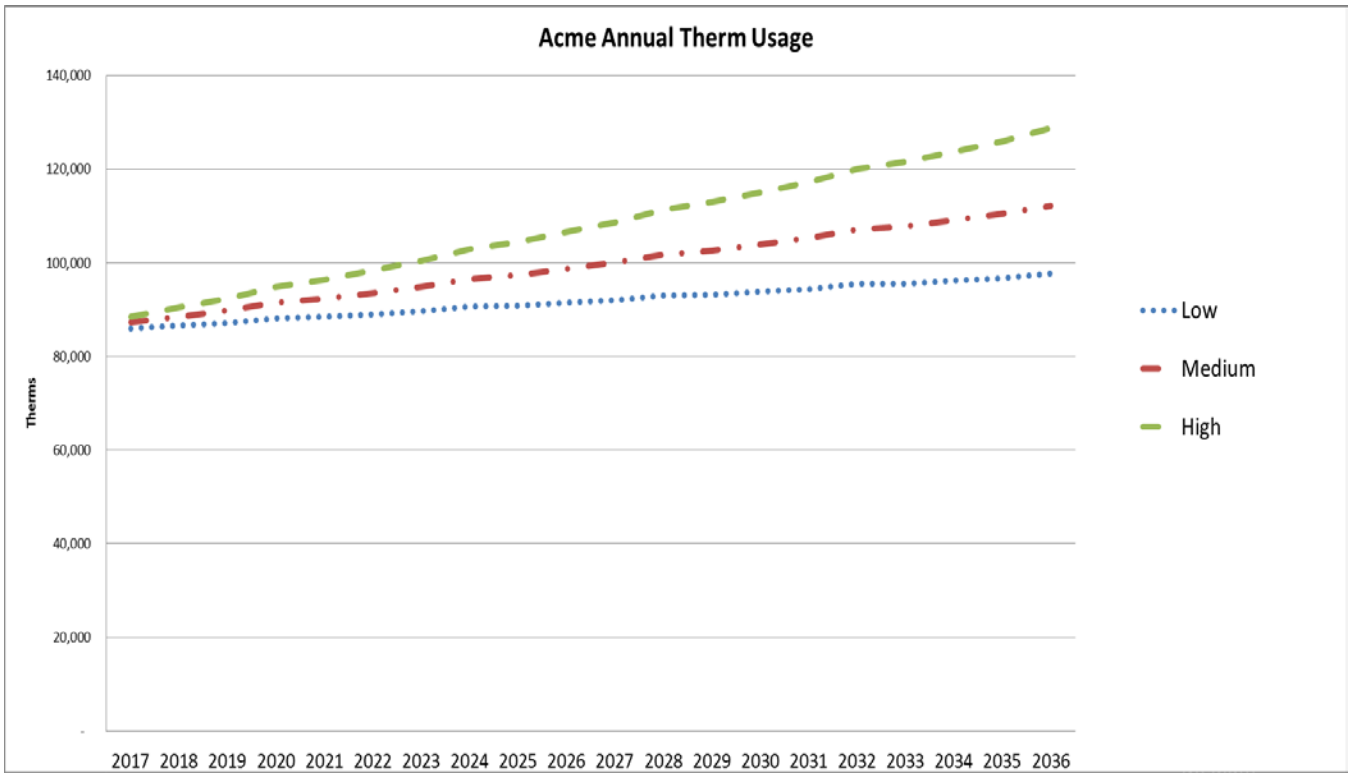
Acme

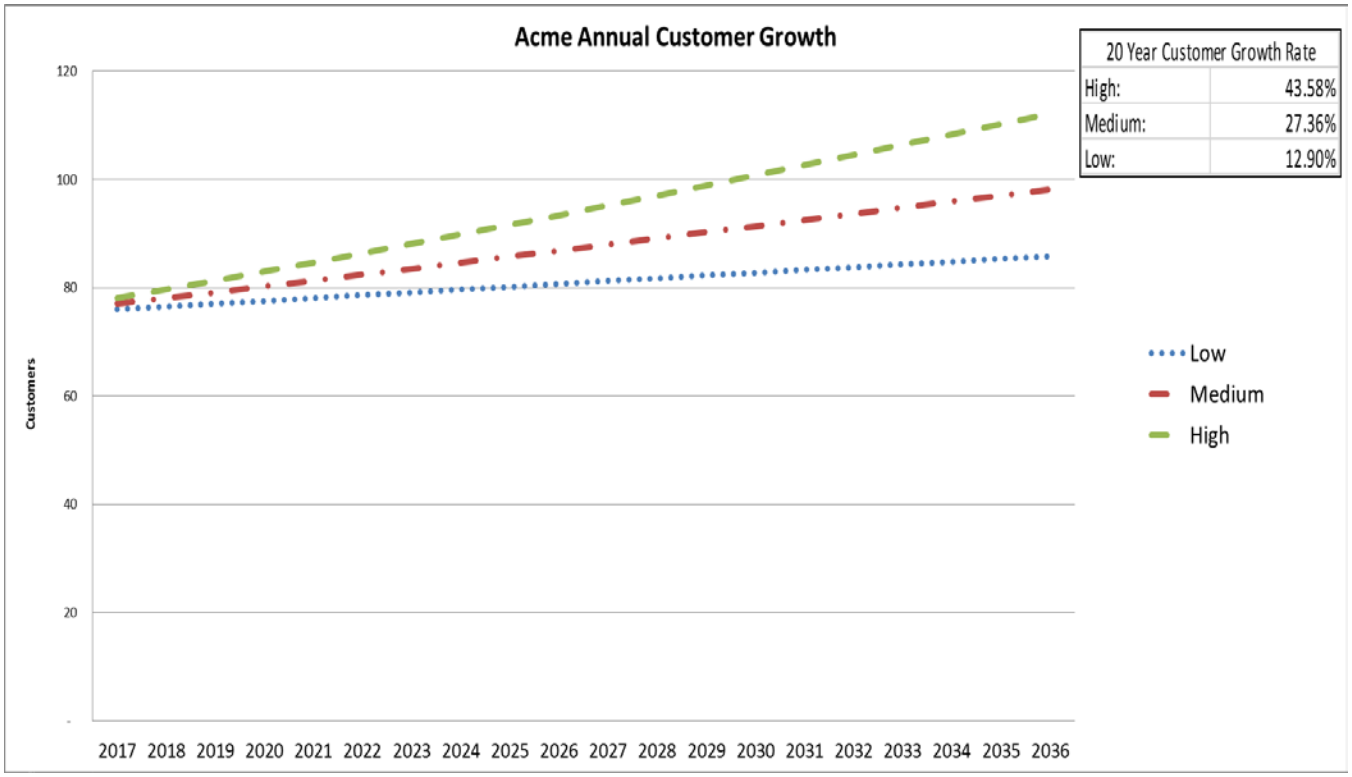
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	73,510	12,431	85,941	74,614	12,615	87,230	75,726	12,802	88,528	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	74,046	12,521	86,567	75,702	12,798	88,500	77,382	13,080	90,462	0.73%	0.72%	0.73%	1.46%	1.45%	1.46%	2.19%	2.17%	2.18%
2019	74,578	12,610	87,188	76,789	12,981	89,770	79,050	13,360	92,410	0.72%	0.71%	0.72%	1.44%	1.43%	1.43%	2.15%	2.14%	2.15%
2020	75,521	12,699	88,220	78,307	13,164	91,471	81,176	13,642	94,818	1.27%	0.70%	1.18%	1.98%	1.41%	1.90%	2.69%	2.11%	2.61%
2021	75,630	12,787	88,417	78,965	13,347	92,312	82,423	13,927	96,350	0.14%	0.70%	0.22%	0.84%	1.39%	0.92%	1.54%	2.09%	1.62%
2022	76,154	12,875	89,029	80,059	13,531	93,590	84,135	14,215	98,351	0.69%	0.69%	0.69%	1.38%	1.38%	1.38%	2.08%	2.07%	2.08%
2023	76,675	12,963	89,638	81,155	13,716	94,870	85,863	14,507	100,370	0.68%	0.68%	0.68%	1.37%	1.36%	1.37%	2.05%	2.05%	2.05%
2024	77,623	13,051	90,674	82,713	13,902	96,614	88,099	14,801	102,900	1.24%	0.68%	1.16%	1.92%	1.36%	1.84%	2.60%	2.03%	2.52%
2025	77,714	13,138	90,852	83,361	14,088	97,449	89,377	15,099	104,476	0.12%	0.67%	0.20%	0.78%	1.34%	0.86%	1.45%	2.01%	1.53%
2026	78,230	13,225	91,455	84,469	14,275	98,743	91,159	15,399	106,559	0.66%	0.66%	0.66%	1.33%	1.33%	1.33%	1.99%	1.99%	1.99%
2027	78,745	13,312	92,057	85,581	14,462	100,043	92,960	15,703	108,662	0.66%	0.66%	0.66%	1.32%	1.31%	1.32%	1.97%	1.97%	1.97%
2028	79,697	13,399	93,096	87,176	14,650	101,826	95,302	16,010	111,311	1.21%	0.65%	1.13%	1.86%	1.30%	1.78%	2.52%	1.95%	2.44%
2029	79,768	13,485	93,253	87,811	14,839	102,650	96,606	16,318	112,924	0.09%	0.64%	0.17%	0.73%	1.29%	0.81%	1.37%	1.93%	1.45%
2030	80,276	13,571	93,846	88,930	15,028	103,957	98,452	16,630	115,082	0.64%	0.64%	0.64%	1.27%	1.27%	1.27%	1.91%	1.91%	1.91%
2031	80,779	13,656	94,435	90,045	15,216	105,261	100,303	16,942	117,246	0.63%	0.63%	0.63%	1.25%	1.25%	1.25%	1.88%	1.88%	1.88%
2032	81,727	13,740	95,466	91,659	15,403	107,063	102,723	17,255	119,979	1.17%	0.62%	1.09%	1.79%	1.23%	1.71%	2.41%	1.85%	2.33%
2033	81,769	13,823	95,592	92,259	15,590	107,849	104,015	17,569	121,584	0.05%	0.61%	0.13%	0.65%	1.21%	0.73%	1.26%	1.82%	1.34%
2034	82,256	13,905	96,161	93,357	15,775	109,133	105,872	17,883	123,755	0.60%	0.59%	0.60%	1.19%	1.19%	1.19%	1.79%	1.78%	1.79%
2035	82,739	13,987	96,726	94,454	15,961	110,415	107,738	18,198	125,935	0.59%	0.59%	0.59%	1.17%	1.17%	1.17%	1.76%	1.76%	1.76%
2036	83,677	14,068	97,745	96,073	16,145	112,218	110,210	18,513	128,723	1.13%	0.58%	1.05%	1.71%	1.15%	1.63%	2.29%	1.73%	2.21%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	34	938	972	35	952	987	35	966	1,002	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	34	945	979	35	966	1,001	36	988	1,023	0.72%	0.73%	0.73%	1.45%	1.46%	1.46%	2.17%	2.19%	2.19%
2019	35	952	986	36	980	1,016	37	1,009	1,045	0.71%	0.72%	0.72%	1.43%	1.44%	1.44%	2.14%	2.15%	2.15%
2020	35	959	993	36	994	1,030	37	1,030	1,068	0.70%	0.71%	0.71%	1.41%	1.42%	1.42%	2.11%	2.12%	2.12%
2021	35	965	1,000	37	1,008	1,044	38	1,052	1,090	0.70%	0.70%	0.70%	1.39%	1.40%	1.40%	2.09%	2.10%	2.10%
2022	35	972	1,007	37	1,022	1,059	39	1,074	1,113	0.69%	0.69%	0.69%	1.38%	1.38%	1.38%	2.07%	2.08%	2.08%
2023	36	979	1,014	38	1,036	1,073	40	1,096	1,136	0.68%	0.68%	0.68%	1.36%	1.37%	1.37%	2.05%	2.05%	2.05%
2024	36	985	1,021	38	1,050	1,088	41	1,118	1,159	0.68%	0.68%	0.68%	1.36%	1.36%	1.36%	2.03%	2.04%	2.04%
2025	36	992	1,028	39	1,064	1,103	41	1,141	1,182	0.67%	0.67%	0.67%	1.34%	1.34%	1.34%	2.01%	2.01%	2.01%
2026	36	998	1,035	39	1,078	1,117	42	1,163	1,206	0.66%	0.66%	0.66%	1.33%	1.33%	1.33%	1.99%	1.99%	1.99%
2027	36	1,005	1,041	40	1,092	1,132	43	1,186	1,229	0.66%	0.66%	0.66%	1.31%	1.32%	1.32%	1.97%	1.97%	1.97%
2028	37	1,012	1,048	40	1,106	1,147	44	1,210	1,253	0.65%	0.65%	0.65%	1.30%	1.30%	1.30%	1.95%	1.96%	1.96%
2029	37	1,018	1,055	41	1,121	1,161	45	1,233	1,278	0.64%	0.64%	0.64%	1.29%	1.29%	1.29%	1.93%	1.93%	1.93%
2030	37	1,025	1,062	41	1,135	1,176	46	1,257	1,302	0.64%	0.64%	0.64%	1.27%	1.27%	1.27%	1.91%	1.91%	1.91%
2031	37	1,031	1,068	42	1,149	1,191	46	1,280	1,327	0.63%	0.63%	0.63%	1.25%	1.25%	1.25%	1.88%	1.88%	1.88%
2032	38	1,037	1,075	42	1,163	1,206	47	1,304	1,351	0.62%	0.62%	0.62%	1.23%	1.23%	1.23%	1.85%	1.85%	1.85%
2033	38	1,044	1,081	43	1,177	1,220	48	1,328	1,376	0.61%	0.61%	0.61%	1.21%	1.21%	1.21%	1.82%	1.82%	1.82%
2034	38	1,050	1,088	43	1,191	1,235	49	1,351	1,400	0.59%	0.60%	0.60%	1.19%	1.19%	1.19%	1.78%	1.79%	1.79%
2035	38	1,056	1,094	44	1,205	1,249	50	1,375	1,425	0.59%	0.59%	0.59%	1.17%	1.17%	1.17%	1.76%	1.76%	1.76%
2036	39	1,062	1,101	44	1,219	1,264	51	1,399	1,450	0.58%	0.58%	0.58%	1.15%	1.15%	1.15%	1.73%	1.73%	1.73%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	50,420	35,521	85,941	51,087	36,142	87,230	51,759	36,769	88,528	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	50,755	35,812	86,567	51,765	36,735	88,500	52,788	37,674	90,462	0.66%	0.82%	0.73%	1.33%	1.64%	1.46%	1.99%	2.46%	2.18%
2019	51,091	36,096	87,188	52,451	37,319	89,770	53,837	38,572	92,410	0.66%	0.79%	0.72%	1.33%	1.59%	1.43%	1.99%	2.38%	2.15%
2020	51,671	36,549	88,220	53,395	38,076	91,471	55,164	39,654	94,818	1.14%	1.25%	1.18%	1.80%	2.03%	1.90%	2.46%	2.80%	2.61%
2021	51,768	36,649	88,417	53,846	38,466	92,312	55,992	40,357	96,350	0.19%	0.27%	0.22%	0.84%	1.02%	0.92%	1.50%	1.77%	1.62%
2022	52,109	36,920	89,029	54,555	39,034	93,590	57,099	41,252	98,351	0.66%	0.74%	0.69%	1.32%	1.48%	1.38%	1.98%	2.22%	2.08%
2023	52,452	37,186	89,638	55,272	39,598	94,870	58,225	42,145	100,370	0.66%	0.72%	0.68%	1.31%	1.44%	1.37%	1.97%	2.17%	2.05%
2024	53,045	37,630	90,674	56,261	40,353	96,614	59,650	43,250	102,900	1.13%	1.19%	1.16%	1.79%	1.91%	1.84%	2.45%	2.62%	2.52%
2025	53,140	37,712	90,852	56,728	40,721	97,449	60,532	43,944	104,476	0.18%	0.22%	0.20%	0.83%	0.91%	0.86%	1.48%	1.60%	1.53%
2026	53,485	37,970	91,455	57,464	41,279	98,743	61,711	44,848	106,559	0.65%	0.69%	0.66%	1.30%	1.37%	1.33%	1.95%	2.06%	1.99%
2027	53,830	38,227	92,057	58,206	41,837	100,043	62,906	45,757	108,662	0.65%	0.68%	0.66%	1.29%	1.35%	1.32%	1.94%	2.03%	1.97%
2028	54,431	38,665	93,096	59,230	42,597	101,826	64,417	46,894	111,311	1.12%	1.15%	1.13%	1.76%	1.82%	1.78%	2.40%	2.49%	2.44%
2029	54,520	38,733	93,253	59,703	42,947	102,650	65,340	47,585	112,924	0.16%	0.17%	0.17%	0.80%	0.82%	0.81%	1.43%	1.47%	1.45%
2030	54,865	38,982	93,846	60,458	43,500	103,957	66,579	48,503	115,082	0.63%	0.64%	0.64%	1.26%	1.29%	1.27%	1.90%	1.93%	1.91%
2031	55,206	39,229	94,435	61,210	44,051	105,261	67,821	49,425	117,246	0.62%	0.63%	0.63%	1.24%	1.27%	1.25%	1.87%	1.90%	1.88%
2032	55,806	39,661	95,466	62,251	44,812	107,063	69,391	50,587	119,979	1.09%	1.10%	1.09%	1.70%	1.73%	1.71%	2.32%	2.35%	2.33%
2033	55,878	39,714	95,592	62,705	45,144	107,849	70,314	51,270	121,584	0.13%	0.13%	0.13%	0.73%	0.74%	0.73%	1.33%	1.35%	1.34%
2034	56,209	39,952	96,161	63,448	45,685	109,133	71,563	52,192	123,755	0.59%	0.60%	0.60%	1.18%	1.20%	1.19%	1.78%	1.80%	1.79%
2035	56,537	40,189	96,726	64,187	46,227	110,415	72,815	53,120	125,935	0.58%	0.59%	0.59%	1.17%	1.19%	1.17%	1.75%	1.78%	1.76%
2036	57,130	40,615	97,745	65,231	46,987	112,218	74,419	54,304	128,723	1.05%	1.06%	1.05%	1.63%	1.64%	1.63%	2.20%	2.23%	2.21%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	67	9	76	68	9	77	69	9	78	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	67	9	77	69	9	78	70	10	80	0.66%	0.82%	0.68%	1.33%	1.64%	1.36%	1.99%	2.46%	2.05%
2019	68	9	77	70	10	79	71	10	81	0.66%	0.79%	0.68%	1.33%	1.59%	1.36%	1.99%	2.38%	2.04%
2020	68	9	78	70	10	80	73	10	83	0.66%	0.77%	0.67%	1.32%	1.54%	1.35%	1.98%	2.32%	2.02%
2021	69	9	78	71	10	81	74	10	85	0.66%	0.75%	0.67%	1.32%	1.51%	1.34%	1.98%	2.26%	2.01%
2022	69	10	79	72	10	82	76	11	86	0.66%	0.74%	0.67%	1.32%	1.48%	1.34%	1.98%	2.22%	2.01%
2023	70	10	79	73	10	84	77	11	88	0.66%	0.72%	0.67%	1.31%	1.44%	1.33%	1.97%	2.17%	2.00%
2024	70	10	80	74	10	85	79	11	90	0.66%	0.71%	0.66%	1.31%	1.42%	1.33%	1.97%	2.14%	1.99%
2025	70	10	80	75	10	86	80	11	92	0.65%	0.70%	0.66%	1.30%	1.39%	1.32%	1.96%	2.09%	1.97%
2026	71	10	81	76	11	87	82	12	93	0.65%	0.69%	0.65%	1.30%	1.37%	1.31%	1.95%	2.06%	1.96%
2027	71	10	81	77	11	88	83	12	95	0.65%	0.68%	0.65%	1.29%	1.35%	1.30%	1.94%	2.03%	1.95%
2028	72	10	82	78	11	89	85	12	97	0.64%	0.67%	0.64%	1.28%	1.33%	1.29%	1.92%	2.00%	1.93%
2029	72	10	82	79	11	90	87	12	99	0.64%	0.65%	0.64%	1.27%	1.30%	1.28%	1.91%	1.96%	1.92%
2030	73	10	83	80	11	91	88	13	101	0.63%	0.64%	0.63%	1.26%	1.29%	1.27%	1.90%	1.93%	1.90%
2031	73	10	83	81	11	93	90	13	103	0.62%	0.63%	0.62%	1.24%	1.27%	1.25%	1.87%	1.90%	1.87%
2032	74	10	84	82	11	94	92	13	105	0.61%	0.62%	0.61%	1.22%	1.24%	1.23%	1.84%	1.87%	1.84%
2033	74	10	84	83	12	95	93	13	106	0.60%	0.61%	0.60%	1.20%	1.22%	1.21%	1.81%	1.83%	1.81%
2034	75	10	85	84	12	96	95	13	108	0.59%	0.60%	0.59%	1.18%	1.20%	1.19%	1.78%	1.80%	1.78%
2035	75	10	85	85	12	97	97	14	110	0.58%	0.59%	0.58%	1.17%	1.19%	1.17%	1.75%	1.78%	1.75%
2036	75	10	86	86	12	98	98	14	112	0.57%	0.58%	0.58%	1.15%	1.16%	1.15%	1.72%	1.74%	1.73%





20 Year Customer Growth Rate	
High:	43.58%
Medium:	27.36%
Low:	12.90%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

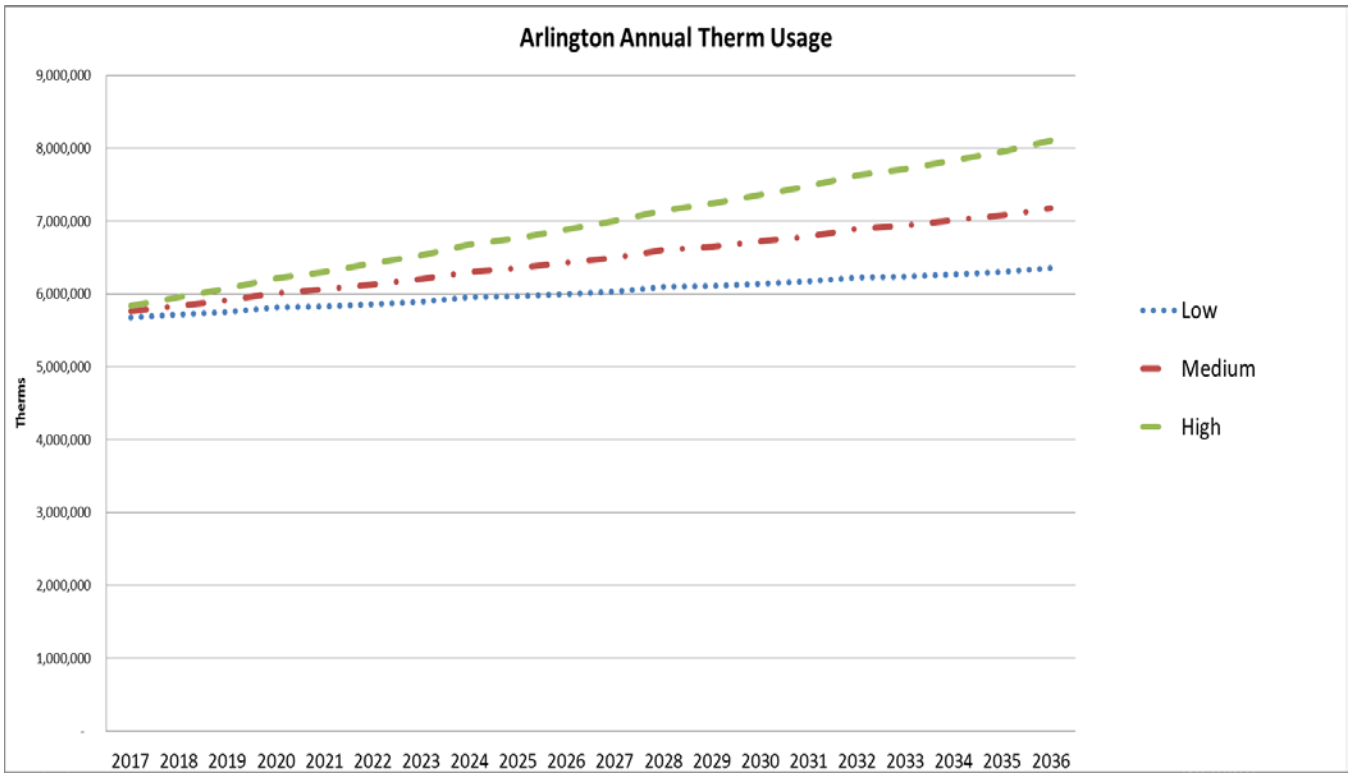
Arlington

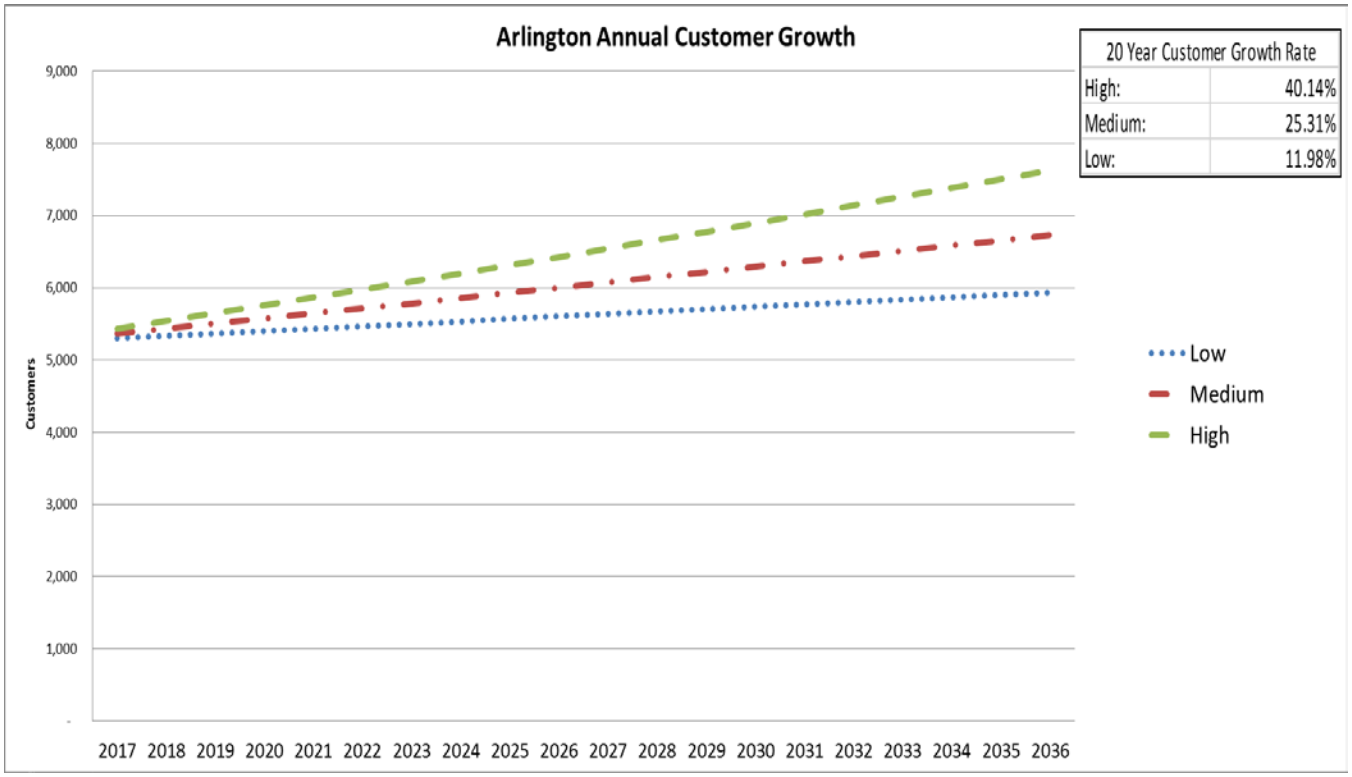
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	3,260,347	2,421,166	5,681,513	3,305,925	2,455,699	5,761,625	3,351,826	2,490,481	5,842,307	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,281,882	2,437,292	5,719,174	3,349,604	2,488,416	5,838,020	3,418,264	2,540,260	5,958,524	0.66%	0.67%	0.66%	1.32%	1.33%	1.33%	1.98%	2.00%	1.99%
2019	3,303,008	2,453,027	5,756,035	3,392,734	2,520,551	5,913,285	3,484,294	2,589,475	6,073,769	0.64%	0.65%	0.64%	1.29%	1.29%	1.29%	1.93%	1.94%	1.93%
2020	3,346,956	2,468,452	5,815,408	3,459,398	2,552,254	6,011,652	3,574,865	2,638,337	6,213,202	1.33%	0.63%	1.03%	1.96%	1.26%	1.66%	2.60%	1.89%	2.30%
2021	3,344,376	2,483,651	5,828,027	3,477,993	2,583,689	6,061,682	3,616,057	2,687,087	6,303,144	-0.08%	0.62%	0.22%	0.54%	1.23%	0.83%	1.15%	1.85%	1.45%
2022	3,364,773	2,498,678	5,863,451	3,520,421	2,614,960	6,135,381	3,682,233	2,735,880	6,418,113	0.61%	0.61%	0.61%	1.22%	1.21%	1.22%	1.83%	1.82%	1.82%
2023	3,384,975	2,513,516	5,898,491	3,562,701	2,646,025	6,208,726	3,748,579	2,784,643	6,533,222	0.60%	0.59%	0.60%	1.20%	1.19%	1.20%	1.80%	1.78%	1.79%
2024	3,428,780	2,528,240	5,957,020	3,630,112	2,677,035	6,307,146	3,841,933	2,833,609	6,675,543	1.29%	0.59%	0.99%	1.89%	1.17%	1.59%	2.49%	1.76%	2.18%
2025	3,425,027	2,542,839	5,967,866	3,647,282	2,707,964	6,355,246	3,882,496	2,882,738	6,765,234	-0.11%	0.58%	0.18%	0.47%	1.16%	0.76%	1.06%	1.73%	1.34%
2026	3,444,856	2,557,316	6,002,172	3,689,531	2,738,816	6,428,347	3,949,983	2,932,030	6,882,013	0.58%	0.57%	0.57%	1.16%	1.14%	1.15%	1.74%	1.71%	1.73%
2027	3,464,596	2,571,710	6,036,306	3,731,838	2,769,671	6,501,509	4,017,959	2,981,613	6,999,572	0.57%	0.56%	0.57%	1.15%	1.13%	1.14%	1.72%	1.69%	1.71%
2028	3,508,480	2,586,002	6,094,481	3,800,416	2,800,482	6,600,898	4,114,769	3,031,409	7,146,178	1.27%	0.56%	0.96%	1.84%	1.11%	1.53%	2.41%	1.67%	2.09%
2029	3,503,769	2,600,231	6,104,001	3,816,528	2,831,335	6,647,864	4,155,219	3,081,558	7,236,777	-0.13%	0.55%	0.16%	0.42%	1.10%	0.71%	0.98%	1.65%	1.27%
2030	3,523,218	2,614,371	6,137,588	3,858,939	2,862,168	6,721,106	4,224,545	3,131,956	7,356,500	0.56%	0.54%	0.55%	1.11%	1.09%	1.10%	1.67%	1.64%	1.65%
2031	3,542,474	2,628,375	6,170,849	3,901,170	2,892,875	6,794,045	4,293,969	3,182,431	7,476,400	0.55%	0.54%	0.54%	1.09%	1.07%	1.09%	1.64%	1.61%	1.63%
2032	3,586,307	2,642,216	6,228,523	3,970,601	2,923,395	6,893,996	4,393,737	3,232,874	7,626,610	1.24%	0.53%	0.93%	1.78%	1.05%	1.47%	2.32%	1.59%	2.01%
2033	3,580,352	2,655,920	6,236,273	3,984,934	2,953,778	6,938,712	4,432,815	3,283,363	7,716,178	-0.17%	0.52%	0.12%	0.36%	1.04%	0.65%	0.89%	1.56%	1.17%
2034	3,598,993	2,669,478	6,268,471	4,026,494	2,983,997	7,010,491	4,502,267	3,333,849	7,836,117	0.52%	0.51%	0.52%	1.04%	1.02%	1.03%	1.57%	1.54%	1.55%
2035	3,617,465	2,682,920	6,300,385	4,067,899	3,014,116	7,082,015	4,571,828	3,384,432	7,956,260	0.51%	0.50%	0.51%	1.03%	1.01%	1.02%	1.55%	1.52%	1.53%
2036	3,661,073	2,696,233	6,357,306	4,137,726	3,044,102	7,181,829	4,673,752	3,435,054	8,108,806	1.21%	0.50%	0.90%	1.72%	0.99%	1.41%	2.23%	1.50%	1.92%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	6,633	47,207	53,841	6,728	47,869	54,597	6,823	48,536	55,360	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	6,678	47,519	54,197	6,818	48,503	55,320	6,960	49,499	56,459	0.67%	0.66%	0.66%	1.33%	1.32%	1.32%	2.00%	1.98%	1.99%
2019	6,721	47,825	54,546	6,906	49,127	56,033	7,094	50,455	57,550	0.65%	0.64%	0.64%	1.29%	1.29%	1.29%	1.94%	1.93%	1.93%
2020	6,763	48,126	54,889	6,992	49,745	56,738	7,228	51,408	58,636	0.63%	0.63%	0.63%	1.26%	1.26%	1.26%	1.89%	1.89%	1.89%
2021	6,805	48,423	55,228	7,079	50,360	57,438	7,362	52,361	59,722	0.62%	0.62%	0.62%	1.23%	1.24%	1.24%	1.85%	1.85%	1.85%
2022	6,846	48,718	55,564	7,164	50,972	58,137	7,496	53,316	60,812	0.61%	0.61%	0.61%	1.21%	1.22%	1.22%	1.82%	1.83%	1.82%
2023	6,886	49,009	55,896	7,249	51,583	58,832	7,629	54,274	61,903	0.59%	0.60%	0.60%	1.19%	1.20%	1.20%	1.78%	1.80%	1.79%
2024	6,927	49,299	56,226	7,334	52,193	59,527	7,763	55,237	63,001	0.59%	0.59%	0.59%	1.17%	1.18%	1.18%	1.76%	1.77%	1.77%
2025	6,967	49,587	56,554	7,419	52,803	60,222	7,898	56,205	64,103	0.58%	0.58%	0.58%	1.16%	1.17%	1.17%	1.73%	1.75%	1.75%
2026	7,006	49,873	56,879	7,504	53,411	60,915	8,033	57,178	65,211	0.57%	0.58%	0.58%	1.14%	1.15%	1.15%	1.71%	1.73%	1.73%
2027	7,046	50,157	57,203	7,588	54,021	61,609	8,169	58,158	66,326	0.56%	0.57%	0.57%	1.13%	1.14%	1.14%	1.69%	1.71%	1.71%
2028	7,085	50,440	57,525	7,673	54,630	62,303	8,305	59,142	67,447	0.56%	0.56%	0.56%	1.11%	1.13%	1.13%	1.67%	1.69%	1.69%
2029	7,124	50,721	57,845	7,757	55,241	62,998	8,443	60,134	68,577	0.55%	0.56%	0.56%	1.10%	1.12%	1.12%	1.65%	1.68%	1.67%
2030	7,163	51,001	58,164	7,842	55,851	63,693	8,581	61,133	69,713	0.54%	0.55%	0.55%	1.09%	1.11%	1.10%	1.64%	1.66%	1.66%
2031	7,201	51,279	58,480	7,926	56,459	64,385	8,719	62,132	70,851	0.54%	0.54%	0.54%	1.07%	1.09%	1.09%	1.61%	1.63%	1.63%
2032	7,239	51,553	58,792	8,009	57,064	65,073	8,857	63,131	71,988	0.53%	0.53%	0.53%	1.05%	1.07%	1.07%	1.59%	1.61%	1.60%
2033	7,276	51,824	59,101	8,093	57,665	65,758	8,996	64,131	73,126	0.52%	0.53%	0.53%	1.04%	1.05%	1.05%	1.56%	1.58%	1.58%
2034	7,314	52,092	59,406	8,175	58,264	66,439	9,134	65,131	74,264	0.51%	0.52%	0.52%	1.02%	1.04%	1.04%	1.54%	1.56%	1.56%
2035	7,350	52,358	59,709	8,258	58,860	67,118	9,272	66,132	75,404	0.50%	0.51%	0.51%	1.01%	1.02%	1.02%	1.52%	1.54%	1.53%
2036	7,387	52,622	60,009	8,340	59,453	67,793	9,411	67,134	76,545	0.50%	0.50%	0.50%	0.99%	1.01%	1.01%	1.50%	1.52%	1.51%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,439,335	2,242,179	5,681,513	3,482,640	2,278,985	5,761,625	3,526,216	2,316,092	5,842,307	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,461,032	2,258,142	5,719,174	3,526,580	2,311,439	5,838,020	3,592,951	2,365,572	5,958,524	0.63%	0.71%	0.66%	1.26%	1.42%	1.33%	1.89%	2.14%	1.99%
2019	3,482,854	2,273,181	5,756,035	3,571,051	2,342,234	5,913,285	3,660,913	2,412,856	6,073,769	0.63%	0.67%	0.64%	1.26%	1.33%	1.29%	1.89%	2.00%	1.93%
2020	3,519,063	2,296,344	5,815,408	3,630,741	2,380,911	6,011,652	3,745,237	2,467,966	6,213,202	1.04%	1.02%	1.03%	1.67%	1.65%	1.66%	2.30%	2.28%	2.30%
2021	3,526,787	2,301,240	5,828,027	3,661,425	2,400,257	6,061,682	3,800,319	2,502,825	6,303,144	0.22%	0.21%	0.22%	0.85%	0.81%	0.83%	1.47%	1.41%	1.45%
2022	3,548,897	2,314,554	5,863,451	3,707,332	2,428,049	6,135,381	3,871,792	2,546,321	6,418,113	0.63%	0.58%	0.61%	1.25%	1.16%	1.22%	1.88%	1.74%	1.82%
2023	3,571,081	2,327,410	5,898,491	3,753,681	2,455,045	6,208,726	3,944,399	2,588,823	6,533,222	0.63%	0.56%	0.60%	1.25%	1.11%	1.20%	1.88%	1.67%	1.79%
2024	3,608,007	2,349,013	5,957,020	3,816,001	2,491,145	6,307,146	4,034,587	2,640,956	6,675,543	1.03%	0.93%	0.99%	1.66%	1.47%	1.59%	2.29%	2.01%	2.18%
2025	3,615,655	2,352,211	5,967,866	3,847,678	2,507,568	6,355,246	4,093,017	2,672,217	6,765,234	0.21%	0.14%	0.18%	0.83%	0.66%	0.76%	1.45%	1.18%	1.34%
2026	3,637,965	2,364,206	6,002,172	3,895,163	2,533,184	6,428,347	4,168,785	2,713,228	6,882,013	0.62%	0.51%	0.57%	1.23%	1.02%	1.15%	1.85%	1.53%	1.73%
2027	3,660,280	2,376,026	6,036,306	3,942,948	2,558,561	6,501,509	4,245,498	2,754,075	6,999,572	0.61%	0.50%	0.57%	1.23%	1.00%	1.14%	1.84%	1.51%	1.71%
2028	3,697,578	2,396,903	6,094,481	4,007,224	2,593,674	6,600,898	4,340,655	2,805,523	7,146,178	1.02%	0.88%	0.96%	1.63%	1.37%	1.53%	2.24%	1.87%	2.09%
2029	3,704,833	2,399,168	6,104,001	4,039,225	2,608,639	6,647,864	4,401,464	2,835,313	7,236,777	0.20%	0.09%	0.16%	0.80%	0.58%	0.71%	1.40%	1.06%	1.27%
2030	3,727,076	2,410,513	6,137,588	4,087,726	2,633,381	6,721,106	4,480,740	2,875,761	7,356,500	0.60%	0.47%	0.55%	1.20%	0.95%	1.10%	1.80%	1.43%	1.65%
2031	3,749,068	2,421,781	6,170,849	4,135,966	2,658,080	6,794,045	4,560,057	2,916,343	7,476,400	0.59%	0.47%	0.54%	1.18%	0.94%	1.09%	1.77%	1.41%	1.63%
2032	3,786,181	2,442,342	6,228,523	4,200,985	2,693,010	6,893,996	4,658,289	2,968,322	7,626,610	0.99%	0.85%	0.93%	1.57%	1.31%	1.47%	2.15%	1.78%	2.01%
2033	3,792,305	2,443,968	6,236,273	4,231,638	2,707,074	6,938,712	4,718,732	2,997,447	7,716,178	0.16%	0.07%	0.12%	0.73%	0.52%	0.65%	1.30%	0.98%	1.17%
2034	3,813,561	2,454,910	6,268,471	4,279,074	2,731,418	7,010,491	4,798,076	3,038,041	7,836,117	0.56%	0.45%	0.52%	1.12%	0.90%	1.03%	1.68%	1.35%	1.55%
2035	3,834,578	2,465,806	6,300,385	4,326,240	2,755,775	7,082,015	4,877,407	3,078,853	7,956,260	0.55%	0.44%	0.51%	1.10%	0.89%	1.02%	1.65%	1.34%	1.53%
2036	3,871,108	2,486,198	6,357,306	4,391,024	2,790,805	7,181,829	4,977,018	3,131,788	8,108,806	0.95%	0.83%	0.90%	1.50%	1.27%	1.41%	2.04%	1.72%	1.92%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	4,706	593	5,299	4,765	603	5,368	4,825	613	5,438	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	4,736	597	5,333	4,825	612	5,437	4,916	626	5,543	0.63%	0.73%	0.64%	1.26%	1.46%	1.28%	1.89%	2.19%	1.93%
2019	4,766	601	5,367	4,886	620	5,506	5,009	639	5,648	0.63%	0.69%	0.64%	1.26%	1.37%	1.27%	1.89%	2.06%	1.91%
2020	4,796	605	5,401	4,948	628	5,576	5,104	652	5,756	0.63%	0.65%	0.63%	1.26%	1.30%	1.26%	1.89%	1.95%	1.90%
2021	4,826	609	5,435	5,010	636	5,646	5,200	664	5,864	0.63%	0.62%	0.63%	1.26%	1.25%	1.26%	1.88%	1.87%	1.88%
2022	4,856	613	5,469	5,073	644	5,716	5,298	676	5,974	0.63%	0.60%	0.62%	1.25%	1.21%	1.25%	1.88%	1.81%	1.87%
2023	4,886	616	5,503	5,136	651	5,787	5,397	688	6,085	0.63%	0.58%	0.62%	1.25%	1.16%	1.24%	1.88%	1.74%	1.86%
2024	4,917	620	5,537	5,200	659	5,859	5,498	699	6,197	0.62%	0.57%	0.62%	1.25%	1.13%	1.23%	1.87%	1.70%	1.85%
2025	4,947	623	5,570	5,265	666	5,931	5,600	711	6,311	0.62%	0.55%	0.61%	1.24%	1.10%	1.23%	1.86%	1.66%	1.84%
2026	4,978	627	5,604	5,330	673	6,003	5,704	723	6,427	0.62%	0.54%	0.61%	1.23%	1.08%	1.22%	1.85%	1.62%	1.82%
2027	5,008	630	5,638	5,395	680	6,075	5,809	734	6,543	0.61%	0.53%	0.60%	1.23%	1.06%	1.21%	1.84%	1.59%	1.81%
2028	5,039	633	5,672	5,461	687	6,148	5,915	746	6,661	0.61%	0.52%	0.60%	1.22%	1.04%	1.20%	1.83%	1.56%	1.80%
2029	5,069	636	5,706	5,527	694	6,221	6,022	757	6,779	0.60%	0.51%	0.59%	1.21%	1.03%	1.19%	1.81%	1.54%	1.78%
2030	5,100	640	5,739	5,593	701	6,294	6,131	768	6,899	0.60%	0.50%	0.59%	1.20%	1.01%	1.18%	1.80%	1.51%	1.77%
2031	5,130	643	5,773	5,659	708	6,367	6,239	780	7,019	0.59%	0.50%	0.58%	1.18%	1.00%	1.16%	1.77%	1.50%	1.74%
2032	5,160	646	5,805	5,725	715	6,440	6,348	792	7,139	0.58%	0.49%	0.57%	1.16%	0.98%	1.14%	1.74%	1.48%	1.71%
2033	5,189	649	5,838	5,790	722	6,512	6,457	803	7,260	0.57%	0.49%	0.56%	1.14%	0.97%	1.12%	1.71%	1.46%	1.68%
2034	5,218	652	5,870	5,855	729	6,584	6,565	815	7,380	0.56%	0.48%	0.55%	1.12%	0.96%	1.10%	1.68%	1.44%	1.66%
2035	5,247	655	5,902	5,919	736	6,656	6,674	826	7,500	0.55%	0.48%	0.54%	1.10%	0.95%	1.09%	1.65%	1.43%	1.63%
2036	5,275	658	5,934	5,984	743	6,727	6,782	838	7,620	0.54%	0.47%	0.53%	1.09%	0.94%	1.07%	1.63%	1.41%	1.60%





20 Year Customer Growth Rate	
High:	40.14%
Medium:	25.31%
Low:	11.98%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Bremerton (Shelton)

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	25,004,778	9,753,062	34,757,840	25,349,577	9,901,082	35,250,659	25,696,871	10,050,277	35,747,148
2018	25,170,807	9,823,672	34,994,480	25,686,428	10,044,547	35,730,974	26,209,388	10,268,867	36,478,255
2019	25,335,393	9,893,408	35,228,802	26,022,613	10,187,285	36,209,898	26,724,342	10,487,954	37,212,295
2020	25,647,621	9,962,871	35,610,492	26,513,160	10,330,496	36,843,656	27,402,877	10,709,352	38,112,229
2021	25,662,348	10,031,639	35,693,987	26,697,093	10,473,287	37,170,379	27,767,711	10,931,667	38,699,378
2022	25,825,319	10,100,404	35,925,723	27,036,575	10,617,073	37,653,648	28,297,971	11,157,098	39,455,070
2023	25,988,314	10,169,133	36,157,448	27,378,294	10,761,787	38,140,081	28,835,149	11,385,559	40,220,707
2024	26,302,664	10,237,429	36,540,093	27,882,037	10,906,574	38,788,611	29,547,942	11,615,697	41,163,639
2025	26,313,365	10,305,876	36,619,241	28,066,271	11,052,678	39,118,949	29,926,940	11,849,511	41,776,451
2026	26,475,183	10,373,838	36,849,021	28,411,996	11,198,721	39,610,717	30,480,752	12,084,796	42,565,548
2027	26,637,079	10,441,832	37,078,911	28,760,053	11,345,812	40,105,865	31,041,776	12,323,352	43,365,128
2028	26,953,545	10,509,200	37,462,745	29,276,951	11,492,507	40,769,458	31,789,431	12,562,827	44,352,257
2029	26,958,352	10,576,444	37,534,797	29,457,115	11,639,889	41,097,004	32,175,689	12,804,988	44,980,677
2030	27,117,441	10,642,912	37,760,353	29,805,408	11,786,496	41,591,903	32,747,361	13,047,408	45,794,768
2031	27,275,378	10,708,979	37,984,357	30,153,277	11,933,159	42,086,436	33,321,798	13,291,476	46,613,274
2032	27,590,470	10,774,073	38,364,543	30,675,501	12,078,568	42,754,069	34,091,842	13,534,975	47,626,818
2033	27,584,793	10,838,313	38,423,106	30,840,790	12,222,950	43,063,739	34,467,069	13,778,236	48,245,305
2034	27,736,398	10,901,609	38,638,007	31,180,549	12,366,068	43,546,617	35,037,906	14,020,817	49,058,723
2035	27,886,280	10,964,177	38,850,456	31,518,335	12,508,379	44,026,713	35,608,611	14,263,459	49,872,071
2036	28,197,332	11,026,015	39,223,346	32,039,202	12,649,850	44,689,051	36,389,289	14,506,073	50,895,362

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.66%	0.72%	0.68%	1.33%	1.45%	1.36%	1.99%	2.17%	2.05%
2019	0.65%	0.71%	0.67%	1.31%	1.42%	1.34%	1.96%	2.13%	2.01%
2020	1.23%	0.70%	1.08%	1.89%	1.41%	1.75%	2.54%	2.11%	2.42%
2021	0.06%	0.69%	0.23%	0.69%	1.38%	0.89%	1.33%	2.08%	1.54%
2022	0.64%	0.69%	0.65%	1.27%	1.37%	1.30%	1.91%	2.06%	1.95%
2023	0.63%	0.68%	0.65%	1.26%	1.36%	1.29%	1.90%	2.05%	1.94%
2024	1.21%	0.67%	1.06%	1.84%	1.35%	1.70%	2.47%	2.02%	2.34%
2025	0.04%	0.67%	0.22%	0.66%	1.34%	0.85%	1.28%	2.01%	1.49%
2026	0.61%	0.66%	0.63%	1.23%	1.32%	1.26%	1.85%	1.99%	1.89%
2027	0.61%	0.66%	0.62%	1.23%	1.31%	1.25%	1.84%	1.97%	1.88%
2028	1.19%	0.65%	1.04%	1.80%	1.29%	1.65%	2.41%	1.94%	2.28%
2029	0.02%	0.64%	0.19%	0.62%	1.28%	0.80%	1.22%	1.93%	1.42%
2030	0.59%	0.63%	0.60%	1.18%	1.26%	1.20%	1.78%	1.89%	1.81%
2031	0.58%	0.62%	0.59%	1.17%	1.24%	1.19%	1.75%	1.87%	1.79%
2032	1.16%	0.61%	1.00%	1.73%	1.22%	1.59%	2.31%	1.83%	2.17%
2033	-0.02%	0.60%	0.15%	0.54%	1.20%	0.72%	1.10%	1.80%	1.30%
2034	0.55%	0.58%	0.56%	1.10%	1.17%	1.12%	1.66%	1.76%	1.69%
2035	0.54%	0.57%	0.55%	1.08%	1.15%	1.10%	1.63%	1.73%	1.66%
2036	1.12%	0.56%	0.96%	1.65%	1.13%	1.50%	2.19%	1.70%	2.05%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	26,721	320,113	346,834	27,126	324,559	351,685	27,535	329,037	356,572
2018	26,914	322,256	349,170	27,519	328,906	356,425	28,134	335,652	363,786
2019	27,105	324,380	351,485	27,910	333,246	361,157	28,734	342,301	371,035
2020	27,296	326,498	353,793	28,303	337,602	365,905	29,341	349,020	378,360
2021	27,484	328,601	356,085	28,694	341,956	370,650	29,950	355,778	385,728
2022	27,672	330,705	358,377	29,088	346,341	375,428	30,567	362,630	393,197
2023	27,861	332,809	360,669	29,484	350,753	380,238	31,193	369,569	400,763
2024	28,048	334,905	362,952	29,881	355,178	385,059	31,824	376,572	408,396
2025	28,235	337,003	365,239	30,281	359,636	389,918	32,464	383,674	416,138
2026	28,421	339,091	367,512	30,681	364,099	394,780	33,109	390,827	423,936
2027	28,608	341,179	369,787	31,084	368,591	399,675	33,763	398,072	431,835
2028	28,792	343,251	372,044	31,486	373,077	404,564	34,419	405,353	439,772
2029	28,977	345,320	374,297	31,890	377,583	409,473	35,082	412,711	447,793
2030	29,159	347,371	376,529	32,292	382,075	414,367	35,746	420,089	455,836
2031	29,340	349,405	378,745	32,694	386,560	419,254	36,415	427,501	463,916
2032	29,518	351,410	380,928	33,092	391,006	424,098	37,082	434,893	471,975
2033	29,694	353,390	383,084	33,488	395,421	428,908	37,749	442,274	480,023
2034	29,867	355,341	385,208	33,880	399,798	433,678	38,413	449,635	488,048
2035	30,039	357,269	387,308	34,270	404,148	438,418	39,078	456,991	496,069
2036	30,208	359,175	389,383	34,657	408,470	443,127	39,743	464,340	504,083

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.72%	0.67%	0.67%	1.45%	1.34%	1.35%	2.17%	2.01%	2.02%
2019	0.71%	0.66%	0.66%	1.42%	1.32%	1.33%	2.13%	1.98%	1.99%
2020	0.70%	0.65%	0.66%	1.41%	1.31%	1.31%	2.11%	1.96%	1.97%
2021	0.69%	0.64%	0.65%	1.38%	1.29%	1.30%	2.08%	1.94%	1.95%
2022	0.69%	0.64%	0.64%	1.37%	1.28%	1.29%	2.06%	1.93%	1.94%
2023	0.68%	0.64%	0.64%	1.36%	1.27%	1.28%	2.05%	1.91%	1.92%
2024	0.67%	0.63%	0.63%	1.35%	1.26%	1.27%	2.02%	1.89%	1.90%
2025	0.67%	0.63%	0.63%	1.34%	1.26%	1.26%	2.01%	1.89%	1.90%
2026	0.66%	0.62%	0.62%	1.32%	1.24%	1.25%	1.99%	1.86%	1.87%
2027	0.66%	0.62%	0.62%	1.31%	1.23%	1.24%	1.97%	1.85%	1.86%
2028	0.65%	0.61%	0.61%	1.29%	1.22%	1.22%	1.94%	1.83%	1.84%
2029	0.64%	0.60%	0.61%	1.28%	1.21%	1.21%	1.93%	1.82%	1.82%
2030	0.63%	0.59%	0.60%	1.26%	1.19%	1.20%	1.89%	1.79%	1.80%
2031	0.62%	0.59%	0.59%	1.24%	1.17%	1.18%	1.87%	1.76%	1.77%
2032	0.61%	0.57%	0.58%	1.22%	1.15%	1.16%	1.83%	1.73%	1.74%
2033	0.60%	0.56%	0.57%	1.20%	1.13%	1.13%	1.80%	1.70%	1.71%
2034	0.58%	0.55%	0.55%	1.17%	1.11%	1.11%	1.76%	1.66%	1.67%
2035	0.57%	0.54%	0.55%	1.15%	1.09%	1.09%	1.73%	1.64%	1.64%
2036	0.56%	0.53%	0.54%	1.13%	1.07%	1.07%	1.70%	1.61%	1.62%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	21,268,797	13,489,043	34,757,840	21,512,255	13,738,405	35,250,659	21,757,098	13,990,050	35,747,148
2018	21,390,760	13,603,720	34,994,480	21,758,972	13,972,002	35,730,974	22,131,387	14,346,869	36,478,255
2019	21,513,239	13,715,563	35,228,802	22,008,147	14,201,751	36,209,898	22,511,546	14,700,749	37,212,295
2020	21,734,224	13,876,268	35,610,492	22,360,602	14,483,054	36,843,656	23,001,339	15,110,889	38,112,229
2021	21,759,607	13,934,380	35,693,987	22,513,654	14,656,725	37,170,379	23,289,352	15,410,025	38,699,378
2022	21,883,403	14,042,320	35,925,723	22,769,826	14,883,822	37,653,648	23,686,850	15,768,220	39,455,070
2023	22,007,555	14,149,892	36,157,448	23,028,188	15,111,893	38,140,081	24,090,001	16,130,707	40,220,707
2024	22,232,276	14,307,817	36,540,093	23,394,170	15,394,441	38,788,611	24,609,730	16,553,909	41,163,639
2025	22,256,548	14,362,693	36,619,241	23,550,735	15,568,214	39,118,949	24,912,261	16,864,190	41,776,451
2026	22,380,927	14,468,094	36,849,021	23,813,957	15,796,760	39,610,717	25,329,921	17,235,627	42,565,548
2027	22,505,221	14,573,690	37,078,911	24,078,462	16,027,403	40,105,865	25,751,935	17,613,193	43,365,128
2028	22,731,602	14,731,143	37,462,745	24,453,815	16,315,643	40,769,458	26,295,776	18,056,482	44,352,257
2029	22,752,789	14,782,007	37,534,797	24,609,661	16,487,343	41,097,004	26,606,436	18,374,241	44,980,677
2030	22,876,075	14,884,278	37,760,353	24,876,355	16,715,548	41,591,903	27,038,937	18,755,832	45,794,768
2031	22,997,742	14,986,615	37,984,357	25,140,967	16,945,469	42,086,436	27,470,359	19,142,915	46,613,274
2032	23,222,329	15,142,214	38,364,543	25,518,128	17,235,941	42,754,069	28,026,306	19,600,512	47,626,818
2033	23,235,933	15,187,173	38,423,106	25,663,086	17,400,654	43,063,739	28,328,300	19,917,005	48,245,305
2034	23,352,558	15,285,449	38,638,007	25,920,700	17,625,917	43,546,617	28,754,852	20,303,871	49,058,723
2035	23,467,593	15,382,864	38,850,456	26,176,071	17,850,643	44,026,713	29,179,792	20,692,279	49,872,071
2036	23,687,964	15,535,382	39,223,346	26,549,120	18,139,931	44,689,051	29,737,495	21,157,867	50,895,362

Annual Change

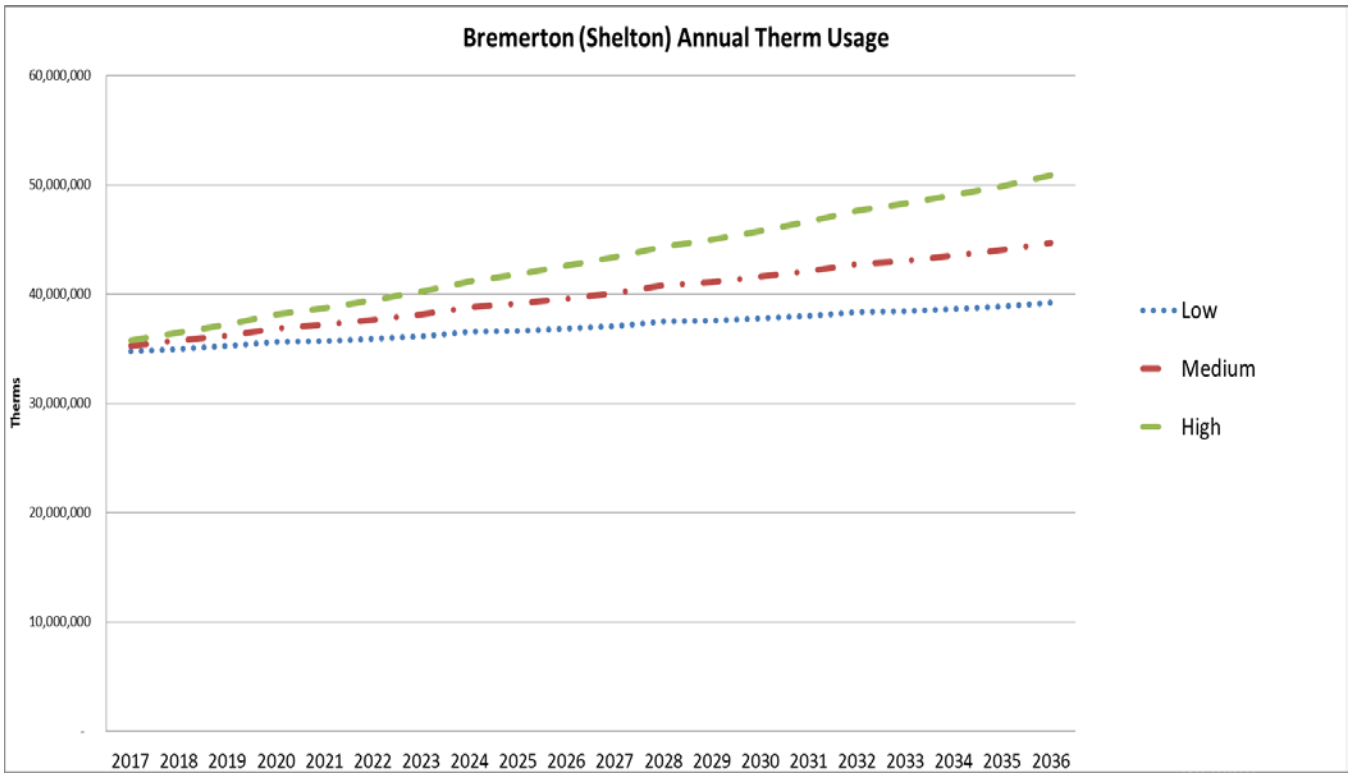
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.57%	0.85%	0.68%	1.15%	1.70%	1.36%	1.72%	2.55%	2.05%
2019	0.57%	0.82%	0.67%	1.15%	1.64%	1.34%	1.72%	2.47%	2.01%
2020	1.03%	1.17%	1.08%	1.60%	1.98%	1.75%	2.18%	2.79%	2.42%
2021	0.12%	0.42%	0.23%	0.68%	1.20%	0.89%	1.25%	1.98%	1.54%
2022	0.57%	0.77%	0.65%	1.14%	1.55%	1.30%	1.71%	2.32%	1.95%
2023	0.57%	0.77%	0.65%	1.13%	1.53%	1.29%	1.70%	2.30%	1.94%
2024	1.02%	1.12%	1.06%	1.59%	1.87%	1.70%	2.16%	2.62%	2.34%
2025	0.11%	0.38%	0.22%	0.67%	1.13%	0.85%	1.23%	1.87%	1.49%
2026	0.56%	0.73%	0.63%	1.12%	1.47%	1.26%	1.68%	2.20%	1.89%
2027	0.56%	0.73%	0.62%	1.11%	1.46%	1.25%	1.67%	2.19%	1.88%
2028	1.01%	1.08%	1.04%	1.56%	1.80%	1.65%	2.11%	2.52%	2.28%
2029	0.09%	0.35%	0.19%	0.64%	1.05%	0.80%	1.18%	1.76%	1.42%
2030	0.54%	0.69%	0.60%	1.08%	1.38%	1.20%	1.63%	2.08%	1.81%
2031	0.53%	0.69%	0.59%	1.06%	1.38%	1.19%	1.60%	2.06%	1.79%
2032	0.98%	1.04%	1.00%	1.50%	1.71%	1.59%	2.02%	2.39%	2.17%
2033	0.06%	0.30%	0.15%	0.57%	0.96%	0.72%	1.08%	1.61%	1.30%
2034	0.50%	0.65%	0.56%	1.00%	1.29%	1.12%	1.51%	1.94%	1.69%
2035	0.49%	0.64%	0.55%	0.99%	1.27%	1.10%	1.48%	1.91%	1.66%
2036	0.94%	0.99%	0.96%	1.43%	1.62%	1.50%	1.91%	2.25%	2.05%

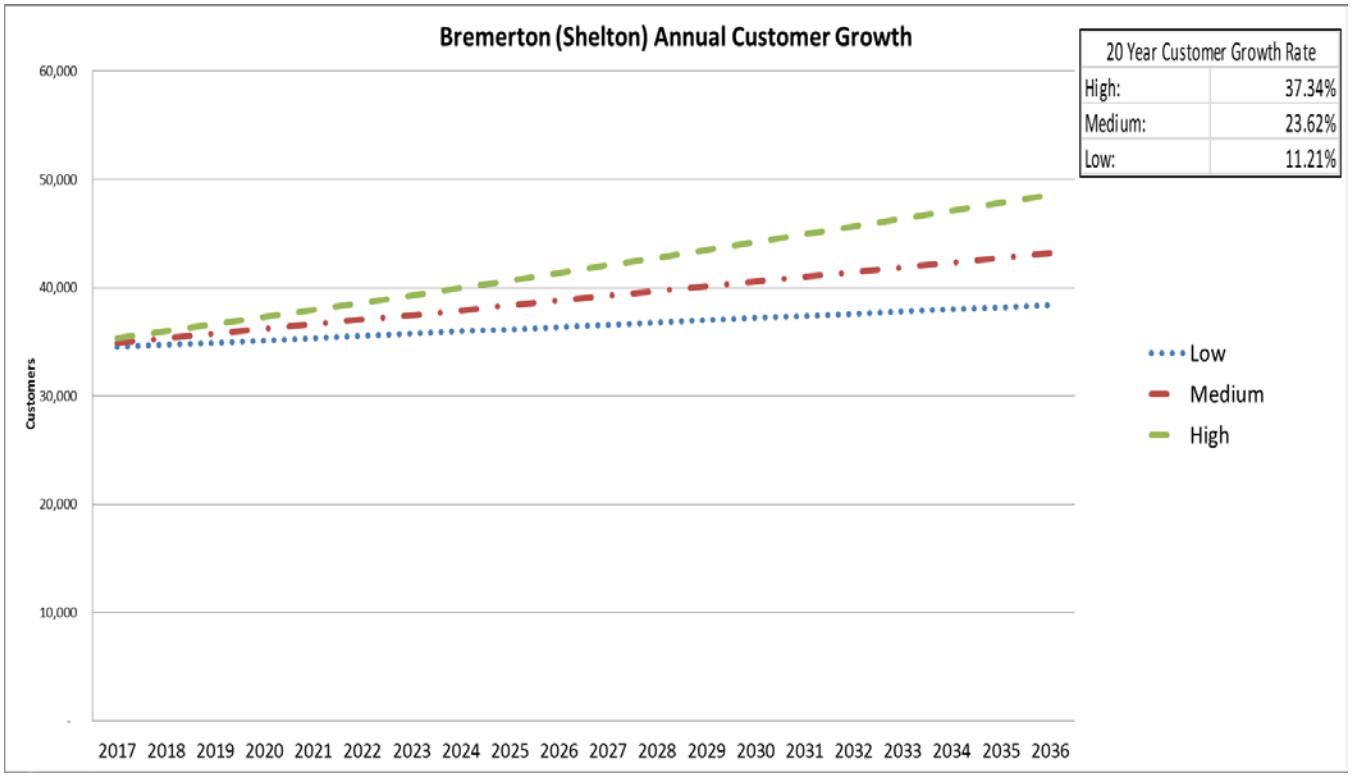
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	31,516	3,009	34,525	31,877	3,065	34,941	32,240	3,121	35,360
2018	31,697	3,034	34,731	32,242	3,116	35,359	32,794	3,200	35,994
2019	31,878	3,059	34,937	32,612	3,167	35,778	33,358	3,278	36,635
2020	32,060	3,083	35,144	32,984	3,217	36,202	33,930	3,356	37,286
2021	32,243	3,107	35,350	33,361	3,267	36,628	34,510	3,434	37,944
2022	32,427	3,131	35,558	33,740	3,317	37,057	35,099	3,513	38,612
2023	32,611	3,155	35,765	34,123	3,367	37,490	35,696	3,593	39,289
2024	32,795	3,178	35,973	34,509	3,417	37,927	36,302	3,673	39,975
2025	32,980	3,202	36,181	34,897	3,468	38,366	36,915	3,755	40,669
2026	33,164	3,225	36,389	35,287	3,519	38,806	37,534	3,837	41,371
2027	33,348	3,248	36,597	35,679	3,570	39,249	38,159	3,921	42,080
2028	33,532	3,272	36,803	36,072	3,621	39,693	38,789	4,005	42,794
2029	33,715	3,295	37,010	36,467	3,673	40,139	39,425	4,090	43,515
2030	33,898	3,318	37,215	36,862	3,724	40,585	40,066	4,175	44,241
2031	34,078	3,341	37,419	37,254	3,775	41,029	40,705	4,262	44,967
2032	34,256	3,363	37,619	37,642	3,826	41,468	41,342	4,349	45,691
2033	34,431	3,386	37,817	38,027	3,877	41,905	41,977	4,436	46,413
2034	34,604	3,408	38,012	38,409	3,928	42,337	42,609	4,523	47,132
2035	34,774	3,430	38,204	38,788	3,979	42,767	43,239	4,611	47,850
2036	34,942	3,452	38,395	39,163	4,030	43,193	43,866	4,699	48,565

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.57%	0.84%	0.60%	1.15%	1.69%	1.19%	1.72%	2.53%	1.79%
2019	0.57%	0.81%	0.59%	1.15%	1.62%	1.19%	1.72%	2.44%	1.78%
2020	0.57%	0.80%	0.59%	1.14%	1.60%	1.18%	1.72%	2.39%	1.78%
2021	0.57%	0.77%	0.59%	1.14%	1.54%	1.18%	1.71%	2.32%	1.77%
2022	0.57%	0.76%	0.59%	1.14%	1.53%	1.17%	1.71%	2.29%	1.76%
2023	0.57%	0.76%	0.58%	1.13%	1.52%	1.17%	1.70%	2.28%	1.75%
2024	0.57%	0.74%	0.58%	1.13%	1.49%	1.16%	1.70%	2.23%	1.75%
2025	0.56%	0.74%	0.58%	1.13%	1.48%	1.16%	1.69%	2.23%	1.74%
2026	0.56%	0.73%	0.57%	1.12%	1.46%	1.15%	1.68%	2.19%	1.72%
2027	0.56%	0.73%	0.57%	1.11%	1.46%	1.14%	1.67%	2.18%	1.71%
2028	0.55%	0.71%	0.57%	1.10%	1.43%	1.13%	1.65%	2.14%	1.70%
2029	0.55%	0.71%	0.56%	1.09%	1.42%	1.12%	1.64%	2.13%	1.69%
2030	0.54%	0.69%	0.56%	1.08%	1.39%	1.11%	1.63%	2.08%	1.67%
2031	0.53%	0.69%	0.55%	1.06%	1.38%	1.09%	1.60%	2.08%	1.64%
2032	0.52%	0.68%	0.54%	1.04%	1.36%	1.07%	1.56%	2.04%	1.61%
2033	0.51%	0.67%	0.53%	1.02%	1.34%	1.05%	1.54%	2.00%	1.58%
2034	0.50%	0.66%	0.52%	1.00%	1.31%	1.03%	1.51%	1.97%	1.55%
2035	0.49%	0.65%	0.51%	0.99%	1.30%	1.01%	1.48%	1.94%	1.52%
2036	0.48%	0.64%	0.50%	0.97%	1.28%	1.00%	1.45%	1.91%	1.50%





20 Year Customer Growth Rate	
High:	37.34%
Medium:	23.62%
Low:	11.21%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

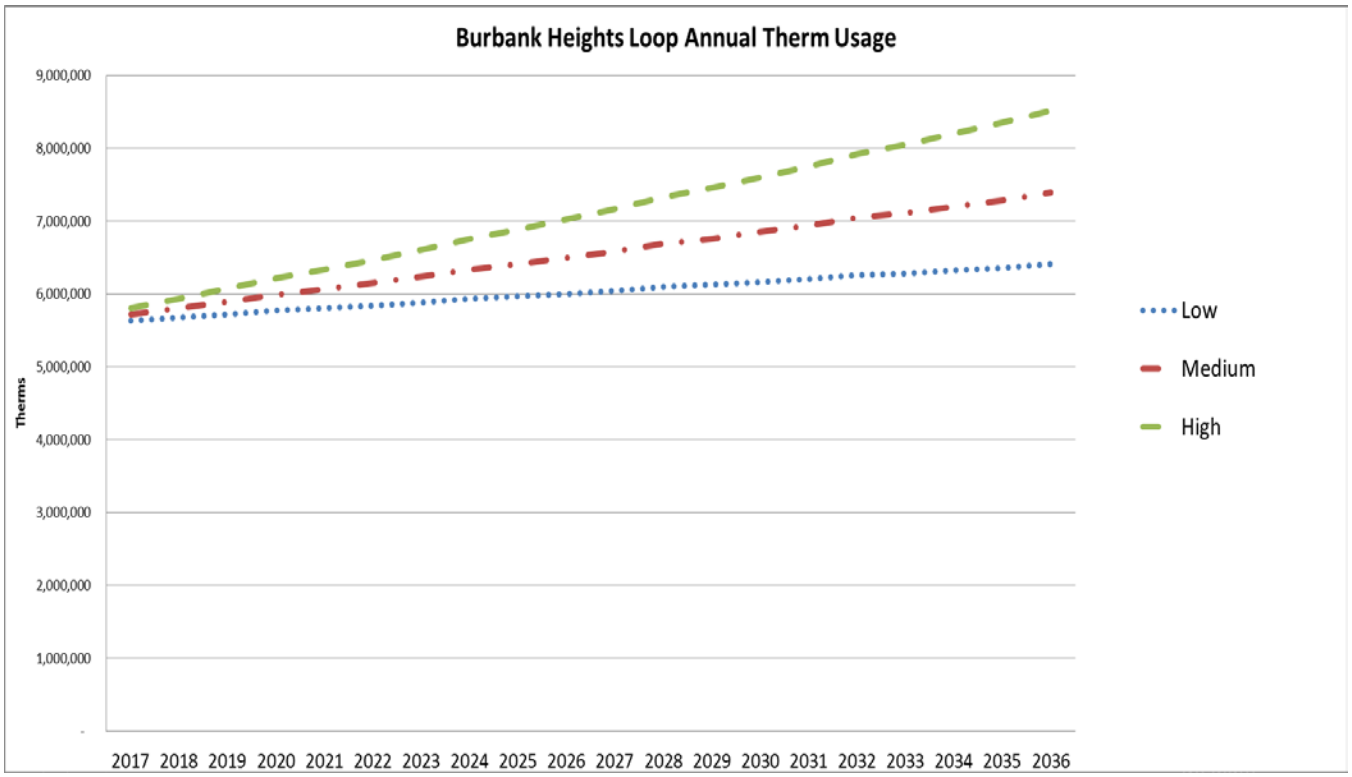
Burbank Heights Loop

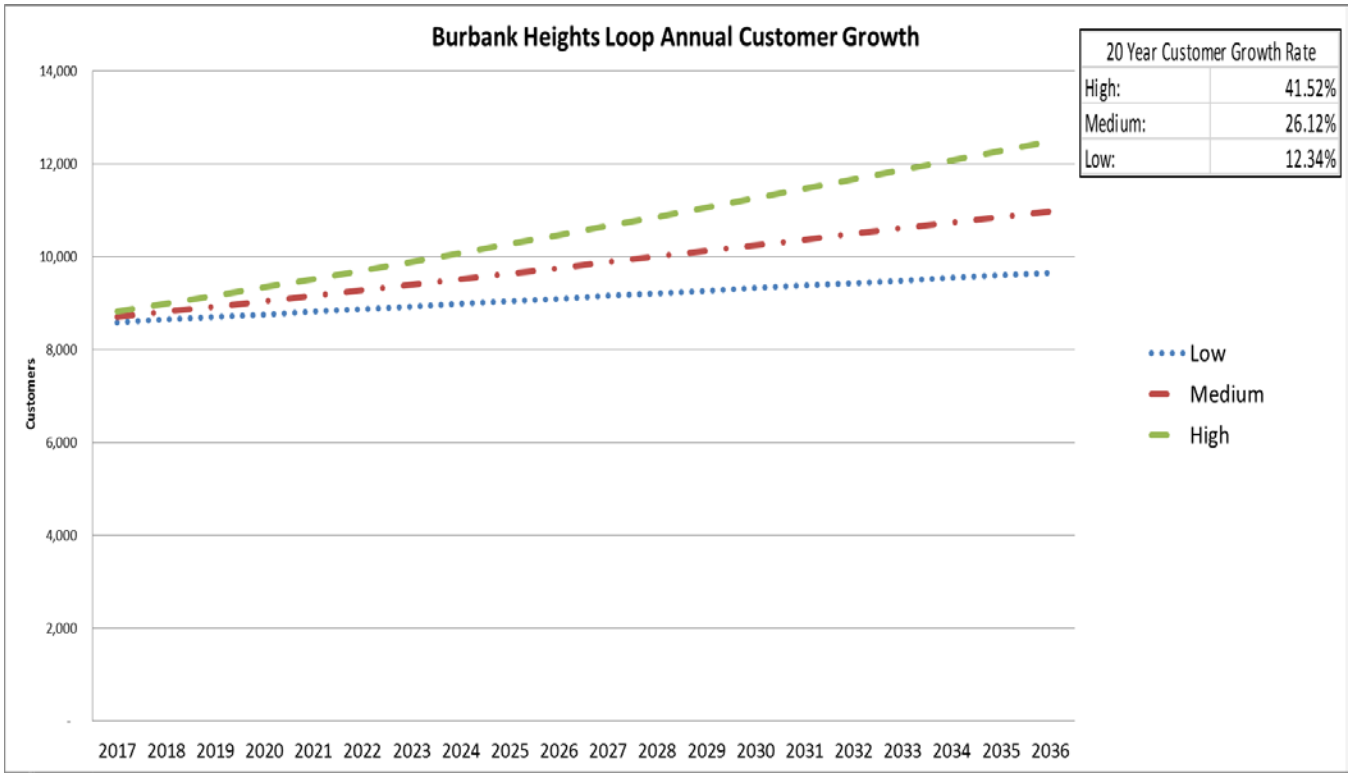
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	4,024,100	1,612,251	5,636,352	4,086,701	1,637,172	5,723,872	4,149,808	1,662,293	5,812,100	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	4,054,043	1,624,112	5,678,154	4,147,555	1,661,275	5,808,830	4,242,556	1,699,025	5,941,581	0.74%	0.74%	0.74%	1.49%	1.47%	1.48%	2.24%	2.21%	2.23%
2019	4,083,709	1,635,812	5,719,522	4,208,305	1,685,232	5,893,536	4,335,841	1,735,807	6,071,648	0.73%	0.72%	0.73%	1.46%	1.44%	1.46%	2.20%	2.16%	2.19%
2020	4,126,130	1,647,398	5,773,528	4,282,603	1,709,127	5,991,730	4,443,957	1,772,762	6,216,719	1.04%	0.71%	0.94%	1.77%	1.42%	1.67%	2.49%	2.13%	2.39%
2021	4,142,619	1,658,972	5,801,591	4,330,276	1,733,171	6,063,447	4,525,202	1,810,216	6,335,418	0.40%	0.70%	0.49%	1.11%	1.41%	1.20%	1.83%	2.11%	1.91%
2022	4,171,958	1,670,460	5,842,418	4,391,682	1,757,208	6,148,890	4,621,567	1,847,924	6,469,491	0.71%	0.69%	0.70%	1.42%	1.39%	1.41%	2.13%	2.08%	2.12%
2023	4,201,299	1,681,916	5,883,215	4,453,532	1,781,347	6,234,880	4,719,319	1,886,062	6,605,382	0.70%	0.69%	0.70%	1.41%	1.37%	1.40%	2.12%	2.06%	2.10%
2024	4,244,027	1,693,345	5,937,371	4,530,244	1,805,598	6,335,842	4,833,989	1,924,642	6,758,630	1.02%	0.68%	0.92%	1.72%	1.36%	1.62%	2.43%	2.05%	2.32%
2025	4,259,986	1,704,778	5,964,763	4,578,558	1,830,028	6,408,586	4,919,014	1,963,778	6,882,792	0.38%	0.68%	0.46%	1.07%	1.35%	1.15%	1.76%	2.03%	1.84%
2026	4,289,150	1,716,117	6,005,267	4,641,342	1,854,424	6,495,765	5,020,341	2,003,128	7,023,468	0.68%	0.67%	0.68%	1.37%	1.33%	1.36%	2.06%	2.00%	2.04%
2027	4,318,359	1,727,457	6,045,816	4,704,659	1,878,988	6,583,648	5,123,235	2,043,021	7,166,257	0.68%	0.66%	0.68%	1.36%	1.32%	1.35%	2.05%	1.99%	2.03%
2028	4,361,259	1,738,721	6,099,980	4,783,496	1,903,555	6,687,051	5,244,155	2,083,187	7,327,342	0.99%	0.65%	0.90%	1.68%	1.31%	1.57%	2.36%	1.97%	2.25%
2029	4,376,445	1,749,967	6,126,412	4,831,864	1,928,245	6,760,109	5,332,067	2,123,824	7,455,891	0.35%	0.65%	0.43%	1.01%	1.30%	1.09%	1.68%	1.95%	1.75%
2030	4,405,382	1,761,166	6,166,548	4,895,876	1,952,998	6,848,874	5,438,214	2,164,836	7,603,050	0.66%	0.64%	0.66%	1.32%	1.28%	1.31%	1.99%	1.93%	1.97%
2031	4,434,119	1,772,286	6,206,404	4,959,874	1,977,737	6,937,611	5,545,054	2,206,097	7,751,151	0.65%	0.63%	0.65%	1.31%	1.27%	1.30%	1.96%	1.91%	1.95%
2032	4,476,844	1,783,295	6,260,139	5,040,049	2,002,393	7,042,442	5,671,042	2,247,489	7,918,531	0.96%	0.62%	0.87%	1.62%	1.25%	1.51%	2.27%	1.88%	2.16%
2033	4,490,798	1,794,195	6,284,993	5,087,356	2,026,962	7,114,318	5,759,983	2,289,003	8,048,986	0.31%	0.61%	0.40%	0.94%	1.23%	1.02%	1.57%	1.85%	1.65%
2034	4,518,639	1,804,955	6,323,594	5,150,582	2,051,367	7,201,949	5,867,608	2,330,498	8,198,105	0.62%	0.60%	0.61%	1.24%	1.20%	1.23%	1.87%	1.81%	1.85%
2035	4,546,303	1,815,635	6,361,937	5,213,805	2,075,743	7,289,548	5,975,912	2,372,206	8,348,118	0.61%	0.59%	0.61%	1.23%	1.19%	1.22%	1.85%	1.79%	1.83%
2036	4,588,445	1,826,246	6,414,691	5,294,296	2,100,114	7,394,410	6,105,221	2,414,163	8,519,384	0.93%	0.58%	0.83%	1.54%	1.17%	1.44%	2.16%	1.77%	2.05%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	4,417	80,387	84,805	4,485	81,634	86,119	4,554	82,890	87,444	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	4,450	80,984	85,433	4,551	82,846	87,397	4,655	84,737	89,392	0.74%	0.74%	0.74%	1.47%	1.48%	1.48%	2.21%	2.23%	2.23%
2019	4,482	81,575	86,056	4,617	84,056	88,673	4,756	86,595	91,351	0.72%	0.73%	0.73%	1.44%	1.46%	1.46%	2.16%	2.19%	2.19%
2020	4,513	82,161	86,674	4,683	85,265	89,947	4,857	88,465	93,322	0.71%	0.72%	0.72%	1.42%	1.44%	1.44%	2.13%	2.16%	2.16%
2021	4,545	82,748	87,293	4,748	86,485	91,233	4,959	90,366	95,326	0.70%	0.71%	0.71%	1.41%	1.43%	1.43%	2.11%	2.15%	2.15%
2022	4,577	83,333	87,909	4,814	87,708	92,522	5,063	92,285	97,348	0.69%	0.71%	0.71%	1.39%	1.41%	1.41%	2.08%	2.12%	2.12%
2023	4,608	83,917	88,525	4,880	88,940	93,820	5,167	94,232	99,399	0.69%	0.70%	0.70%	1.37%	1.40%	1.40%	2.06%	2.11%	2.11%
2024	4,639	84,501	89,140	4,947	90,179	95,126	5,273	96,204	101,477	0.68%	0.70%	0.69%	1.36%	1.39%	1.39%	2.05%	2.09%	2.09%
2025	4,671	85,086	89,757	5,014	91,430	96,444	5,380	98,208	103,588	0.68%	0.69%	0.69%	1.35%	1.39%	1.39%	2.03%	2.08%	2.08%
2026	4,702	85,667	90,369	5,081	92,680	97,761	5,488	100,226	105,714	0.67%	0.68%	0.68%	1.33%	1.37%	1.37%	2.00%	2.05%	2.05%
2027	4,733	86,249	90,981	5,148	93,941	99,089	5,597	102,275	107,872	0.66%	0.68%	0.68%	1.32%	1.36%	1.36%	1.99%	2.04%	2.04%
2028	4,764	86,827	91,591	5,215	95,204	100,419	5,707	104,341	110,048	0.65%	0.67%	0.67%	1.31%	1.34%	1.34%	1.97%	2.02%	2.02%
2029	4,794	87,406	92,200	5,283	96,474	101,757	5,819	106,433	112,251	0.65%	0.67%	0.66%	1.30%	1.33%	1.33%	1.95%	2.01%	2.00%
2030	4,825	87,982	92,807	5,351	97,749	103,100	5,931	108,546	114,477	0.64%	0.66%	0.66%	1.28%	1.32%	1.32%	1.93%	1.99%	1.98%
2031	4,856	88,554	93,410	5,418	99,024	104,442	6,044	110,673	116,717	0.63%	0.65%	0.65%	1.27%	1.30%	1.30%	1.91%	1.96%	1.96%
2032	4,886	89,121	94,007	5,486	100,294	105,780	6,158	112,808	118,966	0.62%	0.64%	0.64%	1.25%	1.28%	1.28%	1.88%	1.93%	1.93%
2033	4,916	89,683	94,599	5,553	101,562	107,115	6,271	114,952	121,223	0.61%	0.63%	0.63%	1.23%	1.26%	1.26%	1.85%	1.90%	1.90%
2034	4,945	90,238	95,183	5,620	102,821	108,441	6,385	117,094	123,479	0.60%	0.62%	0.62%	1.20%	1.24%	1.24%	1.81%	1.86%	1.86%
2035	4,974	90,789	95,763	5,687	104,080	109,767	6,499	119,250	125,749	0.59%	0.61%	0.61%	1.19%	1.22%	1.22%	1.79%	1.84%	1.84%
2036	5,003	91,336	96,339	5,754	105,338	111,092	6,614	121,418	128,032	0.58%	0.60%	0.60%	1.17%	1.21%	1.21%	1.77%	1.82%	1.82%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,075,715	2,560,636	5,636,352	3,114,152	2,609,721	5,723,872	3,152,827	2,659,274	5,812,100	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,094,964	2,583,191	5,678,154	3,153,129	2,655,700	5,808,830	3,212,019	2,729,561	5,941,581	0.63%	0.88%	0.74%	1.25%	1.76%	1.48%	1.88%	2.64%	2.23%
2019	3,114,323	2,605,199	5,719,522	3,192,575	2,700,961	5,893,536	3,272,293	2,799,355	6,071,648	0.63%	0.85%	0.73%	1.25%	1.70%	1.46%	1.88%	2.56%	2.19%
2020	3,133,864	2,639,664	5,773,528	3,232,544	2,759,186	5,991,730	3,333,695	2,883,025	6,216,719	0.63%	1.32%	0.94%	1.25%	2.16%	1.67%	1.88%	2.99%	2.39%
2021	3,153,295	2,648,296	5,801,591	3,272,726	2,790,721	6,063,447	3,395,904	2,939,514	6,335,418	0.62%	0.33%	0.49%	1.24%	1.14%	1.20%	1.87%	1.96%	1.91%
2022	3,172,895	2,669,523	5,842,418	3,313,412	2,835,478	6,148,890	3,459,229	3,010,262	6,469,491	0.62%	0.80%	0.70%	1.24%	1.60%	1.41%	1.86%	2.41%	2.12%
2023	3,192,560	2,690,655	5,883,215	3,354,484	2,880,396	6,234,880	3,523,548	3,081,833	6,605,382	0.62%	0.79%	0.70%	1.24%	1.58%	1.40%	1.86%	2.38%	2.10%
2024	3,212,405	2,724,966	5,937,371	3,396,085	2,939,757	6,335,842	3,589,042	3,169,588	6,758,630	0.62%	1.28%	0.92%	1.24%	2.06%	1.62%	1.86%	2.85%	2.32%
2025	3,232,080	2,732,683	5,964,763	3,437,787	2,970,799	6,408,586	3,655,203	3,227,590	6,882,792	0.61%	0.28%	0.46%	1.23%	1.06%	1.15%	1.84%	1.83%	1.84%
2026	3,251,846	2,753,421	6,005,267	3,479,835	3,015,931	6,495,765	3,722,264	3,301,205	7,023,468	0.61%	0.76%	0.68%	1.22%	1.52%	1.36%	1.83%	2.28%	2.04%
2027	3,271,606	2,774,210	6,045,816	3,522,127	3,061,521	6,583,648	3,790,121	3,376,135	7,166,257	0.61%	0.76%	0.68%	1.22%	1.51%	1.35%	1.82%	2.27%	2.03%
2028	3,291,432	2,808,548	6,099,980	3,564,709	3,122,342	6,687,051	3,858,797	3,468,545	7,327,342	0.61%	1.24%	0.90%	1.21%	1.99%	1.57%	1.81%	2.74%	2.25%
2029	3,311,055	2,815,357	6,126,412	3,607,321	3,152,789	6,760,109	3,928,046	3,527,845	7,455,891	0.60%	0.24%	0.43%	1.20%	0.98%	1.09%	1.79%	1.71%	1.75%
2030	3,330,745	2,835,804	6,166,548	3,650,223	3,198,651	6,848,874	3,998,121	3,604,929	7,603,050	0.59%	0.73%	0.66%	1.19%	1.45%	1.31%	1.78%	2.19%	1.97%
2031	3,350,207	2,856,197	6,206,404	3,692,881	3,244,731	6,937,611	4,068,206	3,682,945	7,751,151	0.58%	0.72%	0.65%	1.17%	1.44%	1.30%	1.75%	2.16%	1.95%
2032	3,369,529	2,890,610	6,260,139	3,735,366	3,307,076	7,042,442	4,138,350	3,780,181	7,918,531	0.58%	1.20%	0.87%	1.15%	1.92%	1.51%	1.72%	2.64%	2.16%
2033	3,388,429	2,896,564	6,284,993	3,777,383	3,336,935	7,114,318	4,208,237	3,840,748	8,048,986	0.56%	0.21%	0.40%	1.12%	0.90%	1.02%	1.69%	1.60%	1.65%
2034	3,407,206	2,916,388	6,323,594	3,819,248	3,382,701	7,201,949	4,278,198	3,919,908	8,198,105	0.55%	0.68%	0.61%	1.11%	1.37%	1.23%	1.66%	2.06%	1.85%
2035	3,425,771	2,936,166	6,361,937	3,860,869	3,428,679	7,289,548	4,348,131	3,999,986	8,348,118	0.54%	0.68%	0.61%	1.09%	1.36%	1.22%	1.63%	2.04%	1.83%
2036	3,444,241	2,970,450	6,414,691	3,902,384	3,492,026	7,394,410	4,418,197	4,101,187	8,519,384	0.54%	1.17%	0.83%	1.08%	1.85%	1.44%	1.61%	2.53%	2.05%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	7,752	841	8,593	7,849	857	8,706	7,946	874	8,820	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	7,801	849	8,649	7,947	873	8,820	8,096	897	8,993	0.63%	0.89%	0.65%	1.25%	1.78%	1.30%	1.88%	2.67%	1.96%
2019	7,849	856	8,705	8,047	888	8,934	8,247	920	9,168	0.63%	0.86%	0.65%	1.25%	1.72%	1.30%	1.88%	2.59%	1.95%
2020	7,898	863	8,761	8,147	902	9,050	8,402	943	9,345	0.62%	0.84%	0.65%	1.25%	1.68%	1.29%	1.87%	2.51%	1.94%
2021	7,948	870	8,818	8,249	917	9,166	8,559	967	9,526	0.62%	0.83%	0.64%	1.25%	1.66%	1.29%	1.87%	2.49%	1.93%
2022	7,997	877	8,874	8,351	932	9,284	8,719	990	9,709	0.62%	0.81%	0.64%	1.24%	1.62%	1.28%	1.86%	2.44%	1.92%
2023	8,047	884	8,931	8,455	947	9,402	8,881	1,014	9,895	0.62%	0.80%	0.64%	1.24%	1.61%	1.28%	1.86%	2.41%	1.92%
2024	8,096	891	8,988	8,559	962	9,522	9,046	1,038	10,084	0.62%	0.79%	0.64%	1.24%	1.58%	1.27%	1.86%	2.37%	1.91%
2025	8,146	898	9,044	8,665	977	9,642	9,213	1,063	10,276	0.62%	0.79%	0.63%	1.23%	1.58%	1.27%	1.85%	2.36%	1.90%
2026	8,196	905	9,101	8,771	993	9,763	9,382	1,087	10,469	0.61%	0.77%	0.63%	1.22%	1.54%	1.26%	1.83%	2.31%	1.88%
2027	8,246	912	9,158	8,877	1,008	9,885	9,553	1,112	10,665	0.61%	0.77%	0.62%	1.22%	1.53%	1.25%	1.82%	2.30%	1.87%
2028	8,295	919	9,214	8,984	1,023	10,007	9,725	1,138	10,863	0.60%	0.75%	0.62%	1.21%	1.51%	1.24%	1.81%	2.26%	1.86%
2029	8,345	926	9,271	9,092	1,038	10,130	9,900	1,163	11,063	0.60%	0.75%	0.61%	1.20%	1.49%	1.23%	1.80%	2.24%	1.84%
2030	8,395	933	9,327	9,200	1,053	10,253	10,077	1,189	11,266	0.59%	0.74%	0.61%	1.19%	1.47%	1.22%	1.78%	2.21%	1.83%
2031	8,444	939	9,383	9,308	1,069	10,376	10,253	1,215	11,468	0.58%	0.73%	0.60%	1.17%	1.46%	1.20%	1.75%	2.19%	1.80%
2032	8,492	946	9,438	9,414	1,084	10,498	10,430	1,241	11,671	0.57%	0.72%	0.59%	1.15%	1.44%	1.18%	1.72%	2.15%	1.77%
2033	8,540	953	9,493	9,521	1,099	10,620	10,606	1,267	11,874	0.56%	0.71%	0.58%	1.13%	1.42%	1.16%	1.69%	2.12%	1.74%
2034	8,588	959	9,547	9,626	1,115	10,741	10,783	1,294	12,076	0.55%	0.69%	0.57%	1.11%	1.39%	1.14%	1.66%	2.08%	1.71%
2035	8,634	966	9,600	9,731	1,130	10,861	10,959	1,320	12,279	0.54%	0.69%	0.56%	1.09%	1.37%	1.12%	1.63%	2.06%	1.68%
2036	8,681	973	9,653	9,835	1,145	10,981	11,135	1,347	12,482	0.54%	0.68%	0.55%	1.07%	1.36%	1.10%	1.61%	2.04%	1.65%





20 Year Customer Growth Rate	
High:	41.52%
Medium:	26.12%
Low:	12.34%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

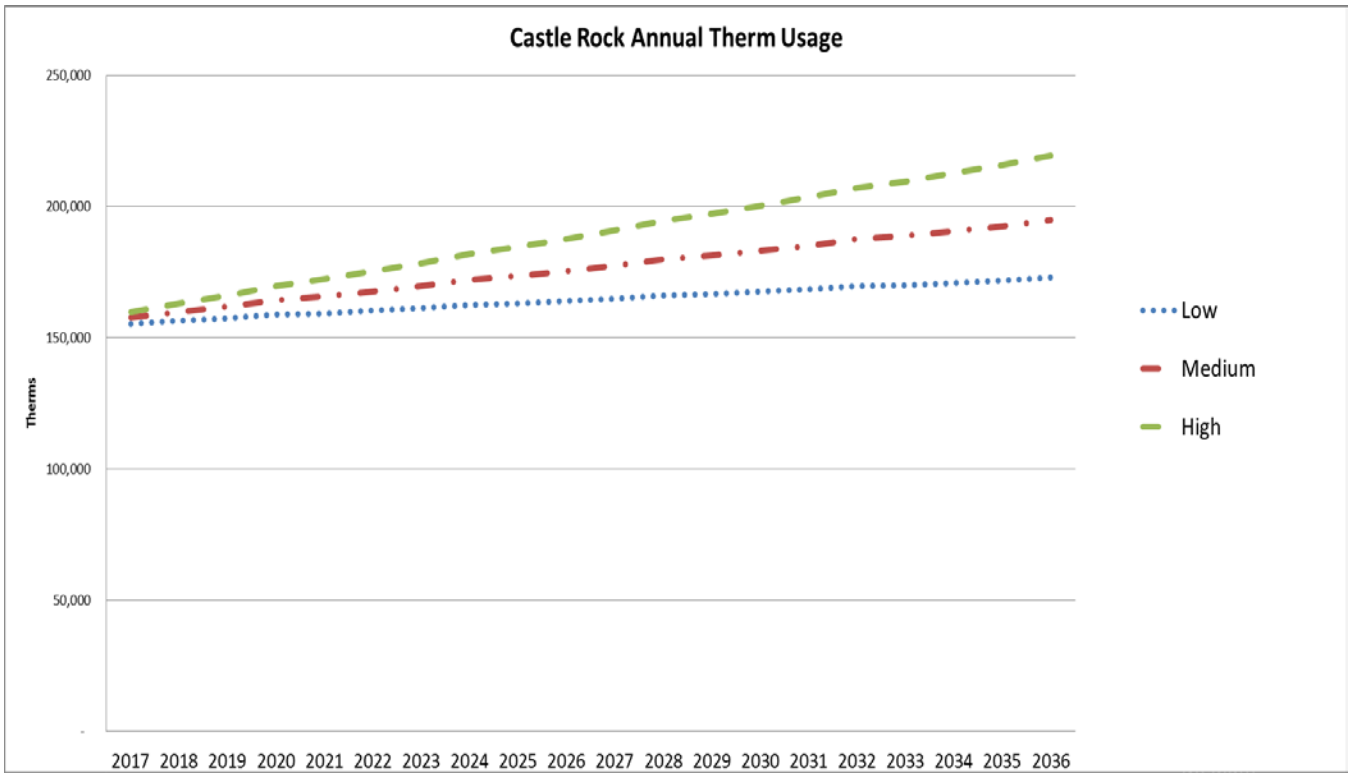
Castle Rock

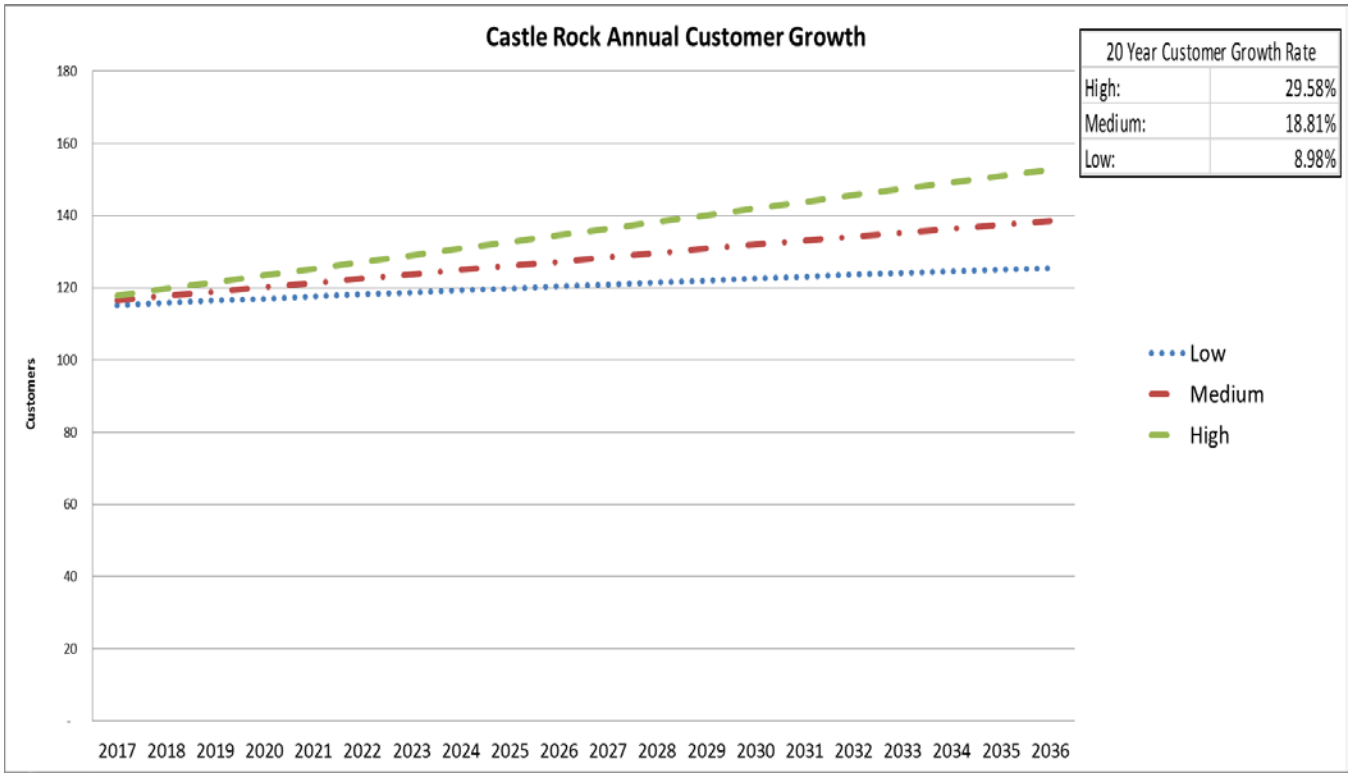
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	91,379	63,989	155,368	92,633	65,002	157,635	93,897	66,023	159,920	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	91,952	64,445	156,397	93,796	65,928	159,724	95,666	67,435	163,101	0.63%	0.71%	0.66%	1.25%	1.43%	1.33%	1.88%	2.14%	1.99%
2019	92,511	64,888	157,399	94,938	66,836	161,774	97,415	68,828	166,243	0.61%	0.69%	0.64%	1.22%	1.38%	1.28%	1.83%	2.06%	1.93%
2020	93,489	65,316	158,805	96,505	67,719	164,224	99,605	70,192	169,797	1.06%	0.66%	0.89%	1.65%	1.32%	1.51%	2.25%	1.98%	2.14%
2021	93,587	65,736	159,323	97,157	68,589	165,745	100,847	71,545	172,392	0.11%	0.64%	0.33%	0.68%	1.28%	0.93%	1.25%	1.93%	1.53%
2022	94,113	66,148	160,261	98,251	69,450	167,700	102,553	72,894	175,447	0.56%	0.63%	0.59%	1.13%	1.26%	1.18%	1.69%	1.88%	1.77%
2023	94,636	66,559	161,194	99,345	70,312	169,657	104,270	74,251	178,521	0.56%	0.62%	0.58%	1.11%	1.24%	1.17%	1.67%	1.86%	1.75%
2024	95,593	66,959	162,552	100,896	71,159	172,055	106,475	75,593	182,069	1.01%	0.60%	0.84%	1.56%	1.20%	1.41%	2.12%	1.81%	1.99%
2025	95,664	67,365	163,028	101,515	72,021	173,536	107,706	76,968	184,674	0.07%	0.61%	0.29%	0.61%	1.21%	0.86%	1.16%	1.82%	1.43%
2026	96,178	67,769	163,947	102,610	72,886	175,496	109,454	78,356	187,810	0.54%	0.60%	0.56%	1.08%	1.20%	1.13%	1.62%	1.80%	1.70%
2027	96,688	68,170	164,858	103,702	73,749	177,451	111,206	79,749	190,955	0.53%	0.59%	0.56%	1.06%	1.18%	1.11%	1.60%	1.78%	1.67%
2028	97,645	68,563	166,208	105,276	74,601	179,877	113,487	81,131	194,618	0.99%	0.58%	0.82%	1.52%	1.15%	1.37%	2.05%	1.73%	1.92%
2029	97,685	68,954	166,639	105,855	75,453	181,307	114,691	82,522	197,213	0.04%	0.57%	0.26%	0.55%	1.14%	0.80%	1.06%	1.71%	1.33%
2030	98,179	69,343	167,522	106,929	76,305	183,233	116,444	83,921	200,365	0.51%	0.56%	0.53%	1.01%	1.13%	1.06%	1.53%	1.70%	1.60%
2031	98,661	69,724	168,386	107,985	77,144	185,129	118,177	85,308	203,484	0.49%	0.55%	0.52%	0.99%	1.10%	1.03%	1.49%	1.65%	1.56%
2032	99,608	70,105	169,713	109,561	77,988	187,548	120,497	86,708	207,205	0.96%	0.55%	0.79%	1.46%	1.09%	1.31%	1.96%	1.64%	1.83%
2033	99,603	70,471	170,074	110,060	78,803	188,863	121,608	88,070	209,678	-0.01%	0.52%	0.21%	0.46%	1.05%	0.70%	0.92%	1.57%	1.19%
2034	100,063	70,839	170,902	111,084	79,626	190,710	123,314	89,451	212,765	0.46%	0.52%	0.49%	0.93%	1.04%	0.98%	1.40%	1.57%	1.47%
2035	100,509	71,195	171,704	112,081	80,429	192,509	124,983	90,805	215,788	0.45%	0.50%	0.47%	0.90%	1.01%	0.94%	1.35%	1.51%	1.42%
2036	101,428	71,550	172,978	113,615	81,231	194,846	127,271	92,165	219,436	0.91%	0.50%	0.74%	1.37%	1.00%	1.21%	1.83%	1.50%	1.69%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	175	1,354	1,530	178	1,373	1,551	181	1,391	1,572	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	177	1,363	1,539	181	1,390	1,570	185	1,417	1,602	0.71%	0.62%	0.63%	1.43%	1.24%	1.26%	2.14%	1.86%	1.90%
2019	178	1,371	1,549	183	1,407	1,590	189	1,443	1,631	0.69%	0.60%	0.61%	1.38%	1.21%	1.22%	2.06%	1.81%	1.84%
2020	179	1,379	1,558	186	1,423	1,609	192	1,468	1,660	0.66%	0.58%	0.59%	1.32%	1.16%	1.18%	1.98%	1.75%	1.78%
2021	180	1,387	1,567	188	1,439	1,627	196	1,493	1,689	0.64%	0.57%	0.58%	1.28%	1.14%	1.15%	1.93%	1.71%	1.73%
2022	181	1,395	1,576	190	1,455	1,645	200	1,518	1,718	0.63%	0.56%	0.56%	1.26%	1.12%	1.13%	1.88%	1.68%	1.70%
2023	182	1,402	1,585	193	1,471	1,664	203	1,543	1,747	0.62%	0.55%	0.56%	1.24%	1.10%	1.12%	1.86%	1.66%	1.68%
2024	183	1,410	1,593	195	1,487	1,682	207	1,568	1,776	0.60%	0.54%	0.54%	1.20%	1.08%	1.09%	1.81%	1.62%	1.64%
2025	185	1,417	1,602	197	1,503	1,700	211	1,594	1,805	0.61%	0.54%	0.55%	1.21%	1.08%	1.09%	1.82%	1.62%	1.65%
2026	186	1,425	1,611	200	1,519	1,719	215	1,620	1,834	0.60%	0.53%	0.54%	1.20%	1.07%	1.08%	1.80%	1.61%	1.63%
2027	187	1,432	1,619	202	1,535	1,737	218	1,645	1,864	0.59%	0.53%	0.53%	1.18%	1.05%	1.07%	1.78%	1.59%	1.61%
2028	188	1,440	1,628	204	1,551	1,755	222	1,671	1,893	0.58%	0.51%	0.52%	1.15%	1.03%	1.04%	1.73%	1.55%	1.57%
2029	189	1,447	1,636	207	1,567	1,774	226	1,696	1,922	0.57%	0.51%	0.51%	1.14%	1.02%	1.03%	1.71%	1.53%	1.55%
2030	190	1,454	1,644	209	1,583	1,792	230	1,722	1,952	0.56%	0.50%	0.51%	1.13%	1.01%	1.02%	1.70%	1.51%	1.54%
2031	191	1,461	1,652	211	1,598	1,809	234	1,747	1,981	0.55%	0.49%	0.49%	1.10%	0.98%	0.99%	1.65%	1.47%	1.50%
2032	192	1,468	1,660	214	1,614	1,827	238	1,773	2,010	0.55%	0.48%	0.49%	1.09%	0.97%	0.98%	1.64%	1.46%	1.48%
2033	193	1,475	1,668	216	1,628	1,844	241	1,798	2,039	0.52%	0.46%	0.47%	1.05%	0.93%	0.94%	1.57%	1.40%	1.42%
2034	194	1,482	1,676	218	1,643	1,862	245	1,823	2,068	0.52%	0.46%	0.47%	1.04%	0.92%	0.94%	1.57%	1.39%	1.41%
2035	195	1,488	1,683	220	1,658	1,878	249	1,847	2,096	0.50%	0.44%	0.45%	1.01%	0.89%	0.90%	1.51%	1.34%	1.36%
2036	196	1,495	1,691	223	1,673	1,895	253	1,872	2,124	0.50%	0.43%	0.44%	1.00%	0.88%	0.89%	1.50%	1.32%	1.34%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	30,981	124,388	155,368	31,216	126,419	157,635	31,453	128,467	159,920	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	31,098	125,299	156,397	31,452	128,272	159,724	31,809	131,292	163,101	0.38%	0.73%	0.66%	0.76%	1.47%	1.33%	1.13%	2.20%	1.99%
2019	31,215	126,185	157,399	31,689	130,085	161,774	32,168	134,075	166,243	0.38%	0.71%	0.64%	0.75%	1.41%	1.28%	1.13%	2.12%	1.93%
2020	31,331	127,474	158,805	31,925	132,299	164,224	32,529	137,269	169,797	0.37%	1.02%	0.89%	0.75%	1.70%	1.51%	1.12%	2.38%	2.14%
2021	31,447	127,876	159,323	32,162	133,583	165,745	32,890	139,501	172,392	0.37%	0.31%	0.33%	0.74%	0.97%	0.93%	1.11%	1.63%	1.53%
2022	31,563	128,698	160,261	32,399	135,302	167,700	33,253	142,193	175,447	0.37%	0.64%	0.59%	0.74%	1.29%	1.18%	1.10%	1.93%	1.77%
2023	31,678	129,516	161,194	32,635	137,021	169,657	33,617	144,904	178,521	0.36%	0.64%	0.58%	0.73%	1.27%	1.17%	1.09%	1.91%	1.75%
2024	31,793	130,759	162,552	32,871	139,184	172,055	33,982	148,086	182,069	0.36%	0.96%	0.84%	0.72%	1.58%	1.41%	1.09%	2.20%	1.99%
2025	31,906	131,122	163,028	33,106	140,430	173,536	34,346	150,328	184,674	0.36%	0.28%	0.29%	0.71%	0.90%	0.86%	1.07%	1.51%	1.43%
2026	32,019	131,928	163,947	33,339	142,157	175,496	34,709	153,101	187,810	0.35%	0.61%	0.56%	0.70%	1.23%	1.13%	1.06%	1.84%	1.70%
2027	32,130	132,728	164,858	33,571	143,880	177,451	35,070	155,885	190,955	0.35%	0.61%	0.56%	0.69%	1.21%	1.11%	1.04%	1.82%	1.67%
2028	32,239	133,968	166,208	33,799	146,078	179,877	35,429	159,189	194,618	0.34%	0.93%	0.82%	0.68%	1.53%	1.37%	1.02%	2.12%	1.92%
2029	32,347	134,292	166,639	34,026	147,281	181,307	35,785	161,428	197,213	0.34%	0.24%	0.26%	0.67%	0.82%	0.80%	1.01%	1.41%	1.33%
2030	32,454	135,068	167,522	34,250	148,983	183,233	36,139	164,226	200,365	0.33%	0.58%	0.53%	0.66%	1.16%	1.06%	0.99%	1.73%	1.60%
2031	32,557	135,829	168,386	34,468	150,662	185,129	36,483	167,001	203,484	0.32%	0.56%	0.52%	0.63%	1.13%	1.03%	0.95%	1.69%	1.56%
2032	32,657	137,057	169,713	34,678	152,870	187,548	36,818	170,388	207,205	0.31%	0.90%	0.79%	0.61%	1.47%	1.31%	0.92%	2.03%	1.83%
2033	32,753	137,321	170,074	34,883	153,981	188,863	37,143	172,535	209,678	0.29%	0.19%	0.21%	0.59%	0.73%	0.70%	0.88%	1.26%	1.19%
2034	32,846	138,056	170,902	35,081	155,629	190,710	37,459	175,306	212,765	0.28%	0.54%	0.49%	0.57%	1.07%	0.98%	0.85%	1.61%	1.47%
2035	32,935	138,769	171,704	35,272	157,237	192,509	37,766	178,022	215,788	0.27%	0.52%	0.47%	0.55%	1.03%	0.94%	0.82%	1.55%	1.42%
2036	33,022	139,956	172,978	35,457	159,389	194,846	38,063	181,373	219,436	0.26%	0.86%	0.74%	0.52%	1.37%	1.21%	0.79%	1.88%	1.69%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	66	50	115	66	50	117	67	51	118	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	66	50	116	67	51	118	67	52	120	0.38%	0.73%	0.53%	0.76%	1.47%	1.06%	1.13%	2.20%	1.60%
2019	66	50	116	67	52	119	68	54	122	0.38%	0.71%	0.52%	0.75%	1.41%	1.04%	1.13%	2.12%	1.56%
2020	66	51	117	68	53	120	69	55	123	0.37%	0.68%	0.51%	0.75%	1.36%	1.01%	1.12%	2.03%	1.52%
2021	67	51	118	68	53	121	70	56	125	0.37%	0.66%	0.50%	0.74%	1.32%	0.99%	1.11%	1.97%	1.49%
2022	67	51	118	69	54	123	70	57	127	0.37%	0.64%	0.49%	0.74%	1.29%	0.98%	1.10%	1.93%	1.47%
2023	67	52	119	69	55	124	71	58	129	0.36%	0.64%	0.48%	0.73%	1.27%	0.97%	1.09%	1.91%	1.46%
2024	67	52	119	70	55	125	72	59	131	0.36%	0.62%	0.47%	0.72%	1.23%	0.95%	1.09%	1.85%	1.43%
2025	68	52	120	70	56	126	73	60	133	0.36%	0.62%	0.47%	0.71%	1.24%	0.95%	1.07%	1.86%	1.43%
2026	68	53	120	71	57	127	73	61	135	0.35%	0.61%	0.47%	0.70%	1.23%	0.94%	1.06%	1.84%	1.41%
2027	68	53	121	71	57	128	74	62	136	0.35%	0.61%	0.46%	0.69%	1.21%	0.92%	1.04%	1.82%	1.39%
2028	68	53	122	72	58	130	75	63	138	0.34%	0.59%	0.45%	0.68%	1.18%	0.90%	1.02%	1.77%	1.36%
2029	68	54	122	72	59	131	76	64	140	0.34%	0.58%	0.44%	0.67%	1.17%	0.89%	1.01%	1.75%	1.35%
2030	69	54	123	73	59	132	76	66	142	0.33%	0.58%	0.44%	0.66%	1.16%	0.88%	0.99%	1.73%	1.33%
2031	69	54	123	73	60	133	77	67	144	0.32%	0.56%	0.43%	0.63%	1.13%	0.86%	0.95%	1.69%	1.29%
2032	69	55	124	73	61	134	78	68	146	0.31%	0.56%	0.42%	0.61%	1.12%	0.84%	0.92%	1.68%	1.27%
2033	69	55	124	74	61	135	79	69	147	0.29%	0.54%	0.40%	0.59%	1.07%	0.81%	0.88%	1.61%	1.22%
2034	70	55	125	74	62	136	79	70	149	0.28%	0.54%	0.39%	0.57%	1.07%	0.80%	0.85%	1.61%	1.20%
2035	70	55	125	75	63	137	80	71	151	0.27%	0.52%	0.38%	0.55%	1.03%	0.77%	0.82%	1.55%	1.16%
2036	70	56	126	75	63	138	81	72	153	0.26%	0.51%	0.37%	0.52%	1.02%	0.75%	0.79%	1.53%	1.14%





20 Year Customer Growth Rate	
High:	29.58%
Medium:	18.81%
Low:	8.98%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

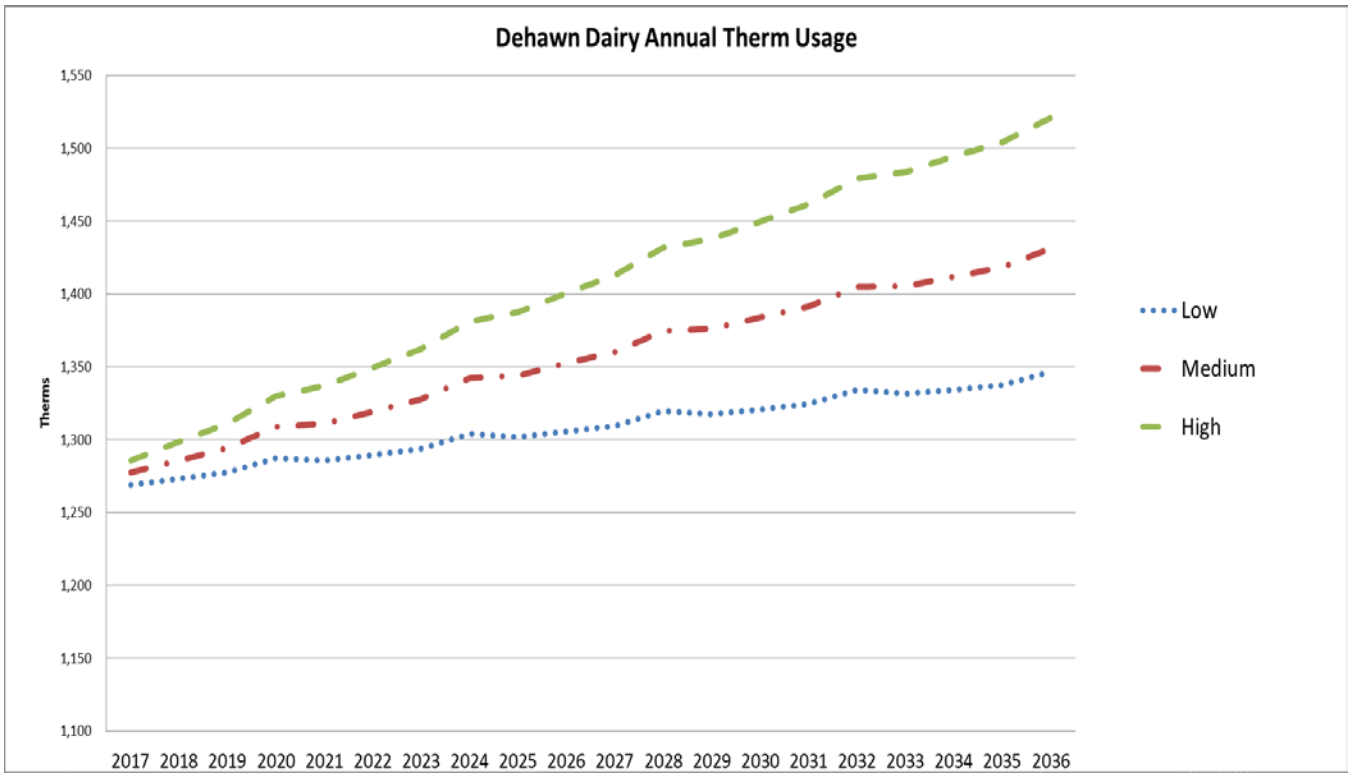
Dehawn Dairy

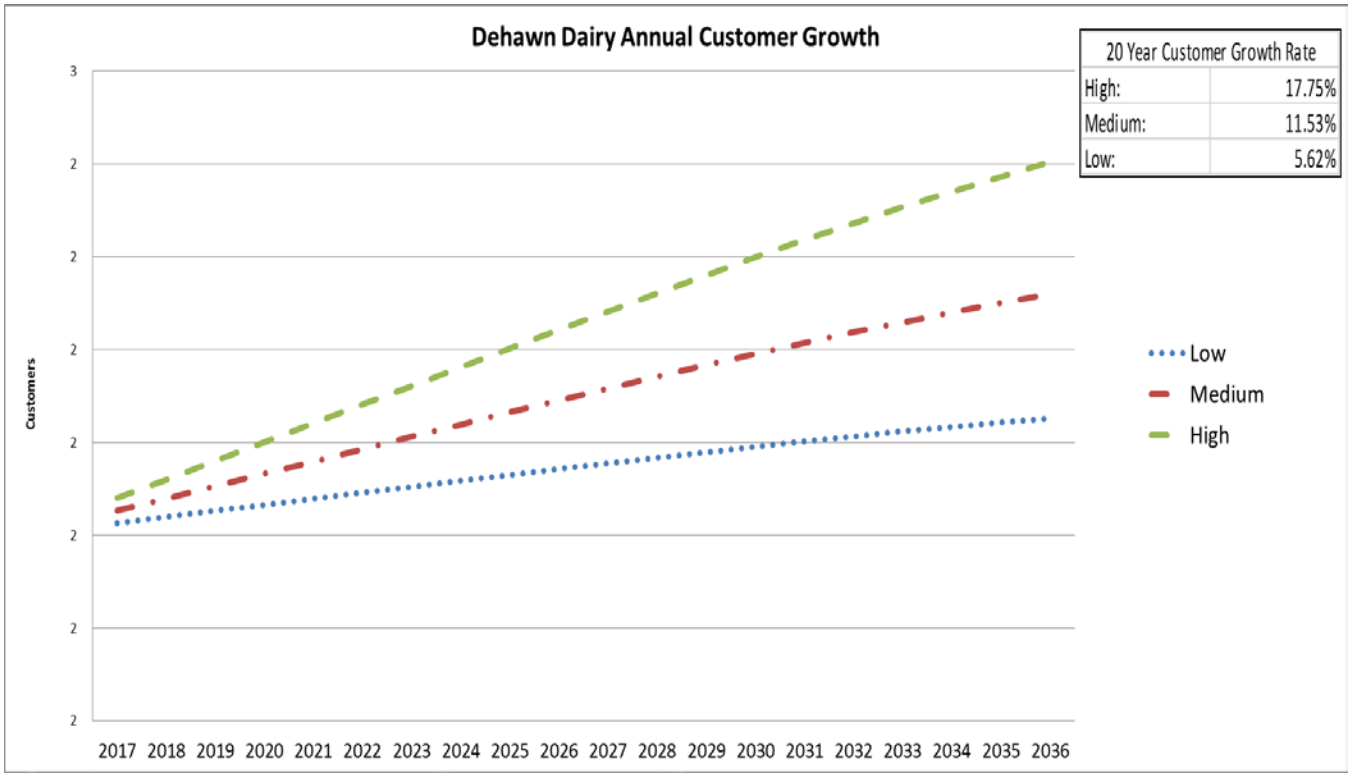
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	1,010	259	1,269	1,016	261	1,277	1,023	263	1,286	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,013	260	1,273	1,023	263	1,286	1,033	265	1,298	0.33%	0.33%	0.33%	0.66%	0.66%	0.66%	0.98%	0.98%	0.98%
2019	1,016	261	1,277	1,030	265	1,294	1,043	268	1,311	0.33%	0.33%	0.33%	0.65%	0.65%	0.65%	0.98%	0.98%	0.98%
2020	1,026	262	1,287	1,042	266	1,309	1,059	271	1,330	0.91%	0.32%	0.79%	1.24%	0.65%	1.12%	1.56%	0.97%	1.44%
2021	1,023	263	1,286	1,043	268	1,311	1,063	273	1,337	-0.26%	0.32%	-0.14%	0.06%	0.64%	0.18%	0.38%	0.96%	0.50%
2022	1,026	264	1,290	1,050	270	1,319	1,074	276	1,349	0.32%	0.32%	0.32%	0.64%	0.64%	0.64%	0.96%	0.96%	0.96%
2023	1,029	264	1,294	1,056	271	1,328	1,084	278	1,362	0.32%	0.32%	0.32%	0.63%	0.63%	0.63%	0.95%	0.95%	0.95%
2024	1,039	265	1,304	1,069	273	1,342	1,100	281	1,381	0.90%	0.31%	0.78%	1.21%	0.63%	1.09%	1.53%	0.94%	1.41%
2025	1,036	266	1,302	1,069	275	1,344	1,104	284	1,388	-0.28%	0.31%	-0.16%	0.03%	0.62%	0.15%	0.34%	0.92%	0.46%
2026	1,039	267	1,306	1,076	276	1,352	1,114	286	1,400	0.30%	0.30%	0.30%	0.61%	0.61%	0.61%	0.91%	0.91%	0.91%
2027	1,042	268	1,310	1,082	278	1,360	1,124	289	1,413	0.30%	0.30%	0.30%	0.60%	0.60%	0.60%	0.90%	0.90%	0.90%
2028	1,051	268	1,320	1,095	280	1,375	1,141	291	1,432	0.88%	0.29%	0.76%	1.17%	0.59%	1.05%	1.47%	0.88%	1.35%
2029	1,048	269	1,317	1,095	281	1,376	1,144	294	1,438	-0.30%	0.29%	-0.18%	-0.01%	0.57%	0.11%	0.27%	0.86%	0.39%
2030	1,051	270	1,321	1,101	283	1,384	1,153	296	1,450	0.28%	0.28%	0.28%	0.56%	0.56%	0.56%	0.84%	0.84%	0.84%
2031	1,054	271	1,325	1,107	284	1,391	1,163	299	1,461	0.27%	0.27%	0.27%	0.54%	0.54%	0.54%	0.81%	0.81%	0.81%
2032	1,063	271	1,334	1,119	286	1,405	1,179	301	1,480	0.85%	0.26%	0.73%	1.11%	0.52%	0.99%	1.37%	0.78%	1.24%
2033	1,059	272	1,331	1,118	287	1,406	1,180	303	1,484	-0.34%	0.25%	-0.22%	-0.09%	0.49%	0.03%	0.16%	0.74%	0.28%
2034	1,062	273	1,334	1,124	289	1,412	1,189	305	1,494	0.24%	0.24%	0.24%	0.47%	0.47%	0.47%	0.71%	0.71%	0.71%
2035	1,064	273	1,337	1,129	290	1,419	1,197	307	1,504	0.23%	0.23%	0.23%	0.45%	0.45%	0.45%	0.68%	0.68%	0.68%
2036	1,073	274	1,347	1,140	291	1,431	1,212	309	1,521	0.80%	0.22%	0.68%	1.02%	0.43%	0.90%	1.24%	0.65%	1.12%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	1	14	15	1	14	15	1	14	15	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1	14	15	1	14	15	1	14	15	0.33%	0.33%	0.33%	0.66%	0.66%	0.66%	0.98%	0.98%	0.98%
2019	1	14	15	1	14	15	1	14	15	0.33%	0.33%	0.33%	0.65%	0.65%	0.65%	0.98%	0.98%	0.98%
2020	1	14	15	1	14	15	1	14	15	0.32%	0.32%	0.32%	0.65%	0.65%	0.65%	0.97%	0.97%	0.97%
2021	1	14	15	1	14	15	1	15	15	0.32%	0.32%	0.32%	0.64%	0.64%	0.64%	0.96%	0.96%	0.96%
2022	1	14	15	1	14	15	1	15	15	0.32%	0.32%	0.32%	0.64%	0.64%	0.64%	0.96%	0.96%	0.96%
2023	1	14	15	1	15	15	1	15	16	0.32%	0.32%	0.32%	0.63%	0.63%	0.63%	0.95%	0.95%	0.95%
2024	1	14	15	1	15	15	1	15	16	0.31%	0.31%	0.31%	0.63%	0.63%	0.63%	0.94%	0.94%	0.94%
2025	1	14	15	1	15	15	1	15	16	0.31%	0.31%	0.31%	0.62%	0.62%	0.62%	0.92%	0.92%	0.92%
2026	1	14	15	1	15	16	1	15	16	0.30%	0.30%	0.30%	0.61%	0.61%	0.61%	0.91%	0.91%	0.91%
2027	1	14	15	1	15	16	1	15	16	0.30%	0.30%	0.30%	0.60%	0.60%	0.60%	0.90%	0.90%	0.90%
2028	1	14	15	1	15	16	1	16	16	0.29%	0.29%	0.29%	0.59%	0.59%	0.59%	0.88%	0.88%	0.88%
2029	1	14	15	1	15	16	1	16	17	0.29%	0.29%	0.29%	0.57%	0.57%	0.57%	0.86%	0.86%	0.86%
2030	1	14	15	1	15	16	1	16	17	0.28%	0.28%	0.28%	0.56%	0.56%	0.56%	0.84%	0.84%	0.84%
2031	1	14	15	1	15	16	1	16	17	0.27%	0.27%	0.27%	0.54%	0.54%	0.54%	0.81%	0.81%	0.81%
2032	1	15	15	1	15	16	1	16	17	0.26%	0.26%	0.26%	0.52%	0.52%	0.52%	0.78%	0.78%	0.78%
2033	1	15	15	1	15	16	1	16	17	0.25%	0.25%	0.25%	0.49%	0.49%	0.49%	0.74%	0.74%	0.74%
2034	1	15	15	1	15	16	1	16	17	0.24%	0.24%	0.24%	0.47%	0.47%	0.47%	0.71%	0.71%	0.71%
2035	1	15	15	1	15	16	1	16	17	0.23%	0.23%	0.23%	0.45%	0.45%	0.45%	0.68%	0.68%	0.68%
2036	1	15	15	1	16	16	1	17	17	0.22%	0.22%	0.22%	0.43%	0.43%	0.43%	0.65%	0.65%	0.65%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,269	-	1,269	1,277	-	1,277	1,286	-	1,286	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,273	-	1,273	1,286	-	1,286	1,298	-	1,298	0.33%	0.00%	0.33%	0.66%	0.00%	0.66%	0.98%	0.00%	0.98%
2019	1,277	-	1,277	1,294	-	1,294	1,311	-	1,311	0.33%	0.00%	0.33%	0.65%	0.00%	0.65%	0.98%	0.00%	0.98%
2020	1,287	-	1,287	1,309	-	1,309	1,330	-	1,330	0.79%	0.00%	0.79%	1.12%	0.00%	1.12%	1.44%	0.00%	1.44%
2021	1,286	-	1,286	1,311	-	1,311	1,337	-	1,337	-0.14%	0.00%	-0.14%	0.18%	0.00%	0.18%	0.50%	0.00%	0.50%
2022	1,290	-	1,290	1,319	-	1,319	1,349	-	1,349	0.32%	0.00%	0.32%	0.64%	0.00%	0.64%	0.96%	0.00%	0.96%
2023	1,294	-	1,294	1,328	-	1,328	1,362	-	1,362	0.32%	0.00%	0.32%	0.63%	0.00%	0.63%	0.95%	0.00%	0.95%
2024	1,304	-	1,304	1,342	-	1,342	1,381	-	1,381	0.78%	0.00%	0.78%	1.09%	0.00%	1.09%	1.41%	0.00%	1.41%
2025	1,302	-	1,302	1,344	-	1,344	1,388	-	1,388	-0.16%	0.00%	-0.16%	0.15%	0.00%	0.15%	0.46%	0.00%	0.46%
2026	1,306	-	1,306	1,352	-	1,352	1,400	-	1,400	0.30%	0.00%	0.30%	0.61%	0.00%	0.61%	0.91%	0.00%	0.91%
2027	1,310	-	1,310	1,360	-	1,360	1,413	-	1,413	0.30%	0.00%	0.30%	0.60%	0.00%	0.60%	0.90%	0.00%	0.90%
2028	1,320	-	1,320	1,375	-	1,375	1,432	-	1,432	0.76%	0.00%	0.76%	1.05%	0.00%	1.05%	1.35%	0.00%	1.35%
2029	1,317	-	1,317	1,376	-	1,376	1,438	-	1,438	-0.18%	0.00%	-0.18%	0.11%	0.00%	0.11%	0.39%	0.00%	0.39%
2030	1,321	-	1,321	1,384	-	1,384	1,450	-	1,450	0.28%	0.00%	0.28%	0.56%	0.00%	0.56%	0.84%	0.00%	0.84%
2031	1,325	-	1,325	1,391	-	1,391	1,461	-	1,461	0.27%	0.00%	0.27%	0.54%	0.00%	0.54%	0.81%	0.00%	0.81%
2032	1,334	-	1,334	1,405	-	1,405	1,480	-	1,480	0.73%	0.00%	0.73%	0.99%	0.00%	0.99%	1.24%	0.00%	1.24%
2033	1,331	-	1,331	1,406	-	1,406	1,484	-	1,484	-0.22%	0.00%	-0.22%	0.03%	0.00%	0.03%	0.28%	0.00%	0.28%
2034	1,334	-	1,334	1,412	-	1,412	1,494	-	1,494	0.24%	0.00%	0.24%	0.47%	0.00%	0.47%	0.71%	0.00%	0.71%
2035	1,337	-	1,337	1,419	-	1,419	1,504	-	1,504	0.23%	0.00%	0.23%	0.45%	0.00%	0.45%	0.68%	0.00%	0.68%
2036	1,347	-	1,347	1,431	-	1,431	1,521	-	1,521	0.68%	0.00%	0.68%	0.90%	0.00%	0.90%	1.12%	0.00%	1.12%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2	-	2	2	-	2	2	-	2	0.33%	0.00%	0.33%	0.66%	0.00%	0.66%	0.98%	0.00%	0.98%
2019	2	-	2	2	-	2	2	-	2	0.33%	0.00%	0.33%	0.65%	0.00%	0.65%	0.98%	0.00%	0.98%
2020	2	-	2	2	-	2	2	-	2	0.32%	0.00%	0.32%	0.65%	0.00%	0.65%	0.97%	0.00%	0.97%
2021	2	-	2	2	-	2	2	-	2	0.32%	0.00%	0.32%	0.64%	0.00%	0.64%	0.96%	0.00%	0.96%
2022	2	-	2	2	-	2	2	-	2	0.32%	0.00%	0.32%	0.64%	0.00%	0.64%	0.96%	0.00%	0.96%
2023	2	-	2	2	-	2	2	-	2	0.32%	0.00%	0.32%	0.63%	0.00%	0.63%	0.95%	0.00%	0.95%
2024	2	-	2	2	-	2	2	-	2	0.31%	0.00%	0.31%	0.63%	0.00%	0.63%	0.94%	0.00%	0.94%
2025	2	-	2	2	-	2	2	-	2	0.31%	0.00%	0.31%	0.62%	0.00%	0.62%	0.92%	0.00%	0.92%
2026	2	-	2	2	-	2	2	-	2	0.30%	0.00%	0.30%	0.61%	0.00%	0.61%	0.91%	0.00%	0.91%
2027	2	-	2	2	-	2	2	-	2	0.30%	0.00%	0.30%	0.60%	0.00%	0.60%	0.90%	0.00%	0.90%
2028	2	-	2	2	-	2	2	-	2	0.29%	0.00%	0.29%	0.59%	0.00%	0.59%	0.88%	0.00%	0.88%
2029	2	-	2	2	-	2	2	-	2	0.29%	0.00%	0.29%	0.57%	0.00%	0.57%	0.86%	0.00%	0.86%
2030	2	-	2	2	-	2	2	-	2	0.28%	0.00%	0.28%	0.56%	0.00%	0.56%	0.84%	0.00%	0.84%
2031	2	-	2	2	-	2	2	-	2	0.27%	0.00%	0.27%	0.54%	0.00%	0.54%	0.81%	0.00%	0.81%
2032	2	-	2	2	-	2	2	-	2	0.26%	0.00%	0.26%	0.52%	0.00%	0.52%	0.78%	0.00%	0.78%
2033	2	-	2	2	-	2	2	-	2	0.25%	0.00%	0.25%	0.49%	0.00%	0.49%	0.74%	0.00%	0.74%
2034	2	-	2	2	-	2	2	-	2	0.24%	0.00%	0.24%	0.47%	0.00%	0.47%	0.71%	0.00%	0.71%
2035	2	-	2	2	-	2	2	-	2	0.23%	0.00%	0.23%	0.45%	0.00%	0.45%	0.68%	0.00%	0.68%
2036	2	-	2	2	-	2	2	-	2	0.22%	0.00%	0.22%	0.43%	0.00%	0.43%	0.65%	0.00%	0.65%





20 Year Customer Growth Rate	
High:	17.75%
Medium:	11.53%
Low:	5.62%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

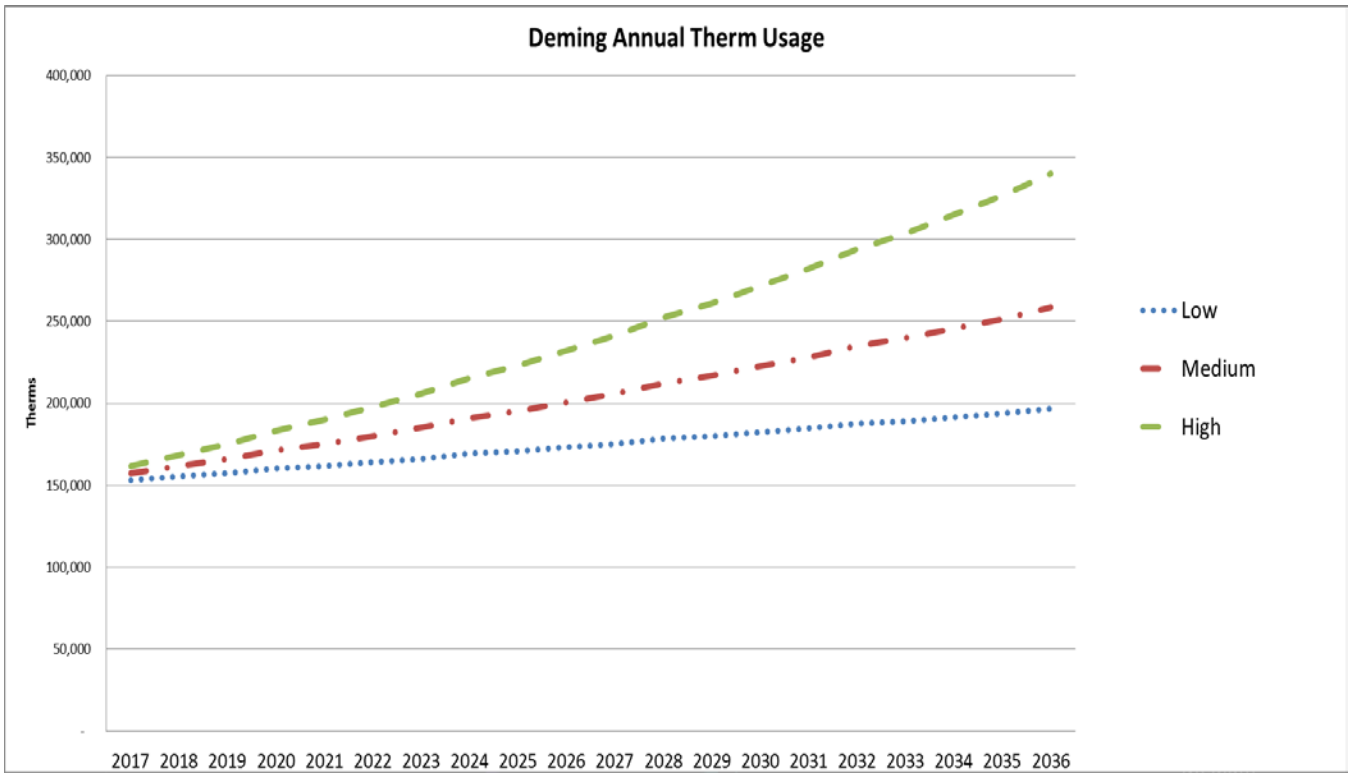
Deming

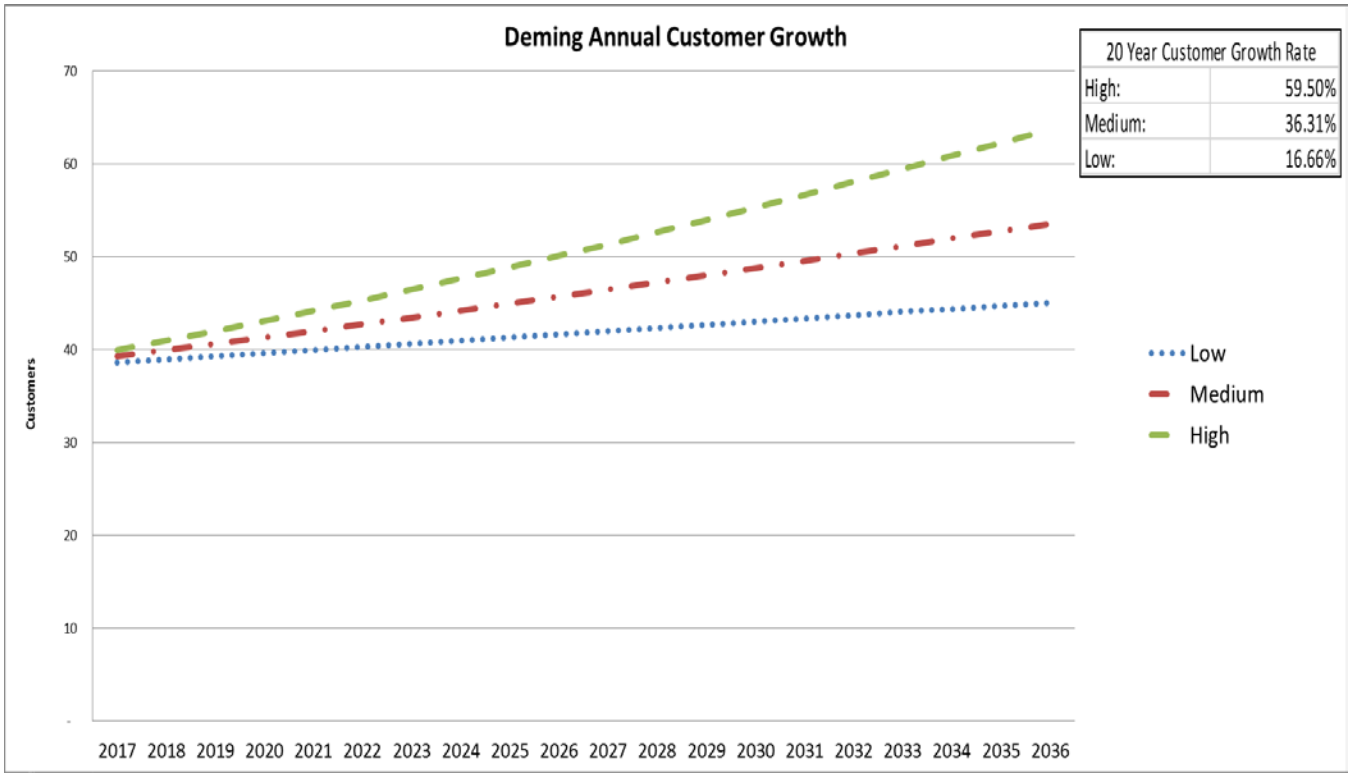
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	117,305	35,981	153,286	120,599	36,833	157,432	123,941	37,695	161,636	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	118,981	36,405	155,386	124,052	37,701	161,753	129,273	39,029	168,302	1.43%	1.18%	1.37%	2.86%	2.36%	2.74%	4.30%	3.54%	4.12%
2019	120,659	36,832	157,491	127,560	38,587	166,147	134,771	40,406	175,177	1.41%	1.17%	1.35%	2.83%	2.35%	2.72%	4.25%	3.53%	4.08%
2020	123,096	37,263	160,359	131,965	39,491	171,456	141,369	41,828	183,197	2.02%	1.17%	1.82%	3.45%	2.34%	3.20%	4.90%	3.52%	4.58%
2021	124,108	37,699	161,807	134,933	40,417	175,350	146,582	43,302	189,884	0.82%	1.17%	0.90%	2.25%	2.35%	2.27%	3.69%	3.52%	3.65%
2022	125,864	38,140	164,004	138,771	41,365	180,136	152,866	44,828	197,694	1.41%	1.17%	1.36%	2.84%	2.34%	2.73%	4.29%	3.52%	4.11%
2023	127,634	38,585	166,219	142,697	42,332	185,029	159,390	46,404	205,794	1.41%	1.17%	1.35%	2.83%	2.34%	2.72%	4.27%	3.52%	4.10%
2024	130,203	39,035	169,237	147,616	43,323	190,939	167,201	48,037	215,238	2.01%	1.17%	1.82%	3.45%	2.34%	3.19%	4.90%	3.52%	4.59%
2025	131,230	39,488	170,718	150,850	44,331	195,181	173,239	49,719	222,958	0.79%	1.16%	0.87%	2.19%	2.33%	2.22%	3.61%	3.50%	3.59%
2026	133,052	39,944	172,996	155,073	45,359	200,432	180,570	51,454	232,024	1.39%	1.16%	1.33%	2.80%	2.32%	2.69%	4.23%	3.49%	4.07%
2027	134,871	40,403	175,274	159,351	46,404	205,755	188,101	53,240	241,341	1.37%	1.15%	1.32%	2.76%	2.31%	2.66%	4.17%	3.47%	4.02%
2028	137,526	40,865	178,391	164,716	47,471	212,186	197,109	55,082	252,190	1.97%	1.14%	1.78%	3.37%	2.30%	3.13%	4.79%	3.46%	4.50%
2029	138,564	41,328	179,892	168,224	48,550	216,774	204,065	56,969	261,034	0.76%	1.13%	0.84%	2.13%	2.27%	2.16%	3.53%	3.43%	3.51%
2030	140,409	41,791	182,200	172,750	49,644	222,394	212,381	58,902	271,283	1.33%	1.12%	1.28%	2.69%	2.25%	2.59%	4.08%	3.39%	3.93%
2031	142,259	42,255	184,514	177,354	50,751	228,104	220,959	60,881	281,840	1.32%	1.11%	1.27%	2.66%	2.23%	2.57%	4.04%	3.36%	3.89%
2032	144,967	42,717	187,684	183,103	51,866	234,970	231,142	62,899	294,041	1.90%	1.09%	1.72%	3.24%	2.20%	3.01%	4.61%	3.31%	4.33%
2033	145,956	43,177	189,132	186,744	52,988	239,733	238,822	64,951	303,773	0.68%	1.08%	0.77%	1.99%	2.16%	2.03%	3.32%	3.26%	3.31%
2034	147,791	43,635	191,426	191,501	54,120	245,621	248,055	67,043	315,098	1.26%	1.06%	1.21%	2.55%	2.14%	2.46%	3.87%	3.22%	3.73%
2035	149,619	44,092	193,711	196,300	55,260	251,560	257,491	69,175	326,666	1.24%	1.05%	1.19%	2.51%	2.11%	2.42%	3.80%	3.18%	3.67%
2036	152,346	44,547	196,893	202,353	56,408	258,761	268,756	71,343	340,099	1.82%	1.03%	1.64%	3.08%	2.08%	2.86%	4.37%	3.13%	4.11%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	99	1,540	1,639	101	1,584	1,685	103	1,628	1,731	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	100	1,562	1,662	103	1,629	1,732	107	1,698	1,805	1.18%	1.43%	1.41%	2.36%	2.86%	2.83%	3.54%	4.30%	4.26%
2019	101	1,584	1,685	106	1,675	1,781	111	1,770	1,880	1.17%	1.41%	1.40%	2.35%	2.83%	2.80%	3.53%	4.25%	4.21%
2020	102	1,607	1,709	108	1,723	1,831	115	1,845	1,960	1.17%	1.42%	1.40%	2.34%	2.84%	2.81%	3.52%	4.28%	4.23%
2021	103	1,630	1,733	111	1,772	1,883	119	1,925	2,044	1.17%	1.42%	1.41%	2.35%	2.86%	2.83%	3.52%	4.30%	4.26%
2022	104	1,653	1,757	113	1,822	1,936	123	2,007	2,130	1.17%	1.41%	1.40%	2.34%	2.84%	2.81%	3.52%	4.29%	4.24%
2023	106	1,676	1,782	116	1,874	1,990	127	2,093	2,220	1.17%	1.41%	1.39%	2.34%	2.83%	2.80%	3.52%	4.27%	4.22%
2024	107	1,700	1,807	119	1,927	2,046	132	2,183	2,314	1.17%	1.41%	1.40%	2.34%	2.84%	2.81%	3.52%	4.28%	4.24%
2025	108	1,723	1,831	121	1,981	2,102	136	2,275	2,411	1.16%	1.39%	1.37%	2.33%	2.80%	2.77%	3.50%	4.22%	4.18%
2026	109	1,747	1,857	124	2,036	2,161	141	2,371	2,512	1.16%	1.39%	1.37%	2.32%	2.80%	2.77%	3.49%	4.23%	4.19%
2027	111	1,771	1,882	127	2,093	2,220	146	2,470	2,616	1.15%	1.37%	1.35%	2.31%	2.76%	2.73%	3.47%	4.17%	4.13%
2028	112	1,795	1,907	130	2,150	2,280	151	2,573	2,724	1.14%	1.37%	1.35%	2.30%	2.76%	2.73%	3.46%	4.18%	4.14%
2029	113	1,820	1,933	133	2,209	2,342	156	2,680	2,836	1.13%	1.35%	1.34%	2.27%	2.73%	2.71%	3.43%	4.14%	4.10%
2030	114	1,844	1,958	136	2,269	2,405	161	2,789	2,950	1.12%	1.33%	1.32%	2.25%	2.69%	2.67%	3.39%	4.08%	4.04%
2031	116	1,868	1,984	139	2,329	2,468	167	2,902	3,068	1.11%	1.32%	1.31%	2.23%	2.67%	2.64%	3.36%	4.04%	4.00%
2032	117	1,892	2,010	142	2,390	2,533	172	3,018	3,190	1.09%	1.30%	1.29%	2.20%	2.64%	2.61%	3.31%	4.00%	3.96%
2033	118	1,917	2,035	145	2,452	2,598	178	3,136	3,314	1.08%	1.28%	1.27%	2.16%	2.59%	2.57%	3.26%	3.93%	3.89%
2034	120	1,941	2,060	148	2,515	2,663	184	3,258	3,441	1.06%	1.26%	1.25%	2.14%	2.55%	2.52%	3.22%	3.87%	3.83%
2035	121	1,965	2,086	151	2,578	2,729	190	3,381	3,571	1.05%	1.24%	1.23%	2.11%	2.51%	2.48%	3.18%	3.80%	3.77%
2036	122	1,989	2,111	155	2,642	2,796	195	3,509	3,704	1.03%	1.22%	1.21%	2.08%	2.48%	2.46%	3.13%	3.77%	3.73%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	13,355	139,930	153,286	13,532	143,900	157,432	13,710	147,927	161,636	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	13,444	141,942	155,386	13,711	148,042	161,753	13,982	154,320	168,302	0.66%	1.44%	1.37%	1.33%	2.88%	2.74%	1.99%	4.32%	4.12%
2019	13,533	143,958	157,491	13,893	152,254	166,147	14,260	160,916	175,177	0.66%	1.42%	1.35%	1.33%	2.85%	2.72%	1.99%	4.27%	4.08%
2020	13,688	146,671	160,359	14,144	157,312	171,456	14,613	168,584	183,197	1.15%	1.88%	1.82%	1.81%	3.32%	3.20%	2.47%	4.77%	4.58%
2021	13,712	148,095	161,807	14,263	161,088	175,350	14,831	175,053	189,884	0.18%	0.97%	0.90%	0.84%	2.40%	2.27%	1.49%	3.84%	3.65%
2022	13,803	150,202	164,004	14,450	165,685	180,136	15,124	182,570	197,694	0.66%	1.42%	1.36%	1.32%	2.85%	2.73%	1.98%	4.29%	4.11%
2023	13,893	152,326	166,219	14,640	170,389	185,029	15,422	190,372	205,794	0.66%	1.41%	1.35%	1.31%	2.84%	2.72%	1.97%	4.27%	4.10%
2024	14,052	155,186	169,237	14,904	176,035	190,939	15,801	199,436	215,238	1.14%	1.88%	1.82%	1.80%	3.31%	3.19%	2.46%	4.76%	4.59%
2025	14,076	156,642	170,718	15,026	180,155	195,181	16,034	206,925	222,958	0.17%	0.94%	0.87%	0.82%	2.34%	2.22%	1.47%	3.75%	3.59%
2026	14,167	158,829	172,996	15,221	185,211	200,432	16,346	215,678	232,024	0.65%	1.40%	1.33%	1.30%	2.81%	2.69%	1.95%	4.23%	4.07%
2027	14,258	161,016	175,274	15,417	190,338	205,755	16,662	224,679	241,341	0.65%	1.38%	1.32%	1.29%	2.77%	2.66%	1.94%	4.17%	4.02%
2028	14,419	163,972	178,391	15,690	196,496	212,186	17,064	235,126	252,190	1.12%	1.84%	1.78%	1.77%	3.24%	3.13%	2.41%	4.65%	4.50%
2029	14,441	165,451	179,892	15,814	200,960	216,774	17,307	243,727	261,034	0.16%	0.90%	0.84%	0.79%	2.27%	2.16%	1.42%	3.66%	3.51%
2030	14,532	167,668	182,200	16,014	206,380	222,394	17,635	253,648	271,283	0.63%	1.34%	1.28%	1.26%	2.70%	2.59%	1.90%	4.07%	3.93%
2031	14,623	169,891	184,514	16,213	211,891	228,104	17,964	263,876	281,840	0.62%	1.33%	1.27%	1.24%	2.67%	2.57%	1.87%	4.03%	3.89%
2032	14,783	172,901	187,684	16,490	218,479	234,970	18,382	275,659	294,041	1.10%	1.77%	1.72%	1.71%	3.11%	3.01%	2.32%	4.47%	4.33%
2033	14,801	174,332	189,132	16,609	223,124	239,733	18,625	285,149	303,773	0.12%	0.83%	0.77%	0.72%	2.13%	2.03%	1.32%	3.44%	3.31%
2034	14,889	176,538	191,426	16,806	228,816	245,621	18,955	296,143	315,098	0.59%	1.27%	1.21%	1.18%	2.55%	2.46%	1.78%	3.86%	3.73%
2035	14,975	178,735	193,711	17,002	234,559	251,560	19,287	307,379	326,666	0.58%	1.24%	1.19%	1.17%	2.51%	2.42%	1.75%	3.79%	3.67%
2036	15,134	181,759	196,893	17,280	241,482	258,761	19,714	320,385	340,099	1.06%	1.69%	1.64%	1.64%	2.95%	2.86%	2.21%	4.23%	4.11%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	25	13	39	26	14	39	26	14	40	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	26	13	39	26	14	40	27	14	41	0.66%	1.19%	0.84%	1.33%	2.38%	1.69%	1.99%	3.57%	2.54%
2019	26	14	39	26	14	41	27	15	42	0.66%	1.19%	0.84%	1.33%	2.37%	1.69%	1.99%	3.56%	2.54%
2020	26	14	40	27	15	41	28	16	43	0.66%	1.18%	0.84%	1.32%	2.36%	1.69%	1.98%	3.55%	2.54%
2021	26	14	40	27	15	42	28	16	44	0.66%	1.18%	0.84%	1.32%	2.37%	1.69%	1.98%	3.55%	2.55%
2022	26	14	40	27	15	43	29	17	45	0.66%	1.18%	0.84%	1.32%	2.36%	1.69%	1.98%	3.55%	2.55%
2023	26	14	41	28	16	43	29	17	46	0.66%	1.18%	0.84%	1.31%	2.36%	1.69%	1.97%	3.54%	2.55%
2024	27	14	41	28	16	44	30	18	48	0.66%	1.18%	0.84%	1.31%	2.36%	1.69%	1.97%	3.54%	2.55%
2025	27	15	41	29	16	45	30	18	49	0.65%	1.17%	0.84%	1.30%	2.35%	1.68%	1.96%	3.53%	2.54%
2026	27	15	42	29	17	46	31	19	50	0.65%	1.17%	0.83%	1.30%	2.34%	1.68%	1.95%	3.51%	2.54%
2027	27	15	42	29	17	46	32	20	51	0.65%	1.16%	0.83%	1.29%	2.32%	1.67%	1.94%	3.49%	2.53%
2028	27	15	42	30	18	47	32	20	53	0.64%	1.16%	0.82%	1.28%	2.32%	1.66%	1.92%	3.48%	2.52%
2029	27	15	43	30	18	48	33	21	54	0.64%	1.14%	0.82%	1.27%	2.29%	1.65%	1.91%	3.44%	2.51%
2030	28	15	43	30	18	49	33	22	55	0.63%	1.13%	0.81%	1.26%	2.27%	1.64%	1.90%	3.41%	2.49%
2031	28	16	43	31	19	50	34	23	57	0.62%	1.12%	0.80%	1.24%	2.25%	1.62%	1.87%	3.38%	2.46%
2032	28	16	44	31	19	50	35	23	58	0.61%	1.10%	0.79%	1.22%	2.21%	1.60%	1.84%	3.33%	2.43%
2033	28	16	44	32	20	51	35	24	59	0.60%	1.09%	0.78%	1.20%	2.18%	1.58%	1.81%	3.28%	2.40%
2034	28	16	44	32	20	52	36	25	61	0.59%	1.07%	0.77%	1.18%	2.15%	1.56%	1.78%	3.24%	2.37%
2035	28	16	45	32	21	53	37	26	62	0.58%	1.06%	0.76%	1.17%	2.12%	1.54%	1.75%	3.19%	2.34%
2036	29	17	45	33	21	54	37	27	64	0.57%	1.04%	0.75%	1.15%	2.09%	1.52%	1.72%	3.15%	2.31%





20 Year Customer Growth Rate	
High:	59.50%
Medium:	36.31%
Low:	16.66%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

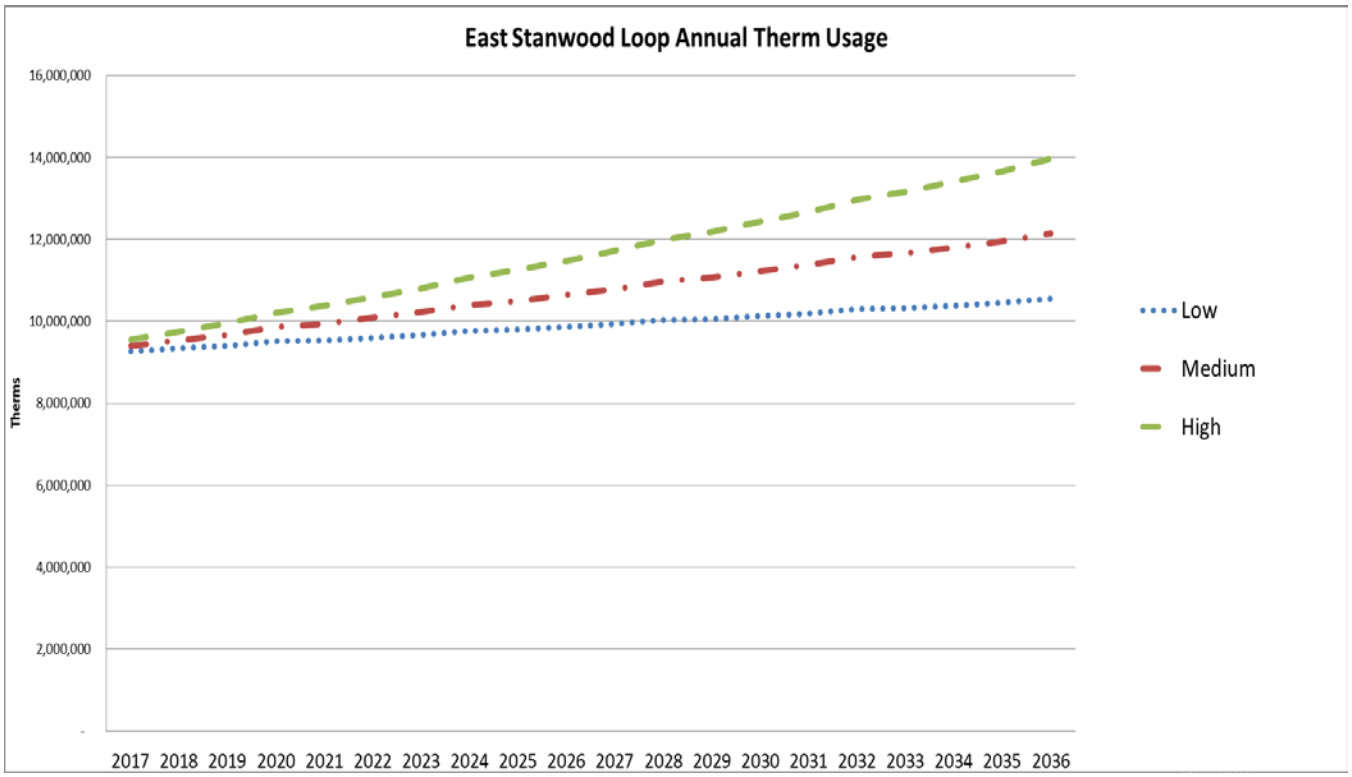
East Stanwood Loop

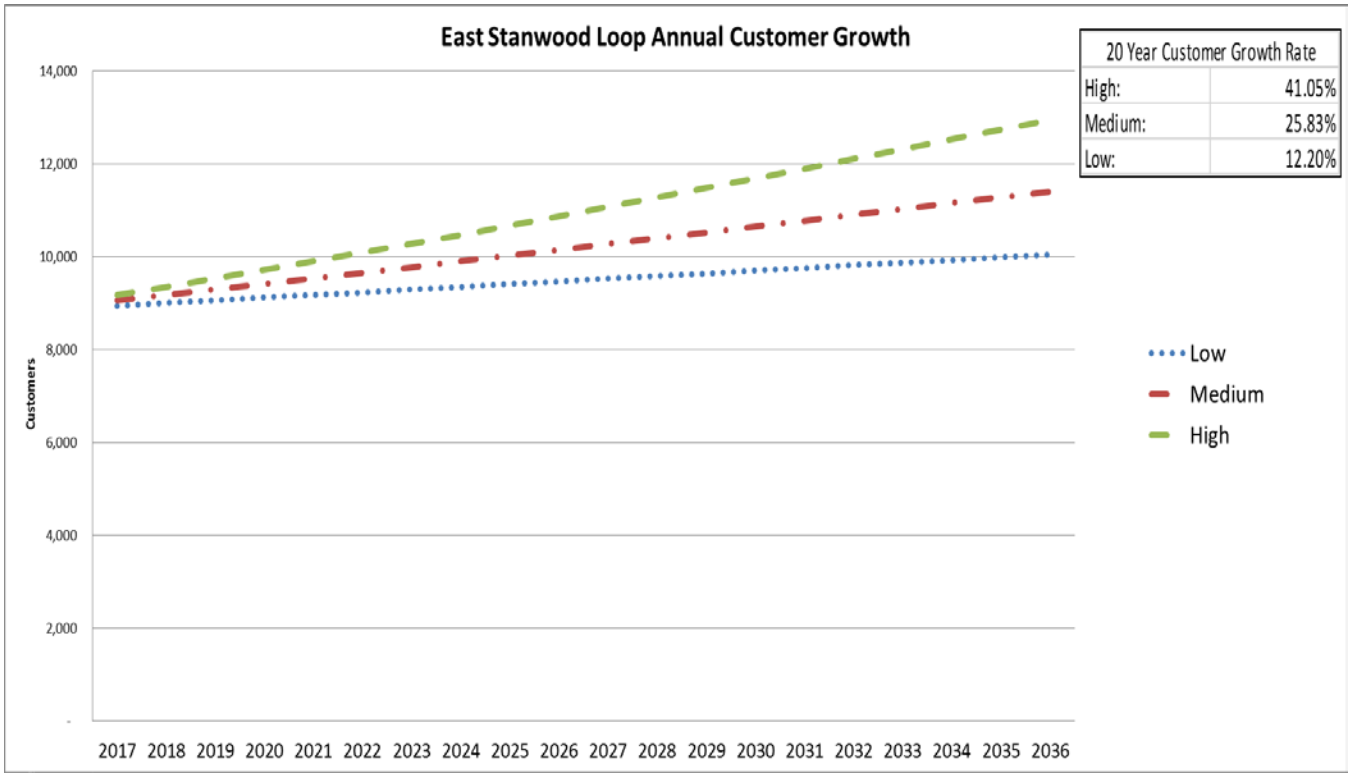
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	6,227,824	3,046,544	9,274,367	6,316,124	3,094,249	9,410,373	6,405,077	3,142,345	9,547,422	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	6,271,065	3,069,159	9,340,224	6,403,887	3,140,220	9,544,108	6,538,660	3,212,422	9,751,081	0.69%	0.74%	0.71%	1.39%	1.49%	1.42%	2.09%	2.23%	2.13%
2019	6,314,162	3,091,435	9,405,597	6,491,981	3,185,845	9,677,826	6,673,693	3,282,494	9,956,187	0.69%	0.73%	0.70%	1.38%	1.45%	1.40%	2.07%	2.18%	2.10%
2020	6,397,890	3,113,634	9,511,524	6,622,945	3,231,651	9,854,595	6,854,551	3,353,365	10,207,916	1.33%	0.72%	1.13%	2.02%	1.44%	1.83%	2.71%	2.16%	2.53%
2021	6,400,618	3,135,628	9,536,246	6,670,569	3,277,365	9,947,934	6,950,319	3,424,610	10,374,928	0.04%	0.71%	0.26%	0.72%	1.41%	0.95%	1.40%	2.12%	1.64%
2022	6,444,141	3,157,726	9,601,867	6,761,415	3,323,629	10,085,044	7,092,500	3,497,231	10,589,731	0.68%	0.70%	0.69%	1.36%	1.41%	1.38%	2.05%	2.12%	2.07%
2023	6,487,693	3,179,830	9,667,522	6,852,950	3,370,238	10,223,188	7,236,747	3,570,922	10,807,668	0.68%	0.70%	0.68%	1.35%	1.40%	1.37%	2.03%	2.11%	2.06%
2024	6,572,965	3,201,983	9,774,948	6,989,655	3,417,288	10,406,942	7,430,517	3,645,840	11,076,357	1.31%	0.70%	1.11%	1.99%	1.40%	1.80%	2.68%	2.10%	2.49%
2025	6,575,242	3,224,137	9,799,379	7,038,863	3,464,676	10,503,539	7,532,752	3,721,835	11,254,587	0.03%	0.69%	0.25%	0.70%	1.39%	0.93%	1.38%	2.08%	1.61%
2026	6,619,046	3,246,357	9,865,403	7,132,840	3,512,543	10,645,383	7,683,912	3,799,144	11,483,056	0.67%	0.69%	0.67%	1.34%	1.38%	1.35%	2.01%	2.08%	2.03%
2027	6,662,910	3,268,621	9,931,531	7,227,586	3,560,846	10,788,432	7,837,347	3,877,706	11,715,053	0.66%	0.69%	0.67%	1.33%	1.38%	1.34%	2.00%	2.07%	2.02%
2028	6,749,435	3,290,830	10,040,266	7,369,548	3,609,368	10,978,916	8,043,690	3,957,181	12,000,871	1.30%	0.68%	1.09%	1.96%	1.36%	1.77%	2.63%	2.05%	2.44%
2029	6,750,680	3,313,144	10,063,824	7,419,105	3,658,461	11,077,565	8,150,655	4,038,153	12,188,808	0.02%	0.68%	0.23%	0.67%	1.36%	0.90%	1.33%	2.05%	1.57%
2030	6,794,441	3,335,364	10,129,805	7,515,550	3,707,686	11,223,236	8,310,010	4,119,906	12,429,916	0.65%	0.67%	0.66%	1.30%	1.35%	1.32%	1.96%	2.02%	1.98%
2031	6,837,935	3,357,515	10,195,450	7,612,055	3,757,100	11,369,156	8,470,539	4,202,545	12,673,084	0.64%	0.66%	0.65%	1.28%	1.33%	1.30%	1.93%	2.01%	1.96%
2032	6,924,803	3,379,474	10,304,276	7,757,335	3,806,424	11,563,759	8,686,597	4,285,596	12,972,193	1.27%	0.65%	1.07%	1.91%	1.31%	1.71%	2.55%	1.98%	2.36%
2033	6,923,714	3,401,253	10,324,967	7,804,263	3,855,674	11,659,937	8,793,422	4,369,086	13,162,508	-0.02%	0.64%	0.20%	0.60%	1.29%	0.83%	1.23%	1.95%	1.47%
2034	6,966,110	3,422,978	10,389,088	7,900,186	3,905,128	11,805,315	8,956,131	4,453,481	13,409,613	0.61%	0.64%	0.62%	1.23%	1.28%	1.25%	1.85%	1.93%	1.88%
2035	7,008,279	3,444,629	10,452,909	7,996,218	3,954,749	11,950,966	9,120,080	4,538,733	13,658,812	0.61%	0.63%	0.61%	1.22%	1.27%	1.23%	1.83%	1.91%	1.86%
2036	7,094,983	3,466,184	10,561,166	8,143,604	4,004,468	12,148,072	9,343,914	4,624,710	13,968,624	1.24%	0.63%	1.04%	1.84%	1.26%	1.65%	2.45%	1.89%	2.27%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	8,347	84,404	92,750	8,477	85,617	94,094	8,609	86,839	95,448	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	8,409	84,994	93,402	8,603	86,815	95,418	8,801	88,663	97,464	0.74%	0.70%	0.70%	1.49%	1.40%	1.41%	2.23%	2.10%	2.11%
2019	8,470	85,581	94,050	8,728	88,015	96,743	8,993	90,503	99,496	0.73%	0.69%	0.69%	1.45%	1.38%	1.39%	2.18%	2.08%	2.08%
2020	8,531	86,169	94,699	8,854	89,226	98,080	9,187	92,373	101,560	0.72%	0.69%	0.69%	1.44%	1.38%	1.38%	2.16%	2.07%	2.07%
2021	8,591	86,755	95,346	8,979	90,442	99,421	9,382	94,263	103,646	0.71%	0.68%	0.68%	1.41%	1.36%	1.37%	2.12%	2.05%	2.05%
2022	8,651	87,346	95,997	9,106	91,674	100,780	9,581	96,193	105,774	0.70%	0.68%	0.68%	1.41%	1.36%	1.37%	2.12%	2.05%	2.05%
2023	8,712	87,936	96,648	9,234	92,916	102,150	9,783	98,151	107,934	0.70%	0.68%	0.68%	1.40%	1.35%	1.36%	2.11%	2.04%	2.04%
2024	8,773	88,529	97,301	9,362	94,171	103,533	9,989	100,142	110,130	0.70%	0.67%	0.68%	1.40%	1.35%	1.35%	2.10%	2.03%	2.03%
2025	8,833	89,123	97,956	9,492	95,437	104,929	10,197	102,166	112,362	0.69%	0.67%	0.67%	1.39%	1.34%	1.35%	2.08%	2.02%	2.03%
2026	8,894	89,717	98,611	9,623	96,712	106,336	10,409	104,217	114,626	0.69%	0.67%	0.67%	1.38%	1.34%	1.34%	2.08%	2.01%	2.01%
2027	8,955	90,312	99,267	9,756	97,998	107,753	10,624	106,299	116,923	0.69%	0.66%	0.67%	1.38%	1.33%	1.33%	2.07%	2.00%	2.00%
2028	9,016	90,906	99,922	9,889	99,290	109,179	10,842	108,408	119,249	0.68%	0.66%	0.66%	1.36%	1.32%	1.32%	2.05%	1.98%	1.99%
2029	9,077	91,502	100,579	10,023	100,595	110,618	11,063	110,551	121,614	0.68%	0.66%	0.66%	1.36%	1.31%	1.32%	2.05%	1.98%	1.98%
2030	9,138	92,096	101,234	10,158	101,904	112,062	11,287	112,713	124,001	0.67%	0.65%	0.65%	1.35%	1.30%	1.30%	2.02%	1.96%	1.96%
2031	9,199	92,686	101,884	10,293	103,214	113,507	11,514	114,893	126,407	0.66%	0.64%	0.64%	1.33%	1.29%	1.29%	2.01%	1.93%	1.94%
2032	9,259	93,270	102,529	10,429	104,519	114,948	11,741	117,080	128,822	0.65%	0.63%	0.63%	1.31%	1.27%	1.27%	1.98%	1.90%	1.91%
2033	9,319	93,850	103,168	10,563	105,823	116,386	11,970	119,277	131,248	0.64%	0.62%	0.62%	1.29%	1.25%	1.25%	1.95%	1.88%	1.88%
2034	9,378	94,425	103,803	10,699	107,126	117,825	12,201	121,489	133,690	0.64%	0.61%	0.62%	1.28%	1.23%	1.24%	1.93%	1.85%	1.86%
2035	9,437	94,998	104,435	10,835	108,431	119,266	12,435	123,717	136,152	0.63%	0.61%	0.61%	1.27%	1.22%	1.22%	1.91%	1.83%	1.84%
2036	9,496	95,567	105,063	10,971	109,734	120,705	12,670	125,957	138,627	0.63%	0.60%	0.60%	1.26%	1.20%	1.21%	1.89%	1.81%	1.82%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	5,408,017	3,866,350	9,274,367	5,474,108	3,936,265	9,410,373	5,540,599	4,006,823	9,547,422	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	5,441,133	3,899,090	9,340,224	5,541,149	4,002,958	9,544,108	5,642,383	4,108,698	9,751,081	0.61%	0.85%	0.71%	1.22%	1.69%	1.42%	1.84%	2.54%	2.13%
2019	5,474,433	3,931,164	9,405,597	5,608,972	4,068,854	9,677,826	5,745,976	4,210,211	9,956,187	0.61%	0.82%	0.70%	1.22%	1.65%	1.40%	1.84%	2.47%	2.10%
2020	5,532,644	3,978,880	9,511,524	5,703,035	4,151,561	9,854,595	5,877,598	4,330,318	10,207,916	1.06%	1.21%	1.13%	1.68%	2.03%	1.83%	2.29%	2.85%	2.53%
2021	5,541,466	3,994,780	9,536,246	5,746,751	4,201,183	9,947,934	5,958,335	4,416,593	10,374,928	0.16%	0.40%	0.26%	0.77%	1.20%	0.95%	1.37%	1.99%	1.64%
2022	5,575,192	4,026,676	9,601,867	5,816,702	4,268,342	10,085,044	6,067,125	4,522,606	10,589,731	0.61%	0.80%	0.69%	1.22%	1.60%	1.38%	1.83%	2.40%	2.07%
2023	5,609,029	4,058,494	9,667,522	5,887,307	4,335,880	10,223,188	6,177,592	4,630,076	10,807,668	0.61%	0.79%	0.68%	1.21%	1.58%	1.37%	1.82%	2.38%	2.06%
2024	5,668,367	4,106,581	9,774,948	5,985,398	4,421,544	10,406,942	6,318,095	4,758,262	11,076,357	1.06%	1.18%	1.11%	1.67%	1.98%	1.80%	2.27%	2.77%	2.49%
2025	5,676,995	4,122,384	9,799,379	6,030,414	4,473,125	10,503,539	6,403,512	4,851,075	11,254,587	0.15%	0.38%	0.25%	0.75%	1.17%	0.93%	1.35%	1.95%	1.61%
2026	5,711,005	4,154,398	9,865,403	6,102,669	4,542,714	10,645,383	6,518,600	4,964,456	11,483,056	0.60%	0.78%	0.67%	1.20%	1.56%	1.35%	1.80%	2.34%	2.03%
2027	5,745,012	4,186,519	9,931,531	6,175,345	4,613,086	10,788,432	6,635,045	5,080,008	11,715,053	0.60%	0.77%	0.67%	1.19%	1.55%	1.34%	1.79%	2.33%	2.02%
2028	5,804,938	4,235,328	10,040,266	6,276,408	4,702,508	10,978,916	6,783,006	5,217,865	12,000,871	1.04%	1.17%	1.09%	1.64%	1.94%	1.77%	2.23%	2.71%	2.44%
2029	5,812,876	4,250,948	10,063,824	6,321,669	4,755,896	11,077,565	6,871,559	5,317,249	12,188,808	0.14%	0.37%	0.23%	0.72%	1.14%	0.90%	1.31%	1.90%	1.57%
2030	5,846,744	4,283,061	10,129,805	6,395,334	4,827,902	11,223,236	6,991,669	5,438,247	12,429,916	0.58%	0.76%	0.66%	1.17%	1.51%	1.32%	1.75%	2.28%	1.98%
2031	5,880,210	4,315,240	10,195,450	6,468,546	4,900,609	11,369,156	7,111,727	5,561,356	12,673,084	0.57%	0.75%	0.65%	1.14%	1.51%	1.30%	1.72%	2.26%	1.96%
2032	5,939,852	4,364,424	10,304,276	6,570,680	4,993,079	11,563,759	7,264,172	5,708,021	12,972,193	1.01%	1.14%	1.07%	1.58%	1.89%	1.71%	2.14%	2.64%	2.36%
2033	5,945,945	4,379,022	10,324,967	6,613,573	5,046,364	11,659,937	7,351,560	5,810,947	13,162,508	0.10%	0.33%	0.20%	0.65%	1.07%	0.83%	1.20%	1.80%	1.47%
2034	5,978,233	4,410,854	10,389,088	6,685,400	5,119,915	11,805,315	7,471,323	5,938,290	13,409,613	0.54%	0.73%	0.62%	1.09%	1.46%	1.25%	1.63%	2.19%	1.88%
2035	6,010,140	4,442,769	10,452,909	6,756,761	5,194,206	11,950,966	7,590,948	6,067,864	13,658,812	0.53%	0.72%	0.61%	1.07%	1.45%	1.23%	1.60%	2.18%	1.86%
2036	6,068,876	4,492,290	10,561,166	6,858,445	5,289,627	12,148,072	7,745,239	6,223,385	13,968,624	0.98%	1.11%	1.04%	1.50%	1.84%	1.65%	2.03%	2.56%	2.27%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	8,005	945	8,950	8,103	963	9,066	8,201	981	9,182	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	8,054	953	9,007	8,202	980	9,182	8,352	1,007	9,359	0.61%	0.88%	0.64%	1.22%	1.76%	1.28%	1.84%	2.64%	1.92%
2019	8,103	961	9,065	8,303	996	9,299	8,505	1,032	9,538	0.61%	0.85%	0.64%	1.22%	1.71%	1.28%	1.84%	2.56%	1.91%
2020	8,153	970	9,122	8,404	1,013	9,417	8,661	1,058	9,720	0.61%	0.85%	0.64%	1.22%	1.69%	1.27%	1.83%	2.54%	1.91%
2021	8,203	978	9,180	8,507	1,030	9,537	8,820	1,085	9,905	0.61%	0.83%	0.63%	1.22%	1.65%	1.27%	1.83%	2.48%	1.90%
2022	8,253	986	9,238	8,610	1,047	9,657	8,981	1,112	10,092	0.61%	0.83%	0.63%	1.22%	1.66%	1.26%	1.83%	2.48%	1.90%
2023	8,303	994	9,296	8,715	1,064	9,779	9,144	1,139	10,283	0.61%	0.82%	0.63%	1.21%	1.64%	1.26%	1.82%	2.45%	1.89%
2024	8,353	1,002	9,355	8,820	1,081	9,902	9,310	1,167	10,477	0.61%	0.81%	0.63%	1.21%	1.62%	1.26%	1.82%	2.44%	1.89%
2025	8,403	1,010	9,413	8,926	1,099	10,025	9,479	1,195	10,674	0.60%	0.81%	0.62%	1.21%	1.62%	1.25%	1.81%	2.43%	1.88%
2026	8,454	1,018	9,472	9,033	1,117	10,150	9,649	1,224	10,873	0.60%	0.80%	0.62%	1.20%	1.60%	1.24%	1.80%	2.41%	1.87%
2027	8,504	1,026	9,530	9,141	1,134	10,275	9,821	1,253	11,075	0.60%	0.80%	0.62%	1.19%	1.60%	1.24%	1.79%	2.40%	1.86%
2028	8,554	1,034	9,588	9,249	1,152	10,401	9,996	1,283	11,278	0.59%	0.79%	0.61%	1.18%	1.58%	1.23%	1.77%	2.38%	1.84%
2029	8,604	1,042	9,647	9,358	1,171	10,528	10,172	1,313	11,485	0.59%	0.79%	0.61%	1.17%	1.58%	1.22%	1.76%	2.38%	1.83%
2030	8,655	1,051	9,705	9,467	1,189	10,656	10,349	1,344	11,694	0.58%	0.78%	0.60%	1.17%	1.56%	1.21%	1.75%	2.34%	1.82%
2031	8,704	1,059	9,763	9,575	1,207	10,782	10,527	1,375	11,903	0.57%	0.78%	0.59%	1.14%	1.55%	1.19%	1.72%	2.33%	1.79%
2032	8,753	1,067	9,820	9,683	1,226	10,908	10,705	1,407	12,112	0.56%	0.77%	0.58%	1.12%	1.53%	1.17%	1.69%	2.30%	1.76%
2033	8,801	1,075	9,876	9,790	1,244	11,034	10,882	1,439	12,321	0.55%	0.76%	0.57%	1.11%	1.51%	1.15%	1.66%	2.27%	1.73%
2034	8,849	1,083	9,932	9,896	1,263	11,159	11,059	1,471	12,531	0.54%	0.75%	0.57%	1.09%	1.50%	1.13%	1.63%	2.25%	1.70%
2035	8,896	1,091	9,987	10,002	1,282	11,284	11,236	1,504	12,741	0.53%	0.75%	0.56%	1.07%	1.50%	1.12%	1.60%	2.25%	1.68%
2036	8,943	1,099	10,042	10,107	1,301	11,408	11,413	1,538	12,951	0.53%	0.74%	0.55%	1.05%	1.48%	1.10%	1.58%	2.22%	1.65%





20 Year Customer Growth Rate	
High:	41.05%
Medium:	25.83%
Low:	12.20%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

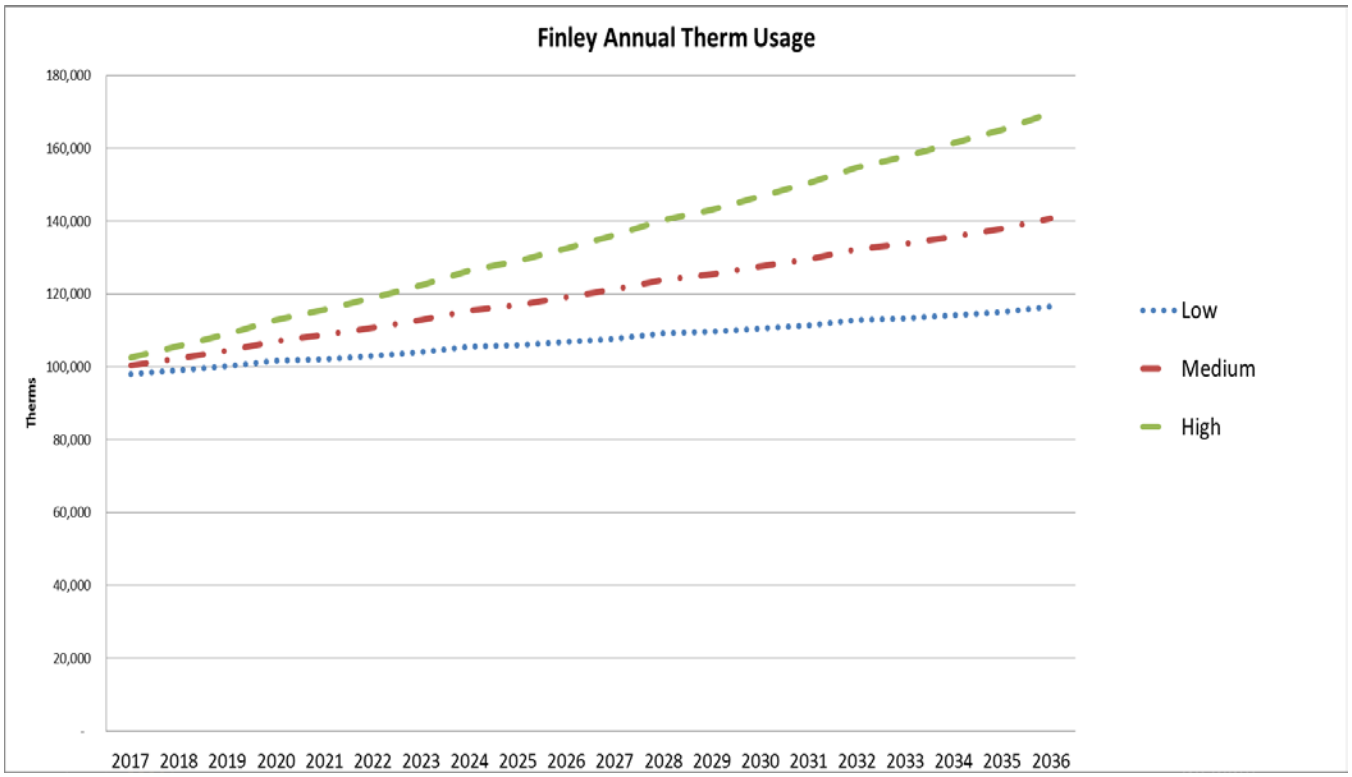
Finley

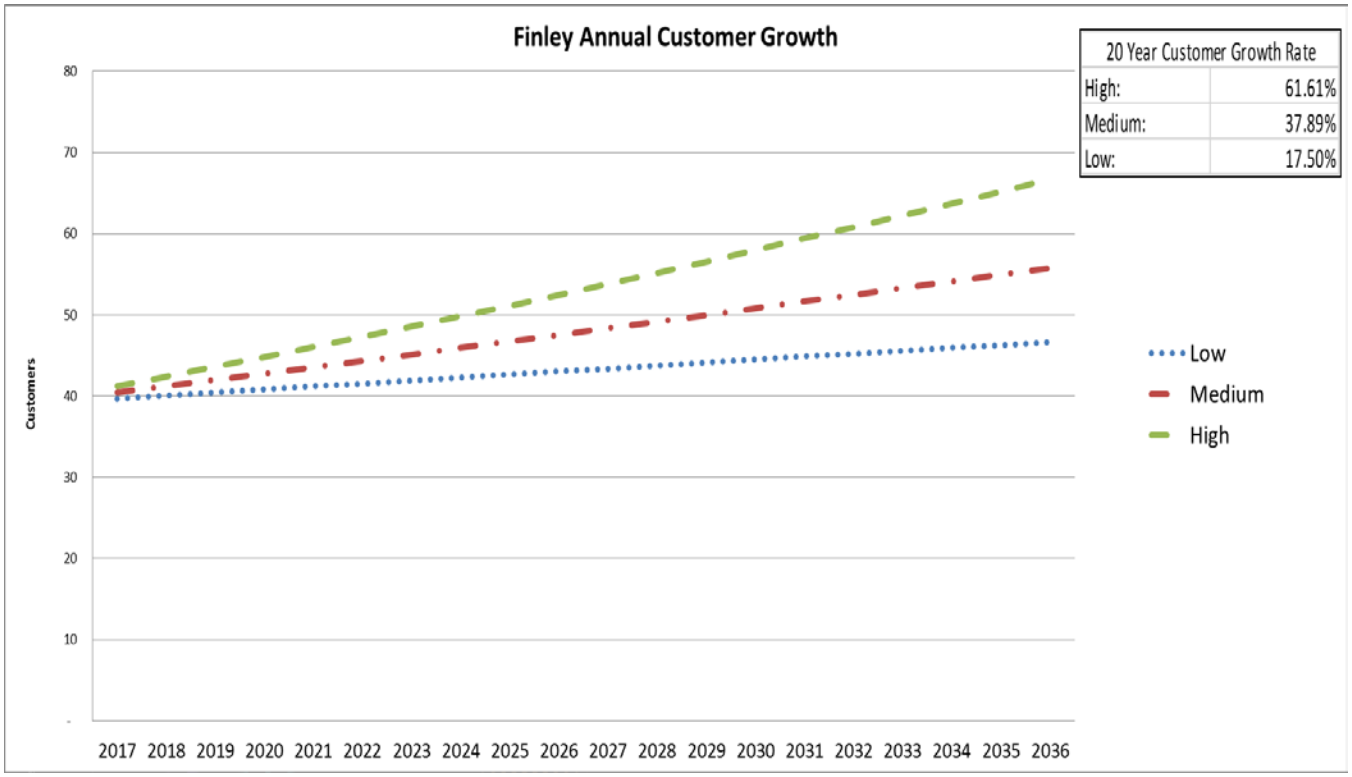
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	84,146	13,888	98,034	86,101	14,204	100,305	88,079	14,524	102,602	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	85,038	14,033	99,071	87,927	14,501	102,427	90,880	14,979	105,860	1.06%	1.05%	1.06%	2.12%	2.09%	2.12%	3.18%	3.14%	3.17%
2019	85,911	14,175	100,086	89,731	14,795	104,526	93,679	15,435	109,114	1.03%	1.01%	1.02%	2.05%	2.03%	2.05%	3.08%	3.04%	3.07%
2020	87,302	14,315	101,617	92,087	15,088	107,175	97,081	15,894	112,974	1.62%	0.99%	1.53%	2.63%	1.98%	2.53%	3.63%	2.97%	3.54%
2021	87,619	14,454	102,073	93,318	15,380	108,698	99,323	16,356	115,679	0.36%	0.97%	0.45%	1.34%	1.94%	1.42%	2.31%	2.91%	2.39%
2022	88,461	14,592	103,052	95,111	15,674	110,785	102,188	16,824	119,012	0.96%	0.95%	0.96%	1.92%	1.91%	1.92%	2.88%	2.86%	2.88%
2023	89,294	14,728	104,022	96,903	15,967	112,870	105,075	17,296	122,372	0.94%	0.94%	0.94%	1.88%	1.87%	1.88%	2.83%	2.81%	2.82%
2024	90,673	14,864	105,537	99,303	16,261	115,564	108,658	17,774	126,432	1.55%	0.92%	1.46%	2.48%	1.84%	2.39%	3.41%	2.76%	3.32%
2025	90,936	14,998	105,934	100,484	16,554	117,039	110,928	18,255	129,183	0.29%	0.90%	0.38%	1.19%	1.80%	1.28%	2.09%	2.70%	2.18%
2026	91,747	15,131	106,878	102,277	16,848	119,125	113,896	18,741	132,638	0.89%	0.89%	0.89%	1.78%	1.78%	1.78%	2.68%	2.67%	2.67%
2027	92,552	15,263	107,816	104,072	17,143	121,215	116,895	19,233	136,129	0.88%	0.87%	0.88%	1.76%	1.75%	1.75%	2.63%	2.63%	2.63%
2028	93,922	15,395	109,317	106,515	17,438	123,953	120,653	19,730	140,383	1.48%	0.86%	1.39%	2.35%	1.72%	2.26%	3.21%	2.58%	3.12%
2029	94,142	15,525	109,667	107,664	17,733	125,397	122,972	20,231	143,204	0.23%	0.85%	0.32%	1.08%	1.70%	1.16%	1.92%	2.54%	2.01%
2030	94,928	15,655	110,583	109,461	18,029	127,491	126,053	20,738	146,790	0.83%	0.83%	0.83%	1.67%	1.67%	1.67%	2.50%	2.50%	2.50%
2031	95,705	15,783	111,488	111,253	18,324	129,577	129,147	21,246	150,394	0.82%	0.82%	0.82%	1.64%	1.64%	1.64%	2.46%	2.45%	2.45%
2032	97,071	15,910	112,981	113,746	18,620	132,367	133,093	21,762	154,854	1.43%	0.81%	1.34%	2.24%	1.62%	2.15%	3.05%	2.42%	2.97%
2033	97,245	16,036	113,282	114,848	18,916	133,764	135,432	22,280	157,712	0.18%	0.79%	0.27%	0.97%	1.59%	1.06%	1.76%	2.38%	1.85%
2034	98,004	16,162	114,166	116,641	19,211	135,852	138,603	22,801	161,405	0.78%	0.78%	0.78%	1.56%	1.56%	1.56%	2.34%	2.34%	2.34%
2035	98,757	16,286	115,043	118,434	19,507	137,940	141,799	23,327	165,126	0.77%	0.77%	0.77%	1.54%	1.54%	1.54%	2.31%	2.31%	2.31%
2036	100,115	16,409	116,524	120,962	19,802	140,764	145,905	23,856	169,761	1.37%	0.76%	1.29%	2.13%	1.51%	2.05%	2.90%	2.27%	2.81%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	38	1,636	1,674	39	1,674	1,713	40	1,713	1,753	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	38	1,654	1,692	40	1,710	1,750	41	1,768	1,809	1.05%	1.06%	1.06%	2.09%	2.12%	2.12%	3.14%	3.18%	3.18%
2019	39	1,671	1,710	41	1,745	1,786	42	1,822	1,864	1.01%	1.03%	1.03%	2.03%	2.05%	2.05%	3.04%	3.08%	3.08%
2020	39	1,687	1,727	41	1,780	1,821	44	1,877	1,920	0.99%	1.00%	1.00%	1.98%	2.00%	2.00%	2.97%	3.00%	3.00%
2021	40	1,704	1,744	42	1,815	1,857	45	1,932	1,977	0.97%	0.98%	0.98%	1.94%	1.96%	1.96%	2.91%	2.94%	2.94%
2022	40	1,720	1,760	43	1,850	1,893	46	1,988	2,034	0.95%	0.96%	0.96%	1.91%	1.92%	1.92%	2.86%	2.89%	2.89%
2023	40	1,737	1,777	44	1,885	1,928	47	2,044	2,091	0.94%	0.94%	0.94%	1.87%	1.88%	1.88%	2.81%	2.83%	2.83%
2024	41	1,753	1,793	45	1,920	1,964	49	2,101	2,149	0.92%	0.93%	0.93%	1.84%	1.85%	1.85%	2.76%	2.78%	2.78%
2025	41	1,769	1,810	45	1,954	2,000	50	2,158	2,208	0.90%	0.91%	0.91%	1.80%	1.81%	1.81%	2.70%	2.72%	2.72%
2026	41	1,784	1,826	46	1,989	2,035	51	2,215	2,267	0.89%	0.89%	0.89%	1.78%	1.78%	1.78%	2.67%	2.68%	2.68%
2027	42	1,800	1,842	47	2,024	2,071	53	2,274	2,327	0.87%	0.88%	0.88%	1.75%	1.76%	1.76%	2.63%	2.63%	2.63%
2028	42	1,815	1,858	48	2,059	2,107	54	2,333	2,387	0.86%	0.86%	0.86%	1.72%	1.72%	1.72%	2.58%	2.59%	2.59%
2029	43	1,831	1,873	49	2,094	2,143	55	2,392	2,448	0.85%	0.85%	0.85%	1.70%	1.70%	1.70%	2.54%	2.55%	2.55%
2030	43	1,846	1,889	49	2,129	2,178	57	2,452	2,509	0.83%	0.83%	0.83%	1.67%	1.67%	1.67%	2.50%	2.51%	2.50%
2031	43	1,861	1,905	50	2,164	2,214	58	2,512	2,570	0.82%	0.82%	0.82%	1.64%	1.64%	1.64%	2.45%	2.46%	2.46%
2032	44	1,876	1,920	51	2,199	2,250	60	2,573	2,633	0.81%	0.81%	0.81%	1.62%	1.62%	1.62%	2.42%	2.43%	2.43%
2033	44	1,891	1,935	52	2,234	2,286	61	2,634	2,695	0.79%	0.79%	0.79%	1.59%	1.59%	1.59%	2.38%	2.38%	2.38%
2034	44	1,906	1,950	53	2,269	2,321	62	2,696	2,759	0.78%	0.78%	0.78%	1.56%	1.56%	1.56%	2.34%	2.34%	2.34%
2035	45	1,921	1,965	53	2,304	2,357	64	2,758	2,822	0.77%	0.77%	0.77%	1.54%	1.54%	1.54%	2.31%	2.31%	2.31%
2036	45	1,935	1,980	54	2,338	2,393	65	2,821	2,886	0.76%	0.76%	0.76%	1.51%	1.51%	1.51%	2.27%	2.27%	2.27%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	13,667	84,366	98,034	13,905	86,400	100,305	14,145	88,457	102,602	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	13,786	85,284	99,071	14,147	88,280	102,427	14,515	91,345	105,860	0.87%	1.09%	1.06%	1.74%	2.18%	2.12%	2.61%	3.26%	3.17%
2019	13,906	86,179	100,086	14,394	90,133	104,526	14,894	94,221	109,114	0.87%	1.05%	1.02%	1.74%	2.10%	2.05%	2.61%	3.15%	3.07%
2020	14,099	87,518	101,617	14,719	92,456	107,175	15,360	97,614	112,974	1.39%	1.55%	1.53%	2.26%	2.58%	2.53%	3.13%	3.60%	3.54%
2021	14,148	87,925	102,073	14,896	93,802	108,698	15,677	100,002	115,679	0.35%	0.47%	0.45%	1.21%	1.46%	1.42%	2.07%	2.45%	2.39%
2022	14,270	88,782	103,052	15,153	95,632	110,785	16,083	102,929	119,012	0.86%	0.98%	0.96%	1.72%	1.95%	1.92%	2.59%	2.93%	2.88%
2023	14,393	89,629	104,022	15,414	97,456	112,870	16,497	105,874	122,372	0.86%	0.95%	0.94%	1.72%	1.91%	1.88%	2.58%	2.86%	2.82%
2024	14,591	90,946	105,537	15,759	99,806	115,564	17,008	109,423	126,432	1.38%	1.47%	1.46%	2.24%	2.41%	2.39%	3.10%	3.35%	3.32%
2025	14,639	91,294	105,934	15,944	101,094	117,039	17,353	111,830	129,183	0.33%	0.38%	0.38%	1.18%	1.29%	1.28%	2.03%	2.20%	2.18%
2026	14,763	92,115	106,878	16,214	102,911	119,125	17,794	114,844	132,638	0.85%	0.90%	0.89%	1.69%	1.80%	1.78%	2.54%	2.70%	2.67%
2027	14,888	92,928	107,816	16,487	104,728	121,215	18,243	117,885	136,129	0.84%	0.88%	0.88%	1.68%	1.77%	1.75%	2.53%	2.65%	2.63%
2028	15,090	94,227	109,317	16,850	107,103	123,953	18,798	121,585	140,383	1.36%	1.40%	1.39%	2.20%	2.27%	2.26%	3.04%	3.14%	3.12%
2029	15,137	94,531	109,667	17,041	108,356	125,397	19,167	124,037	143,204	0.31%	0.32%	0.32%	1.14%	1.17%	1.16%	1.96%	2.02%	2.01%
2030	15,262	95,321	110,583	17,322	110,168	127,491	19,641	127,149	146,790	0.82%	0.84%	0.83%	1.65%	1.67%	1.67%	2.47%	2.51%	2.50%
2031	15,386	96,102	111,488	17,604	111,973	129,577	20,120	130,274	150,394	0.81%	0.82%	0.82%	1.63%	1.64%	1.64%	2.44%	2.46%	2.45%
2032	15,589	97,392	112,981	17,979	114,388	132,367	20,710	134,144	154,854	1.32%	1.34%	1.34%	2.13%	2.16%	2.15%	2.93%	2.97%	2.97%
2033	15,631	97,650	113,282	18,169	115,595	133,764	21,092	136,620	157,712	0.27%	0.26%	0.27%	1.06%	1.06%	1.06%	1.84%	1.85%	1.85%
2034	15,753	98,413	114,166	18,452	117,400	135,852	21,585	139,820	161,405	0.78%	0.78%	0.78%	1.56%	1.56%	1.56%	2.34%	2.34%	2.34%
2035	15,874	99,169	115,043	18,736	119,204	137,940	22,082	143,044	165,126	0.77%	0.77%	0.77%	1.54%	1.54%	1.54%	2.31%	2.31%	2.31%
2036	16,077	100,446	116,524	19,118	121,645	140,764	22,702	147,059	169,761	1.28%	1.29%	1.29%	2.04%	2.05%	2.05%	2.80%	2.81%	2.81%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	26	13	40	27	14	40	27	14	41	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	27	14	40	27	14	41	28	15	42	0.87%	1.09%	0.94%	1.74%	2.18%	1.89%	2.61%	3.26%	2.84%
2019	27	14	40	28	14	42	29	15	44	0.87%	1.05%	0.93%	1.74%	2.10%	1.86%	2.61%	3.15%	2.79%
2020	27	14	41	28	15	43	29	15	45	0.87%	1.02%	0.92%	1.73%	2.04%	1.84%	2.60%	3.06%	2.76%
2021	27	14	41	29	15	44	30	16	46	0.86%	1.00%	0.91%	1.73%	1.99%	1.82%	2.59%	2.99%	2.73%
2022	27	14	42	29	15	44	31	16	47	0.86%	0.98%	0.90%	1.72%	1.95%	1.80%	2.59%	2.93%	2.70%
2023	28	14	42	30	15	45	32	17	49	0.86%	0.95%	0.89%	1.72%	1.91%	1.78%	2.58%	2.86%	2.68%
2024	28	14	42	30	16	46	33	17	50	0.86%	0.94%	0.88%	1.71%	1.87%	1.77%	2.57%	2.81%	2.65%
2025	28	15	43	31	16	47	33	18	51	0.85%	0.91%	0.87%	1.70%	1.83%	1.75%	2.56%	2.74%	2.62%
2026	28	15	43	31	16	48	34	18	52	0.85%	0.90%	0.86%	1.69%	1.80%	1.73%	2.54%	2.70%	2.59%
2027	29	15	43	32	17	48	35	19	54	0.84%	0.88%	0.86%	1.68%	1.77%	1.71%	2.53%	2.65%	2.57%
2028	29	15	44	32	17	49	36	19	55	0.84%	0.87%	0.85%	1.67%	1.73%	1.69%	2.51%	2.60%	2.54%
2029	29	15	44	33	17	50	37	20	57	0.83%	0.85%	0.84%	1.66%	1.70%	1.68%	2.49%	2.56%	2.51%
2030	29	15	44	33	18	51	38	20	58	0.82%	0.84%	0.83%	1.65%	1.67%	1.66%	2.47%	2.51%	2.49%
2031	30	15	45	34	18	52	39	21	59	0.81%	0.82%	0.81%	1.63%	1.64%	1.63%	2.44%	2.46%	2.44%
2032	30	15	45	34	18	52	40	21	61	0.80%	0.81%	0.80%	1.60%	1.62%	1.61%	2.40%	2.43%	2.41%
2033	30	16	46	35	18	53	41	22	62	0.79%	0.79%	0.79%	1.58%	1.59%	1.58%	2.37%	2.38%	2.38%
2034	30	16	46	35	19	54	42	22	64	0.78%	0.78%	0.78%	1.56%	1.56%	1.56%	2.34%	2.34%	2.34%
2035	31	16	46	36	19	55	42	23	65	0.77%	0.77%	0.77%	1.54%	1.54%	1.54%	2.31%	2.31%	2.31%
2036	31	16	47	37	19	56	43	23	67	0.76%	0.76%	0.76%	1.52%	1.51%	1.52%	2.28%	2.27%	2.27%





20 Year Customer Growth Rate	
High:	61.61%
Medium:	37.89%
Low:	17.50%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

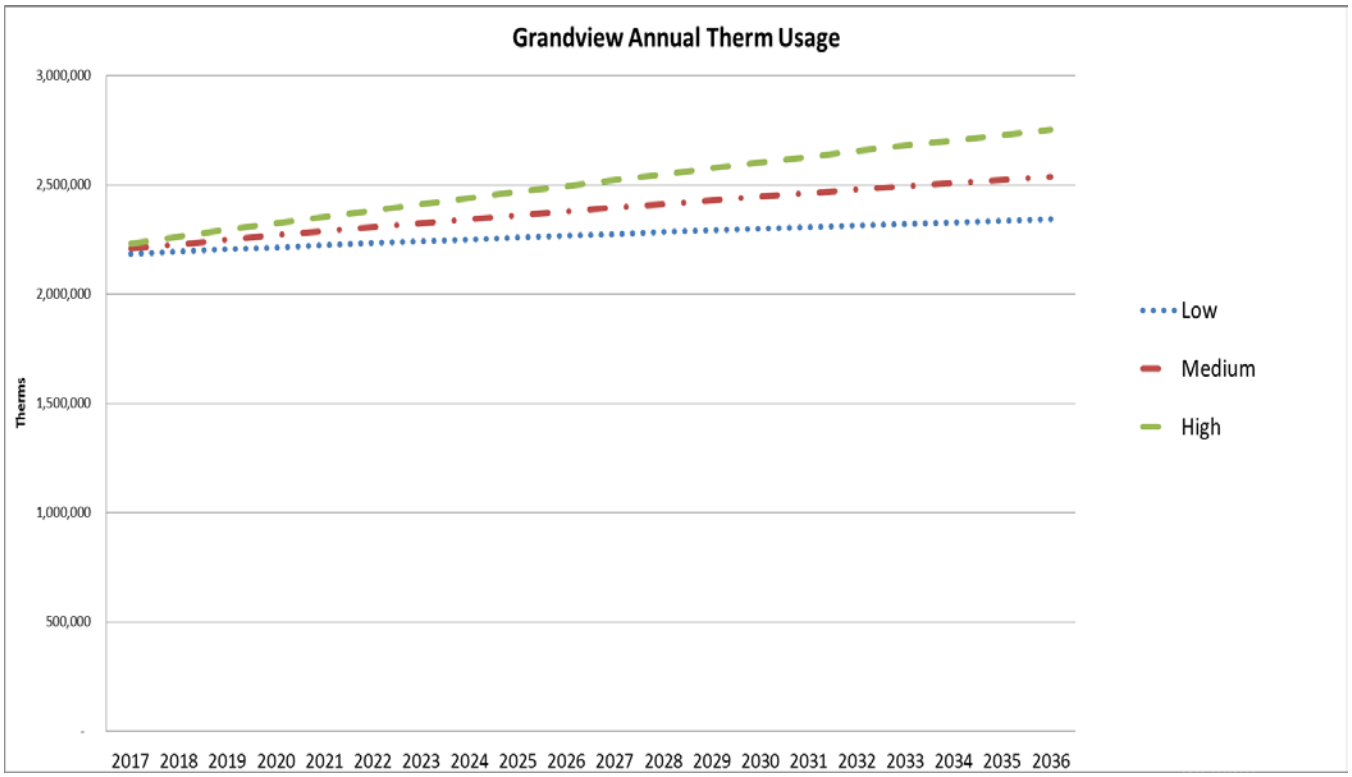
Grandview

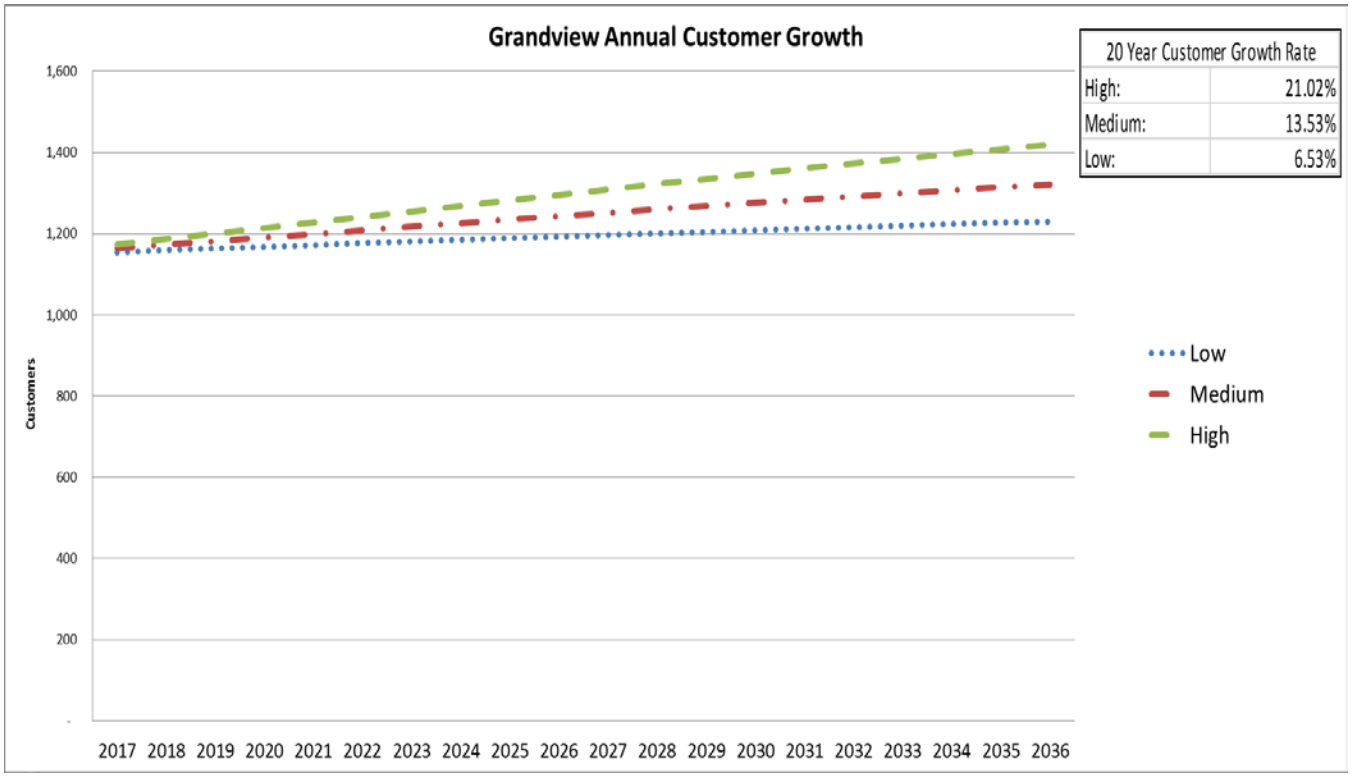
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	1,634,583	549,872	2,184,455	1,652,182	555,378	2,207,560	1,669,886	560,915	2,230,801	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,642,563	552,269	2,194,833	1,668,334	560,226	2,228,560	1,694,406	568,265	2,262,671	0.49%	0.44%	0.48%	0.98%	0.87%	0.95%	1.47%	1.31%	1.43%
2019	1,650,266	554,522	2,204,788	1,684,011	564,801	2,248,812	1,718,331	575,234	2,293,565	0.47%	0.41%	0.45%	0.94%	0.82%	0.91%	1.41%	1.23%	1.37%
2020	1,657,739	556,644	2,214,383	1,699,298	569,132	2,268,430	1,741,784	581,862	2,323,646	0.45%	0.38%	0.44%	0.91%	0.77%	0.87%	1.36%	1.15%	1.31%
2021	1,665,016	558,665	2,223,681	1,714,260	573,274	2,287,534	1,764,854	588,229	2,353,082	0.44%	0.36%	0.42%	0.88%	0.73%	0.84%	1.32%	1.09%	1.27%
2022	1,672,136	560,580	2,232,716	1,728,972	577,216	2,306,188	1,787,652	594,314	2,381,967	0.43%	0.34%	0.41%	0.86%	0.69%	0.82%	1.29%	1.03%	1.23%
2023	1,679,134	562,419	2,241,554	1,743,505	581,018	2,324,523	1,810,284	600,209	2,410,492	0.42%	0.33%	0.40%	0.84%	0.66%	0.80%	1.27%	0.99%	1.20%
2024	1,686,028	564,184	2,250,212	1,757,891	584,682	2,342,572	1,832,796	605,912	2,438,709	0.41%	0.31%	0.39%	0.83%	0.63%	0.78%	1.24%	0.95%	1.17%
2025	1,692,814	565,889	2,258,704	1,772,120	588,237	2,360,356	1,855,171	611,470	2,466,641	0.40%	0.30%	0.38%	0.81%	0.61%	0.76%	1.22%	0.92%	1.15%
2026	1,699,487	567,535	2,267,022	1,786,178	591,681	2,377,859	1,877,385	616,877	2,494,262	0.39%	0.29%	0.37%	0.79%	0.59%	0.74%	1.20%	0.88%	1.12%
2027	1,706,048	569,126	2,275,174	1,800,068	595,024	2,395,092	1,899,436	622,147	2,521,583	0.39%	0.28%	0.36%	0.78%	0.57%	0.72%	1.17%	0.85%	1.10%
2028	1,712,506	570,667	2,283,173	1,813,803	598,277	2,412,080	1,921,345	627,297	2,548,642	0.38%	0.27%	0.35%	0.76%	0.55%	0.71%	1.15%	0.83%	1.07%
2029	1,718,860	572,167	2,291,027	1,827,379	601,456	2,428,834	1,943,101	632,348	2,575,449	0.37%	0.26%	0.34%	0.75%	0.53%	0.69%	1.13%	0.81%	1.05%
2030	1,725,101	573,621	2,298,722	1,840,773	604,549	2,445,322	1,964,665	637,284	2,601,949	0.36%	0.25%	0.34%	0.73%	0.51%	0.68%	1.11%	0.78%	1.03%
2031	1,731,190	575,021	2,306,211	1,853,906	607,538	2,461,444	1,985,908	642,073	2,627,981	0.35%	0.24%	0.33%	0.71%	0.49%	0.66%	1.08%	0.75%	1.00%
2032	1,737,110	576,372	2,313,482	1,866,731	610,436	2,477,167	2,006,749	646,735	2,653,484	0.34%	0.24%	0.32%	0.69%	0.48%	0.64%	1.05%	0.73%	0.97%
2033	1,742,874	577,680	2,320,553	1,879,273	613,250	2,492,523	2,027,220	651,280	2,678,500	0.33%	0.23%	0.31%	0.67%	0.46%	0.62%	1.02%	0.70%	0.94%
2034	1,748,485	578,944	2,327,429	1,891,537	615,981	2,507,518	2,047,328	655,708	2,703,036	0.32%	0.22%	0.30%	0.65%	0.45%	0.60%	0.99%	0.68%	0.92%
2035	1,753,961	580,159	2,334,120	1,903,560	618,618	2,522,178	2,067,130	660,002	2,727,131	0.31%	0.21%	0.29%	0.64%	0.43%	0.58%	0.97%	0.65%	0.89%
2036	1,759,254	581,326	2,340,580	1,915,230	621,159	2,536,389	2,086,431	664,155	2,750,586	0.30%	0.20%	0.28%	0.61%	0.41%	0.56%	0.93%	0.63%	0.86%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	1,506	24,304	25,811	1,522	24,571	26,093	1,537	24,839	26,376	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,513	24,426	25,940	1,535	24,818	26,353	1,557	25,214	26,771	0.44%	0.50%	0.50%	0.87%	1.01%	1.00%	1.31%	1.51%	1.50%
2019	1,519	24,545	26,064	1,547	25,060	26,607	1,576	25,583	27,159	0.41%	0.49%	0.48%	0.82%	0.97%	0.96%	1.23%	1.46%	1.45%
2020	1,525	24,661	26,186	1,559	25,297	26,856	1,594	25,947	27,541	0.38%	0.47%	0.47%	0.77%	0.95%	0.94%	1.15%	1.42%	1.41%
2021	1,531	24,774	26,305	1,571	25,530	27,100	1,612	26,307	27,918	0.36%	0.46%	0.45%	0.73%	0.92%	0.91%	1.09%	1.39%	1.37%
2022	1,536	24,886	26,422	1,581	25,761	27,342	1,628	26,665	28,293	0.34%	0.45%	0.44%	0.69%	0.90%	0.89%	1.03%	1.36%	1.34%
2023	1,541	24,996	26,537	1,592	25,990	27,582	1,644	27,022	28,667	0.33%	0.44%	0.44%	0.66%	0.89%	0.88%	0.99%	1.34%	1.32%
2024	1,546	25,105	26,651	1,602	26,218	27,820	1,660	27,380	29,040	0.31%	0.44%	0.43%	0.63%	0.88%	0.86%	0.95%	1.32%	1.30%
2025	1,550	25,213	26,764	1,612	26,445	28,056	1,675	27,736	29,411	0.30%	0.43%	0.42%	0.61%	0.86%	0.85%	0.92%	1.30%	1.28%
2026	1,555	25,320	26,875	1,621	26,669	28,290	1,690	28,091	29,781	0.29%	0.42%	0.41%	0.59%	0.85%	0.83%	0.88%	1.28%	1.26%
2027	1,559	25,425	26,984	1,630	26,892	28,522	1,705	28,445	30,150	0.28%	0.41%	0.41%	0.57%	0.83%	0.82%	0.85%	1.26%	1.24%
2028	1,563	25,528	27,092	1,639	27,112	28,752	1,719	28,798	30,516	0.27%	0.41%	0.40%	0.55%	0.82%	0.81%	0.83%	1.24%	1.22%
2029	1,568	25,631	27,198	1,648	27,331	28,979	1,732	29,149	30,881	0.26%	0.40%	0.39%	0.53%	0.81%	0.79%	0.81%	1.22%	1.20%
2030	1,572	25,731	27,303	1,656	27,547	29,204	1,746	29,497	31,243	0.25%	0.39%	0.38%	0.51%	0.79%	0.78%	0.78%	1.20%	1.17%
2031	1,575	25,830	27,405	1,664	27,760	29,424	1,759	29,842	31,601	0.24%	0.38%	0.37%	0.49%	0.77%	0.76%	0.75%	1.17%	1.14%
2032	1,579	25,925	27,504	1,672	27,968	29,640	1,772	30,180	31,952	0.24%	0.37%	0.36%	0.48%	0.75%	0.73%	0.73%	1.13%	1.11%
2033	1,583	26,019	27,601	1,680	28,171	29,851	1,784	30,513	32,297	0.23%	0.36%	0.35%	0.46%	0.73%	0.71%	0.70%	1.10%	1.08%
2034	1,586	26,110	27,696	1,688	28,370	30,058	1,796	30,840	32,636	0.22%	0.35%	0.34%	0.45%	0.71%	0.69%	0.68%	1.07%	1.05%
2035	1,589	26,199	27,788	1,695	28,566	30,261	1,808	31,163	32,971	0.21%	0.34%	0.33%	0.43%	0.69%	0.68%	0.65%	1.05%	1.03%
2036	1,593	26,285	27,877	1,702	28,756	30,458	1,820	31,478	33,298	0.20%	0.33%	0.32%	0.41%	0.67%	0.65%	0.63%	1.01%	0.99%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	683,647	1,500,808	2,184,455	688,158	1,519,402	2,207,560	692,683	1,538,117	2,230,801	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	685,888	1,508,945	2,194,833	692,669	1,535,891	2,228,560	699,495	1,563,176	2,262,671	0.33%	0.54%	0.48%	0.66%	1.09%	0.95%	0.98%	1.63%	1.43%
2019	688,126	1,516,662	2,204,788	697,189	1,551,623	2,248,812	706,341	1,587,224	2,293,565	0.33%	0.51%	0.45%	0.65%	1.02%	0.91%	0.98%	1.54%	1.37%
2020	690,352	1,524,031	2,214,383	701,700	1,566,729	2,268,430	713,197	1,610,449	2,323,646	0.32%	0.49%	0.44%	0.65%	0.97%	0.87%	0.97%	1.46%	1.31%
2021	692,569	1,531,112	2,223,681	706,206	1,581,328	2,287,534	720,067	1,633,016	2,353,082	0.32%	0.46%	0.42%	0.64%	0.93%	0.84%	0.96%	1.40%	1.27%
2022	694,776	1,537,940	2,232,716	710,707	1,595,482	2,306,188	726,950	1,655,017	2,381,967	0.32%	0.45%	0.41%	0.64%	0.90%	0.82%	0.96%	1.35%	1.23%
2023	696,967	1,544,586	2,241,554	715,191	1,609,332	2,324,523	733,830	1,676,663	2,410,492	0.32%	0.43%	0.40%	0.63%	0.87%	0.80%	0.95%	1.31%	1.20%
2024	699,147	1,551,066	2,250,212	719,664	1,622,909	2,342,572	740,714	1,697,994	2,438,709	0.31%	0.42%	0.39%	0.63%	0.84%	0.78%	0.94%	1.27%	1.17%
2025	701,301	1,557,403	2,258,704	724,099	1,636,257	2,360,356	747,562	1,719,080	2,466,641	0.31%	0.41%	0.38%	0.62%	0.82%	0.76%	0.92%	1.24%	1.15%
2026	703,430	1,563,591	2,267,022	728,496	1,649,363	2,377,859	754,371	1,739,891	2,494,262	0.30%	0.40%	0.37%	0.61%	0.80%	0.74%	0.91%	1.21%	1.12%
2027	705,530	1,569,644	2,275,174	732,844	1,662,248	2,395,092	761,124	1,760,459	2,521,583	0.30%	0.39%	0.36%	0.60%	0.78%	0.72%	0.90%	1.18%	1.10%
2028	707,594	1,575,580	2,283,173	737,132	1,674,949	2,412,080	767,804	1,780,838	2,548,642	0.29%	0.38%	0.35%	0.59%	0.76%	0.71%	0.88%	1.16%	1.07%
2029	709,625	1,581,402	2,291,027	741,365	1,687,470	2,428,834	774,418	1,801,031	2,575,449	0.29%	0.37%	0.34%	0.57%	0.75%	0.69%	0.86%	1.13%	1.05%
2030	711,623	1,587,099	2,298,722	745,538	1,699,784	2,445,322	780,957	1,820,992	2,601,949	0.28%	0.36%	0.34%	0.56%	0.73%	0.68%	0.84%	1.11%	1.03%
2031	713,544	1,592,666	2,306,211	749,564	1,711,879	2,461,444	787,283	1,840,698	2,627,981	0.27%	0.35%	0.33%	0.54%	0.71%	0.66%	0.81%	1.08%	1.00%
2032	715,388	1,598,094	2,313,482	753,438	1,723,729	2,477,167	793,386	1,860,098	2,653,484	0.26%	0.34%	0.32%	0.52%	0.69%	0.64%	0.78%	1.05%	0.97%
2033	717,158	1,603,395	2,320,553	757,167	1,735,356	2,492,523	799,276	1,879,224	2,678,500	0.25%	0.33%	0.31%	0.49%	0.67%	0.62%	0.74%	1.03%	0.94%
2034	718,855	1,608,574	2,327,429	760,749	1,746,769	2,507,518	804,948	1,898,088	2,703,036	0.24%	0.32%	0.30%	0.47%	0.66%	0.60%	0.71%	1.00%	0.92%
2035	720,479	1,613,641	2,334,120	764,186	1,757,992	2,522,178	810,403	1,916,728	2,727,131	0.23%	0.32%	0.29%	0.45%	0.64%	0.58%	0.68%	0.98%	0.89%
2036	722,036	1,618,544	2,340,580	767,490	1,768,899	2,536,389	815,659	1,934,928	2,750,586	0.22%	0.30%	0.28%	0.43%	0.62%	0.56%	0.65%	0.95%	0.86%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	957	197	1,154	964	200	1,164	970	203	1,173	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	960	199	1,159	970	203	1,173	979	207	1,187	0.33%	0.67%	0.39%	0.66%	1.34%	0.77%	0.98%	2.01%	1.16%
2019	963	200	1,163	976	205	1,182	989	211	1,200	0.33%	0.64%	0.38%	0.65%	1.29%	0.76%	0.98%	1.93%	1.14%
2020	967	201	1,168	982	208	1,191	999	215	1,214	0.32%	0.62%	0.37%	0.65%	1.25%	0.75%	0.97%	1.87%	1.13%
2021	970	202	1,172	989	211	1,199	1,008	219	1,227	0.32%	0.60%	0.37%	0.64%	1.21%	0.74%	0.96%	1.81%	1.11%
2022	973	204	1,176	995	213	1,208	1,018	223	1,241	0.32%	0.59%	0.37%	0.64%	1.18%	0.73%	0.96%	1.78%	1.10%
2023	976	205	1,181	1,001	216	1,217	1,027	227	1,254	0.32%	0.58%	0.36%	0.63%	1.17%	0.73%	0.95%	1.75%	1.09%
2024	979	206	1,185	1,008	218	1,226	1,037	231	1,268	0.31%	0.58%	0.36%	0.63%	1.15%	0.72%	0.94%	1.73%	1.08%
2025	982	207	1,189	1,014	221	1,234	1,047	235	1,281	0.31%	0.57%	0.35%	0.62%	1.13%	0.71%	0.92%	1.70%	1.07%
2026	985	208	1,193	1,020	223	1,243	1,056	239	1,295	0.30%	0.56%	0.35%	0.61%	1.12%	0.70%	0.91%	1.68%	1.05%
2027	988	209	1,197	1,026	225	1,252	1,066	243	1,308	0.30%	0.55%	0.34%	0.60%	1.10%	0.69%	0.90%	1.65%	1.03%
2028	991	210	1,201	1,032	228	1,260	1,075	247	1,322	0.29%	0.54%	0.34%	0.59%	1.08%	0.67%	0.88%	1.63%	1.02%
2029	994	212	1,205	1,038	230	1,268	1,084	251	1,335	0.29%	0.53%	0.33%	0.57%	1.07%	0.66%	0.86%	1.60%	1.00%
2030	996	213	1,209	1,044	233	1,277	1,093	254	1,348	0.28%	0.52%	0.32%	0.56%	1.05%	0.65%	0.84%	1.57%	0.98%
2031	999	214	1,213	1,050	235	1,285	1,102	258	1,361	0.27%	0.51%	0.31%	0.54%	1.03%	0.63%	0.81%	1.54%	0.95%
2032	1,002	215	1,217	1,055	237	1,292	1,111	262	1,373	0.26%	0.50%	0.30%	0.52%	1.00%	0.61%	0.78%	1.51%	0.91%
2033	1,004	216	1,220	1,060	240	1,300	1,119	266	1,385	0.25%	0.49%	0.29%	0.49%	0.98%	0.58%	0.74%	1.47%	0.88%
2034	1,007	217	1,223	1,065	242	1,307	1,127	270	1,397	0.24%	0.48%	0.28%	0.47%	0.96%	0.56%	0.71%	1.44%	0.85%
2035	1,009	218	1,227	1,070	244	1,314	1,135	274	1,408	0.23%	0.47%	0.27%	0.45%	0.94%	0.54%	0.68%	1.42%	0.82%
2036	1,011	219	1,230	1,075	247	1,321	1,142	278	1,420	0.22%	0.45%	0.26%	0.43%	0.91%	0.52%	0.65%	1.37%	0.79%





20 Year Customer Growth Rate	
High:	21.02%
Medium:	13.53%
Low:	6.53%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

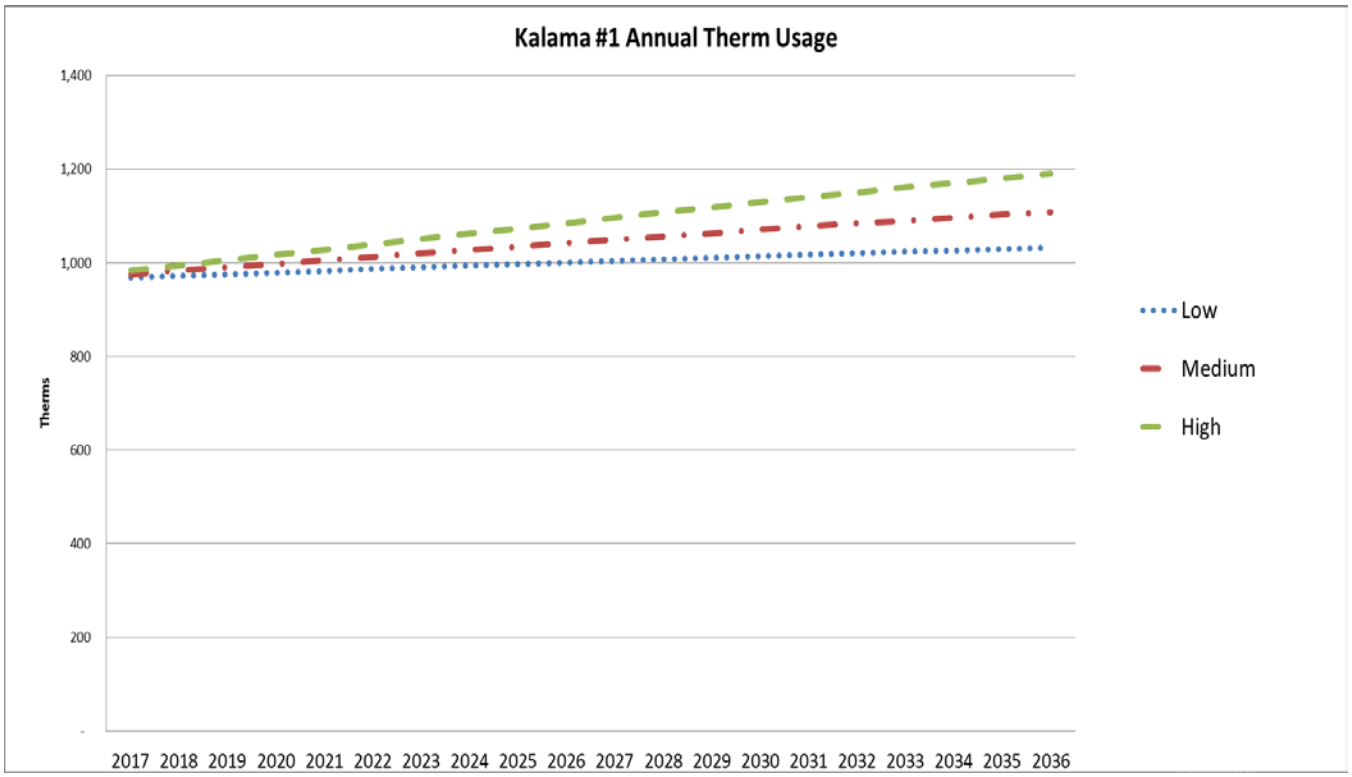
Kalama #1

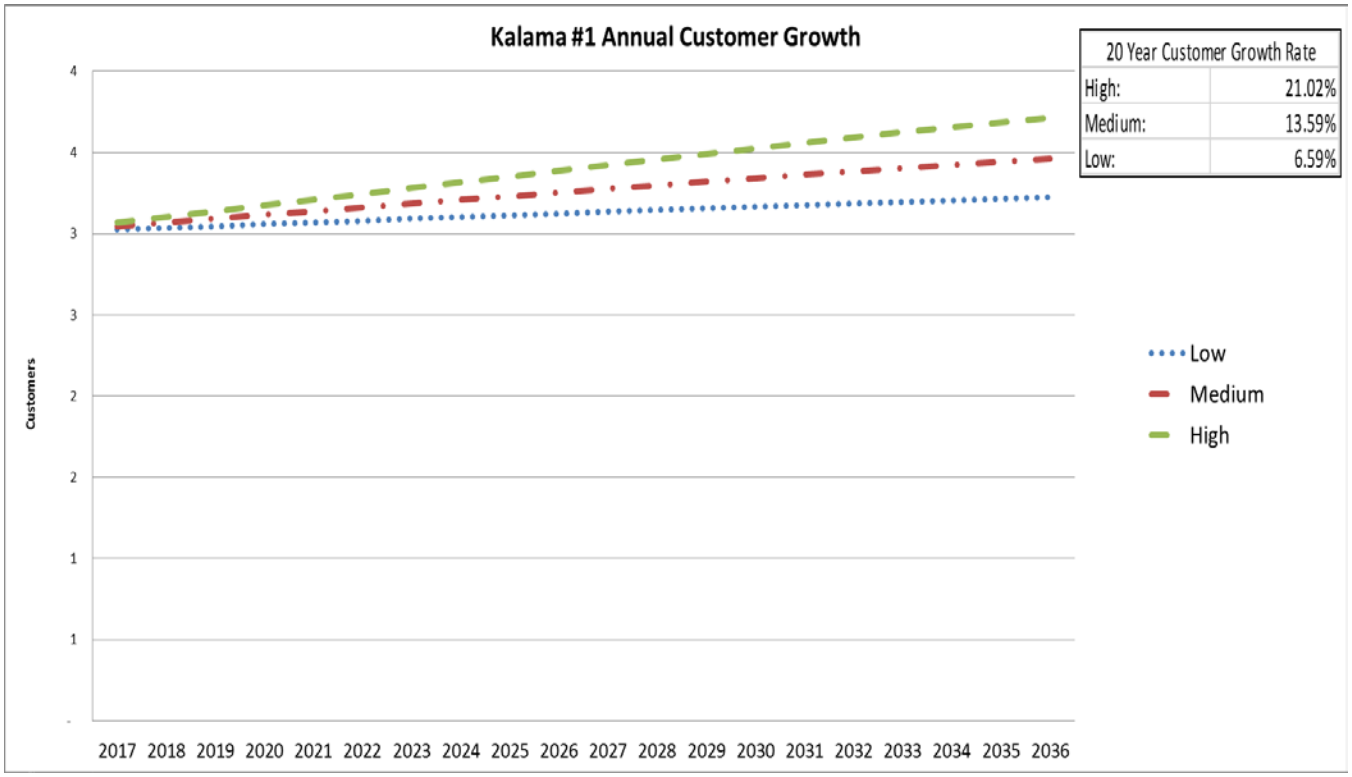
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	801	167	968	807	169	976	813	170	983	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	804	168	972	813	170	983	823	172	994	0.38%	0.38%	0.38%	0.76%	0.76%	0.76%	1.13%	1.13%	1.13%
2019	807	168	976	819	171	990	832	174	1,005	0.38%	0.38%	0.38%	0.75%	0.75%	0.75%	1.13%	1.13%	1.13%
2020	810	169	979	826	172	998	841	176	1,017	0.37%	0.37%	0.37%	0.75%	0.75%	0.75%	1.12%	1.12%	1.12%
2021	813	170	983	832	174	1,005	851	178	1,028	0.37%	0.37%	0.37%	0.74%	0.74%	0.74%	1.11%	1.11%	1.11%
2022	816	170	987	838	175	1,013	860	179	1,039	0.37%	0.37%	0.37%	0.74%	0.74%	0.74%	1.10%	1.10%	1.10%
2023	819	171	990	844	176	1,020	869	181	1,051	0.36%	0.36%	0.36%	0.73%	0.73%	0.73%	1.09%	1.09%	1.09%
2024	822	172	994	850	177	1,027	879	183	1,062	0.36%	0.36%	0.36%	0.72%	0.72%	0.72%	1.09%	1.09%	1.09%
2025	825	172	997	856	179	1,035	888	185	1,074	0.36%	0.36%	0.36%	0.71%	0.71%	0.71%	1.07%	1.07%	1.07%
2026	828	173	1,001	862	180	1,042	898	187	1,085	0.35%	0.35%	0.35%	0.70%	0.70%	0.70%	1.06%	1.06%	1.06%
2027	831	173	1,004	868	181	1,049	907	189	1,096	0.35%	0.35%	0.35%	0.69%	0.69%	0.69%	1.04%	1.04%	1.04%
2028	834	174	1,008	874	182	1,056	916	191	1,107	0.34%	0.34%	0.34%	0.68%	0.68%	0.68%	1.02%	1.02%	1.02%
2029	836	175	1,011	880	184	1,064	925	193	1,119	0.34%	0.34%	0.34%	0.67%	0.67%	0.67%	1.01%	1.01%	1.01%
2030	839	175	1,014	886	185	1,071	935	195	1,130	0.33%	0.33%	0.33%	0.66%	0.66%	0.66%	0.99%	0.99%	0.99%
2031	842	176	1,018	891	186	1,077	943	197	1,140	0.32%	0.32%	0.32%	0.63%	0.63%	0.63%	0.95%	0.95%	0.95%
2032	844	176	1,021	897	187	1,084	952	199	1,151	0.31%	0.31%	0.31%	0.61%	0.61%	0.61%	0.92%	0.92%	0.92%
2033	847	177	1,024	902	188	1,090	960	200	1,161	0.29%	0.29%	0.29%	0.59%	0.59%	0.59%	0.88%	0.88%	0.88%
2034	849	177	1,027	907	189	1,097	969	202	1,171	0.28%	0.28%	0.28%	0.57%	0.57%	0.57%	0.85%	0.85%	0.85%
2035	852	178	1,029	912	190	1,103	977	204	1,180	0.27%	0.27%	0.27%	0.55%	0.55%	0.55%	0.82%	0.82%	0.82%
2036	854	178	1,032	917	191	1,108	984	205	1,190	0.26%	0.26%	0.26%	0.52%	0.52%	0.52%	0.79%	0.79%	0.79%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0	11	11	0	11	11	0	11	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0	11	11	0	11	11	0	11	11	0.38%	0.38%	0.38%	0.76%	0.76%	0.76%	1.13%	1.13%	1.13%
2019	0	11	11	0	11	11	0	11	11	0.38%	0.38%	0.38%	0.75%	0.75%	0.75%	1.13%	1.13%	1.13%
2020	0	11	11	0	11	11	0	11	12	0.37%	0.37%	0.37%	0.75%	0.75%	0.75%	1.12%	1.12%	1.12%
2021	0	11	11	0	11	11	0	11	12	0.37%	0.37%	0.37%	0.74%	0.74%	0.74%	1.11%	1.11%	1.11%
2022	0	11	11	0	11	12	0	11	12	0.37%	0.37%	0.37%	0.74%	0.74%	0.74%	1.10%	1.10%	1.10%
2023	0	11	11	0	11	12	0	11	12	0.36%	0.36%	0.36%	0.73%	0.73%	0.73%	1.09%	1.09%	1.09%
2024	0	11	11	0	11	12	1	12	12	0.36%	0.36%	0.36%	0.72%	0.72%	0.72%	1.09%	1.09%	1.09%
2025	0	11	11	0	11	12	1	12	12	0.36%	0.36%	0.36%	0.71%	0.71%	0.71%	1.07%	1.07%	1.07%
2026	0	11	11	0	11	12	1	12	12	0.35%	0.35%	0.35%	0.70%	0.70%	0.70%	1.06%	1.06%	1.06%
2027	0	11	11	0	11	12	1	12	12	0.35%	0.35%	0.35%	0.69%	0.69%	0.69%	1.04%	1.04%	1.04%
2028	0	11	11	0	12	12	1	12	13	0.34%	0.34%	0.34%	0.68%	0.68%	0.68%	1.02%	1.02%	1.02%
2029	0	11	11	1	12	12	1	12	13	0.34%	0.34%	0.34%	0.67%	0.67%	0.67%	1.01%	1.01%	1.01%
2030	0	11	12	1	12	12	1	12	13	0.33%	0.33%	0.33%	0.66%	0.66%	0.66%	0.99%	0.99%	0.99%
2031	0	11	12	1	12	12	1	12	13	0.32%	0.32%	0.32%	0.63%	0.63%	0.63%	0.95%	0.95%	0.95%
2032	0	11	12	1	12	12	1	13	13	0.31%	0.31%	0.31%	0.61%	0.61%	0.61%	0.92%	0.92%	0.92%
2033	0	11	12	1	12	12	1	13	13	0.29%	0.29%	0.29%	0.59%	0.59%	0.59%	0.88%	0.88%	0.88%
2034	0	11	12	1	12	12	1	13	13	0.28%	0.28%	0.28%	0.57%	0.57%	0.57%	0.85%	0.85%	0.85%
2035	0	11	12	1	12	13	1	13	13	0.27%	0.27%	0.27%	0.55%	0.55%	0.55%	0.82%	0.82%	0.82%
2036	0	11	12	1	12	13	1	13	14	0.26%	0.26%	0.26%	0.52%	0.52%	0.52%	0.79%	0.79%	0.79%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	968	-	968	976	-	976	983	-	983	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	972	-	972	983	-	983	994	-	994	0.38%	0.00%	0.38%	0.76%	0.00%	0.76%	1.13%	0.00%	1.13%
2019	976	-	976	990	-	990	1,005	-	1,005	0.38%	0.00%	0.38%	0.75%	0.00%	0.75%	1.13%	0.00%	1.13%
2020	979	-	979	998	-	998	1,017	-	1,017	0.37%	0.00%	0.37%	0.75%	0.00%	0.75%	1.12%	0.00%	1.12%
2021	983	-	983	1,005	-	1,005	1,028	-	1,028	0.37%	0.00%	0.37%	0.74%	0.00%	0.74%	1.11%	0.00%	1.11%
2022	987	-	987	1,013	-	1,013	1,039	-	1,039	0.37%	0.00%	0.37%	0.74%	0.00%	0.74%	1.10%	0.00%	1.10%
2023	990	-	990	1,020	-	1,020	1,051	-	1,051	0.36%	0.00%	0.36%	0.73%	0.00%	0.73%	1.09%	0.00%	1.09%
2024	994	-	994	1,027	-	1,027	1,062	-	1,062	0.36%	0.00%	0.36%	0.72%	0.00%	0.72%	1.09%	0.00%	1.09%
2025	997	-	997	1,035	-	1,035	1,074	-	1,074	0.36%	0.00%	0.36%	0.71%	0.00%	0.71%	1.07%	0.00%	1.07%
2026	1,001	-	1,001	1,042	-	1,042	1,085	-	1,085	0.35%	0.00%	0.35%	0.70%	0.00%	0.70%	1.06%	0.00%	1.06%
2027	1,004	-	1,004	1,049	-	1,049	1,096	-	1,096	0.35%	0.00%	0.35%	0.69%	0.00%	0.69%	1.04%	0.00%	1.04%
2028	1,008	-	1,008	1,056	-	1,056	1,107	-	1,107	0.34%	0.00%	0.34%	0.68%	0.00%	0.68%	1.02%	0.00%	1.02%
2029	1,011	-	1,011	1,064	-	1,064	1,119	-	1,119	0.34%	0.00%	0.34%	0.67%	0.00%	0.67%	1.01%	0.00%	1.01%
2030	1,014	-	1,014	1,071	-	1,071	1,130	-	1,130	0.33%	0.00%	0.33%	0.66%	0.00%	0.66%	0.99%	0.00%	0.99%
2031	1,018	-	1,018	1,077	-	1,077	1,140	-	1,140	0.32%	0.00%	0.32%	0.63%	0.00%	0.63%	0.95%	0.00%	0.95%
2032	1,021	-	1,021	1,084	-	1,084	1,151	-	1,151	0.31%	0.00%	0.31%	0.61%	0.00%	0.61%	0.92%	0.00%	0.92%
2033	1,024	-	1,024	1,090	-	1,090	1,161	-	1,161	0.29%	0.00%	0.29%	0.59%	0.00%	0.59%	0.88%	0.00%	0.88%
2034	1,027	-	1,027	1,097	-	1,097	1,171	-	1,171	0.28%	0.00%	0.28%	0.57%	0.00%	0.57%	0.85%	0.00%	0.85%
2035	1,029	-	1,029	1,103	-	1,103	1,180	-	1,180	0.27%	0.00%	0.27%	0.55%	0.00%	0.55%	0.82%	0.00%	0.82%
2036	1,032	-	1,032	1,108	-	1,108	1,190	-	1,190	0.26%	0.00%	0.26%	0.52%	0.00%	0.52%	0.79%	0.00%	0.79%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3	-	3	3	-	3	3	-	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3	-	3	3	-	3	3	-	3	0.38%	0.00%	0.38%	0.76%	0.00%	0.76%	1.13%	0.00%	1.13%
2019	3	-	3	3	-	3	3	-	3	0.38%	0.00%	0.38%	0.75%	0.00%	0.75%	1.13%	0.00%	1.13%
2020	3	-	3	3	-	3	3	-	3	0.37%	0.00%	0.37%	0.75%	0.00%	0.75%	1.12%	0.00%	1.12%
2021	3	-	3	3	-	3	3	-	3	0.37%	0.00%	0.37%	0.74%	0.00%	0.74%	1.11%	0.00%	1.11%
2022	3	-	3	3	-	3	3	-	3	0.37%	0.00%	0.37%	0.74%	0.00%	0.74%	1.10%	0.00%	1.10%
2023	3	-	3	3	-	3	3	-	3	0.36%	0.00%	0.36%	0.73%	0.00%	0.73%	1.09%	0.00%	1.09%
2024	3	-	3	3	-	3	3	-	3	0.36%	0.00%	0.36%	0.72%	0.00%	0.72%	1.09%	0.00%	1.09%
2025	3	-	3	3	-	3	3	-	3	0.36%	0.00%	0.36%	0.71%	0.00%	0.71%	1.07%	0.00%	1.07%
2026	3	-	3	3	-	3	3	-	3	0.35%	0.00%	0.35%	0.70%	0.00%	0.70%	1.06%	0.00%	1.06%
2027	3	-	3	3	-	3	3	-	3	0.35%	0.00%	0.35%	0.69%	0.00%	0.69%	1.04%	0.00%	1.04%
2028	3	-	3	3	-	3	3	-	3	0.34%	0.00%	0.34%	0.68%	0.00%	0.68%	1.02%	0.00%	1.02%
2029	3	-	3	3	-	3	3	-	3	0.34%	0.00%	0.34%	0.67%	0.00%	0.67%	1.01%	0.00%	1.01%
2030	3	-	3	3	-	3	4	-	4	0.33%	0.00%	0.33%	0.66%	0.00%	0.66%	0.99%	0.00%	0.99%
2031	3	-	3	3	-	3	4	-	4	0.32%	0.00%	0.32%	0.63%	0.00%	0.63%	0.95%	0.00%	0.95%
2032	3	-	3	3	-	3	4	-	4	0.31%	0.00%	0.31%	0.61%	0.00%	0.61%	0.92%	0.00%	0.92%
2033	3	-	3	3	-	3	4	-	4	0.29%	0.00%	0.29%	0.59%	0.00%	0.59%	0.88%	0.00%	0.88%
2034	3	-	3	3	-	3	4	-	4	0.28%	0.00%	0.28%	0.57%	0.00%	0.57%	0.85%	0.00%	0.85%
2035	3	-	3	3	-	3	4	-	4	0.27%	0.00%	0.27%	0.55%	0.00%	0.55%	0.82%	0.00%	0.82%
2036	3	-	3	3	-	3	4	-	4	0.26%	0.00%	0.26%	0.52%	0.00%	0.52%	0.79%	0.00%	0.79%





20 Year Customer Growth Rate	
High:	21.02%
Medium:	13.59%
Low:	6.59%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

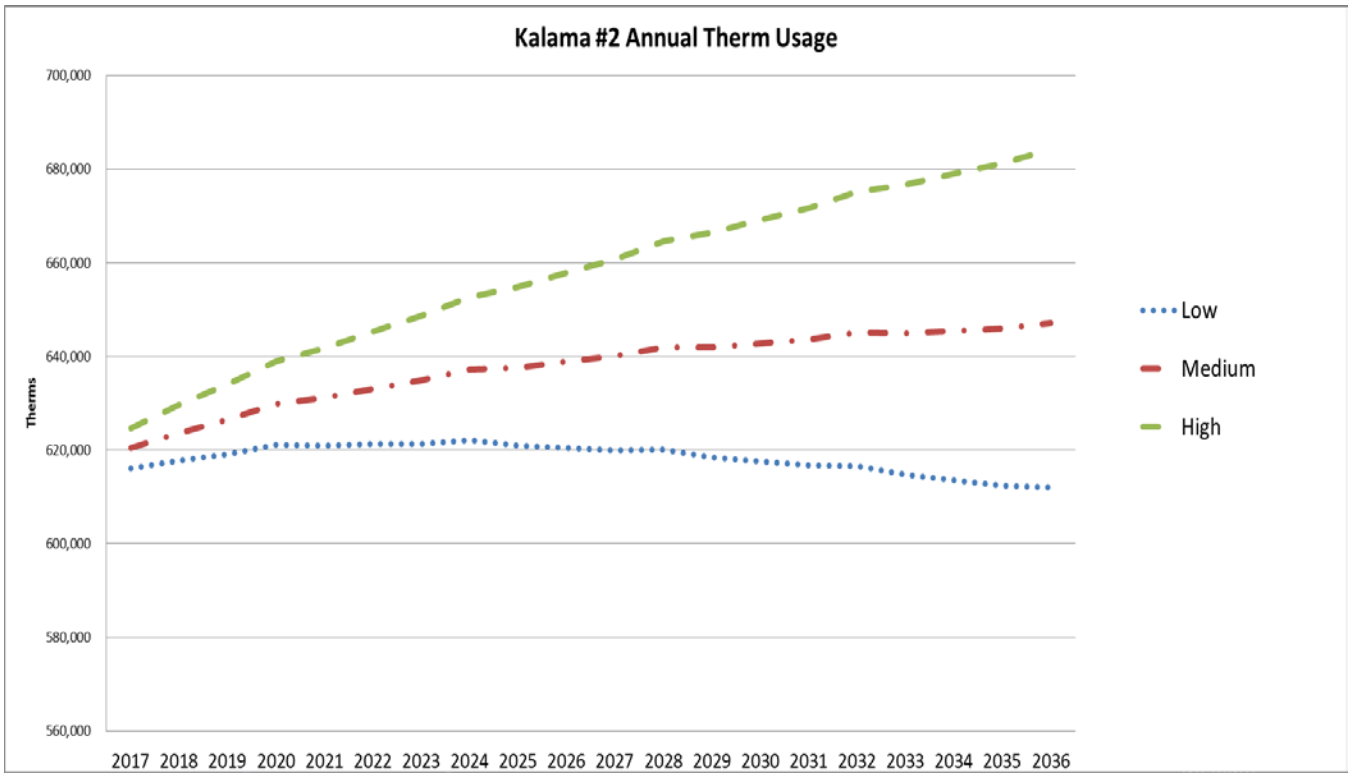
Kalama #2

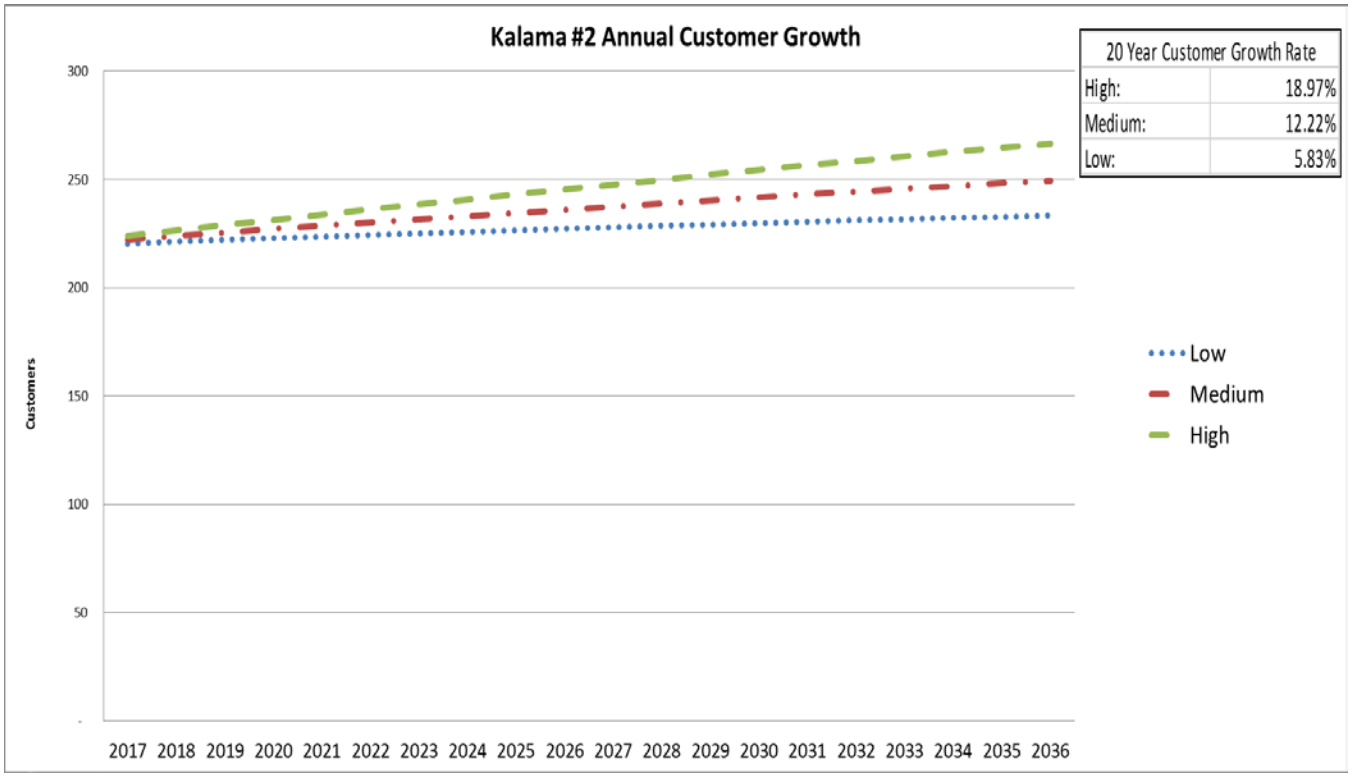
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	218,038	398,106	616,144	220,057	400,360	620,416	222,085	402,621	624,706	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	218,926	398,857	617,784	221,850	401,873	623,724	224,799	404,908	629,708	0.41%	0.19%	0.27%	0.82%	0.38%	0.53%	1.22%	0.57%	0.80%
2019	219,770	399,416	619,186	223,559	403,004	626,563	227,394	406,625	634,019	0.39%	0.14%	0.23%	0.77%	0.28%	0.46%	1.15%	0.42%	0.68%
2020	221,400	399,663	621,063	226,028	403,876	629,905	230,730	408,140	638,870	0.74%	0.06%	0.30%	1.10%	0.22%	0.53%	1.47%	0.37%	0.77%
2021	221,395	399,504	620,899	226,777	404,446	631,223	232,262	409,460	641,723	0.00%	-0.04%	-0.03%	0.33%	0.14%	0.21%	0.66%	0.32%	0.45%
2022	222,190	399,060	621,250	228,313	404,808	633,121	234,573	410,655	645,227	0.36%	-0.11%	0.06%	0.68%	0.09%	0.30%	0.99%	0.29%	0.55%
2023	222,979	398,389	621,369	229,820	405,005	634,825	236,837	411,749	648,586	0.36%	-0.17%	0.02%	0.66%	0.05%	0.27%	0.97%	0.27%	0.52%
2024	224,576	397,491	622,067	232,135	405,033	637,169	239,912	412,740	652,652	0.72%	-0.23%	0.11%	1.01%	0.01%	0.37%	1.30%	0.24%	0.63%
2025	224,540	396,369	620,909	232,749	404,898	637,647	241,219	413,634	654,853	-0.02%	-0.28%	-0.19%	0.26%	-0.03%	0.08%	0.54%	0.22%	0.34%
2026	225,319	395,194	620,513	234,201	404,724	638,925	243,394	414,508	657,901	0.35%	-0.30%	-0.06%	0.62%	-0.04%	0.20%	0.90%	0.21%	0.47%
2027	226,089	393,849	619,938	235,624	404,419	640,043	245,520	415,297	660,816	0.34%	-0.34%	-0.09%	0.61%	-0.08%	0.17%	0.87%	0.19%	0.44%
2028	227,672	392,391	620,063	237,875	404,023	641,899	248,494	416,023	664,517	0.70%	-0.37%	0.02%	0.96%	-0.10%	0.29%	1.21%	0.17%	0.56%
2029	227,607	390,879	618,486	238,410	403,583	641,993	249,684	416,720	666,404	-0.03%	-0.39%	-0.25%	0.22%	-0.11%	0.01%	0.48%	0.17%	0.28%
2030	228,359	389,258	617,616	239,779	403,055	642,835	251,731	417,360	669,091	0.33%	-0.41%	-0.14%	0.57%	-0.13%	0.13%	0.82%	0.15%	0.40%
2031	229,099	387,633	616,732	241,130	402,512	643,642	253,754	417,976	671,730	0.32%	-0.42%	-0.14%	0.56%	-0.13%	0.13%	0.80%	0.15%	0.39%
2032	230,653	385,895	616,549	243,312	401,869	645,181	256,627	418,514	675,142	0.68%	-0.45%	-0.03%	0.90%	-0.16%	0.24%	1.13%	0.13%	0.51%
2033	230,533	384,151	614,684	243,725	401,201	644,927	257,637	419,014	676,651	-0.05%	-0.45%	-0.30%	0.17%	-0.17%	-0.04%	0.39%	0.12%	0.22%
2034	231,234	382,352	613,586	244,988	400,482	645,470	259,528	419,472	679,000	0.30%	-0.47%	-0.18%	0.52%	-0.18%	0.08%	0.73%	0.11%	0.35%
2035	231,915	380,492	612,407	246,207	399,696	645,903	261,350	419,863	681,213	0.29%	-0.49%	-0.19%	0.50%	-0.20%	0.07%	0.70%	0.09%	0.33%
2036	233,421	378,579	612,000	248,286	398,858	647,144	264,069	420,211	684,280	0.65%	-0.50%	-0.07%	0.84%	-0.21%	0.19%	1.04%	0.08%	0.45%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	1,091	4,432	5,523	1,097	4,466	5,563	1,103	4,500	5,604	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,093	4,446	5,539	1,101	4,495	5,596	1,109	4,544	5,653	0.19%	0.32%	0.29%	0.38%	0.64%	0.59%	0.57%	0.96%	0.89%
2019	1,094	4,459	5,554	1,104	4,521	5,625	1,114	4,584	5,698	0.14%	0.29%	0.26%	0.28%	0.58%	0.52%	0.42%	0.88%	0.79%
2020	1,095	4,471	5,566	1,107	4,546	5,652	1,118	4,622	5,740	0.06%	0.26%	0.22%	0.22%	0.54%	0.48%	0.37%	0.83%	0.74%
2021	1,095	4,480	5,575	1,108	4,568	5,676	1,122	4,657	5,779	-0.04%	0.21%	0.16%	0.14%	0.49%	0.42%	0.32%	0.78%	0.69%
2022	1,093	4,488	5,582	1,109	4,589	5,698	1,125	4,692	5,817	-0.11%	0.18%	0.12%	0.09%	0.46%	0.39%	0.29%	0.75%	0.66%
2023	1,091	4,496	5,587	1,110	4,609	5,719	1,128	4,726	5,854	-0.17%	0.16%	0.10%	0.05%	0.44%	0.36%	0.27%	0.72%	0.63%
2024	1,089	4,502	5,591	1,110	4,629	5,738	1,131	4,759	5,890	-0.23%	0.14%	0.07%	0.01%	0.42%	0.34%	0.24%	0.70%	0.61%
2025	1,086	4,507	5,593	1,109	4,647	5,756	1,133	4,791	5,924	-0.28%	0.11%	0.04%	-0.03%	0.39%	0.31%	0.22%	0.68%	0.59%
2026	1,083	4,512	5,594	1,109	4,665	5,774	1,136	4,823	5,959	-0.30%	0.11%	0.03%	-0.04%	0.39%	0.30%	0.21%	0.67%	0.58%
2027	1,079	4,516	5,595	1,108	4,682	5,790	1,138	4,854	5,992	-0.34%	0.09%	0.01%	-0.08%	0.37%	0.28%	0.19%	0.65%	0.56%
2028	1,075	4,519	5,594	1,107	4,699	5,805	1,140	4,885	6,025	-0.37%	0.08%	-0.01%	-0.10%	0.35%	0.27%	0.17%	0.63%	0.54%
2029	1,071	4,522	5,593	1,106	4,715	5,820	1,142	4,915	6,057	-0.39%	0.07%	-0.02%	-0.11%	0.34%	0.26%	0.17%	0.62%	0.53%
2030	1,066	4,525	5,591	1,104	4,730	5,834	1,143	4,945	6,088	-0.41%	0.06%	-0.03%	-0.13%	0.33%	0.24%	0.15%	0.60%	0.52%
2031	1,062	4,527	5,589	1,103	4,745	5,848	1,145	4,974	6,119	-0.42%	0.05%	-0.04%	-0.13%	0.32%	0.23%	0.15%	0.59%	0.51%
2032	1,057	4,529	5,586	1,101	4,760	5,861	1,147	5,002	6,148	-0.45%	0.04%	-0.05%	-0.16%	0.30%	0.21%	0.13%	0.56%	0.48%
2033	1,052	4,530	5,583	1,099	4,773	5,872	1,148	5,029	6,177	-0.45%	0.03%	-0.06%	-0.17%	0.29%	0.20%	0.12%	0.54%	0.46%
2034	1,048	4,531	5,579	1,097	4,787	5,884	1,149	5,056	6,205	-0.47%	0.02%	-0.07%	-0.18%	0.28%	0.19%	0.11%	0.53%	0.45%
2035	1,042	4,532	5,574	1,095	4,799	5,894	1,150	5,081	6,231	-0.49%	0.01%	-0.08%	-0.20%	0.26%	0.17%	0.09%	0.50%	0.43%
2036	1,037	4,532	5,569	1,093	4,811	5,903	1,151	5,106	6,257	-0.50%	0.00%	-0.09%	-0.21%	0.25%	0.16%	0.08%	0.49%	0.41%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	199,374	416,770	616,144	200,890	419,526	620,416	202,412	422,294	624,706	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	200,127	417,656	617,784	202,408	421,316	623,724	204,706	425,001	629,708	0.38%	0.21%	0.27%	0.76%	0.43%	0.53%	1.13%	0.64%	0.80%
2019	200,880	418,306	619,186	203,930	422,633	626,563	207,015	427,004	634,019	0.38%	0.16%	0.23%	0.75%	0.31%	0.46%	1.13%	0.47%	0.68%
2020	201,630	419,433	621,063	205,454	424,451	629,905	209,335	429,534	638,870	0.37%	0.27%	0.30%	0.75%	0.43%	0.53%	1.12%	0.59%	0.77%
2021	202,378	418,521	620,899	206,978	424,246	631,223	211,664	430,058	641,723	0.37%	-0.22%	-0.03%	0.74%	-0.05%	0.21%	1.11%	0.12%	0.45%
2022	203,122	418,128	621,250	208,500	424,621	633,121	213,999	431,228	645,227	0.37%	-0.09%	0.06%	0.74%	0.09%	0.30%	1.10%	0.27%	0.55%
2023	203,863	417,505	621,369	210,022	424,804	634,825	216,342	432,244	648,586	0.36%	-0.15%	0.02%	0.73%	0.04%	0.27%	1.09%	0.24%	0.52%
2024	204,601	417,466	622,067	211,542	425,627	637,169	218,691	433,962	652,652	0.36%	-0.01%	0.11%	0.72%	0.19%	0.37%	1.09%	0.40%	0.63%
2025	205,331	415,578	620,909	213,052	424,595	637,647	221,033	433,821	654,853	0.36%	-0.45%	-0.19%	0.71%	-0.24%	0.08%	1.07%	-0.03%	0.34%
2026	206,055	414,458	620,513	214,553	424,373	638,925	223,368	434,533	657,901	0.35%	-0.27%	-0.06%	0.70%	-0.05%	0.20%	1.06%	0.16%	0.47%
2027	206,770	413,168	619,938	216,042	424,001	640,043	225,694	435,123	660,816	0.35%	-0.31%	-0.09%	0.69%	-0.09%	0.17%	1.04%	0.14%	0.44%
2028	207,474	412,589	620,063	217,514	424,385	641,899	228,000	436,517	664,517	0.34%	-0.14%	0.02%	0.68%	0.09%	0.29%	1.02%	0.32%	0.56%
2029	208,170	410,317	618,486	218,972	423,021	641,993	230,293	436,111	666,404	0.34%	-0.55%	-0.25%	0.67%	-0.32%	0.01%	1.01%	-0.09%	0.28%
2030	208,856	408,761	617,616	220,415	422,419	642,835	232,570	436,521	669,091	0.33%	-0.38%	-0.14%	0.66%	-0.14%	0.13%	0.99%	0.09%	0.40%
2031	209,518	407,214	616,732	221,814	421,828	643,642	234,784	436,946	671,730	0.32%	-0.38%	-0.14%	0.63%	-0.14%	0.13%	0.95%	0.10%	0.39%
2032	210,159	406,390	616,549	223,170	422,010	645,181	236,937	438,204	675,142	0.31%	-0.20%	-0.03%	0.61%	0.04%	0.24%	0.92%	0.29%	0.51%
2033	210,779	403,905	614,684	224,486	420,440	644,927	239,033	437,618	676,651	0.29%	-0.61%	-0.30%	0.59%	-0.37%	-0.04%	0.88%	-0.13%	0.22%
2034	211,377	402,209	613,586	225,760	419,710	645,470	241,067	437,932	679,000	0.28%	-0.42%	-0.18%	0.57%	-0.17%	0.08%	0.85%	0.07%	0.35%
2035	211,953	400,454	612,407	226,992	418,912	645,903	243,040	438,174	681,213	0.27%	-0.44%	-0.19%	0.55%	-0.19%	0.07%	0.82%	0.06%	0.33%
2036	212,509	399,491	612,000	228,183	418,961	647,144	244,953	439,327	684,280	0.26%	-0.24%	-0.07%	0.52%	0.01%	0.19%	0.79%	0.26%	0.45%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	171	50	220	172	50	222	173	51	224	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	171	50	221	173	51	224	175	51	227	0.38%	0.37%	0.38%	0.76%	0.74%	0.75%	1.13%	1.10%	1.13%
2019	172	50	222	174	51	226	177	52	229	0.38%	0.32%	0.36%	0.75%	0.64%	0.73%	1.13%	0.96%	1.09%
2020	172	50	223	176	51	227	179	52	231	0.37%	0.28%	0.35%	0.75%	0.57%	0.71%	1.12%	0.86%	1.06%
2021	173	50	224	177	52	229	181	53	234	0.37%	0.24%	0.34%	0.74%	0.49%	0.69%	1.11%	0.75%	1.03%
2022	174	51	224	178	52	230	183	53	236	0.37%	0.21%	0.33%	0.74%	0.45%	0.67%	1.10%	0.69%	1.01%
2023	174	51	225	180	52	232	185	53	239	0.36%	0.19%	0.33%	0.73%	0.42%	0.66%	1.09%	0.64%	0.99%
2024	175	51	226	181	52	233	187	54	241	0.36%	0.17%	0.32%	0.72%	0.38%	0.65%	1.09%	0.59%	0.98%
2025	176	51	227	182	52	235	189	54	243	0.36%	0.15%	0.31%	0.71%	0.36%	0.63%	1.07%	0.56%	0.96%
2026	176	51	227	184	53	236	191	54	245	0.35%	0.15%	0.31%	0.70%	0.36%	0.63%	1.06%	0.56%	0.95%
2027	177	51	228	185	53	238	193	55	248	0.35%	0.14%	0.30%	0.69%	0.33%	0.61%	1.04%	0.52%	0.93%
2028	177	51	229	186	53	239	195	55	250	0.34%	0.13%	0.29%	0.68%	0.31%	0.60%	1.02%	0.50%	0.91%
2029	178	51	229	187	53	240	197	55	252	0.34%	0.12%	0.29%	0.67%	0.31%	0.59%	1.01%	0.49%	0.89%
2030	179	51	230	189	53	242	199	55	254	0.33%	0.11%	0.28%	0.66%	0.29%	0.58%	0.99%	0.47%	0.88%
2031	179	51	230	190	53	243	201	56	257	0.32%	0.12%	0.27%	0.63%	0.30%	0.56%	0.95%	0.48%	0.85%
2032	180	51	231	191	54	245	203	56	259	0.31%	0.11%	0.26%	0.61%	0.28%	0.54%	0.92%	0.46%	0.82%
2033	180	51	232	192	54	246	204	56	261	0.29%	0.10%	0.25%	0.59%	0.27%	0.52%	0.88%	0.44%	0.79%
2034	181	51	232	193	54	247	206	56	263	0.28%	0.10%	0.24%	0.57%	0.28%	0.50%	0.85%	0.45%	0.76%
2035	181	51	233	194	54	248	208	57	265	0.27%	0.09%	0.23%	0.55%	0.26%	0.48%	0.82%	0.42%	0.73%
2036	182	52	233	195	54	249	210	57	266	0.26%	0.09%	0.23%	0.52%	0.26%	0.47%	0.79%	0.42%	0.71%





20 Year Customer Growth Rate	
High:	18.97%
Medium:	12.22%
Low:	5.83%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Kennewick Loop

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	13,368,026	6,393,549	19,761,575	13,635,514	6,526,805	20,162,319	13,905,703	6,661,460	20,567,163
2018	13,497,305	6,457,260	19,954,565	13,899,326	6,656,924	20,556,250	14,309,379	6,860,729	21,170,108
2019	13,626,149	6,520,537	20,146,686	14,164,787	6,787,448	20,952,235	14,719,466	7,062,595	21,782,061
2020	13,844,749	6,583,724	20,428,473	14,527,019	6,919,064	21,446,084	15,236,280	7,268,128	22,504,408
2021	13,883,893	6,646,753	20,530,646	14,703,411	7,051,623	21,755,033	15,563,340	7,477,121	23,040,461
2022	14,013,248	6,709,959	20,723,206	14,977,535	7,185,828	22,163,364	15,998,801	7,690,722	23,689,523
2023	14,143,013	6,773,300	20,916,313	15,255,085	7,321,601	22,576,686	16,443,766	7,908,856	24,352,621
2024	14,366,350	6,836,806	21,203,155	15,637,579	7,459,013	23,096,592	17,008,875	8,131,693	25,140,569
2025	14,403,833	6,900,424	21,304,258	15,820,675	7,597,961	23,418,635	17,363,000	8,359,119	25,722,119
2026	14,534,761	6,964,176	21,498,937	16,108,489	7,738,497	23,846,986	17,837,135	8,591,273	26,428,408
2027	14,666,072	7,028,104	21,694,175	16,399,762	7,880,726	24,280,488	18,321,285	8,828,380	27,149,666
2028	14,894,007	7,092,064	21,986,071	16,802,813	8,024,335	24,827,147	18,937,343	9,069,973	28,007,316
2029	14,929,204	7,156,152	22,085,355	16,991,331	8,169,541	25,160,872	19,317,793	9,316,463	28,634,256
2030	15,061,001	7,220,252	22,281,253	17,291,591	8,316,090	25,607,681	19,830,278	9,567,466	29,397,744
2031	15,192,299	7,284,151	22,476,449	17,593,352	8,463,491	26,056,844	20,349,841	9,822,183	30,172,024
2032	15,423,132	7,347,907	22,771,040	18,013,560	8,611,872	26,625,432	21,013,070	10,080,856	31,093,926
2033	15,453,596	7,411,473	22,865,069	18,201,744	8,761,108	26,962,852	21,410,967	10,343,292	31,754,259
2034	15,583,377	7,474,759	23,058,136	18,507,802	8,910,980	27,418,782	21,951,586	10,609,120	32,560,705
2035	15,712,993	7,538,052	23,251,045	18,816,053	9,062,155	27,878,208	22,500,647	10,879,552	33,380,199
2036	15,945,215	7,600,992	23,546,207	19,249,908	9,213,763	28,463,671	23,206,185	11,153,046	34,359,231

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.97%	1.00%	0.98%	1.93%	1.99%	1.95%	2.90%	2.99%	2.93%
2019	0.95%	0.98%	0.96%	1.91%	1.96%	1.93%	2.87%	2.94%	2.89%
2020	1.60%	0.97%	1.40%	2.56%	1.94%	2.36%	3.51%	2.91%	3.32%
2021	0.28%	0.96%	0.50%	1.21%	1.92%	1.44%	2.15%	2.88%	2.38%
2022	0.93%	0.95%	0.94%	1.86%	1.90%	1.88%	2.80%	2.86%	2.82%
2023	0.93%	0.94%	0.93%	1.85%	1.89%	1.86%	2.78%	2.84%	2.80%
2024	1.58%	0.94%	1.37%	2.51%	1.88%	2.30%	3.44%	2.82%	3.24%
2025	0.26%	0.93%	0.48%	1.17%	1.86%	1.39%	2.08%	2.80%	2.31%
2026	0.91%	0.92%	0.91%	1.82%	1.85%	1.83%	2.73%	2.78%	2.75%
2027	0.90%	0.92%	0.91%	1.81%	1.84%	1.82%	2.71%	2.76%	2.73%
2028	1.55%	0.91%	1.35%	2.46%	1.82%	2.25%	3.36%	2.74%	3.16%
2029	0.24%	0.90%	0.45%	1.12%	1.81%	1.34%	2.01%	2.72%	2.24%
2030	0.88%	0.90%	0.89%	1.77%	1.79%	1.78%	2.65%	2.69%	2.67%
2031	0.87%	0.88%	0.88%	1.75%	1.77%	1.75%	2.62%	2.66%	2.63%
2032	1.52%	0.88%	1.31%	2.39%	1.75%	2.18%	3.26%	2.63%	3.06%
2033	0.20%	0.87%	0.41%	1.04%	1.73%	1.27%	1.89%	2.60%	2.12%
2034	0.84%	0.85%	0.84%	1.68%	1.71%	1.69%	2.52%	2.57%	2.54%
2035	0.83%	0.85%	0.84%	1.67%	1.70%	1.68%	2.50%	2.55%	2.52%
2036	1.48%	0.83%	1.27%	2.31%	1.67%	2.10%	3.14%	2.51%	2.93%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	17,517	256,611	274,127	17,882	261,731	279,613	18,251	266,903	285,154
2018	17,691	259,087	276,778	18,238	266,783	285,022	18,797	274,634	293,430
2019	17,864	261,555	279,419	18,596	271,868	290,464	19,350	282,488	301,838
2020	18,038	264,024	282,062	18,956	277,004	295,961	19,913	290,497	310,409
2021	18,210	266,493	284,703	19,320	282,187	301,506	20,485	298,653	319,138
2022	18,383	268,971	287,354	19,687	287,438	307,125	21,070	306,994	328,064
2023	18,557	271,457	290,014	20,059	292,754	312,814	21,668	315,517	337,185
2024	18,731	273,952	292,683	20,436	298,140	318,575	22,279	324,228	346,506
2025	18,905	276,453	295,358	20,816	303,587	324,404	22,902	333,120	356,022
2026	19,080	278,961	298,041	21,201	309,099	330,300	23,538	342,199	365,737
2027	19,255	281,476	300,731	21,591	314,677	336,268	24,187	351,469	375,656
2028	19,430	283,993	303,423	21,984	320,309	342,294	24,849	360,913	385,762
2029	19,606	286,515	306,121	22,382	326,004	348,386	25,525	370,546	396,071
2030	19,782	289,039	308,820	22,784	331,753	354,536	26,212	380,356	406,569
2031	19,957	291,553	311,510	23,188	337,530	360,718	26,910	390,302	417,212
2032	20,131	294,059	314,191	23,594	343,339	366,933	27,619	400,388	428,007
2033	20,305	296,556	316,862	24,003	349,177	373,180	28,338	410,611	438,948
2034	20,479	299,041	319,520	24,414	355,035	379,449	29,066	420,957	450,023
2035	20,652	301,523	322,175	24,828	360,935	385,763	29,807	431,463	461,270
2036	20,825	303,990	324,815	25,243	366,851	392,094	30,556	442,084	472,641

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.00%	0.96%	0.97%	1.99%	1.93%	1.93%	2.99%	2.90%	2.90%
2019	0.98%	0.95%	0.95%	1.96%	1.91%	1.91%	2.94%	2.86%	2.87%
2020	0.97%	0.94%	0.95%	1.94%	1.89%	1.89%	2.91%	2.83%	2.84%
2021	0.96%	0.93%	0.94%	1.92%	1.87%	1.87%	2.88%	2.81%	2.81%
2022	0.95%	0.93%	0.93%	1.90%	1.86%	1.86%	2.86%	2.79%	2.80%
2023	0.94%	0.92%	0.93%	1.89%	1.85%	1.85%	2.84%	2.78%	2.78%
2024	0.94%	0.92%	0.92%	1.88%	1.84%	1.84%	2.82%	2.76%	2.76%
2025	0.93%	0.91%	0.91%	1.86%	1.83%	1.83%	2.80%	2.74%	2.75%
2026	0.92%	0.91%	0.91%	1.85%	1.82%	1.82%	2.78%	2.73%	2.73%
2027	0.92%	0.90%	0.90%	1.84%	1.80%	1.81%	2.76%	2.71%	2.71%
2028	0.91%	0.89%	0.90%	1.82%	1.79%	1.79%	2.74%	2.69%	2.69%
2029	0.90%	0.89%	0.89%	1.81%	1.78%	1.78%	2.72%	2.67%	2.67%
2030	0.90%	0.88%	0.88%	1.79%	1.76%	1.77%	2.69%	2.65%	2.65%
2031	0.88%	0.87%	0.87%	1.77%	1.74%	1.74%	2.66%	2.61%	2.62%
2032	0.88%	0.86%	0.86%	1.75%	1.72%	1.72%	2.63%	2.58%	2.59%
2033	0.87%	0.85%	0.85%	1.73%	1.70%	1.70%	2.60%	2.55%	2.56%
2034	0.85%	0.84%	0.84%	1.71%	1.68%	1.68%	2.57%	2.52%	2.52%
2035	0.85%	0.83%	0.83%	1.70%	1.66%	1.66%	2.55%	2.50%	2.50%
2036	0.83%	0.82%	0.82%	1.67%	1.64%	1.64%	2.51%	2.46%	2.47%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	9,303,964	10,457,611	19,761,575	9,465,917	10,696,402	20,162,319	9,629,267	10,937,896	20,567,163
2018	9,385,036	10,569,529	19,954,565	9,630,884	10,925,366	20,556,250	9,880,988	11,289,120	21,170,108
2019	9,466,660	10,680,026	20,146,686	9,798,407	11,153,828	20,952,235	10,138,798	11,643,263	21,782,061
2020	9,596,032	10,832,440	20,428,473	10,017,701	11,428,383	21,446,084	10,454,064	12,050,344	22,504,408
2021	9,631,295	10,899,351	20,530,646	10,140,686	11,614,347	21,755,033	10,672,333	12,368,128	23,040,461
2022	9,714,330	11,008,876	20,723,206	10,315,539	11,847,825	22,163,364	10,948,362	12,741,160	23,689,523
2023	9,797,774	11,118,540	20,916,313	10,492,754	12,083,932	22,576,686	11,230,493	13,122,128	24,352,621
2024	9,930,569	11,272,587	21,203,155	10,725,227	12,371,364	23,096,592	11,575,915	13,564,654	25,140,569
2025	9,965,802	11,338,456	21,304,258	10,854,178	12,564,457	23,418,635	11,813,202	13,908,917	25,722,119
2026	10,050,190	11,448,747	21,498,937	11,038,000	12,808,986	23,846,986	12,113,297	14,315,111	26,428,408
2027	10,134,798	11,559,378	21,694,175	11,223,847	13,056,641	24,280,488	12,419,225	14,730,440	27,149,666
2028	10,270,092	11,715,978	21,986,071	11,467,936	13,359,211	24,827,147	12,793,605	15,213,711	28,007,316
2029	10,304,347	11,781,008	22,085,355	11,600,943	13,559,930	25,160,872	13,047,697	15,586,559	28,634,256
2030	10,389,327	11,891,927	22,281,253	11,792,287	13,815,394	25,607,681	13,370,508	16,027,236	29,397,744
2031	10,473,765	12,002,684	22,476,449	11,983,969	14,072,874	26,056,844	13,696,512	16,475,512	30,172,024
2032	10,609,976	12,161,064	22,771,040	12,236,329	14,389,103	26,625,432	14,095,235	16,998,691	31,093,926
2033	10,641,135	12,223,935	22,865,069	12,368,491	14,594,361	26,962,852	14,358,320	17,395,939	31,754,259
2034	10,724,026	12,334,110	23,058,136	12,561,186	14,857,596	27,418,782	14,693,863	17,866,842	32,560,705
2035	10,806,447	12,444,598	23,251,045	12,754,267	15,123,941	27,878,208	15,032,657	18,347,542	33,380,199
2036	10,942,323	12,603,884	23,546,207	13,011,846	15,451,825	28,463,671	15,450,827	18,908,404	34,359,231

Annual Change

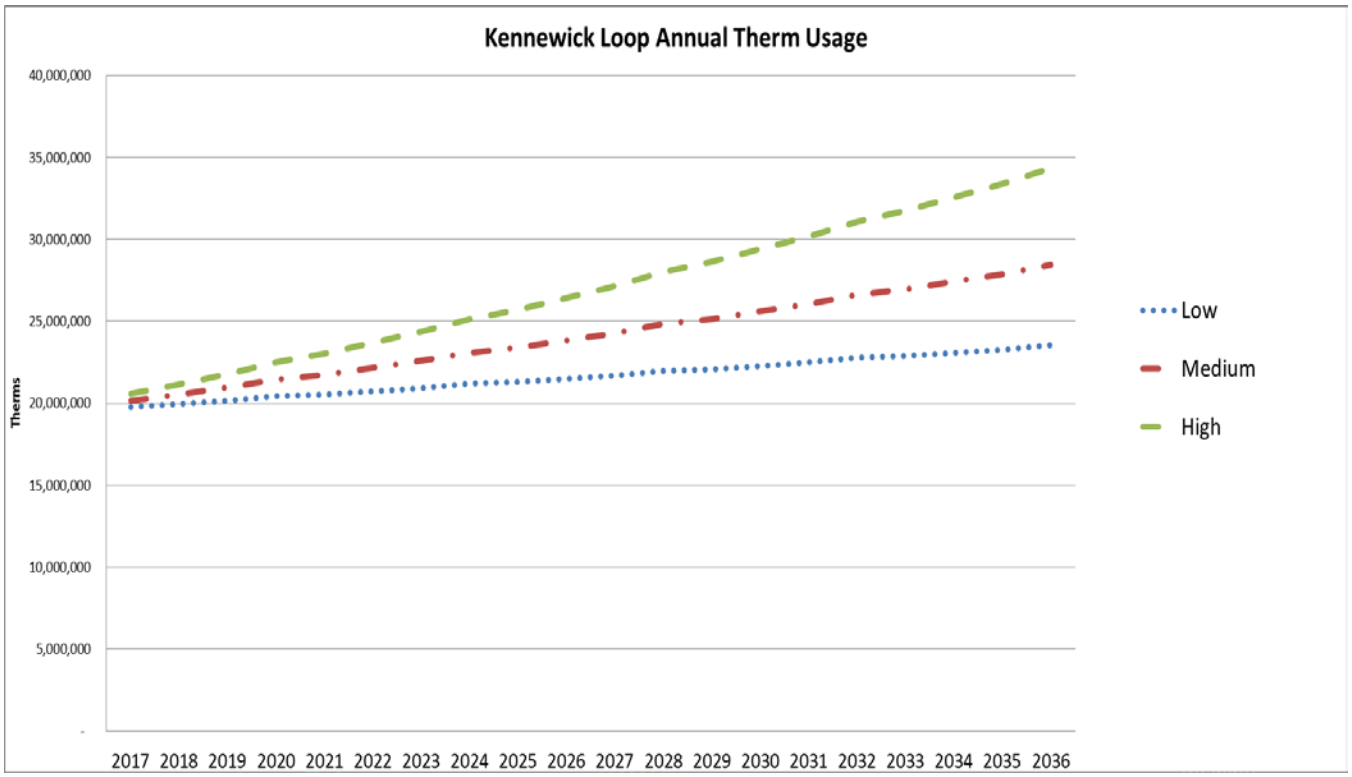
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.87%	1.07%	0.98%	1.74%	2.14%	1.95%	2.61%	3.21%	2.93%
2019	0.87%	1.05%	0.96%	1.74%	2.09%	1.93%	2.61%	3.14%	2.89%
2020	1.37%	1.43%	1.40%	2.24%	2.46%	2.36%	3.11%	3.50%	3.32%
2021	0.37%	0.62%	0.50%	1.23%	1.63%	1.44%	2.09%	2.64%	2.38%
2022	0.86%	1.00%	0.94%	1.72%	2.01%	1.88%	2.59%	3.02%	2.82%
2023	0.86%	1.00%	0.93%	1.72%	1.99%	1.86%	2.58%	2.99%	2.80%
2024	1.36%	1.39%	1.37%	2.22%	2.38%	2.30%	3.08%	3.37%	3.24%
2025	0.35%	0.58%	0.48%	1.20%	1.56%	1.39%	2.05%	2.54%	2.31%
2026	0.85%	0.97%	0.91%	1.69%	1.95%	1.83%	2.54%	2.92%	2.75%
2027	0.84%	0.97%	0.91%	1.68%	1.93%	1.82%	2.53%	2.90%	2.73%
2028	1.33%	1.35%	1.35%	2.17%	2.32%	2.25%	3.01%	3.28%	3.16%
2029	0.33%	0.56%	0.45%	1.16%	1.50%	1.34%	1.99%	2.45%	2.24%
2030	0.82%	0.94%	0.89%	1.65%	1.88%	1.78%	2.47%	2.83%	2.67%
2031	0.81%	0.93%	0.88%	1.63%	1.86%	1.75%	2.44%	2.80%	2.63%
2032	1.30%	1.32%	1.31%	2.11%	2.25%	2.18%	2.91%	3.18%	3.06%
2033	0.29%	0.52%	0.41%	1.08%	1.43%	1.27%	1.87%	2.34%	2.12%
2034	0.78%	0.90%	0.84%	1.56%	1.80%	1.69%	2.34%	2.71%	2.54%
2035	0.77%	0.90%	0.84%	1.54%	1.79%	1.68%	2.31%	2.69%	2.52%
2036	1.26%	1.28%	1.27%	2.02%	2.17%	2.10%	2.78%	3.06%	2.93%

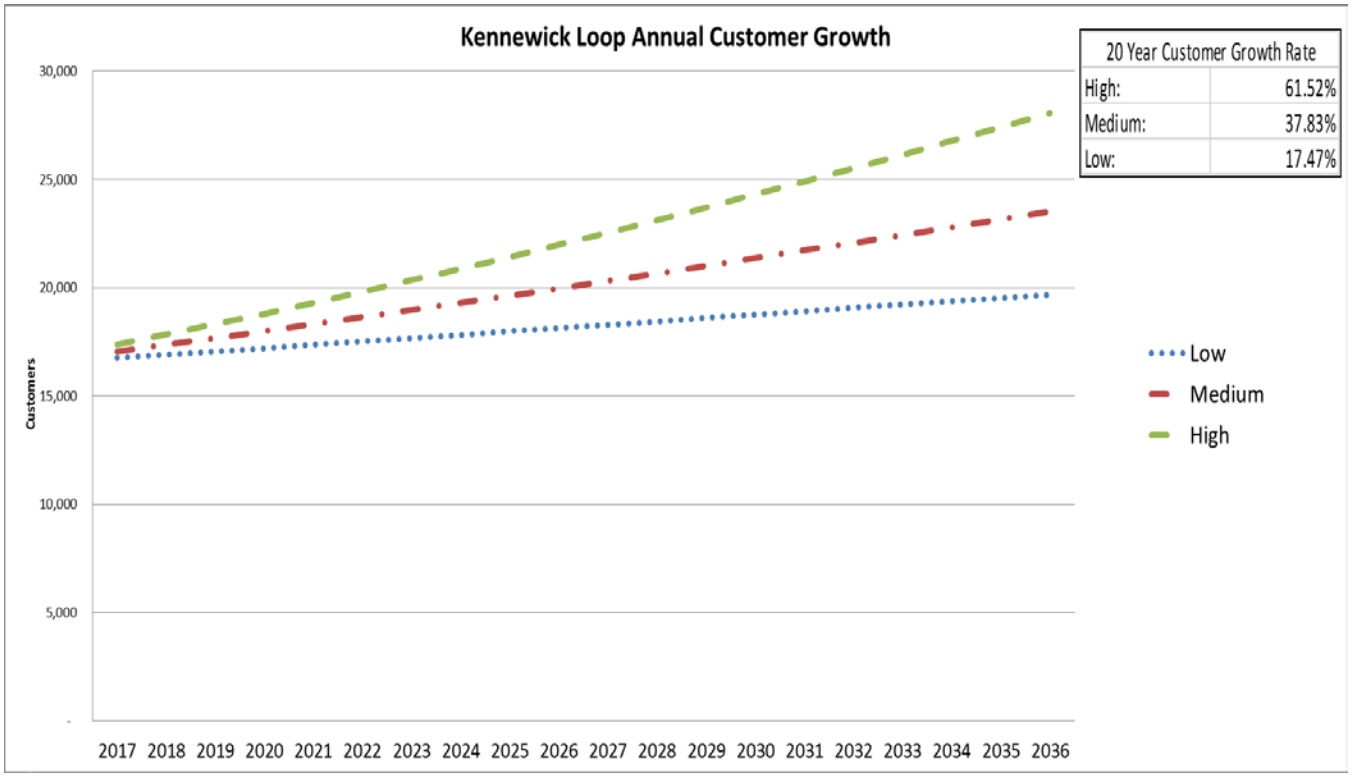
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	14,415	2,345	16,760	14,666	2,398	17,064	14,919	2,453	17,372
2018	14,541	2,370	16,911	14,922	2,450	17,372	15,309	2,532	17,841
2019	14,667	2,395	17,062	15,181	2,501	17,683	15,709	2,612	18,320
2020	14,794	2,420	17,214	15,445	2,553	17,998	16,117	2,693	18,810
2021	14,922	2,444	17,367	15,712	2,605	18,317	16,535	2,775	19,310
2022	15,051	2,469	17,520	15,982	2,658	18,640	16,963	2,859	19,822
2023	15,180	2,494	17,674	16,257	2,711	18,968	17,400	2,945	20,345
2024	15,310	2,519	17,829	16,535	2,765	19,301	17,847	3,033	20,880
2025	15,441	2,543	17,984	16,817	2,820	19,637	18,303	3,123	21,426
2026	15,571	2,568	18,140	17,102	2,875	19,977	18,768	3,215	21,983
2027	15,702	2,593	18,296	17,390	2,931	20,321	19,242	3,309	22,551
2028	15,834	2,618	18,452	17,680	2,988	20,668	19,724	3,405	23,129
2029	15,965	2,643	18,608	17,974	3,045	21,019	20,216	3,502	23,718
2030	16,097	2,668	18,765	18,270	3,103	21,373	20,716	3,602	24,318
2031	16,228	2,693	18,921	18,567	3,161	21,728	21,221	3,704	24,924
2032	16,358	2,718	19,076	18,865	3,220	22,085	21,731	3,807	25,538
2033	16,487	2,743	19,230	19,163	3,279	22,442	22,246	3,912	26,158
2034	16,615	2,768	19,384	19,462	3,338	22,800	22,766	4,018	26,784
2035	16,743	2,793	19,536	19,761	3,399	23,160	23,291	4,127	27,418
2036	16,870	2,818	19,688	20,061	3,459	23,520	23,821	4,237	28,058

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.87%	1.07%	0.90%	1.74%	2.15%	1.80%	2.61%	3.22%	2.70%
2019	0.87%	1.05%	0.90%	1.74%	2.10%	1.79%	2.61%	3.15%	2.69%
2020	0.87%	1.04%	0.89%	1.73%	2.07%	1.78%	2.60%	3.11%	2.67%
2021	0.86%	1.02%	0.89%	1.73%	2.04%	1.77%	2.59%	3.06%	2.66%
2022	0.86%	1.01%	0.88%	1.72%	2.02%	1.77%	2.59%	3.04%	2.65%
2023	0.86%	1.00%	0.88%	1.72%	2.01%	1.76%	2.58%	3.01%	2.64%
2024	0.86%	1.00%	0.88%	1.71%	1.99%	1.75%	2.57%	2.99%	2.63%
2025	0.85%	0.99%	0.87%	1.70%	1.97%	1.74%	2.56%	2.96%	2.61%
2026	0.85%	0.98%	0.87%	1.69%	1.96%	1.73%	2.54%	2.94%	2.60%
2027	0.84%	0.97%	0.86%	1.68%	1.95%	1.72%	2.53%	2.92%	2.58%
2028	0.84%	0.96%	0.85%	1.67%	1.93%	1.71%	2.51%	2.89%	2.56%
2029	0.83%	0.96%	0.85%	1.66%	1.92%	1.70%	2.49%	2.87%	2.55%
2030	0.82%	0.95%	0.84%	1.65%	1.90%	1.69%	2.47%	2.85%	2.53%
2031	0.81%	0.94%	0.83%	1.63%	1.88%	1.66%	2.44%	2.82%	2.49%
2032	0.80%	0.93%	0.82%	1.60%	1.86%	1.64%	2.40%	2.79%	2.46%
2033	0.79%	0.92%	0.81%	1.58%	1.84%	1.62%	2.37%	2.76%	2.43%
2034	0.78%	0.91%	0.80%	1.56%	1.82%	1.60%	2.34%	2.72%	2.39%
2035	0.77%	0.90%	0.79%	1.54%	1.80%	1.58%	2.31%	2.71%	2.37%
2036	0.76%	0.89%	0.78%	1.52%	1.78%	1.56%	2.28%	2.67%	2.33%





20 Year Customer Growth Rate	
High:	61.52%
Medium:	37.83%
Low:	17.47%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

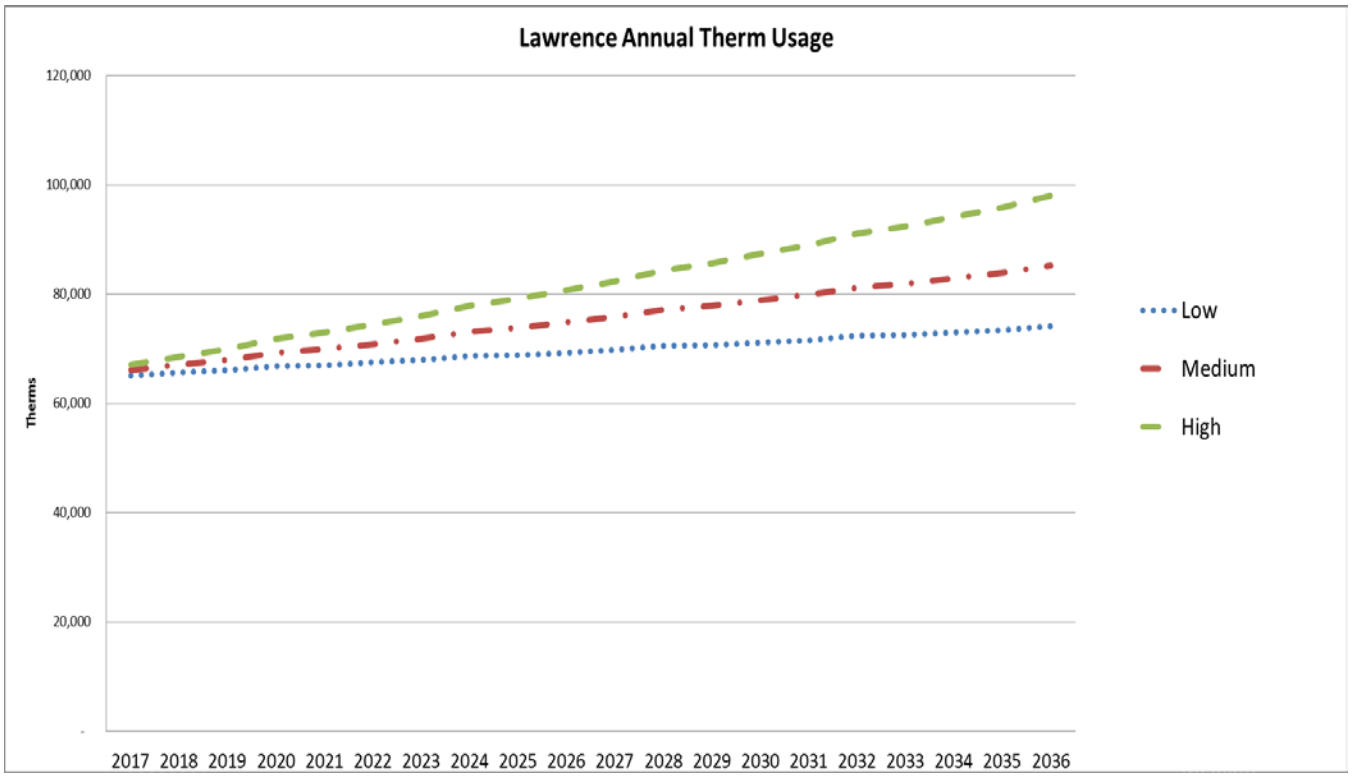
Lawrence

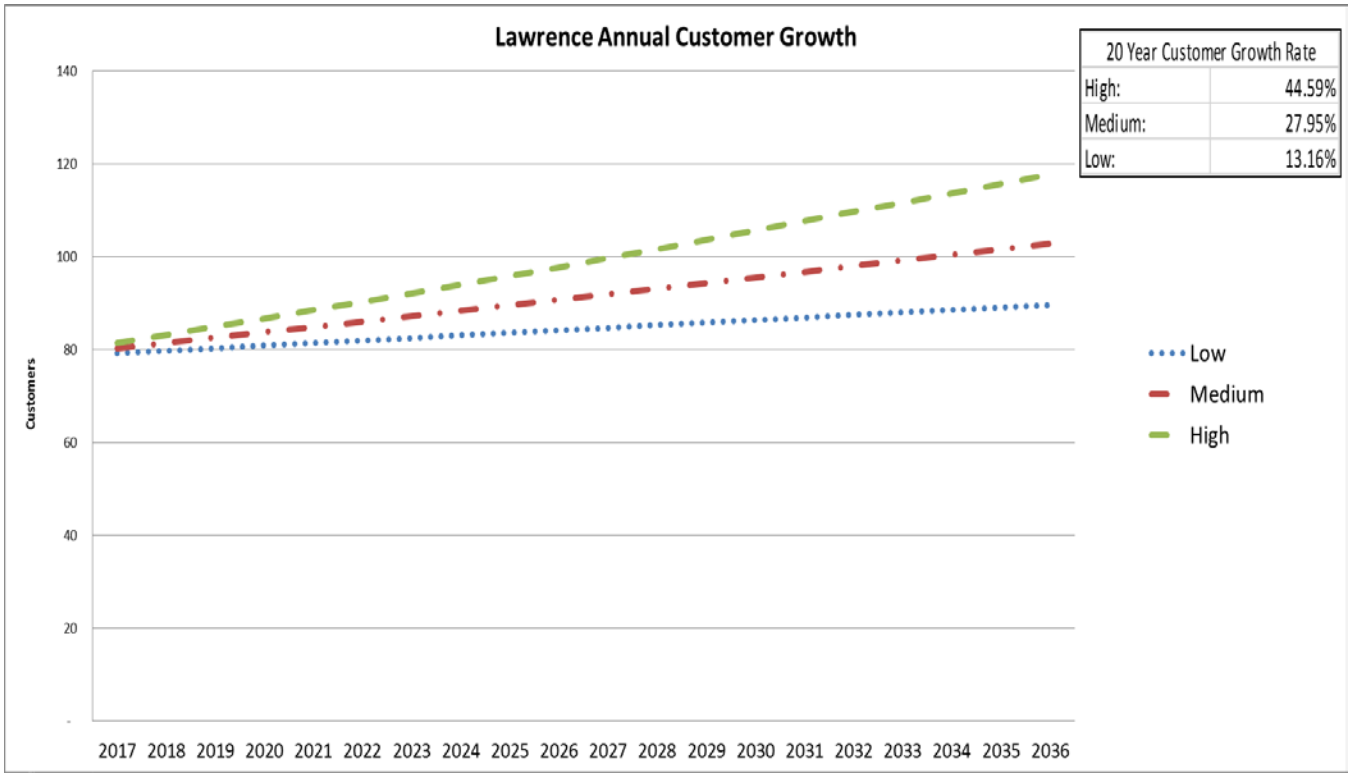
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	53,713	11,391	65,104	54,522	11,550	66,072	55,337	11,710	67,047	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	54,105	11,468	65,574	55,319	11,708	67,026	56,550	11,950	68,500	0.73%	0.68%	0.72%	1.46%	1.37%	1.44%	2.19%	2.05%	2.17%
2019	54,496	11,546	66,042	56,117	11,866	67,983	57,775	12,192	69,967	0.72%	0.68%	0.71%	1.44%	1.35%	1.43%	2.17%	2.03%	2.14%
2020	55,194	11,623	66,817	57,238	12,025	69,262	59,343	12,437	71,780	1.28%	0.67%	1.17%	2.00%	1.34%	1.88%	2.71%	2.01%	2.59%
2021	55,270	11,700	66,970	57,718	12,184	69,903	60,257	12,685	72,943	0.14%	0.66%	0.23%	0.84%	1.33%	0.92%	1.54%	1.99%	1.62%
2022	55,657	11,778	67,434	58,526	12,346	70,871	61,523	12,937	74,460	0.70%	0.66%	0.69%	1.40%	1.32%	1.39%	2.10%	1.98%	2.08%
2023	56,042	11,855	67,898	59,338	12,508	71,845	62,804	13,192	75,995	0.69%	0.66%	0.69%	1.39%	1.31%	1.37%	2.08%	1.97%	2.06%
2024	56,748	11,933	68,681	60,497	12,671	73,168	64,466	13,451	77,917	1.26%	0.65%	1.15%	1.95%	1.31%	1.84%	2.65%	1.97%	2.53%
2025	56,815	12,010	68,825	60,979	12,836	73,815	65,419	13,713	79,132	0.12%	0.65%	0.21%	0.80%	1.30%	0.88%	1.48%	1.95%	1.56%
2026	57,200	12,088	69,287	61,806	13,002	74,807	66,750	13,979	80,729	0.68%	0.64%	0.67%	1.36%	1.29%	1.34%	2.03%	1.94%	2.02%
2027	57,585	12,165	69,750	62,638	13,168	75,807	68,099	14,248	82,347	0.67%	0.64%	0.67%	1.35%	1.28%	1.34%	2.02%	1.92%	2.00%
2028	58,297	12,242	70,539	63,834	13,336	77,170	69,857	14,520	84,377	1.24%	0.64%	1.13%	1.91%	1.27%	1.80%	2.58%	1.91%	2.47%
2029	58,352	12,319	70,671	64,314	13,504	77,818	70,842	14,795	85,637	0.09%	0.63%	0.19%	0.75%	1.26%	0.84%	1.41%	1.89%	1.49%
2030	58,734	12,396	71,131	65,158	13,673	78,830	72,237	15,072	87,309	0.66%	0.62%	0.65%	1.31%	1.25%	1.30%	1.97%	1.88%	1.95%
2031	59,114	12,473	71,587	66,001	13,841	79,842	73,639	15,351	88,991	0.65%	0.62%	0.64%	1.29%	1.23%	1.28%	1.94%	1.85%	1.93%
2032	59,827	12,548	72,375	67,219	14,009	81,228	75,471	15,630	91,102	1.21%	0.60%	1.10%	1.85%	1.21%	1.74%	2.49%	1.82%	2.37%
2033	59,864	12,623	72,486	67,680	14,176	81,856	76,460	15,910	92,370	0.06%	0.60%	0.15%	0.69%	1.19%	0.77%	1.31%	1.79%	1.39%
2034	60,233	12,697	72,930	68,516	14,342	82,858	77,878	16,190	94,067	0.62%	0.58%	0.61%	1.24%	1.17%	1.22%	1.85%	1.76%	1.84%
2035	60,601	12,770	73,370	69,353	14,507	83,860	79,305	16,471	95,775	0.61%	0.58%	0.60%	1.22%	1.15%	1.21%	1.83%	1.73%	1.82%
2036	61,309	12,842	74,151	70,583	14,672	85,255	81,192	16,751	97,943	1.17%	0.57%	1.06%	1.77%	1.14%	1.66%	2.38%	1.71%	2.26%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	31	706	737	32	717	748	32	727	759	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	31	711	743	32	727	759	33	743	776	0.68%	0.73%	0.73%	1.37%	1.46%	1.46%	2.05%	2.20%	2.19%
2019	32	716	748	33	738	770	33	759	793	0.68%	0.72%	0.72%	1.35%	1.44%	1.44%	2.03%	2.17%	2.16%
2020	32	721	753	33	748	781	34	776	810	0.67%	0.71%	0.71%	1.34%	1.43%	1.42%	2.01%	2.14%	2.13%
2021	32	726	758	33	759	792	35	792	827	0.66%	0.71%	0.70%	1.33%	1.41%	1.41%	1.99%	2.12%	2.11%
2022	32	732	764	34	769	803	35	809	844	0.66%	0.70%	0.70%	1.32%	1.40%	1.40%	1.98%	2.10%	2.10%
2023	32	737	769	34	780	814	36	826	862	0.66%	0.69%	0.69%	1.31%	1.39%	1.39%	1.97%	2.08%	2.08%
2024	33	742	774	35	791	825	37	843	880	0.65%	0.69%	0.69%	1.31%	1.38%	1.38%	1.97%	2.07%	2.07%
2025	33	747	780	35	802	837	38	860	898	0.65%	0.68%	0.68%	1.30%	1.37%	1.37%	1.95%	2.05%	2.05%
2026	33	752	785	36	812	848	38	878	916	0.64%	0.68%	0.68%	1.29%	1.36%	1.35%	1.94%	2.04%	2.03%
2027	33	757	790	36	823	859	39	895	934	0.64%	0.67%	0.67%	1.28%	1.35%	1.35%	1.92%	2.02%	2.02%
2028	34	762	795	37	834	871	40	913	953	0.64%	0.67%	0.67%	1.27%	1.34%	1.33%	1.91%	2.01%	2.00%
2029	34	767	801	37	845	882	41	931	972	0.63%	0.66%	0.66%	1.26%	1.32%	1.32%	1.89%	1.98%	1.98%
2030	34	772	806	37	857	894	41	950	991	0.62%	0.66%	0.65%	1.25%	1.31%	1.31%	1.88%	1.97%	1.97%
2031	34	777	811	38	868	906	42	968	1,010	0.62%	0.65%	0.65%	1.23%	1.29%	1.29%	1.85%	1.94%	1.94%
2032	34	782	816	38	879	917	43	987	1,029	0.60%	0.64%	0.64%	1.21%	1.28%	1.27%	1.82%	1.91%	1.91%
2033	35	787	821	39	890	929	44	1,005	1,049	0.60%	0.63%	0.63%	1.19%	1.26%	1.25%	1.79%	1.88%	1.88%
2034	35	792	827	39	901	940	44	1,024	1,068	0.58%	0.62%	0.62%	1.17%	1.24%	1.23%	1.76%	1.86%	1.85%
2035	35	797	832	40	912	951	45	1,043	1,088	0.58%	0.61%	0.61%	1.15%	1.22%	1.22%	1.73%	1.83%	1.83%
2036	35	801	837	40	923	963	46	1,062	1,107	0.57%	0.60%	0.60%	1.14%	1.20%	1.20%	1.71%	1.81%	1.80%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	43,927	21,177	65,104	44,508	21,564	66,072	45,093	21,954	67,047	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	44,218	21,356	65,574	45,098	21,928	67,026	45,990	22,511	68,500	0.66%	0.84%	0.72%	1.33%	1.69%	1.44%	1.99%	2.53%	2.17%
2019	44,511	21,531	66,042	45,696	22,287	67,983	46,904	23,064	69,967	0.66%	0.82%	0.71%	1.33%	1.64%	1.43%	1.99%	2.46%	2.14%
2020	45,010	21,807	66,817	46,512	22,751	69,262	48,053	23,727	71,780	1.12%	1.28%	1.17%	1.79%	2.08%	1.88%	2.45%	2.88%	2.59%
2021	45,101	21,869	66,970	46,911	22,992	69,903	48,781	24,161	72,943	0.20%	0.29%	0.23%	0.86%	1.06%	0.92%	1.52%	1.83%	1.62%
2022	45,398	22,036	67,434	47,529	23,342	70,871	49,745	24,714	74,460	0.66%	0.76%	0.69%	1.32%	1.53%	1.39%	1.98%	2.29%	2.08%
2023	45,697	22,201	67,898	48,154	23,692	71,845	50,726	25,269	75,995	0.66%	0.75%	0.69%	1.31%	1.50%	1.37%	1.97%	2.24%	2.06%
2024	46,207	22,474	68,681	49,009	24,159	73,168	51,960	25,957	77,917	1.12%	1.23%	1.15%	1.77%	1.97%	1.84%	2.43%	2.72%	2.53%
2025	46,296	22,528	68,825	49,422	24,393	73,815	52,736	26,396	79,132	0.19%	0.24%	0.21%	0.84%	0.97%	0.88%	1.49%	1.69%	1.56%
2026	46,597	22,690	69,287	50,063	24,744	74,807	53,763	26,966	80,729	0.65%	0.72%	0.67%	1.30%	1.44%	1.34%	1.95%	2.16%	2.02%
2027	46,898	22,852	69,750	50,710	25,097	75,807	54,804	27,543	82,347	0.65%	0.71%	0.67%	1.29%	1.43%	1.34%	1.94%	2.14%	2.00%
2028	47,414	23,125	70,539	51,595	25,575	77,170	56,113	28,264	84,377	1.10%	1.20%	1.13%	1.74%	1.91%	1.80%	2.39%	2.62%	2.47%
2029	47,499	23,173	70,671	52,014	25,804	77,818	56,924	28,712	85,637	0.18%	0.21%	0.19%	0.81%	0.90%	0.84%	1.45%	1.59%	1.49%
2030	47,799	23,332	71,131	52,671	26,159	78,830	58,004	29,305	87,309	0.63%	0.69%	0.65%	1.26%	1.37%	1.30%	1.90%	2.06%	1.95%
2031	48,096	23,491	71,587	53,326	26,516	79,842	59,086	29,904	88,991	0.62%	0.68%	0.64%	1.24%	1.36%	1.28%	1.87%	2.04%	1.93%
2032	48,612	23,763	72,375	54,226	27,002	81,228	60,446	30,656	91,102	1.07%	1.16%	1.10%	1.69%	1.84%	1.74%	2.30%	2.51%	2.37%
2033	48,682	23,805	72,486	54,629	27,227	81,856	61,258	31,112	92,370	0.14%	0.17%	0.15%	0.74%	0.83%	0.77%	1.34%	1.49%	1.39%
2034	48,970	23,960	72,930	55,276	27,582	82,858	62,346	31,721	94,067	0.59%	0.65%	0.61%	1.18%	1.30%	1.22%	1.78%	1.96%	1.84%
2035	49,256	24,115	73,370	55,921	27,939	83,860	63,437	32,338	95,775	0.58%	0.65%	0.60%	1.17%	1.30%	1.21%	1.75%	1.95%	1.82%
2036	49,765	24,386	74,151	56,822	28,433	85,255	64,826	33,117	97,943	1.03%	1.13%	1.06%	1.61%	1.77%	1.66%	2.19%	2.41%	2.26%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	61	18	79	62	19	80	63	19	81	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	61	18	80	63	19	81	64	19	83	0.66%	0.84%	0.70%	1.33%	1.68%	1.41%	1.99%	2.52%	2.11%
2019	62	19	80	63	19	83	65	20	85	0.66%	0.81%	0.70%	1.33%	1.62%	1.39%	1.99%	2.43%	2.09%
2020	62	19	81	64	19	84	66	20	87	0.66%	0.78%	0.69%	1.32%	1.57%	1.38%	1.98%	2.36%	2.07%
2021	63	19	81	65	20	85	68	21	89	0.66%	0.77%	0.68%	1.32%	1.54%	1.37%	1.98%	2.30%	2.06%
2022	63	19	82	66	20	86	69	21	90	0.66%	0.75%	0.68%	1.32%	1.51%	1.36%	1.98%	2.27%	2.04%
2023	63	19	83	67	20	87	70	22	92	0.66%	0.74%	0.68%	1.31%	1.48%	1.35%	1.97%	2.22%	2.03%
2024	64	19	83	68	21	88	72	22	94	0.66%	0.73%	0.67%	1.31%	1.47%	1.35%	1.97%	2.20%	2.02%
2025	64	19	84	69	21	90	73	23	96	0.65%	0.72%	0.67%	1.30%	1.44%	1.34%	1.96%	2.17%	2.01%
2026	65	20	84	69	21	91	75	23	98	0.65%	0.71%	0.66%	1.30%	1.42%	1.33%	1.95%	2.14%	1.99%
2027	65	20	85	70	22	92	76	24	100	0.65%	0.70%	0.66%	1.29%	1.41%	1.32%	1.94%	2.12%	1.98%
2028	66	20	85	71	22	93	78	24	102	0.64%	0.70%	0.65%	1.28%	1.40%	1.31%	1.92%	2.10%	1.96%
2029	66	20	86	72	22	94	79	25	104	0.64%	0.69%	0.65%	1.27%	1.37%	1.30%	1.91%	2.06%	1.95%
2030	66	20	86	73	22	96	81	25	106	0.63%	0.68%	0.64%	1.26%	1.36%	1.29%	1.90%	2.04%	1.93%
2031	67	20	87	74	23	97	82	26	108	0.62%	0.67%	0.63%	1.24%	1.35%	1.27%	1.87%	2.02%	1.90%
2032	67	20	88	75	23	98	84	26	110	0.61%	0.66%	0.62%	1.22%	1.33%	1.25%	1.84%	1.99%	1.87%
2033	68	20	88	76	23	99	85	27	112	0.60%	0.65%	0.61%	1.20%	1.31%	1.23%	1.81%	1.96%	1.84%
2034	68	21	89	77	24	100	87	27	114	0.59%	0.64%	0.60%	1.18%	1.29%	1.21%	1.78%	1.93%	1.81%
2035	68	21	89	78	24	102	88	28	116	0.58%	0.64%	0.60%	1.17%	1.28%	1.19%	1.75%	1.92%	1.79%
2036	69	21	90	79	24	103	90	28	118	0.57%	0.63%	0.59%	1.15%	1.26%	1.17%	1.72%	1.89%	1.76%





20 Year Customer Growth Rate	
High:	44.59%
Medium:	27.95%
Low:	13.16%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

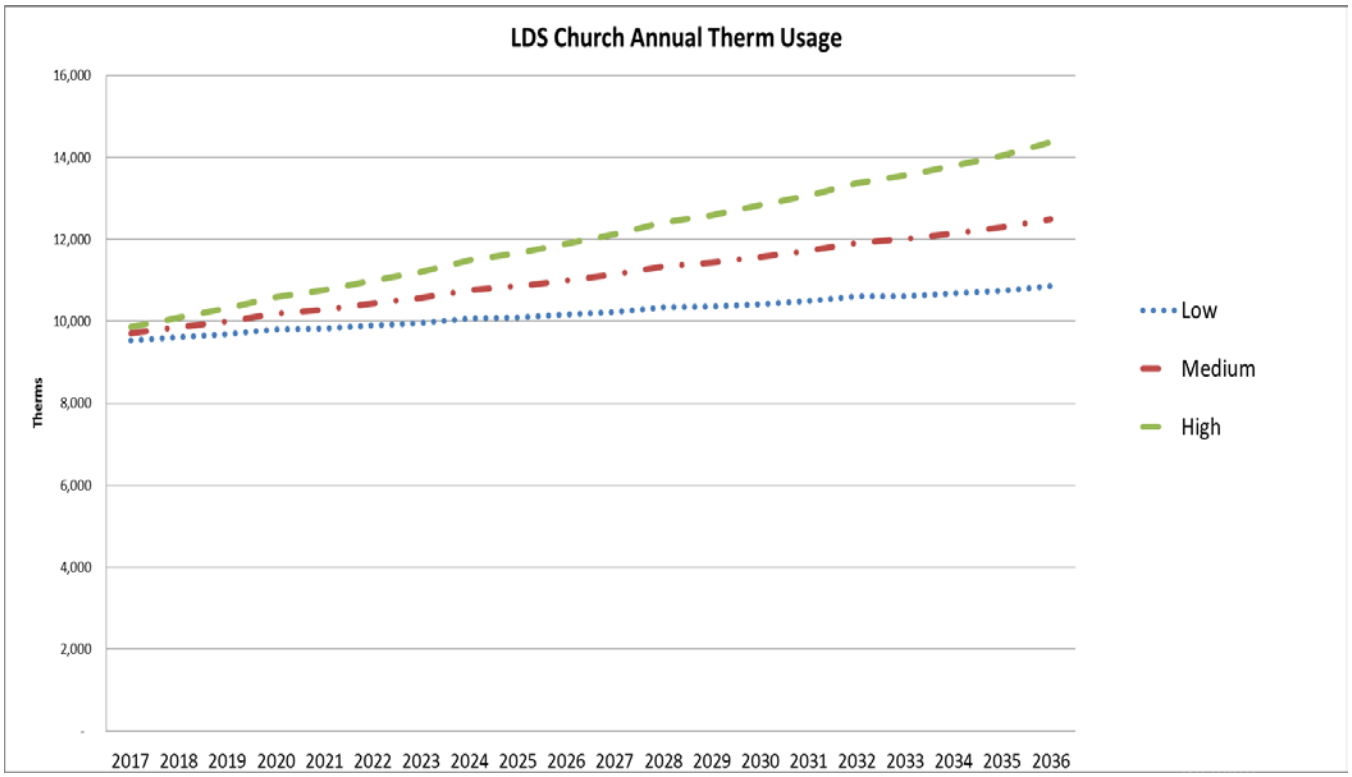
LDS Church

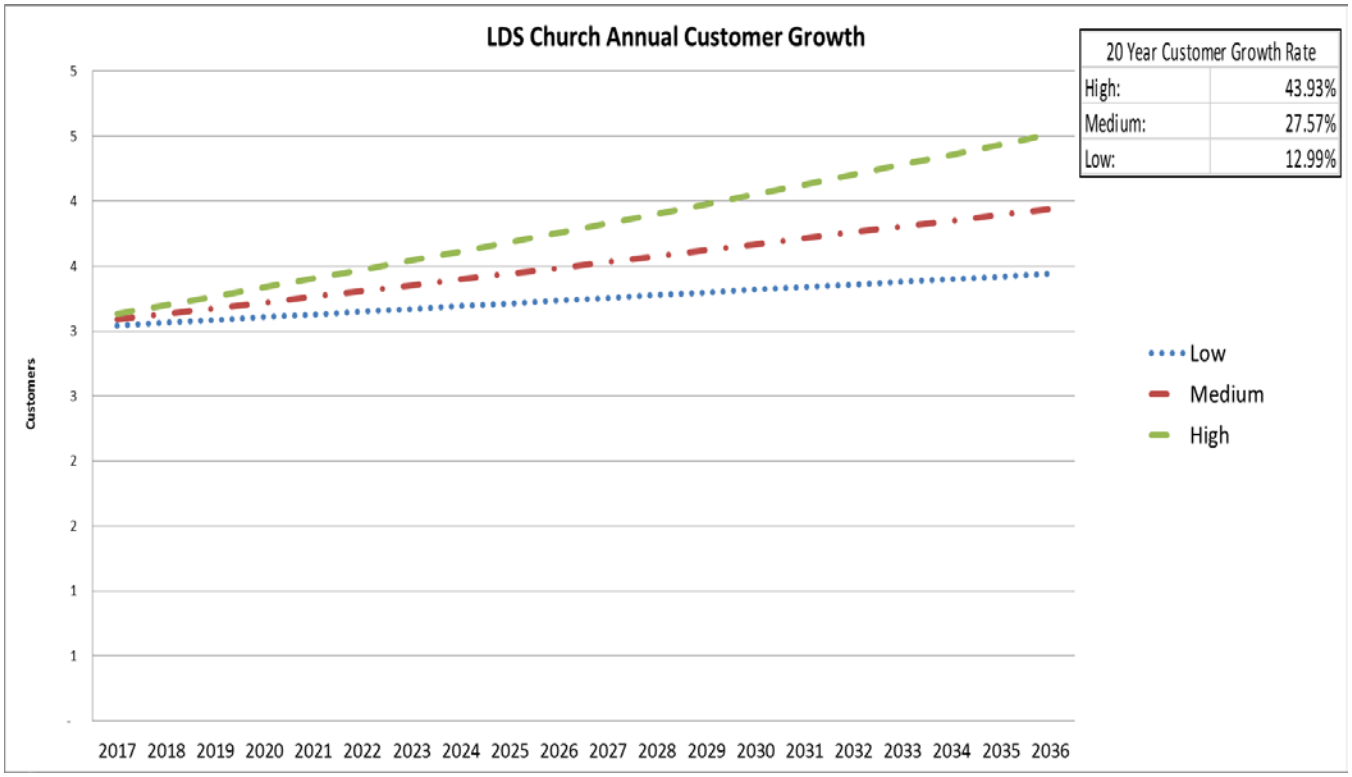
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	9,136	410	9,546	9,289	417	9,706	9,443	424	9,867	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	9,206	413	9,619	9,431	424	9,854	9,659	434	10,094	0.77%	0.78%	0.77%	1.53%	1.57%	1.53%	2.30%	2.35%	2.30%
2019	9,274	416	9,691	9,571	430	10,000	9,874	444	10,318	0.74%	0.75%	0.74%	1.48%	1.51%	1.48%	2.22%	2.26%	2.22%
2020	9,390	419	9,809	9,759	436	10,195	10,140	454	10,593	1.25%	0.73%	1.22%	1.97%	1.46%	1.95%	2.69%	2.19%	2.67%
2021	9,407	422	9,829	9,845	442	10,287	10,300	463	10,763	0.18%	0.71%	0.20%	0.88%	1.42%	0.90%	1.58%	2.13%	1.60%
2022	9,472	425	9,897	9,981	449	10,430	10,514	473	10,987	0.69%	0.70%	0.69%	1.39%	1.40%	1.39%	2.08%	2.10%	2.08%
2023	9,536	428	9,964	10,117	455	10,572	10,729	483	11,211	0.68%	0.68%	0.68%	1.36%	1.37%	1.36%	2.04%	2.05%	2.04%
2024	9,651	431	10,082	10,307	461	10,768	11,003	493	11,495	1.20%	0.68%	1.18%	1.88%	1.35%	1.85%	2.55%	2.03%	2.53%
2025	9,664	434	10,098	10,389	467	10,856	11,163	502	11,665	0.14%	0.66%	0.16%	0.80%	1.33%	0.82%	1.46%	1.99%	1.48%
2026	9,727	437	10,164	10,525	473	10,998	11,382	512	11,895	0.65%	0.66%	0.65%	1.31%	1.31%	1.31%	1.96%	1.97%	1.96%
2027	9,791	440	10,230	10,662	479	11,141	11,604	522	12,127	0.65%	0.65%	0.65%	1.30%	1.30%	1.30%	1.95%	1.95%	1.95%
2028	9,905	442	10,347	10,856	485	11,341	11,890	532	12,422	1.17%	0.64%	1.15%	1.82%	1.29%	1.79%	2.46%	1.93%	2.44%
2029	9,916	445	10,361	10,936	492	11,428	12,053	543	12,596	0.11%	0.64%	0.13%	0.74%	1.27%	0.77%	1.38%	1.91%	1.40%
2030	9,979	448	10,427	11,074	498	11,572	12,281	553	12,834	0.63%	0.63%	0.63%	1.26%	1.26%	1.26%	1.89%	1.89%	1.89%
2031	10,041	451	10,492	11,212	504	11,716	12,511	563	13,074	0.62%	0.62%	0.62%	1.25%	1.25%	1.25%	1.87%	1.87%	1.87%
2032	10,155	454	10,609	11,410	510	11,920	12,809	574	13,382	1.14%	0.62%	1.12%	1.76%	1.23%	1.74%	2.38%	1.85%	2.36%
2033	10,164	456	10,620	11,488	516	12,005	12,974	584	13,558	0.08%	0.61%	0.11%	0.69%	1.22%	0.71%	1.29%	1.83%	1.32%
2034	10,225	459	10,684	11,626	523	12,149	13,208	595	13,802	0.60%	0.60%	0.60%	1.20%	1.20%	1.20%	1.80%	1.80%	1.80%
2035	10,286	462	10,748	11,765	529	12,293	13,444	605	14,049	0.60%	0.60%	0.60%	1.19%	1.20%	1.19%	1.79%	1.79%	1.79%
2036	10,400	465	10,865	11,965	535	12,500	13,752	616	14,368	1.11%	0.59%	1.09%	1.70%	1.18%	1.68%	2.30%	1.77%	2.27%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	1	120	121	1	122	123	1	124	125	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1	121	122	1	124	125	1	127	128	0.78%	0.77%	0.77%	1.57%	1.53%	1.53%	2.35%	2.30%	2.30%
2019	1	122	123	1	126	127	1	130	131	0.75%	0.74%	0.74%	1.51%	1.48%	1.48%	2.26%	2.22%	2.22%
2020	1	123	124	1	127	129	1	132	134	0.73%	0.72%	0.72%	1.46%	1.44%	1.44%	2.19%	2.16%	2.16%
2021	1	124	125	1	129	130	1	135	137	0.71%	0.70%	0.70%	1.42%	1.41%	1.41%	2.13%	2.11%	2.11%
2022	1	124	126	1	131	132	1	138	139	0.70%	0.69%	0.69%	1.40%	1.39%	1.39%	2.10%	2.08%	2.08%
2023	1	125	126	1	133	134	1	141	142	0.68%	0.68%	0.68%	1.37%	1.36%	1.36%	2.05%	2.04%	2.04%
2024	1	126	127	1	135	136	1	144	145	0.68%	0.67%	0.67%	1.35%	1.35%	1.35%	2.03%	2.02%	2.02%
2025	1	127	128	1	136	138	1	147	148	0.66%	0.66%	0.66%	1.33%	1.33%	1.33%	1.99%	1.99%	1.99%
2026	1	128	129	1	138	140	1	149	151	0.66%	0.65%	0.65%	1.31%	1.31%	1.31%	1.97%	1.96%	1.96%
2027	1	129	130	1	140	141	1	152	154	0.65%	0.65%	0.65%	1.30%	1.30%	1.30%	1.95%	1.95%	1.95%
2028	1	129	131	1	142	143	1	155	157	0.64%	0.64%	0.64%	1.29%	1.29%	1.29%	1.93%	1.93%	1.93%
2029	1	130	131	1	144	145	1	158	160	0.64%	0.64%	0.64%	1.27%	1.27%	1.27%	1.91%	1.91%	1.91%
2030	1	131	132	1	145	147	2	161	163	0.63%	0.63%	0.63%	1.26%	1.26%	1.26%	1.89%	1.89%	1.89%
2031	1	132	133	1	147	149	2	164	166	0.62%	0.62%	0.62%	1.25%	1.25%	1.25%	1.87%	1.87%	1.87%
2032	1	133	134	1	149	150	2	167	169	0.62%	0.62%	0.62%	1.23%	1.23%	1.23%	1.85%	1.85%	1.85%
2033	1	133	135	1	151	152	2	170	172	0.61%	0.61%	0.61%	1.22%	1.22%	1.22%	1.83%	1.82%	1.82%
2034	1	134	136	1	153	154	2	173	175	0.60%	0.60%	0.60%	1.20%	1.20%	1.20%	1.80%	1.80%	1.80%
2035	1	135	136	1	154	156	2	177	178	0.60%	0.60%	0.60%	1.20%	1.19%	1.19%	1.79%	1.79%	1.79%
2036	1	136	137	1	156	158	2	180	181	0.59%	0.59%	0.59%	1.18%	1.18%	1.18%	1.77%	1.76%	1.76%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,539	7,008	9,546	2,572	7,134	9,706	2,606	7,261	9,867	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,555	7,064	9,619	2,606	7,248	9,854	2,658	7,436	10,094	0.66%	0.80%	0.77%	1.33%	1.61%	1.53%	1.99%	2.41%	2.30%
2019	2,572	7,118	9,691	2,641	7,360	10,000	2,711	7,607	10,318	0.66%	0.77%	0.74%	1.33%	1.54%	1.48%	1.99%	2.31%	2.22%
2020	2,602	7,207	9,809	2,689	7,506	10,195	2,778	7,815	10,593	1.17%	1.24%	1.22%	1.84%	1.99%	1.95%	2.50%	2.73%	2.67%
2021	2,606	7,222	9,829	2,711	7,576	10,287	2,819	7,944	10,763	0.15%	0.22%	0.20%	0.81%	0.94%	0.90%	1.47%	1.65%	1.60%
2022	2,624	7,273	9,897	2,747	7,683	10,430	2,875	8,112	10,987	0.66%	0.71%	0.69%	1.32%	1.41%	1.39%	1.98%	2.12%	2.08%
2023	2,641	7,324	9,964	2,783	7,789	10,572	2,931	8,280	11,211	0.66%	0.69%	0.68%	1.31%	1.38%	1.36%	1.97%	2.07%	2.04%
2024	2,672	7,410	10,082	2,834	7,934	10,768	3,004	8,491	11,495	1.17%	1.18%	1.18%	1.82%	1.86%	1.85%	2.48%	2.55%	2.53%
2025	2,675	7,423	10,098	2,856	8,000	10,856	3,048	8,618	11,665	0.14%	0.17%	0.16%	0.79%	0.83%	0.82%	1.44%	1.50%	1.48%
2026	2,693	7,471	10,164	2,893	8,105	10,998	3,107	8,788	11,895	0.65%	0.66%	0.65%	1.30%	1.31%	1.31%	1.95%	1.97%	1.96%
2027	2,710	7,520	10,230	2,931	8,211	11,141	3,167	8,959	12,127	0.65%	0.65%	0.65%	1.29%	1.30%	1.30%	1.94%	1.95%	1.95%
2028	2,741	7,606	10,347	2,983	8,358	11,341	3,244	9,178	12,422	1.15%	1.15%	1.15%	1.79%	1.79%	1.79%	2.44%	2.44%	2.44%
2029	2,745	7,616	10,361	3,006	8,422	11,428	3,290	9,306	12,596	0.13%	0.14%	0.13%	0.76%	0.77%	0.77%	1.40%	1.40%	1.40%
2030	2,762	7,664	10,427	3,044	8,528	11,572	3,352	9,482	12,834	0.63%	0.63%	0.63%	1.26%	1.26%	1.26%	1.90%	1.89%	1.89%
2031	2,780	7,712	10,492	3,082	8,635	11,716	3,415	9,659	13,074	0.62%	0.62%	0.62%	1.24%	1.25%	1.25%	1.87%	1.87%	1.87%
2032	2,811	7,798	10,609	3,135	8,785	11,920	3,495	9,887	13,382	1.12%	1.12%	1.12%	1.74%	1.74%	1.74%	2.35%	2.36%	2.36%
2033	2,813	7,807	10,620	3,157	8,848	12,005	3,540	10,018	13,558	0.09%	0.11%	0.11%	0.69%	0.72%	0.71%	1.29%	1.32%	1.32%
2034	2,830	7,854	10,684	3,194	8,954	12,149	3,603	10,199	13,802	0.59%	0.60%	0.60%	1.18%	1.21%	1.20%	1.78%	1.81%	1.80%
2035	2,847	7,901	10,748	3,232	9,062	12,293	3,666	10,383	14,049	0.58%	0.60%	0.60%	1.17%	1.20%	1.19%	1.75%	1.80%	1.79%
2036	2,877	7,988	10,865	3,285	9,215	12,500	3,748	10,620	14,368	1.08%	1.09%	1.09%	1.66%	1.69%	1.68%	2.24%	2.28%	2.27%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2	1	3	2	1	3	2	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2	1	3	2	1	3	2	1	3	0.66%	0.80%	0.71%	1.33%	1.61%	1.42%	1.99%	2.41%	2.13%
2019	2	1	3	2	1	3	2	1	3	0.66%	0.77%	0.70%	1.33%	1.54%	1.40%	1.99%	2.31%	2.10%
2020	2	1	3	2	1	3	2	1	3	0.66%	0.74%	0.69%	1.32%	1.48%	1.38%	1.98%	2.22%	2.06%
2021	2	1	3	2	1	3	2	1	3	0.66%	0.72%	0.68%	1.32%	1.44%	1.36%	1.98%	2.16%	2.04%
2022	2	1	3	2	1	3	2	1	3	0.66%	0.71%	0.67%	1.32%	1.41%	1.35%	1.98%	2.12%	2.02%
2023	2	1	3	2	1	3	2	1	4	0.66%	0.69%	0.67%	1.31%	1.38%	1.34%	1.97%	2.07%	2.00%
2024	2	1	3	2	1	3	2	1	4	0.66%	0.68%	0.66%	1.31%	1.36%	1.33%	1.97%	2.04%	1.99%
2025	2	1	3	2	1	3	2	1	4	0.65%	0.67%	0.66%	1.30%	1.33%	1.31%	1.96%	2.00%	1.97%
2026	2	1	3	2	1	3	2	1	4	0.65%	0.66%	0.65%	1.30%	1.31%	1.30%	1.95%	1.97%	1.96%
2027	2	1	3	2	1	4	3	1	4	0.65%	0.65%	0.65%	1.29%	1.30%	1.29%	1.94%	1.95%	1.94%
2028	2	1	3	2	1	4	3	1	4	0.64%	0.64%	0.64%	1.28%	1.29%	1.28%	1.92%	1.93%	1.93%
2029	2	1	3	2	1	4	3	1	4	0.64%	0.63%	0.64%	1.27%	1.27%	1.27%	1.91%	1.90%	1.91%
2030	2	1	3	2	1	4	3	1	4	0.63%	0.63%	0.63%	1.26%	1.26%	1.26%	1.90%	1.89%	1.89%
2031	2	1	3	2	1	4	3	1	4	0.62%	0.62%	0.62%	1.24%	1.25%	1.24%	1.87%	1.87%	1.87%
2032	2	1	3	2	1	4	3	1	4	0.61%	0.62%	0.61%	1.22%	1.23%	1.23%	1.84%	1.85%	1.84%
2033	2	1	3	3	1	4	3	1	4	0.60%	0.61%	0.60%	1.20%	1.22%	1.21%	1.81%	1.83%	1.81%
2034	2	1	3	3	1	4	3	1	4	0.59%	0.60%	0.60%	1.18%	1.21%	1.19%	1.78%	1.81%	1.79%
2035	2	1	3	3	1	4	3	2	4	0.58%	0.60%	0.59%	1.17%	1.20%	1.18%	1.75%	1.80%	1.77%
2036	2	1	3	3	1	4	3	2	5	0.57%	0.59%	0.58%	1.15%	1.19%	1.16%	1.72%	1.78%	1.74%





20 Year Customer Growth Rate	
High:	43.93%
Medium:	27.57%
Low:	12.99%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Longview South Loop

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	3,600,607	1,761,289	5,361,896	3,653,556	1,787,123	5,440,679	3,706,925	1,813,160	5,520,085
2018	3,624,299	1,772,712	5,397,011	3,701,699	1,810,334	5,512,033	3,780,290	1,848,528	5,628,818
2019	3,647,279	1,783,684	5,430,963	3,748,732	1,832,788	5,581,520	3,852,474	1,882,987	5,735,461
2020	3,692,961	1,794,231	5,487,193	3,818,942	1,854,574	5,673,516	3,948,646	1,916,677	5,865,323
2021	3,691,177	1,804,361	5,495,538	3,839,848	1,875,870	5,715,718	3,993,923	1,949,940	5,943,863
2022	3,712,416	1,814,217	5,526,634	3,884,662	1,896,896	5,781,558	4,064,330	1,983,076	6,047,406
2023	3,733,270	1,823,872	5,557,142	3,929,089	1,917,768	5,846,857	4,134,640	2,016,243	6,150,883
2024	3,777,626	1,833,234	5,610,860	3,998,391	1,938,282	5,936,673	4,231,571	2,049,116	6,280,688
2025	3,774,099	1,842,516	5,616,615	4,017,335	1,958,883	5,976,218	4,275,842	2,082,393	6,358,235
2026	3,794,321	1,851,716	5,646,037	4,061,564	1,979,471	6,041,036	4,347,327	2,115,869	6,463,196
2027	3,814,255	1,860,740	5,674,995	4,105,546	1,999,906	6,105,452	4,418,902	2,149,348	6,568,250
2028	3,858,209	1,869,554	5,727,762	4,175,437	2,020,071	6,195,507	4,518,712	2,182,620	6,701,331
2029	3,853,215	1,878,292	5,731,507	4,192,501	2,040,219	6,232,720	4,561,793	2,216,073	6,777,866
2030	3,872,429	1,886,920	5,759,349	4,235,861	2,060,309	6,296,170	4,633,721	2,249,654	6,883,375
2031	3,891,295	1,895,386	5,786,681	4,278,714	2,080,158	6,358,873	4,705,240	2,283,034	6,988,273
2032	3,934,766	1,903,708	5,838,474	4,348,770	2,099,875	6,448,645	4,807,111	2,316,417	7,123,528
2033	3,927,891	1,911,780	5,839,671	4,362,762	2,119,136	6,481,899	4,846,797	2,349,219	7,196,016
2034	3,945,851	1,919,804	5,865,655	4,404,418	2,138,429	6,542,847	4,917,582	2,382,270	7,299,852
2035	3,963,214	1,927,560	5,890,774	4,444,988	2,157,262	6,602,250	4,986,922	2,414,741	7,401,663
2036	4,005,823	1,935,248	5,941,072	4,514,176	2,176,074	6,690,250	5,088,982	2,447,368	7,536,350

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.66%	0.65%	0.65%	1.32%	1.30%	1.31%	1.98%	1.95%	1.97%
2019	0.63%	0.62%	0.63%	1.27%	1.24%	1.26%	1.91%	1.86%	1.89%
2020	1.25%	0.59%	1.04%	1.87%	1.19%	1.65%	2.50%	1.79%	2.26%
2021	-0.05%	0.56%	0.15%	0.55%	1.15%	0.74%	1.15%	1.74%	1.34%
2022	0.58%	0.55%	0.57%	1.17%	1.12%	1.15%	1.76%	1.70%	1.74%
2023	0.56%	0.53%	0.55%	1.14%	1.10%	1.13%	1.73%	1.67%	1.71%
2024	1.19%	0.51%	0.97%	1.76%	1.07%	1.54%	2.34%	1.63%	2.11%
2025	-0.09%	0.51%	0.10%	0.47%	1.06%	0.67%	1.05%	1.62%	1.23%
2026	0.54%	0.50%	0.52%	1.10%	1.05%	1.08%	1.67%	1.61%	1.65%
2027	0.53%	0.49%	0.51%	1.08%	1.03%	1.07%	1.65%	1.58%	1.63%
2028	1.15%	0.47%	0.93%	1.70%	1.01%	1.48%	2.26%	1.55%	2.03%
2029	-0.13%	0.47%	0.07%	0.41%	1.00%	0.60%	0.95%	1.53%	1.14%
2030	0.50%	0.46%	0.49%	1.03%	0.98%	1.02%	1.58%	1.52%	1.56%
2031	0.49%	0.45%	0.47%	1.01%	0.96%	1.00%	1.54%	1.48%	1.52%
2032	1.12%	0.44%	0.90%	1.64%	0.95%	1.41%	2.17%	1.46%	1.94%
2033	-0.17%	0.42%	0.02%	0.32%	0.92%	0.52%	0.83%	1.42%	1.02%
2034	0.46%	0.42%	0.44%	0.95%	0.91%	0.94%	1.46%	1.41%	1.44%
2035	0.44%	0.40%	0.43%	0.92%	0.88%	0.91%	1.41%	1.36%	1.39%
2036	1.08%	0.40%	0.85%	1.56%	0.87%	1.33%	2.05%	1.35%	1.82%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	4,825	45,700	50,526	4,896	46,372	51,268	4,968	47,048	52,016
2018	4,857	46,001	50,857	4,960	46,982	51,942	5,064	47,978	53,042
2019	4,887	46,292	51,179	5,021	47,578	52,599	5,159	48,893	54,051
2020	4,916	46,575	51,490	5,081	48,161	53,242	5,251	49,795	55,046
2021	4,943	46,848	51,791	5,139	48,732	53,871	5,342	50,685	56,027
2022	4,970	47,117	52,087	5,197	49,300	54,497	5,433	51,577	57,010
2023	4,997	47,381	52,378	5,254	49,862	55,117	5,524	52,467	57,991
2024	5,023	47,640	52,662	5,310	50,420	55,730	5,614	53,356	58,970
2025	5,048	47,897	52,945	5,367	50,980	56,347	5,705	54,256	59,961
2026	5,073	48,153	53,226	5,423	51,540	56,963	5,797	55,162	60,959
2027	5,098	48,405	53,503	5,479	52,097	57,576	5,889	56,068	61,957
2028	5,122	48,653	53,775	5,534	52,648	58,182	5,980	56,971	62,951
2029	5,146	48,898	54,044	5,590	53,198	58,788	6,071	57,878	63,950
2030	5,170	49,141	54,311	5,645	53,747	59,392	6,163	58,789	64,953
2031	5,193	49,380	54,572	5,699	54,290	59,989	6,255	59,695	65,950
2032	5,216	49,615	54,830	5,753	54,829	60,582	6,346	60,601	66,947
2033	5,238	49,842	55,080	5,806	55,354	61,160	6,436	61,488	67,924
2034	5,260	50,069	55,329	5,859	55,881	61,740	6,527	62,385	68,912
2035	5,281	50,289	55,570	5,910	56,395	62,305	6,616	63,263	69,879
2036	5,302	50,507	55,809	5,962	56,910	62,871	6,705	64,149	70,854

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.65%	0.66%	0.66%	1.30%	1.32%	1.31%	1.95%	1.98%	1.97%
2019	0.62%	0.63%	0.63%	1.24%	1.27%	1.27%	1.86%	1.91%	1.90%
2020	0.59%	0.61%	0.61%	1.19%	1.23%	1.22%	1.79%	1.84%	1.84%
2021	0.56%	0.59%	0.58%	1.15%	1.19%	1.18%	1.74%	1.79%	1.78%
2022	0.55%	0.57%	0.57%	1.12%	1.16%	1.16%	1.70%	1.76%	1.75%
2023	0.53%	0.56%	0.56%	1.10%	1.14%	1.14%	1.67%	1.73%	1.72%
2024	0.51%	0.55%	0.54%	1.07%	1.12%	1.11%	1.63%	1.69%	1.69%
2025	0.51%	0.54%	0.54%	1.06%	1.11%	1.11%	1.62%	1.69%	1.68%
2026	0.50%	0.53%	0.53%	1.05%	1.10%	1.09%	1.61%	1.67%	1.66%
2027	0.49%	0.52%	0.52%	1.03%	1.08%	1.08%	1.58%	1.64%	1.64%
2028	0.47%	0.51%	0.51%	1.01%	1.06%	1.05%	1.55%	1.61%	1.60%
2029	0.47%	0.50%	0.50%	1.00%	1.05%	1.04%	1.53%	1.59%	1.59%
2030	0.46%	0.50%	0.49%	0.98%	1.03%	1.03%	1.52%	1.57%	1.57%
2031	0.45%	0.49%	0.48%	0.96%	1.01%	1.01%	1.48%	1.54%	1.54%
2032	0.44%	0.48%	0.47%	0.95%	0.99%	0.99%	1.46%	1.52%	1.51%
2033	0.42%	0.46%	0.46%	0.92%	0.96%	0.95%	1.42%	1.46%	1.46%
2034	0.42%	0.46%	0.45%	0.91%	0.95%	0.95%	1.41%	1.46%	1.45%
2035	0.40%	0.44%	0.43%	0.88%	0.92%	0.92%	1.36%	1.41%	1.40%
2036	0.40%	0.43%	0.43%	0.87%	0.91%	0.91%	1.35%	1.40%	1.40%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	982,575	4,379,321	5,361,896	990,047	4,450,631	5,440,679	997,547	4,522,538	5,520,085
2018	986,288	4,410,723	5,397,011	997,529	4,514,505	5,512,033	1,008,854	4,619,963	5,628,818
2019	989,996	4,440,968	5,430,963	1,005,029	4,576,491	5,581,520	1,020,233	4,715,228	5,735,461
2020	998,138	4,489,054	5,487,193	1,017,067	4,656,449	5,673,516	1,036,282	4,829,041	5,865,323
2021	997,379	4,498,158	5,495,538	1,020,049	4,695,669	5,715,718	1,043,146	4,900,718	5,943,863
2022	1,001,046	4,525,587	5,526,634	1,027,549	4,754,009	5,781,558	1,054,651	4,992,754	6,047,406
2023	1,004,700	4,552,442	5,557,142	1,035,050	4,811,807	5,846,857	1,066,199	5,084,684	6,150,883
2024	1,012,845	4,598,015	5,610,860	1,047,203	4,889,470	5,936,673	1,082,593	5,198,094	6,280,688
2025	1,011,935	4,604,680	5,616,615	1,049,984	4,926,234	5,976,218	1,089,316	5,268,919	6,358,235
2026	1,015,499	4,630,538	5,646,037	1,057,380	4,983,656	6,041,036	1,100,826	5,362,371	6,463,196
2027	1,019,023	4,655,971	5,674,995	1,064,719	5,040,732	6,105,452	1,112,287	5,455,963	6,568,250
2028	1,027,067	4,700,695	5,727,762	1,076,767	5,118,740	6,195,507	1,128,679	5,572,653	6,701,331
2029	1,025,923	4,705,585	5,731,507	1,079,161	5,153,559	6,232,720	1,134,955	5,642,911	6,777,866
2030	1,029,303	4,730,046	5,759,349	1,086,273	5,209,897	6,296,170	1,146,174	5,737,202	6,883,375
2031	1,032,569	4,754,112	5,786,681	1,093,166	5,265,706	6,358,873	1,157,084	5,831,189	6,988,273
2032	1,040,358	4,798,116	5,838,474	1,104,770	5,343,875	6,448,645	1,172,920	5,950,608	7,123,528
2033	1,038,780	4,800,891	5,839,671	1,106,337	5,375,562	6,481,899	1,178,027	6,017,989	7,196,016
2034	1,041,727	4,823,928	5,865,655	1,112,614	5,430,233	6,542,847	1,188,053	6,111,799	7,299,852
2035	1,044,568	4,846,206	5,890,774	1,118,683	5,483,567	6,602,250	1,197,773	6,203,890	7,401,663
2036	1,051,992	4,889,080	5,941,072	1,129,581	5,560,669	6,690,250	1,212,599	6,323,751	7,536,350

Annual Change

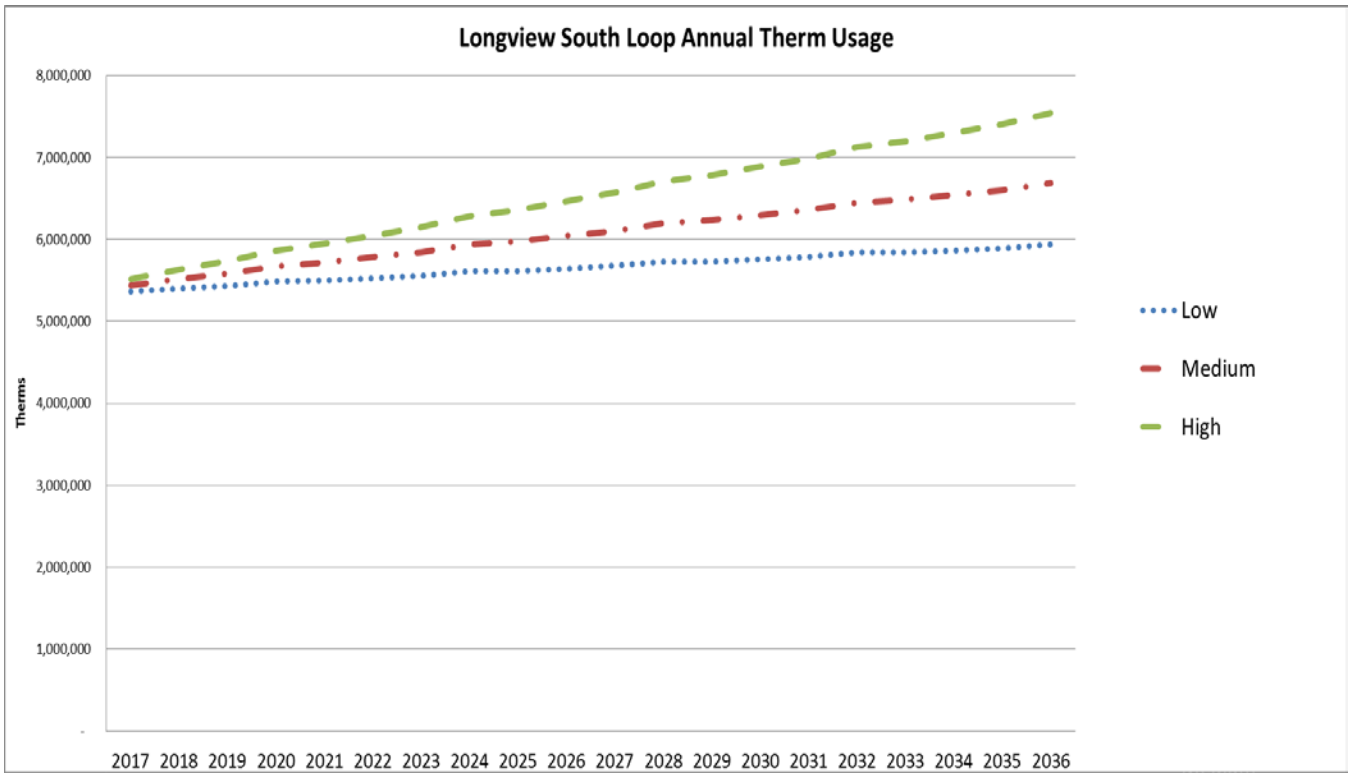
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.38%	0.72%	0.65%	0.76%	1.44%	1.31%	1.13%	2.15%	1.97%
2019	0.38%	0.69%	0.63%	0.75%	1.37%	1.26%	1.13%	2.06%	1.89%
2020	0.82%	1.08%	1.04%	1.20%	1.75%	1.65%	1.57%	2.41%	2.26%
2021	-0.08%	0.20%	0.15%	0.29%	0.84%	0.74%	0.66%	1.48%	1.34%
2022	0.37%	0.61%	0.57%	0.74%	1.24%	1.15%	1.10%	1.88%	1.74%
2023	0.36%	0.59%	0.55%	0.73%	1.22%	1.13%	1.09%	1.84%	1.71%
2024	0.81%	1.00%	0.97%	1.17%	1.61%	1.54%	1.54%	2.23%	2.11%
2025	-0.09%	0.14%	0.10%	0.27%	0.75%	0.67%	0.62%	1.36%	1.23%
2026	0.35%	0.56%	0.52%	0.70%	1.17%	1.08%	1.06%	1.77%	1.65%
2027	0.35%	0.55%	0.51%	0.69%	1.15%	1.07%	1.04%	1.75%	1.63%
2028	0.79%	0.96%	0.93%	1.13%	1.55%	1.48%	1.47%	2.14%	2.03%
2029	-0.11%	0.10%	0.07%	0.22%	0.68%	0.60%	0.56%	1.26%	1.14%
2030	0.33%	0.52%	0.49%	0.66%	1.09%	1.02%	0.99%	1.67%	1.56%
2031	0.32%	0.51%	0.47%	0.63%	1.07%	1.00%	0.95%	1.64%	1.52%
2032	0.75%	0.93%	0.90%	1.06%	1.48%	1.41%	1.37%	2.05%	1.94%
2033	-0.15%	0.06%	0.02%	0.14%	0.59%	0.52%	0.44%	1.13%	1.02%
2034	0.28%	0.48%	0.44%	0.57%	1.02%	0.94%	0.85%	1.56%	1.44%
2035	0.27%	0.46%	0.43%	0.55%	0.98%	0.91%	0.82%	1.51%	1.39%
2036	0.71%	0.88%	0.85%	0.97%	1.41%	1.33%	1.24%	1.93%	1.82%

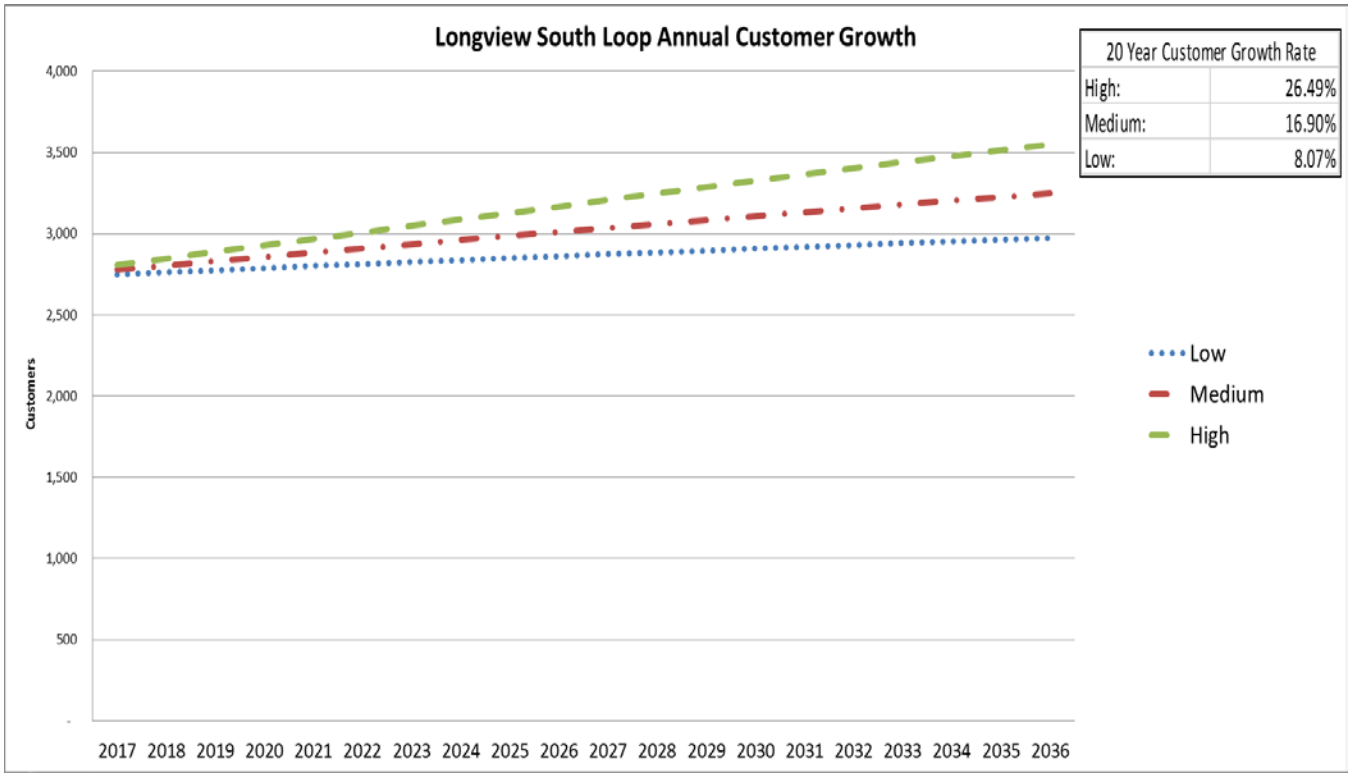
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,854	895	2,749	1,868	910	2,777	1,882	924	2,806
2018	1,861	901	2,762	1,882	922	2,804	1,903	944	2,847
2019	1,868	908	2,775	1,896	935	2,831	1,925	963	2,888
2020	1,875	913	2,788	1,910	947	2,857	1,946	981	2,928
2021	1,882	919	2,801	1,924	959	2,883	1,968	1,000	2,968
2022	1,889	925	2,813	1,939	970	2,909	1,990	1,018	3,008
2023	1,895	930	2,825	1,953	982	2,935	2,011	1,036	3,048
2024	1,902	935	2,838	1,967	993	2,960	2,033	1,054	3,087
2025	1,909	941	2,850	1,981	1,004	2,985	2,055	1,072	3,127
2026	1,916	946	2,862	1,995	1,016	3,011	2,077	1,091	3,167
2027	1,922	951	2,874	2,009	1,027	3,036	2,098	1,109	3,207
2028	1,929	956	2,885	2,022	1,038	3,061	2,120	1,127	3,247
2029	1,935	961	2,897	2,036	1,049	3,085	2,141	1,145	3,286
2030	1,942	966	2,908	2,049	1,061	3,110	2,162	1,163	3,326
2031	1,948	971	2,919	2,062	1,072	3,134	2,183	1,182	3,365
2032	1,954	976	2,930	2,075	1,083	3,158	2,203	1,200	3,403
2033	1,960	981	2,941	2,087	1,093	3,181	2,222	1,218	3,440
2034	1,965	986	2,951	2,099	1,104	3,203	2,241	1,236	3,477
2035	1,971	990	2,961	2,110	1,115	3,225	2,260	1,254	3,514
2036	1,976	995	2,971	2,122	1,125	3,247	2,277	1,272	3,549

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.38%	0.71%	0.49%	0.76%	1.42%	0.97%	1.13%	2.13%	1.46%
2019	0.38%	0.67%	0.47%	0.75%	1.35%	0.95%	1.13%	2.02%	1.42%
2020	0.37%	0.64%	0.46%	0.75%	1.28%	0.92%	1.12%	1.93%	1.39%
2021	0.37%	0.62%	0.45%	0.74%	1.24%	0.91%	1.11%	1.87%	1.37%
2022	0.37%	0.60%	0.44%	0.74%	1.21%	0.89%	1.10%	1.82%	1.34%
2023	0.36%	0.59%	0.44%	0.73%	1.19%	0.88%	1.09%	1.79%	1.33%
2024	0.36%	0.57%	0.43%	0.72%	1.15%	0.87%	1.09%	1.73%	1.30%
2025	0.36%	0.57%	0.43%	0.71%	1.15%	0.86%	1.07%	1.72%	1.29%
2026	0.35%	0.56%	0.42%	0.70%	1.13%	0.85%	1.06%	1.71%	1.28%
2027	0.35%	0.55%	0.41%	0.69%	1.11%	0.84%	1.04%	1.68%	1.26%
2028	0.34%	0.54%	0.41%	0.68%	1.09%	0.82%	1.02%	1.64%	1.23%
2029	0.34%	0.53%	0.40%	0.67%	1.07%	0.81%	1.01%	1.62%	1.22%
2030	0.33%	0.52%	0.39%	0.66%	1.06%	0.80%	0.99%	1.60%	1.20%
2031	0.32%	0.51%	0.38%	0.63%	1.04%	0.77%	0.95%	1.57%	1.17%
2032	0.31%	0.50%	0.37%	0.61%	1.03%	0.75%	0.92%	1.55%	1.14%
2033	0.29%	0.49%	0.36%	0.59%	0.99%	0.73%	0.88%	1.50%	1.10%
2034	0.28%	0.49%	0.35%	0.57%	0.99%	0.71%	0.85%	1.49%	1.08%
2035	0.27%	0.47%	0.34%	0.55%	0.96%	0.69%	0.82%	1.45%	1.04%
2036	0.26%	0.47%	0.33%	0.52%	0.95%	0.67%	0.79%	1.43%	1.02%





20 Year Customer Growth Rate	
High:	26.49%
Medium:	16.90%
Low:	8.07%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

McCleary (Aberdeen/Hoquiam)

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	3,959,668	2,191,951	6,151,619	3,992,002	2,213,539	6,205,541	4,024,490	2,235,249	6,259,739
2018	3,973,984	2,201,474	6,175,458	4,020,904	2,232,803	6,253,707	4,068,252	2,264,475	6,332,726
2019	3,987,993	2,210,548	6,198,540	4,049,289	2,251,434	6,300,723	4,111,398	2,292,978	6,404,376
2020	4,028,182	2,219,070	6,247,252	4,104,190	2,269,386	6,373,576	4,181,513	2,320,759	6,502,272
2021	4,014,850	2,227,236	6,242,086	4,104,408	2,286,998	6,391,406	4,195,866	2,348,306	6,544,171
2022	4,027,846	2,234,993	6,262,839	4,131,455	2,304,126	6,435,580	4,237,659	2,375,371	6,613,030
2023	4,040,609	2,242,396	6,283,005	4,158,332	2,320,932	6,479,264	4,279,451	2,402,226	6,681,677
2024	4,080,179	2,249,508	6,329,687	4,212,979	2,337,351	6,550,330	4,350,111	2,428,668	6,778,779
2025	4,065,451	2,256,282	6,321,733	4,211,239	2,353,313	6,564,552	4,362,310	2,454,598	6,816,908
2026	4,077,631	2,262,794	6,340,425	4,237,563	2,369,092	6,606,655	4,403,877	2,480,499	6,884,376
2027	4,089,615	2,269,132	6,358,747	4,263,604	2,384,588	6,648,192	4,445,166	2,506,070	6,951,236
2028	4,128,584	2,275,235	6,403,818	4,317,785	2,399,682	6,717,467	4,515,895	2,531,125	7,047,020
2029	4,112,866	2,281,158	6,394,024	4,314,607	2,414,574	6,729,181	4,526,552	2,556,019	7,082,571
2030	4,124,243	2,286,798	6,411,041	4,339,812	2,429,060	6,768,872	4,567,036	2,580,429	7,147,465
2031	4,135,112	2,292,124	6,427,236	4,364,084	2,442,960	6,807,045	4,606,207	2,604,011	7,210,218
2032	4,173,390	2,297,403	6,470,794	4,417,350	2,456,799	6,874,149	4,676,146	2,627,579	7,303,725
2033	4,155,989	2,302,209	6,458,199	4,411,117	2,469,823	6,880,940	4,682,579	2,649,994	7,332,573
2034	4,165,946	2,306,995	6,472,941	4,433,702	2,482,698	6,916,400	4,719,457	2,672,171	7,391,628
2035	4,175,596	2,311,522	6,487,118	4,455,790	2,495,204	6,950,993	4,755,703	2,693,905	7,449,607
2036	4,212,606	2,315,689	6,528,295	4,506,802	2,506,964	7,013,767	4,822,602	2,714,492	7,537,093

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.36%	0.43%	0.39%	0.72%	0.87%	0.78%	1.09%	1.31%	1.17%
2019	0.35%	0.41%	0.37%	0.71%	0.83%	0.75%	1.06%	1.26%	1.13%
2020	1.01%	0.39%	0.79%	1.36%	0.80%	1.16%	1.71%	1.21%	1.53%
2021	-0.33%	0.37%	-0.08%	0.01%	0.78%	0.28%	0.34%	1.19%	0.64%
2022	0.32%	0.35%	0.33%	0.66%	0.75%	0.69%	1.00%	1.15%	1.05%
2023	0.32%	0.33%	0.32%	0.65%	0.73%	0.68%	0.99%	1.13%	1.04%
2024	0.98%	0.32%	0.74%	1.31%	0.71%	1.10%	1.65%	1.10%	1.45%
2025	-0.36%	0.30%	-0.13%	-0.04%	0.68%	0.22%	0.28%	1.07%	0.56%
2026	0.30%	0.29%	0.30%	0.63%	0.67%	0.64%	0.95%	1.06%	0.99%
2027	0.29%	0.28%	0.29%	0.61%	0.65%	0.63%	0.94%	1.03%	0.97%
2028	0.95%	0.27%	0.71%	1.27%	0.63%	1.04%	1.59%	1.00%	1.38%
2029	-0.38%	0.26%	-0.15%	-0.07%	0.62%	0.17%	0.24%	0.98%	0.50%
2030	0.28%	0.25%	0.27%	0.58%	0.60%	0.59%	0.89%	0.95%	0.92%
2031	0.26%	0.23%	0.25%	0.56%	0.57%	0.56%	0.86%	0.91%	0.88%
2032	0.93%	0.23%	0.68%	1.22%	0.57%	0.99%	1.52%	0.91%	1.30%
2033	-0.42%	0.21%	-0.19%	-0.14%	0.53%	0.10%	0.14%	0.85%	0.39%
2034	0.24%	0.21%	0.23%	0.51%	0.52%	0.52%	0.79%	0.84%	0.81%
2035	0.23%	0.20%	0.22%	0.50%	0.50%	0.50%	0.77%	0.81%	0.78%
2036	0.89%	0.18%	0.63%	1.14%	0.47%	0.90%	1.41%	0.76%	1.17%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	6,005	48,794	54,799	6,064	49,184	55,249	6,124	49,577	55,701
2018	6,031	48,966	54,997	6,117	49,532	55,649	6,204	50,102	56,307
2019	6,056	49,134	55,190	6,168	49,872	56,040	6,282	50,620	56,902
2020	6,080	49,296	55,376	6,217	50,205	56,423	6,358	51,130	57,488
2021	6,102	49,453	55,555	6,266	50,532	56,798	6,434	51,633	58,067
2022	6,123	49,607	55,731	6,313	50,856	57,168	6,508	52,135	58,642
2023	6,144	49,758	55,902	6,359	51,177	57,536	6,581	52,636	59,217
2024	6,163	49,907	56,070	6,404	51,497	57,901	6,654	53,139	59,792
2025	6,182	50,051	56,233	6,447	51,810	58,257	6,725	53,631	60,356
2026	6,199	50,194	56,394	6,491	52,125	58,615	6,796	54,131	60,927
2027	6,217	50,335	56,552	6,533	52,436	58,970	6,866	54,628	61,494
2028	6,234	50,473	56,706	6,574	52,743	59,317	6,935	55,118	62,053
2029	6,250	50,608	56,858	6,615	53,047	59,662	7,003	55,607	62,610
2030	6,265	50,742	57,007	6,655	53,349	60,004	7,070	56,095	63,165
2031	6,280	50,869	57,149	6,693	53,640	60,333	7,134	56,567	63,702
2032	6,294	50,994	57,288	6,731	53,927	60,658	7,199	57,036	64,235
2033	6,307	51,113	57,420	6,767	54,203	60,970	7,260	57,488	64,748
2034	6,321	51,229	57,550	6,802	54,474	61,276	7,321	57,933	65,254
2035	6,333	51,342	57,675	6,836	54,738	61,575	7,381	58,370	65,751
2036	6,344	51,449	57,793	6,868	54,992	61,860	7,437	58,791	66,228

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.43%	0.35%	0.36%	0.87%	0.71%	0.72%	1.31%	1.06%	1.09%
2019	0.41%	0.34%	0.35%	0.83%	0.69%	0.70%	1.26%	1.03%	1.06%
2020	0.39%	0.33%	0.34%	0.80%	0.67%	0.68%	1.21%	1.01%	1.03%
2021	0.37%	0.32%	0.32%	0.78%	0.65%	0.67%	1.19%	0.98%	1.01%
2022	0.35%	0.31%	0.32%	0.75%	0.64%	0.65%	1.15%	0.97%	0.99%
2023	0.33%	0.30%	0.31%	0.73%	0.63%	0.64%	1.13%	0.96%	0.98%
2024	0.32%	0.30%	0.30%	0.71%	0.63%	0.64%	1.10%	0.95%	0.97%
2025	0.30%	0.29%	0.29%	0.68%	0.61%	0.62%	1.07%	0.93%	0.94%
2026	0.29%	0.29%	0.29%	0.67%	0.61%	0.61%	1.06%	0.93%	0.95%
2027	0.28%	0.28%	0.28%	0.65%	0.60%	0.60%	1.03%	0.92%	0.93%
2028	0.27%	0.27%	0.27%	0.63%	0.58%	0.59%	1.00%	0.90%	0.91%
2029	0.26%	0.27%	0.27%	0.62%	0.58%	0.58%	0.98%	0.89%	0.90%
2030	0.25%	0.26%	0.26%	0.60%	0.57%	0.57%	0.95%	0.88%	0.89%
2031	0.23%	0.25%	0.25%	0.57%	0.55%	0.55%	0.91%	0.84%	0.85%
2032	0.23%	0.25%	0.24%	0.57%	0.54%	0.54%	0.91%	0.83%	0.84%
2033	0.21%	0.23%	0.23%	0.53%	0.51%	0.51%	0.85%	0.79%	0.80%
2034	0.21%	0.23%	0.23%	0.52%	0.50%	0.50%	0.84%	0.77%	0.78%
2035	0.20%	0.22%	0.22%	0.50%	0.49%	0.49%	0.81%	0.75%	0.76%
2036	0.18%	0.21%	0.21%	0.47%	0.46%	0.46%	0.76%	0.72%	0.73%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,534,796	3,616,823	6,151,619	2,547,649	3,657,892	6,205,541	2,560,533	3,699,206	6,259,739
2018	2,541,199	3,634,258	6,175,458	2,560,520	3,693,187	6,253,707	2,579,938	3,752,788	6,332,726
2019	2,547,622	3,650,918	6,198,540	2,573,463	3,727,260	6,300,723	2,599,499	3,804,877	6,404,376
2020	2,565,816	3,681,436	6,247,252	2,598,342	3,775,234	6,373,576	2,631,197	3,871,075	6,502,272
2021	2,560,418	3,681,668	6,242,086	2,599,348	3,792,058	6,391,406	2,638,769	3,905,403	6,544,171
2022	2,566,793	3,696,046	6,262,839	2,612,290	3,823,290	6,435,580	2,658,477	3,954,553	6,613,030
2023	2,573,151	3,709,854	6,283,005	2,625,233	3,854,031	6,479,264	2,678,234	4,003,443	6,681,677
2024	2,591,382	3,738,305	6,329,687	2,650,315	3,900,015	6,550,330	2,710,437	4,068,342	6,778,779
2025	2,585,735	3,735,998	6,321,733	2,650,940	3,913,612	6,564,552	2,717,622	4,099,287	6,816,908
2026	2,591,926	3,748,499	6,340,425	2,663,634	3,943,020	6,606,655	2,737,142	4,147,234	6,884,376
2027	2,598,033	3,760,714	6,358,747	2,676,187	3,972,005	6,648,192	2,756,490	4,194,746	6,951,236
2028	2,616,058	3,787,760	6,403,818	2,700,970	4,016,496	6,717,467	2,788,420	4,258,599	7,047,020
2029	2,609,964	3,784,060	6,394,024	2,700,795	4,028,386	6,729,181	2,794,554	4,288,017	7,082,571
2030	2,615,772	3,795,269	6,411,041	2,712,816	4,056,056	6,768,872	2,813,211	4,334,254	7,147,465
2031	2,621,328	3,805,907	6,427,236	2,724,340	4,082,705	6,807,045	2,831,137	4,379,081	7,210,218
2032	2,638,756	3,832,037	6,470,794	2,747,992	4,126,157	6,874,149	2,861,473	4,442,252	7,303,725
2033	2,631,707	3,826,491	6,458,199	2,745,935	4,135,006	6,880,940	2,864,832	4,467,741	7,332,573
2034	2,636,516	3,836,425	6,472,941	2,755,969	4,160,430	6,916,400	2,880,536	4,511,092	7,391,628
2035	2,641,112	3,846,006	6,487,118	2,765,579	4,185,415	6,950,993	2,895,601	4,554,006	7,449,607
2036	2,657,690	3,870,605	6,528,295	2,787,533	4,226,234	7,013,767	2,923,399	4,613,694	7,537,093

Annual Change

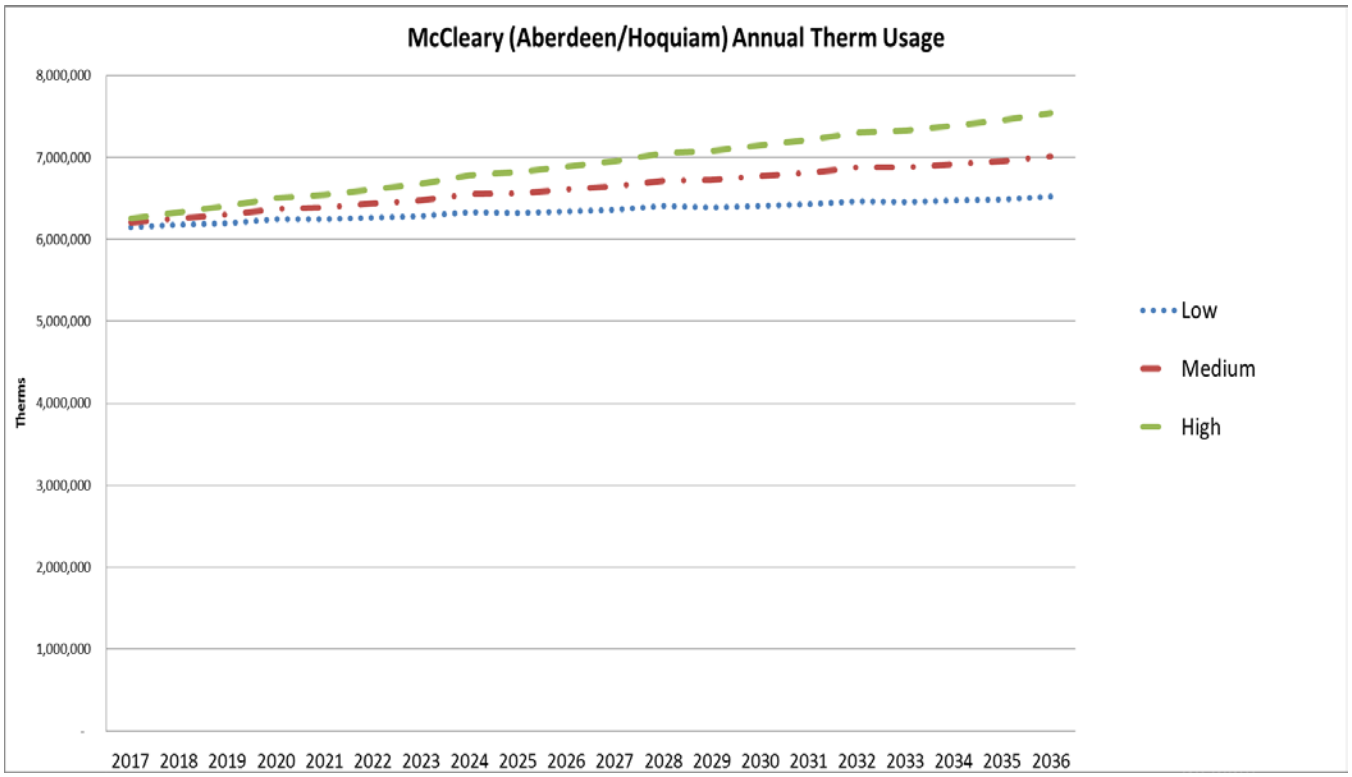
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.25%	0.48%	0.39%	0.51%	0.96%	0.78%	0.76%	1.45%	1.17%
2019	0.25%	0.46%	0.37%	0.51%	0.92%	0.75%	0.76%	1.39%	1.13%
2020	0.71%	0.84%	0.79%	0.97%	1.29%	1.16%	1.22%	1.74%	1.53%
2021	-0.21%	0.01%	-0.08%	0.04%	0.45%	0.28%	0.29%	0.89%	0.64%
2022	0.25%	0.39%	0.33%	0.50%	0.82%	0.69%	0.75%	1.26%	1.05%
2023	0.25%	0.37%	0.32%	0.50%	0.80%	0.68%	0.74%	1.24%	1.04%
2024	0.71%	0.77%	0.74%	0.96%	1.19%	1.10%	1.20%	1.62%	1.45%
2025	-0.22%	-0.06%	-0.13%	0.02%	0.35%	0.22%	0.27%	0.76%	0.56%
2026	0.24%	0.33%	0.30%	0.48%	0.75%	0.64%	0.72%	1.17%	0.99%
2027	0.24%	0.33%	0.29%	0.47%	0.74%	0.63%	0.71%	1.15%	0.97%
2028	0.69%	0.72%	0.71%	0.93%	1.12%	1.04%	1.16%	1.52%	1.38%
2029	-0.23%	-0.10%	-0.15%	-0.01%	0.30%	0.17%	0.22%	0.69%	0.50%
2030	0.22%	0.30%	0.27%	0.45%	0.69%	0.59%	0.67%	1.08%	0.92%
2031	0.21%	0.28%	0.25%	0.42%	0.66%	0.56%	0.64%	1.03%	0.88%
2032	0.66%	0.69%	0.68%	0.87%	1.06%	0.99%	1.07%	1.44%	1.30%
2033	-0.27%	-0.14%	-0.19%	-0.07%	0.21%	0.10%	0.12%	0.57%	0.39%
2034	0.18%	0.26%	0.23%	0.37%	0.61%	0.52%	0.55%	0.97%	0.81%
2035	0.17%	0.25%	0.22%	0.35%	0.60%	0.50%	0.52%	0.95%	0.78%
2036	0.63%	0.64%	0.63%	0.79%	0.98%	0.90%	0.96%	1.31%	1.17%

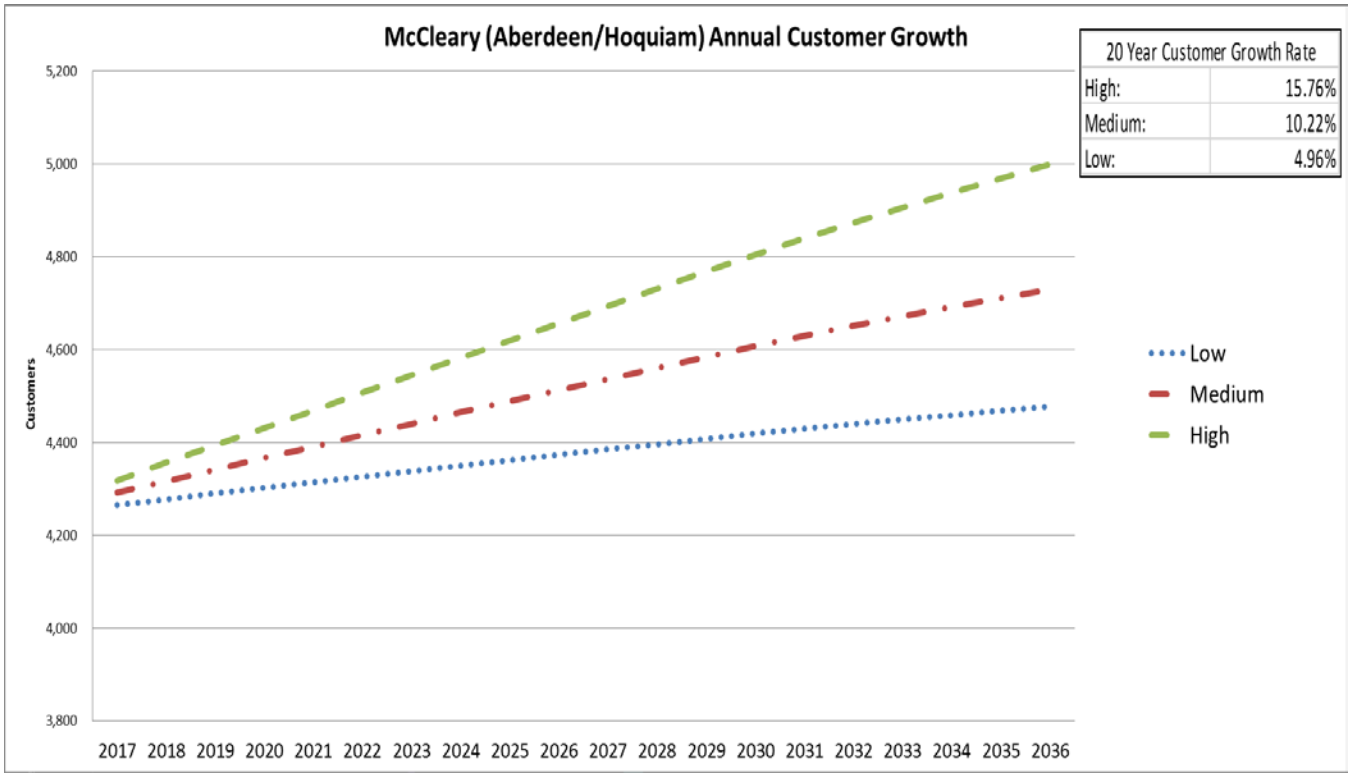
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,503	762	4,265	3,521	771	4,292	3,539	780	4,318
2018	3,512	766	4,278	3,539	778	4,317	3,566	791	4,356
2019	3,521	769	4,290	3,557	785	4,342	3,593	802	4,394
2020	3,530	773	4,302	3,575	792	4,367	3,620	812	4,432
2021	3,539	776	4,314	3,592	799	4,391	3,647	823	4,470
2022	3,547	779	4,327	3,610	806	4,416	3,674	833	4,507
2023	3,556	782	4,338	3,628	812	4,441	3,701	843	4,545
2024	3,565	785	4,350	3,646	819	4,465	3,729	854	4,583
2025	3,574	788	4,362	3,664	825	4,489	3,756	864	4,620
2026	3,582	792	4,374	3,681	832	4,513	3,783	875	4,657
2027	3,591	795	4,385	3,699	839	4,537	3,810	885	4,695
2028	3,599	798	4,397	3,716	845	4,561	3,836	896	4,732
2029	3,607	801	4,408	3,733	852	4,584	3,862	906	4,768
2030	3,615	804	4,419	3,749	858	4,608	3,888	917	4,805
2031	3,623	807	4,429	3,765	865	4,630	3,913	927	4,840
2032	3,630	810	4,440	3,780	871	4,652	3,937	937	4,874
2033	3,637	812	4,450	3,795	877	4,672	3,959	947	4,907
2034	3,644	815	4,459	3,809	884	4,692	3,981	957	4,938
2035	3,650	818	4,468	3,822	890	4,712	4,002	968	4,969
2036	3,656	821	4,477	3,835	896	4,731	4,022	977	4,999

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.25%	0.47%	0.29%	0.51%	0.95%	0.59%	0.76%	1.42%	0.88%
2019	0.25%	0.46%	0.29%	0.51%	0.92%	0.58%	0.76%	1.38%	0.87%
2020	0.25%	0.44%	0.29%	0.50%	0.88%	0.57%	0.75%	1.33%	0.86%
2021	0.25%	0.42%	0.28%	0.50%	0.85%	0.56%	0.75%	1.28%	0.85%
2022	0.25%	0.41%	0.28%	0.50%	0.84%	0.56%	0.75%	1.26%	0.84%
2023	0.25%	0.41%	0.28%	0.50%	0.83%	0.56%	0.74%	1.25%	0.84%
2024	0.25%	0.41%	0.27%	0.49%	0.82%	0.55%	0.74%	1.24%	0.83%
2025	0.24%	0.39%	0.27%	0.49%	0.79%	0.54%	0.73%	1.19%	0.81%
2026	0.24%	0.40%	0.27%	0.48%	0.81%	0.54%	0.72%	1.22%	0.81%
2027	0.24%	0.39%	0.26%	0.47%	0.80%	0.53%	0.71%	1.20%	0.80%
2028	0.23%	0.38%	0.26%	0.46%	0.78%	0.52%	0.69%	1.17%	0.78%
2029	0.23%	0.38%	0.25%	0.46%	0.77%	0.51%	0.68%	1.16%	0.77%
2030	0.22%	0.38%	0.25%	0.45%	0.77%	0.51%	0.67%	1.16%	0.76%
2031	0.21%	0.36%	0.24%	0.42%	0.74%	0.48%	0.64%	1.12%	0.73%
2032	0.20%	0.36%	0.23%	0.40%	0.74%	0.47%	0.61%	1.12%	0.71%
2033	0.19%	0.35%	0.22%	0.39%	0.71%	0.45%	0.58%	1.08%	0.68%
2034	0.18%	0.34%	0.21%	0.37%	0.71%	0.43%	0.55%	1.07%	0.65%
2035	0.17%	0.34%	0.20%	0.35%	0.70%	0.41%	0.52%	1.06%	0.63%
2036	0.17%	0.33%	0.19%	0.33%	0.67%	0.39%	0.50%	1.02%	0.60%





20 Year Customer Growth Rate	
High:	15.76%
Medium:	10.22%
Low:	4.96%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

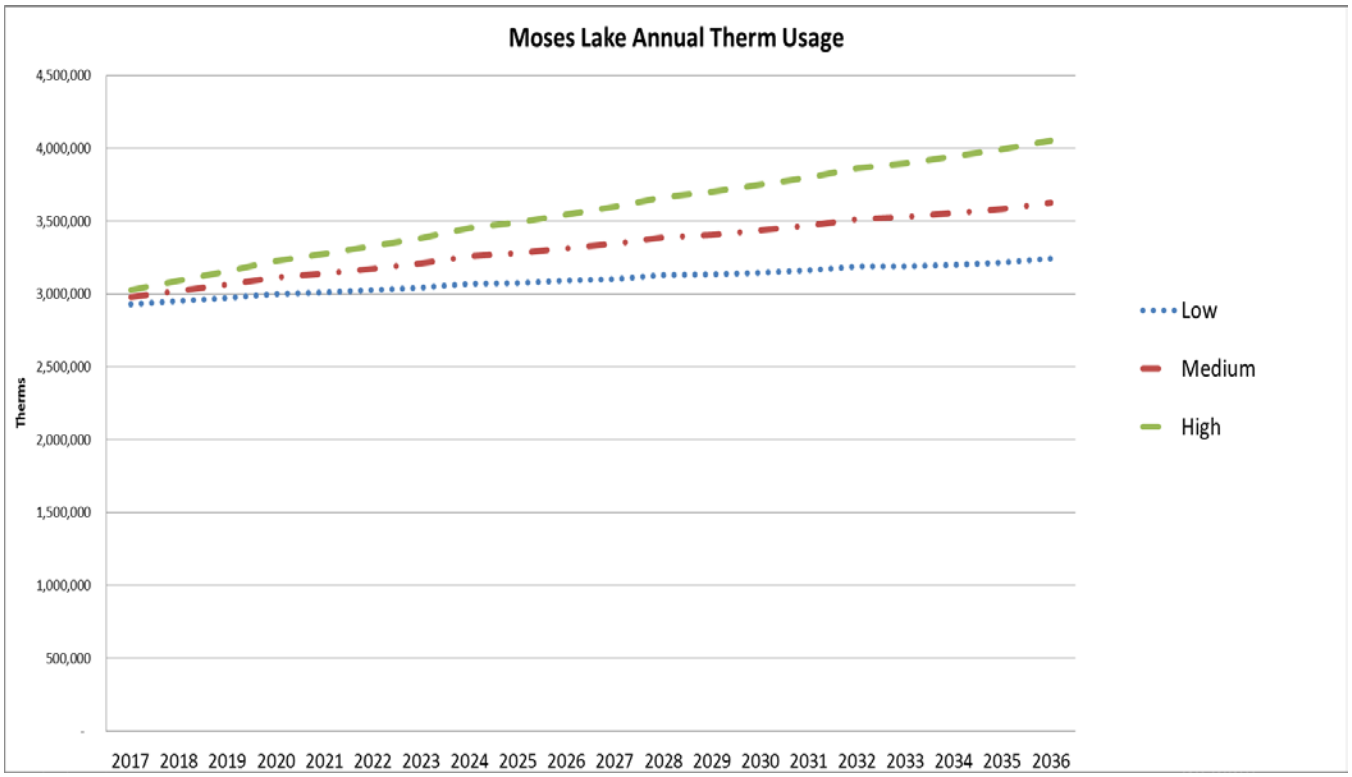
Moses Lake

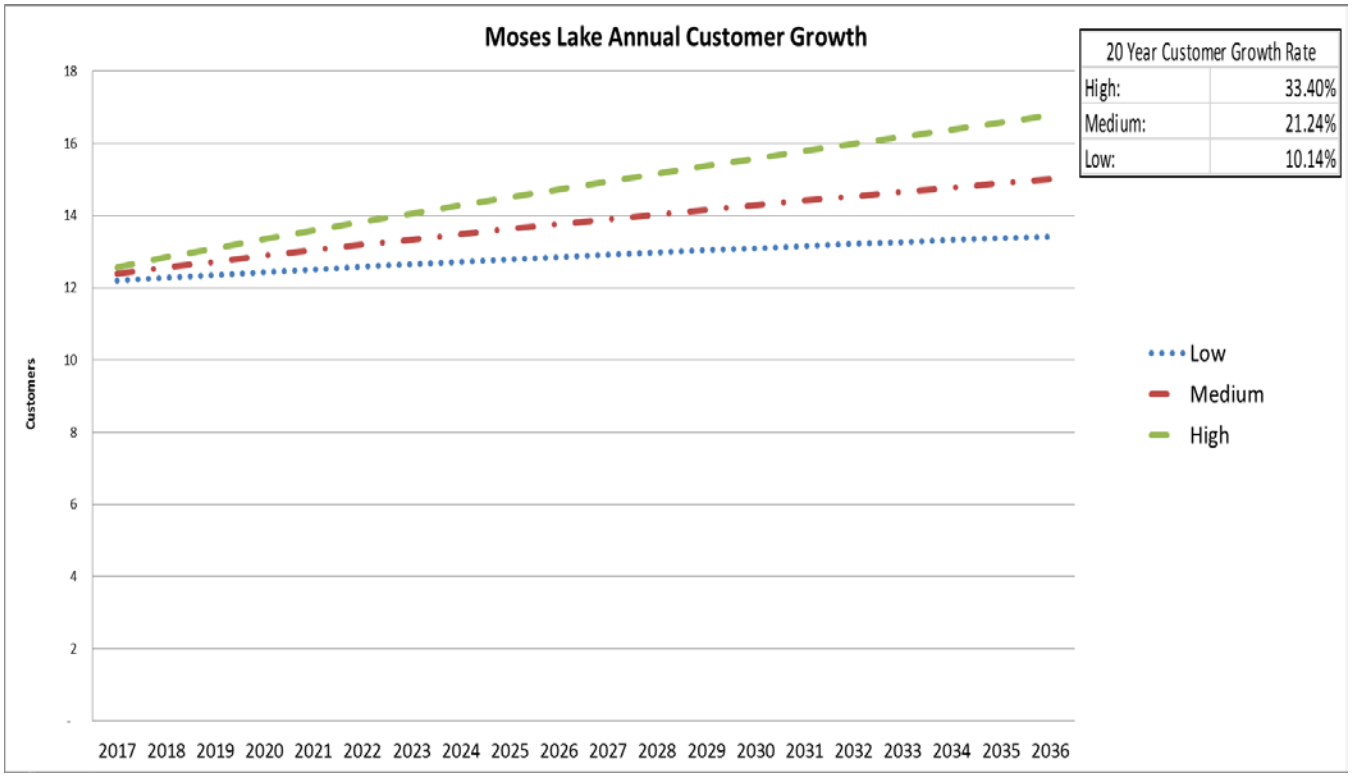
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	1,830,543	1,100,300	2,930,843	1,860,521	1,118,450	2,978,971	1,890,742	1,136,749	3,027,491	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,843,676	1,108,228	2,951,904	1,887,218	1,134,567	3,021,785	1,931,438	1,161,320	3,092,758	0.72%	0.72%	0.72%	1.43%	1.44%	1.44%	2.15%	2.16%	2.16%
2019	1,856,165	1,115,756	2,971,921	1,912,786	1,149,981	3,062,767	1,970,689	1,184,986	3,155,675	0.68%	0.68%	0.68%	1.35%	1.36%	1.36%	2.03%	2.04%	2.03%
2020	1,879,905	1,122,839	3,002,744	1,949,461	1,164,582	3,114,042	2,021,054	1,207,553	3,228,607	1.28%	0.63%	1.04%	1.92%	1.27%	1.67%	2.56%	1.90%	2.31%
2021	1,879,266	1,129,645	3,008,911	1,960,543	1,178,700	3,139,243	2,044,721	1,229,512	3,274,233	-0.03%	0.61%	0.21%	0.57%	1.21%	0.81%	1.17%	1.82%	1.41%
2022	1,890,156	1,136,180	3,026,335	1,983,265	1,192,338	3,175,602	2,080,266	1,250,850	3,331,117	0.58%	0.58%	0.58%	1.16%	1.16%	1.16%	1.74%	1.74%	1.74%
2023	1,900,575	1,142,432	3,043,007	2,005,129	1,205,461	3,210,590	2,114,667	1,271,501	3,386,168	0.55%	0.55%	0.55%	1.10%	1.10%	1.10%	1.65%	1.65%	1.65%
2024	1,922,925	1,148,493	3,071,418	2,039,443	1,218,251	3,257,694	2,162,176	1,291,737	3,453,913	1.18%	0.53%	0.93%	1.71%	1.06%	1.47%	2.25%	1.59%	2.00%
2025	1,920,639	1,154,472	3,075,111	2,047,577	1,230,934	3,278,511	2,181,993	1,311,910	3,493,902	-0.12%	0.52%	0.12%	0.40%	1.04%	0.64%	0.92%	1.56%	1.16%
2026	1,930,206	1,160,212	3,090,417	2,067,975	1,243,174	3,311,149	2,214,598	1,331,478	3,546,076	0.50%	0.50%	0.50%	1.00%	0.99%	1.00%	1.49%	1.49%	1.49%
2027	1,939,660	1,165,890	3,105,550	2,088,233	1,255,343	3,343,576	2,247,140	1,351,028	3,598,168	0.49%	0.49%	0.49%	0.98%	0.98%	0.98%	1.47%	1.47%	1.47%
2028	1,961,306	1,171,386	3,132,692	2,121,462	1,267,180	3,388,642	2,293,578	1,370,136	3,663,714	1.12%	0.47%	0.87%	1.59%	0.94%	1.35%	2.07%	1.41%	1.82%
2029	1,957,841	1,176,807	3,134,649	2,127,472	1,278,908	3,406,380	2,310,624	1,389,158	3,699,783	-0.18%	0.46%	0.06%	0.28%	0.93%	0.52%	0.74%	1.39%	0.98%
2030	1,966,626	1,182,085	3,148,711	2,146,564	1,290,379	3,436,944	2,341,728	1,407,848	3,749,576	0.45%	0.45%	0.45%	0.90%	0.90%	0.90%	1.35%	1.35%	1.35%
2031	1,975,340	1,187,323	3,162,663	2,165,587	1,301,815	3,467,401	2,372,856	1,426,563	3,799,418	0.44%	0.44%	0.44%	0.89%	0.89%	0.89%	1.33%	1.33%	1.33%
2032	1,996,500	1,192,404	3,188,904	2,198,109	1,312,956	3,511,066	2,418,708	1,444,877	3,863,585	1.07%	0.43%	0.83%	1.50%	0.86%	1.26%	1.93%	1.28%	1.69%
2033	1,992,175	1,197,447	3,189,621	2,202,577	1,324,062	3,526,639	2,433,781	1,463,209	3,896,989	-0.22%	0.42%	0.02%	0.20%	0.85%	0.44%	0.62%	1.27%	0.86%
2034	2,000,302	1,202,336	3,202,638	2,220,549	1,334,874	3,555,422	2,463,568	1,481,130	3,944,699	0.41%	0.41%	0.41%	0.82%	0.82%	0.82%	1.22%	1.22%	1.22%
2035	2,008,288	1,207,138	3,215,426	2,238,278	1,345,538	3,583,815	2,493,072	1,498,879	3,991,952	0.40%	0.40%	0.40%	0.80%	0.80%	0.80%	1.20%	1.20%	1.20%
2036	2,029,100	1,211,889	3,240,989	2,270,330	1,356,130	3,626,459	2,538,637	1,516,578	4,055,215	1.04%	0.39%	0.80%	1.43%	0.79%	1.19%	1.83%	1.18%	1.58%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	3,015	25,053	28,067	3,064	25,462	28,527	3,114	25,875	28,989	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,036	25,232	28,269	3,108	25,827	28,936	3,182	26,431	29,613	0.72%	0.72%	0.72%	1.44%	1.43%	1.43%	2.16%	2.15%	2.15%
2019	3,057	25,403	28,460	3,151	26,177	29,327	3,247	26,968	30,214	0.68%	0.68%	0.68%	1.36%	1.35%	1.35%	2.04%	2.03%	2.03%
2020	3,076	25,564	28,641	3,191	26,509	29,699	3,308	27,481	30,789	0.63%	0.63%	0.63%	1.27%	1.27%	1.27%	1.90%	1.90%	1.90%
2021	3,095	25,719	28,814	3,229	26,830	30,060	3,369	27,981	31,349	0.61%	0.61%	0.61%	1.21%	1.21%	1.21%	1.82%	1.82%	1.82%
2022	3,113	25,868	28,981	3,267	27,141	30,408	3,427	28,467	31,894	0.58%	0.58%	0.58%	1.16%	1.16%	1.16%	1.74%	1.74%	1.74%
2023	3,130	26,011	29,141	3,303	27,441	30,743	3,484	28,938	32,422	0.55%	0.55%	0.55%	1.10%	1.10%	1.10%	1.65%	1.65%	1.65%
2024	3,147	26,150	29,296	3,338	27,733	31,071	3,539	29,401	32,940	0.53%	0.53%	0.53%	1.06%	1.06%	1.06%	1.59%	1.60%	1.60%
2025	3,163	26,286	29,449	3,372	28,022	31,394	3,594	29,860	33,455	0.52%	0.52%	0.52%	1.04%	1.04%	1.04%	1.56%	1.56%	1.56%
2026	3,179	26,417	29,596	3,406	28,301	31,707	3,648	30,307	33,955	0.50%	0.50%	0.50%	0.99%	1.00%	1.00%	1.49%	1.50%	1.49%
2027	3,194	26,546	29,741	3,439	28,579	32,018	3,701	30,752	34,454	0.49%	0.49%	0.49%	0.98%	0.98%	0.98%	1.47%	1.47%	1.47%
2028	3,209	26,672	29,881	3,472	28,849	32,320	3,754	31,188	34,942	0.47%	0.47%	0.47%	0.94%	0.94%	0.94%	1.41%	1.42%	1.42%
2029	3,224	26,795	30,019	3,504	29,116	32,620	3,806	31,621	35,427	0.46%	0.46%	0.46%	0.93%	0.93%	0.93%	1.39%	1.39%	1.39%
2030	3,239	26,915	30,154	3,535	29,377	32,912	3,857	32,047	35,904	0.45%	0.45%	0.45%	0.90%	0.90%	0.90%	1.35%	1.35%	1.35%
2031	3,253	27,035	30,288	3,567	29,637	33,204	3,908	32,473	36,381	0.44%	0.44%	0.44%	0.89%	0.89%	0.89%	1.33%	1.33%	1.33%
2032	3,267	27,150	30,417	3,597	29,891	33,488	3,959	32,890	36,848	0.43%	0.43%	0.43%	0.86%	0.86%	0.86%	1.28%	1.28%	1.28%
2033	3,281	27,265	30,546	3,628	30,144	33,771	4,009	33,307	37,315	0.42%	0.42%	0.42%	0.85%	0.85%	0.85%	1.27%	1.27%	1.27%
2034	3,294	27,376	30,670	3,657	30,389	34,047	4,058	33,714	37,772	0.41%	0.41%	0.41%	0.82%	0.82%	0.82%	1.22%	1.22%	1.22%
2035	3,307	27,486	30,793	3,686	30,632	34,318	4,107	34,118	38,224	0.40%	0.40%	0.40%	0.80%	0.80%	0.80%	1.20%	1.20%	1.20%
2036	3,320	27,594	30,914	3,715	30,873	34,588	4,155	34,520	38,675	0.39%	0.39%	0.39%	0.79%	0.79%	0.79%	1.18%	1.18%	1.18%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	-	2,930,843	2,930,843	-	2,978,971	2,978,971	-	3,027,491	3,027,491	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	-	2,951,904	2,951,904	-	3,021,785	3,021,785	-	3,092,758	3,092,758	0.00%	0.72%	0.72%	0.00%	1.44%	1.44%	0.00%	2.16%	2.16%
2019	-	2,971,921	2,971,921	-	3,062,767	3,062,767	-	3,155,675	3,155,675	0.00%	0.68%	0.68%	0.00%	1.36%	1.36%	0.00%	2.03%	2.03%
2020	-	3,002,744	3,002,744	-	3,114,042	3,114,042	-	3,228,607	3,228,607	0.00%	1.04%	1.04%	0.00%	1.67%	1.67%	0.00%	2.31%	2.31%
2021	-	3,008,911	3,008,911	-	3,139,243	3,139,243	-	3,274,233	3,274,233	0.00%	0.21%	0.21%	0.00%	0.81%	0.81%	0.00%	1.41%	1.41%
2022	-	3,026,335	3,026,335	-	3,175,602	3,175,602	-	3,331,117	3,331,117	0.00%	0.58%	0.58%	0.00%	1.16%	1.16%	0.00%	1.74%	1.74%
2023	-	3,043,007	3,043,007	-	3,210,590	3,210,590	-	3,386,168	3,386,168	0.00%	0.55%	0.55%	0.00%	1.10%	1.10%	0.00%	1.65%	1.65%
2024	-	3,071,418	3,071,418	-	3,257,694	3,257,694	-	3,453,913	3,453,913	0.00%	0.93%	0.93%	0.00%	1.47%	1.47%	0.00%	2.00%	2.00%
2025	-	3,075,111	3,075,111	-	3,278,511	3,278,511	-	3,493,902	3,493,902	0.00%	0.12%	0.12%	0.00%	0.64%	0.64%	0.00%	1.16%	1.16%
2026	-	3,090,417	3,090,417	-	3,311,149	3,311,149	-	3,546,076	3,546,076	0.00%	0.50%	0.50%	0.00%	1.00%	1.00%	0.00%	1.49%	1.49%
2027	-	3,105,550	3,105,550	-	3,343,576	3,343,576	-	3,598,168	3,598,168	0.00%	0.49%	0.49%	0.00%	0.98%	0.98%	0.00%	1.47%	1.47%
2028	-	3,132,692	3,132,692	-	3,388,642	3,388,642	-	3,663,714	3,663,714	0.00%	0.87%	0.87%	0.00%	1.35%	1.35%	0.00%	1.82%	1.82%
2029	-	3,134,649	3,134,649	-	3,406,380	3,406,380	-	3,699,783	3,699,783	0.00%	0.06%	0.06%	0.00%	0.52%	0.52%	0.00%	0.98%	0.98%
2030	-	3,148,711	3,148,711	-	3,436,944	3,436,944	-	3,749,576	3,749,576	0.00%	0.45%	0.45%	0.00%	0.90%	0.90%	0.00%	1.35%	1.35%
2031	-	3,162,663	3,162,663	-	3,467,401	3,467,401	-	3,799,418	3,799,418	0.00%	0.44%	0.44%	0.00%	0.89%	0.89%	0.00%	1.33%	1.33%
2032	-	3,188,904	3,188,904	-	3,511,066	3,511,066	-	3,863,585	3,863,585	0.00%	0.83%	0.83%	0.00%	1.26%	1.26%	0.00%	1.69%	1.69%
2033	-	3,189,621	3,189,621	-	3,526,639	3,526,639	-	3,896,989	3,896,989	0.00%	0.02%	0.02%	0.00%	0.44%	0.44%	0.00%	0.86%	0.86%
2034	-	3,202,638	3,202,638	-	3,555,422	3,555,422	-	3,944,699	3,944,699	0.00%	0.41%	0.41%	0.00%	0.82%	0.82%	0.00%	1.22%	1.22%
2035	-	3,215,426	3,215,426	-	3,583,815	3,583,815	-	3,991,952	3,991,952	0.00%	0.40%	0.40%	0.00%	0.80%	0.80%	0.00%	1.20%	1.20%
2036	-	3,240,989	3,240,989	-	3,626,459	3,626,459	-	4,055,215	4,055,215	0.00%	0.80%	0.80%	0.00%	1.19%	1.19%	0.00%	1.58%	1.58%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	-	12	12	-	12	12	-	13	13	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	-	12	12	-	13	13	-	13	13	0.00%	0.70%	0.70%	0.00%	1.40%	1.40%	0.00%	2.10%	2.10%
2019	-	12	12	-	13	13	-	13	13	0.00%	0.67%	0.67%	0.00%	1.34%	1.34%	0.00%	2.00%	2.00%
2020	-	12	12	-	13	13	-	13	13	0.00%	0.63%	0.63%	0.00%	1.26%	1.26%	0.00%	1.89%	1.89%
2021	-	13	13	-	13	13	-	14	14	0.00%	0.61%	0.61%	0.00%	1.22%	1.22%	0.00%	1.82%	1.82%
2022	-	13	13	-	13	13	-	14	14	0.00%	0.58%	0.58%	0.00%	1.17%	1.17%	0.00%	1.75%	1.75%
2023	-	13	13	-	13	13	-	14	14	0.00%	0.56%	0.56%	0.00%	1.11%	1.11%	0.00%	1.67%	1.67%
2024	-	13	13	-	13	13	-	14	14	0.00%	0.54%	0.54%	0.00%	1.08%	1.08%	0.00%	1.62%	1.62%
2025	-	13	13	-	14	14	-	15	15	0.00%	0.52%	0.52%	0.00%	1.05%	1.05%	0.00%	1.57%	1.57%
2026	-	13	13	-	14	14	-	15	15	0.00%	0.50%	0.50%	0.00%	1.01%	1.01%	0.00%	1.51%	1.51%
2027	-	13	13	-	14	14	-	15	15	0.00%	0.49%	0.49%	0.00%	0.98%	0.98%	0.00%	1.48%	1.48%
2028	-	13	13	-	14	14	-	15	15	0.00%	0.48%	0.48%	0.00%	0.95%	0.95%	0.00%	1.43%	1.43%
2029	-	13	13	-	14	14	-	15	15	0.00%	0.46%	0.46%	0.00%	0.93%	0.93%	0.00%	1.39%	1.39%
2030	-	13	13	-	14	14	-	16	16	0.00%	0.45%	0.45%	0.00%	0.90%	0.90%	0.00%	1.35%	1.35%
2031	-	13	13	-	14	14	-	16	16	0.00%	0.44%	0.44%	0.00%	0.89%	0.89%	0.00%	1.33%	1.33%
2032	-	13	13	-	15	15	-	16	16	0.00%	0.43%	0.43%	0.00%	0.85%	0.85%	0.00%	1.28%	1.28%
2033	-	13	13	-	15	15	-	16	16	0.00%	0.42%	0.42%	0.00%	0.84%	0.84%	0.00%	1.26%	1.26%
2034	-	13	13	-	15	15	-	16	16	0.00%	0.41%	0.41%	0.00%	0.81%	0.81%	0.00%	1.22%	1.22%
2035	-	13	13	-	15	15	-	17	17	0.00%	0.40%	0.40%	0.00%	0.80%	0.80%	0.00%	1.19%	1.19%
2036	-	13	13	-	15	15	-	17	17	0.00%	0.39%	0.39%	0.00%	0.78%	0.78%	0.00%	1.17%	1.17%





20 Year Customer Growth Rate	
High:	33.40%
Medium:	21.24%
Low:	10.14%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

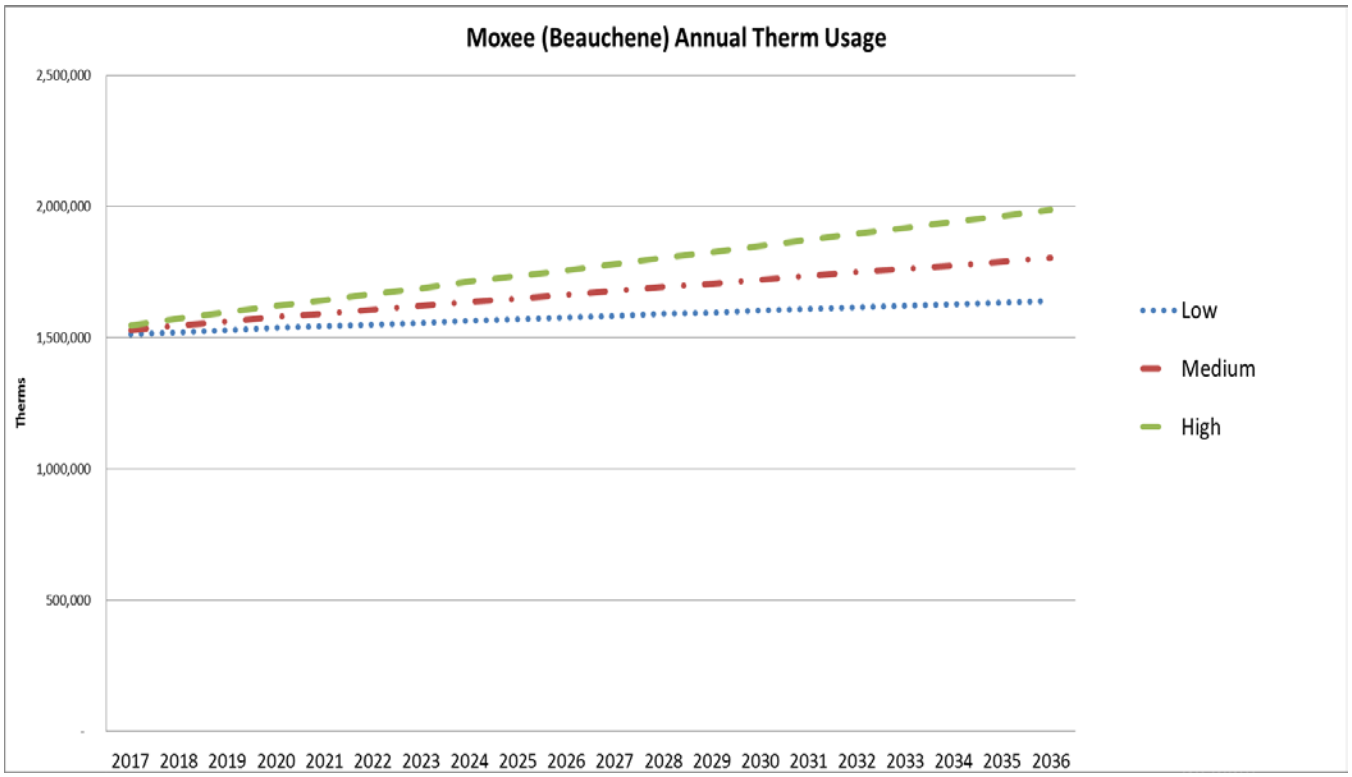
Moxee (Beauchene)

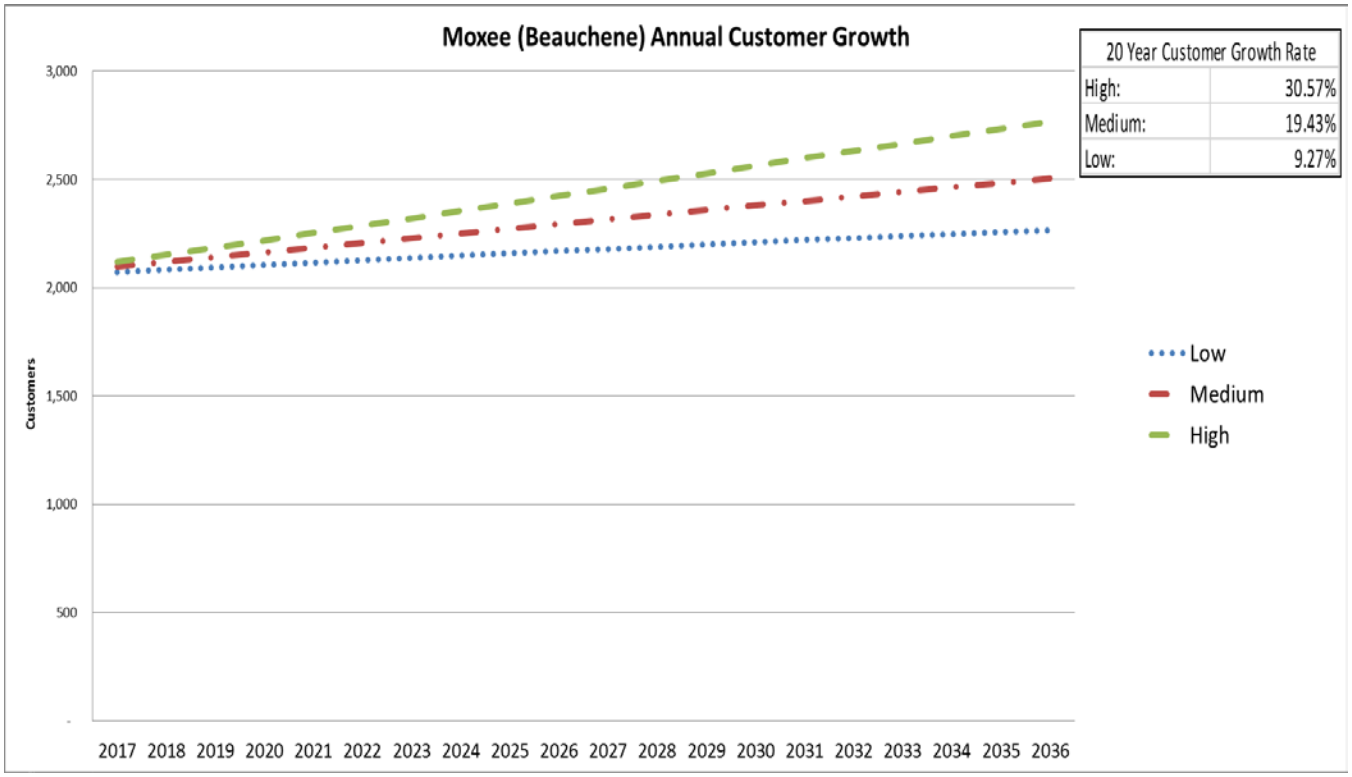
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	1,267,820	245,062	1,512,882	1,281,332	249,125	1,530,457	1,294,958	253,223	1,548,180	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,273,913	246,902	1,520,814	1,293,722	252,867	1,546,590	1,313,854	258,932	1,572,785	0.48%	0.75%	0.52%	0.97%	1.50%	1.05%	1.46%	2.25%	1.59%
2019	1,279,761	248,669	1,528,429	1,305,703	256,490	1,562,193	1,332,259	264,500	1,596,760	0.46%	0.72%	0.50%	0.93%	1.43%	1.01%	1.40%	2.15%	1.52%
2020	1,286,762	250,372	1,537,134	1,318,719	260,008	1,578,727	1,351,659	269,948	1,621,607	0.55%	0.69%	0.57%	1.00%	1.37%	1.06%	1.46%	2.06%	1.56%
2021	1,290,885	252,037	1,542,922	1,328,729	263,469	1,592,198	1,367,997	275,345	1,643,342	0.32%	0.66%	0.38%	0.76%	1.33%	0.85%	1.21%	2.00%	1.34%
2022	1,296,303	253,683	1,549,986	1,340,055	266,915	1,606,969	1,385,748	280,753	1,666,501	0.42%	0.65%	0.46%	0.85%	1.31%	0.93%	1.30%	1.96%	1.41%
2023	1,301,570	255,284	1,556,854	1,351,135	270,290	1,621,424	1,403,224	286,085	1,689,310	0.41%	0.63%	0.44%	0.83%	1.26%	0.90%	1.26%	1.90%	1.37%
2024	1,308,196	256,877	1,565,073	1,363,657	273,668	1,637,325	1,422,303	291,458	1,713,761	0.51%	0.62%	0.53%	0.93%	1.25%	0.98%	1.36%	1.88%	1.45%
2025	1,311,951	258,441	1,570,392	1,373,172	277,007	1,650,179	1,438,301	296,802	1,735,103	0.29%	0.61%	0.34%	0.70%	1.22%	0.79%	1.12%	1.83%	1.25%
2026	1,317,035	259,989	1,577,024	1,384,063	280,332	1,664,395	1,455,792	302,157	1,757,949	0.39%	0.60%	0.42%	0.79%	1.20%	0.86%	1.22%	1.80%	1.32%
2027	1,322,079	261,523	1,583,602	1,394,931	283,648	1,678,579	1,473,348	307,529	1,780,877	0.38%	0.59%	0.42%	0.79%	1.18%	0.85%	1.21%	1.78%	1.30%
2028	1,328,466	263,038	1,591,503	1,407,196	286,942	1,694,138	1,492,425	312,899	1,805,323	0.48%	0.58%	0.50%	0.88%	1.16%	0.93%	1.29%	1.75%	1.37%
2029	1,331,996	264,544	1,596,540	1,416,482	290,238	1,706,719	1,508,463	318,303	1,826,766	0.27%	0.57%	0.32%	0.66%	1.15%	0.74%	1.07%	1.73%	1.19%
2030	1,336,881	266,034	1,602,915	1,427,188	293,516	1,720,704	1,526,055	323,711	1,849,767	0.37%	0.56%	0.40%	0.76%	1.13%	0.82%	1.17%	1.70%	1.26%
2031	1,341,711	267,506	1,609,217	1,437,834	296,773	1,734,607	1,543,646	329,116	1,872,763	0.36%	0.55%	0.39%	0.75%	1.11%	0.81%	1.15%	1.67%	1.24%
2032	1,347,917	268,960	1,616,877	1,449,942	300,010	1,749,952	1,562,854	334,518	1,897,372	0.46%	0.54%	0.48%	0.84%	1.09%	0.88%	1.24%	1.64%	1.31%
2033	1,351,146	270,384	1,621,530	1,458,799	303,198	1,761,997	1,578,573	339,868	1,918,441	0.24%	0.53%	0.29%	0.61%	1.06%	0.69%	1.01%	1.60%	1.11%
2034	1,355,786	271,803	1,627,589	1,469,194	306,392	1,775,586	1,596,032	345,259	1,941,292	0.34%	0.52%	0.37%	0.71%	1.05%	0.77%	1.11%	1.59%	1.19%
2035	1,360,344	273,195	1,633,539	1,479,457	309,544	1,789,001	1,613,359	350,608	1,963,967	0.34%	0.51%	0.37%	0.70%	1.03%	0.76%	1.09%	1.55%	1.17%
2036	1,366,346	274,586	1,640,932	1,491,327	312,709	1,804,036	1,632,536	356,008	1,988,544	0.44%	0.51%	0.45%	0.80%	1.02%	0.84%	1.19%	1.54%	1.25%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	671	13,193	13,864	683	13,410	14,092	694	13,628	14,322	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	676	13,291	13,967	693	13,608	14,301	709	13,931	14,640	0.75%	0.74%	0.74%	1.50%	1.48%	1.48%	2.25%	2.22%	2.22%
2019	681	13,384	14,065	703	13,800	14,502	725	14,225	14,950	0.72%	0.70%	0.70%	1.43%	1.41%	1.41%	2.15%	2.11%	2.12%
2020	686	13,474	14,160	712	13,985	14,698	740	14,513	15,252	0.69%	0.67%	0.67%	1.37%	1.35%	1.35%	2.06%	2.02%	2.02%
2021	691	13,562	14,252	722	14,167	14,889	754	14,797	15,551	0.66%	0.65%	0.65%	1.33%	1.30%	1.30%	2.00%	1.96%	1.96%
2022	695	13,648	14,343	731	14,349	15,080	769	15,081	15,850	0.65%	0.64%	0.64%	1.31%	1.28%	1.28%	1.96%	1.92%	1.92%
2023	699	13,732	14,432	741	14,526	15,266	784	15,360	16,144	0.63%	0.62%	0.62%	1.26%	1.23%	1.24%	1.90%	1.85%	1.86%
2024	704	13,816	14,519	750	14,703	15,452	799	15,642	16,440	0.62%	0.61%	0.61%	1.25%	1.22%	1.22%	1.88%	1.83%	1.83%
2025	708	13,898	14,606	759	14,878	15,637	813	15,922	16,735	0.61%	0.59%	0.60%	1.22%	1.19%	1.19%	1.83%	1.79%	1.79%
2026	712	13,979	14,691	768	15,052	15,820	828	16,202	17,030	0.60%	0.58%	0.58%	1.20%	1.17%	1.17%	1.80%	1.76%	1.76%
2027	717	14,060	14,776	777	15,226	16,003	843	16,484	17,326	0.59%	0.58%	0.58%	1.18%	1.15%	1.16%	1.78%	1.74%	1.74%
2028	721	14,139	14,860	786	15,398	16,184	857	16,764	17,621	0.58%	0.56%	0.57%	1.16%	1.13%	1.13%	1.75%	1.70%	1.70%
2029	725	14,218	14,943	795	15,571	16,366	872	17,047	17,919	0.57%	0.56%	0.56%	1.15%	1.12%	1.12%	1.73%	1.69%	1.69%
2030	729	14,296	15,025	804	15,743	16,547	887	17,329	18,216	0.56%	0.55%	0.55%	1.13%	1.10%	1.10%	1.70%	1.66%	1.66%
2031	733	14,373	15,106	813	15,913	16,726	902	17,612	18,514	0.55%	0.54%	0.54%	1.11%	1.08%	1.08%	1.67%	1.63%	1.63%
2032	737	14,450	15,186	822	16,083	16,904	916	17,894	18,811	0.54%	0.53%	0.53%	1.09%	1.06%	1.07%	1.64%	1.60%	1.60%
2033	741	14,524	15,265	831	16,249	17,080	931	18,174	19,105	0.53%	0.52%	0.52%	1.06%	1.04%	1.04%	1.60%	1.56%	1.56%
2034	745	14,599	15,343	839	16,416	17,256	946	18,455	19,401	0.52%	0.51%	0.51%	1.05%	1.03%	1.03%	1.59%	1.55%	1.55%
2035	748	14,672	15,420	848	16,581	17,429	961	18,734	19,695	0.51%	0.50%	0.50%	1.03%	1.00%	1.01%	1.55%	1.51%	1.51%
2036	752	14,745	15,497	857	16,747	17,604	975	19,016	19,991	0.51%	0.50%	0.50%	1.02%	1.00%	1.00%	1.54%	1.50%	1.50%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	329,276	1,183,607	1,512,882	331,488	1,198,969	1,530,457	333,711	1,214,470	1,548,180	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	330,382	1,190,433	1,520,814	333,720	1,212,870	1,546,590	337,087	1,235,698	1,572,785	0.34%	0.58%	0.52%	0.67%	1.16%	1.05%	1.01%	1.75%	1.59%
2019	331,491	1,196,939	1,528,429	335,967	1,226,226	1,562,193	340,502	1,256,258	1,596,760	0.34%	0.55%	0.50%	0.67%	1.10%	1.01%	1.01%	1.66%	1.52%
2020	333,971	1,203,163	1,537,134	339,625	1,239,102	1,578,727	345,379	1,276,228	1,621,607	0.75%	0.52%	0.57%	1.09%	1.05%	1.06%	1.43%	1.59%	1.56%
2021	333,710	1,209,212	1,542,922	340,493	1,251,706	1,592,198	347,425	1,295,917	1,643,342	-0.08%	0.50%	0.38%	0.26%	1.02%	0.85%	0.59%	1.54%	1.34%
2022	334,821	1,215,165	1,549,986	342,773	1,264,196	1,606,969	350,936	1,315,565	1,666,501	0.33%	0.49%	0.46%	0.67%	1.00%	0.93%	1.01%	1.52%	1.41%
2023	335,931	1,220,924	1,556,854	345,062	1,276,362	1,621,424	354,475	1,334,835	1,689,310	0.33%	0.47%	0.44%	0.67%	0.96%	0.90%	1.01%	1.46%	1.37%
2024	338,436	1,226,637	1,565,073	348,812	1,288,514	1,637,325	359,553	1,354,208	1,713,761	0.75%	0.47%	0.53%	1.09%	0.95%	0.98%	1.43%	1.45%	1.45%
2025	338,146	1,232,246	1,570,392	349,660	1,300,519	1,650,179	361,630	1,373,473	1,735,103	-0.09%	0.46%	0.34%	0.24%	0.93%	0.79%	0.58%	1.42%	1.25%
2026	339,247	1,237,777	1,577,024	351,958	1,312,437	1,664,395	365,229	1,392,720	1,757,949	0.33%	0.45%	0.42%	0.66%	0.92%	0.86%	1.00%	1.40%	1.32%
2027	340,341	1,243,261	1,583,602	354,253	1,324,325	1,678,579	368,837	1,412,040	1,780,877	0.32%	0.44%	0.42%	0.65%	0.91%	0.85%	0.99%	1.39%	1.30%
2028	342,846	1,248,658	1,591,503	358,040	1,336,098	1,694,138	374,034	1,431,289	1,805,323	0.74%	0.43%	0.50%	1.07%	0.89%	0.93%	1.41%	1.36%	1.37%
2029	342,506	1,254,034	1,596,540	358,822	1,347,897	1,706,719	376,066	1,450,700	1,826,766	-0.10%	0.43%	0.32%	0.22%	0.88%	0.74%	0.54%	1.36%	1.19%
2030	343,577	1,259,338	1,602,915	361,095	1,359,609	1,720,704	379,685	1,470,082	1,849,767	0.31%	0.42%	0.40%	0.63%	0.87%	0.82%	0.96%	1.34%	1.26%
2031	344,624	1,264,593	1,609,217	363,327	1,371,280	1,734,607	383,252	1,489,510	1,872,763	0.30%	0.42%	0.39%	0.62%	0.86%	0.81%	0.94%	1.32%	1.24%
2032	347,088	1,269,789	1,616,877	367,063	1,382,888	1,749,952	388,426	1,508,946	1,897,372	0.71%	0.41%	0.48%	1.03%	0.85%	0.88%	1.35%	1.30%	1.31%
2033	346,647	1,274,883	1,621,530	367,664	1,394,333	1,761,997	390,225	1,528,216	1,918,441	-0.13%	0.40%	0.29%	0.16%	0.83%	0.69%	0.46%	1.28%	1.11%
2034	347,624	1,279,965	1,627,589	369,771	1,405,816	1,775,586	393,630	1,547,661	1,941,292	0.28%	0.40%	0.37%	0.57%	0.82%	0.77%	0.87%	1.27%	1.19%
2035	348,578	1,284,961	1,633,539	371,836	1,417,165	1,789,001	396,982	1,566,985	1,963,967	0.27%	0.39%	0.37%	0.56%	0.81%	0.76%	0.85%	1.25%	1.17%
2036	350,974	1,289,957	1,640,932	375,457	1,428,579	1,804,036	402,019	1,586,525	1,988,544	0.69%	0.39%	0.45%	0.97%	0.81%	0.84%	1.27%	1.25%	1.25%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,644	430	2,074	1,658	438	2,097	1,673	446	2,119	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,651	434	2,085	1,673	446	2,119	1,695	458	2,152	0.44%	0.84%	0.52%	0.88%	1.68%	1.05%	1.32%	2.52%	1.57%
2019	1,658	437	2,096	1,688	453	2,140	1,717	469	2,186	0.44%	0.80%	0.51%	0.88%	1.61%	1.03%	1.32%	2.41%	1.55%
2020	1,666	441	2,106	1,702	460	2,162	1,740	479	2,219	0.44%	0.77%	0.51%	0.87%	1.54%	1.02%	1.31%	2.32%	1.53%
2021	1,673	444	2,117	1,717	467	2,184	1,762	490	2,253	0.44%	0.75%	0.50%	0.87%	1.50%	1.00%	1.31%	2.26%	1.51%
2022	1,680	447	2,128	1,732	474	2,206	1,785	501	2,287	0.43%	0.75%	0.50%	0.87%	1.49%	1.00%	1.30%	2.24%	1.50%
2023	1,687	451	2,138	1,747	481	2,228	1,808	512	2,321	0.43%	0.72%	0.49%	0.86%	1.45%	0.99%	1.29%	2.17%	1.49%
2024	1,695	454	2,149	1,762	487	2,249	1,832	523	2,355	0.43%	0.72%	0.49%	0.86%	1.44%	0.98%	1.29%	2.16%	1.48%
2025	1,702	457	2,159	1,777	494	2,271	1,855	534	2,389	0.43%	0.70%	0.48%	0.85%	1.40%	0.97%	1.28%	2.10%	1.46%
2026	1,709	460	2,169	1,792	501	2,293	1,879	545	2,424	0.42%	0.69%	0.48%	0.84%	1.39%	0.96%	1.27%	2.08%	1.45%
2027	1,716	463	2,180	1,807	508	2,315	1,902	556	2,459	0.42%	0.68%	0.47%	0.84%	1.37%	0.95%	1.25%	2.05%	1.43%
2028	1,723	467	2,190	1,822	515	2,337	1,926	568	2,493	0.41%	0.67%	0.47%	0.83%	1.35%	0.94%	1.24%	2.02%	1.42%
2029	1,730	470	2,200	1,837	522	2,359	1,949	579	2,528	0.41%	0.67%	0.46%	0.82%	1.33%	0.93%	1.23%	2.00%	1.40%
2030	1,737	473	2,210	1,852	529	2,380	1,973	590	2,563	0.40%	0.66%	0.46%	0.81%	1.32%	0.92%	1.21%	1.98%	1.39%
2031	1,744	476	2,220	1,866	535	2,402	1,996	602	2,598	0.39%	0.64%	0.45%	0.79%	1.29%	0.90%	1.18%	1.93%	1.35%
2032	1,751	479	2,230	1,881	542	2,423	2,019	613	2,633	0.38%	0.64%	0.44%	0.77%	1.27%	0.88%	1.15%	1.91%	1.32%
2033	1,757	482	2,239	1,895	549	2,443	2,042	625	2,667	0.37%	0.62%	0.43%	0.75%	1.23%	0.86%	1.12%	1.85%	1.29%
2034	1,764	485	2,248	1,908	556	2,464	2,064	636	2,700	0.36%	0.62%	0.42%	0.73%	1.24%	0.84%	1.09%	1.85%	1.27%
2035	1,770	488	2,258	1,922	562	2,484	2,086	648	2,734	0.35%	0.60%	0.41%	0.71%	1.20%	0.82%	1.06%	1.80%	1.24%
2036	1,776	491	2,267	1,935	569	2,504	2,108	659	2,767	0.34%	0.60%	0.40%	0.69%	1.20%	0.80%	1.03%	1.80%	1.22%





20 Year Customer Growth Rate	
High:	30.57%
Medium:	19.43%
Low:	9.27%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

North Pasco

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	3,427,492	773,192	4,200,684	3,488,289	786,775	4,275,065	3,549,625	800,478	4,350,103
2018	3,456,870	779,688	4,236,558	3,548,093	799,998	4,348,091	3,640,914	820,661	4,461,575
2019	3,486,087	786,111	4,272,198	3,608,073	813,181	4,421,254	3,733,243	840,952	4,574,195
2020	3,529,231	792,482	4,321,713	3,682,925	826,367	4,509,293	3,841,942	861,414	4,703,356
2021	3,544,346	798,855	4,343,201	3,729,172	839,666	4,568,838	3,921,977	882,217	4,804,194
2022	3,573,465	805,193	4,378,658	3,790,450	852,996	4,643,446	4,018,650	903,238	4,921,888
2023	3,602,623	811,520	4,414,143	3,852,311	866,411	4,718,722	4,117,034	924,562	5,041,596
2024	3,646,337	817,840	4,464,177	3,930,367	879,918	4,810,285	4,233,920	946,202	5,180,122
2025	3,661,080	824,167	4,485,247	3,977,838	893,549	4,871,387	4,319,081	968,211	5,287,293
2026	3,690,236	830,457	4,520,693	4,041,200	907,204	4,948,405	4,422,285	990,433	5,412,718
2027	3,719,454	836,752	4,556,205	4,105,199	920,978	5,026,176	4,527,344	1,013,020	5,540,364
2028	3,763,595	843,017	4,606,611	4,186,195	934,792	5,120,987	4,652,272	1,035,849	5,688,120
2029	3,777,738	849,278	4,627,016	4,234,370	948,704	5,183,074	4,741,876	1,059,012	5,800,888
2030	3,806,847	855,523	4,662,370	4,299,635	962,685	5,262,320	4,851,520	1,082,469	5,933,988
2031	3,835,800	861,735	4,697,535	4,365,046	976,696	5,341,742	4,962,247	1,106,149	6,068,396
2032	3,880,024	867,899	4,747,923	4,448,221	990,702	5,438,923	5,094,156	1,129,998	6,224,154
2033	3,893,098	874,014	4,767,112	4,495,962	1,004,702	5,500,664	5,186,353	1,154,009	6,340,362
2034	3,921,364	880,067	4,801,431	4,561,263	1,018,656	5,579,919	5,299,369	1,178,113	6,477,483
2035	3,949,495	886,086	4,835,580	4,626,721	1,032,631	5,659,352	5,413,470	1,202,427	6,615,897
2036	3,993,418	892,076	4,885,494	4,711,111	1,046,637	5,757,748	5,550,762	1,226,962	6,777,724

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.86%	0.84%	0.85%	1.71%	1.68%	1.71%	2.57%	2.52%	2.56%
2019	0.85%	0.82%	0.84%	1.69%	1.65%	1.68%	2.54%	2.47%	2.52%
2020	1.24%	0.81%	1.16%	2.07%	1.62%	1.99%	2.91%	2.43%	2.82%
2021	0.43%	0.80%	0.50%	1.26%	1.61%	1.32%	2.08%	2.42%	2.14%
2022	0.82%	0.79%	0.82%	1.64%	1.59%	1.63%	2.46%	2.38%	2.45%
2023	0.82%	0.79%	0.81%	1.63%	1.57%	1.62%	2.45%	2.36%	2.43%
2024	1.21%	0.78%	1.13%	2.03%	1.56%	1.94%	2.84%	2.34%	2.75%
2025	0.40%	0.77%	0.47%	1.21%	1.55%	1.27%	2.01%	2.33%	2.07%
2026	0.80%	0.76%	0.79%	1.59%	1.53%	1.58%	2.39%	2.30%	2.37%
2027	0.79%	0.76%	0.79%	1.58%	1.52%	1.57%	2.38%	2.28%	2.36%
2028	1.19%	0.75%	1.11%	1.97%	1.50%	1.89%	2.76%	2.25%	2.67%
2029	0.38%	0.74%	0.44%	1.15%	1.49%	1.21%	1.93%	2.24%	1.98%
2030	0.77%	0.74%	0.76%	1.54%	1.47%	1.53%	2.31%	2.21%	2.29%
2031	0.76%	0.73%	0.75%	1.52%	1.46%	1.51%	2.28%	2.19%	2.27%
2032	1.15%	0.72%	1.07%	1.91%	1.43%	1.82%	2.66%	2.16%	2.57%
2033	0.34%	0.70%	0.40%	1.07%	1.41%	1.14%	1.81%	2.12%	1.87%
2034	0.73%	0.69%	0.72%	1.45%	1.39%	1.44%	2.18%	2.09%	2.16%
2035	0.72%	0.68%	0.71%	1.44%	1.37%	1.42%	2.15%	2.06%	2.14%
2036	1.11%	0.68%	1.03%	1.82%	1.36%	1.74%	2.54%	2.04%	2.45%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	2,118	64,430	66,548	2,156	65,577	67,732	2,193	66,734	68,927
2018	2,136	64,983	67,119	2,192	66,702	68,894	2,248	68,452	70,701
2019	2,154	65,532	67,686	2,228	67,830	70,058	2,304	70,188	72,492
2020	2,171	66,078	68,250	2,264	68,961	71,225	2,360	71,944	74,304
2021	2,189	66,626	68,815	2,300	70,105	72,405	2,417	73,734	76,151
2022	2,206	67,173	69,379	2,337	71,255	73,592	2,475	75,549	78,023
2023	2,223	67,720	69,943	2,374	72,416	74,790	2,533	77,395	79,928
2024	2,241	68,267	70,508	2,411	73,587	75,998	2,592	79,272	81,865
2025	2,258	68,817	71,075	2,448	74,771	77,219	2,653	81,186	83,838
2026	2,275	69,363	71,638	2,485	75,959	78,444	2,714	83,121	85,834
2027	2,292	69,911	72,203	2,523	77,159	79,682	2,775	85,090	87,866
2028	2,310	70,457	72,767	2,561	78,364	80,925	2,838	87,085	89,923
2029	2,327	71,003	73,330	2,599	79,580	82,179	2,901	89,111	92,012
2030	2,344	71,549	73,893	2,637	80,802	83,440	2,966	91,165	94,131
2031	2,361	72,091	74,452	2,676	82,028	84,704	3,031	93,240	96,271
2032	2,378	72,630	75,008	2,714	83,254	85,968	3,096	95,331	98,427
2033	2,395	73,165	75,559	2,753	84,481	87,234	3,162	97,439	100,601
2034	2,411	73,694	76,105	2,791	85,704	88,495	3,228	99,556	102,784
2035	2,428	74,221	76,649	2,829	86,931	89,760	3,294	101,694	104,988
2036	2,444	74,746	77,190	2,867	88,159	91,027	3,362	103,851	107,212

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.84%	0.86%	0.86%	1.68%	1.72%	1.72%	2.52%	2.57%	2.57%
2019	0.82%	0.85%	0.84%	1.65%	1.69%	1.69%	2.47%	2.54%	2.53%
2020	0.81%	0.83%	0.83%	1.62%	1.67%	1.67%	2.43%	2.50%	2.50%
2021	0.80%	0.83%	0.83%	1.61%	1.66%	1.66%	2.42%	2.49%	2.49%
2022	0.79%	0.82%	0.82%	1.59%	1.64%	1.64%	2.38%	2.46%	2.46%
2023	0.79%	0.81%	0.81%	1.57%	1.63%	1.63%	2.36%	2.44%	2.44%
2024	0.78%	0.81%	0.81%	1.56%	1.62%	1.61%	2.34%	2.43%	2.42%
2025	0.77%	0.80%	0.80%	1.55%	1.61%	1.61%	2.33%	2.41%	2.41%
2026	0.76%	0.79%	0.79%	1.53%	1.59%	1.59%	2.30%	2.38%	2.38%
2027	0.76%	0.79%	0.79%	1.52%	1.58%	1.58%	2.28%	2.37%	2.37%
2028	0.75%	0.78%	0.78%	1.50%	1.56%	1.56%	2.25%	2.34%	2.34%
2029	0.74%	0.78%	0.77%	1.49%	1.55%	1.55%	2.24%	2.33%	2.32%
2030	0.74%	0.77%	0.77%	1.47%	1.54%	1.53%	2.21%	2.31%	2.30%
2031	0.73%	0.76%	0.76%	1.46%	1.52%	1.51%	2.19%	2.28%	2.27%
2032	0.72%	0.75%	0.75%	1.43%	1.49%	1.49%	2.16%	2.24%	2.24%
2033	0.70%	0.74%	0.74%	1.41%	1.47%	1.47%	2.12%	2.21%	2.21%
2034	0.69%	0.72%	0.72%	1.39%	1.45%	1.45%	2.09%	2.17%	2.17%
2035	0.68%	0.72%	0.71%	1.37%	1.43%	1.43%	2.06%	2.15%	2.14%
2036	0.68%	0.71%	0.71%	1.36%	1.41%	1.41%	2.04%	2.12%	2.12%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,518,639	1,682,044	4,200,684	2,560,572	1,714,493	4,275,065	2,602,851	1,747,253	4,350,103
2018	2,539,628	1,696,931	4,236,558	2,603,248	1,744,843	4,348,091	2,667,921	1,793,654	4,461,575
2019	2,560,742	1,711,456	4,272,198	2,646,534	1,774,720	4,421,254	2,734,464	1,839,731	4,574,195
2020	2,596,028	1,725,684	4,321,713	2,705,057	1,804,236	4,509,293	2,817,718	1,885,637	4,703,356
2021	2,603,310	1,739,891	4,343,201	2,734,884	1,833,953	4,568,838	2,871,955	1,932,240	4,804,194
2022	2,624,758	1,753,900	4,378,658	2,779,948	1,863,498	4,643,446	2,942,938	1,978,951	4,921,888
2023	2,646,294	1,767,849	4,414,143	2,825,567	1,893,156	4,718,722	3,015,378	2,026,218	5,041,596
2024	2,682,473	1,781,704	4,464,177	2,887,437	1,922,848	4,810,285	3,106,207	2,073,915	5,180,122
2025	2,689,648	1,795,599	4,485,247	2,918,526	1,952,861	4,871,387	3,164,786	2,122,507	5,287,293
2026	2,711,398	1,809,295	4,520,693	2,965,728	1,982,677	4,948,405	3,241,562	2,171,156	5,412,718
2027	2,733,178	1,823,027	4,556,205	3,013,373	2,012,803	5,026,176	3,319,678	2,220,686	5,540,364
2028	2,769,979	1,836,632	4,606,611	3,078,109	2,042,877	5,120,987	3,417,613	2,270,508	5,688,120
2029	2,776,800	1,850,216	4,627,016	3,109,942	2,073,132	5,183,074	3,479,885	2,321,003	5,800,888
2030	2,798,641	1,863,729	4,662,370	3,158,865	2,103,455	5,262,320	3,561,999	2,371,990	5,933,988
2031	2,820,325	1,877,209	4,697,535	3,207,816	2,133,926	5,341,742	3,644,795	2,423,601	6,068,396
2032	2,857,322	1,890,601	4,747,923	3,274,504	2,164,419	5,438,923	3,748,529	2,475,625	6,224,154
2033	2,863,214	1,903,899	4,767,112	3,305,745	2,194,918	5,500,664	3,812,327	2,528,035	6,340,362
2034	2,884,425	1,917,007	4,801,431	3,354,724	2,225,195	5,579,919	3,897,053	2,580,429	6,477,483
2035	2,905,493	1,930,088	4,835,580	3,403,730	2,255,622	5,659,352	3,982,446	2,633,450	6,615,897
2036	2,942,359	1,943,135	4,885,494	3,471,569	2,286,179	5,757,748	4,090,661	2,687,063	6,777,724

Annual Change

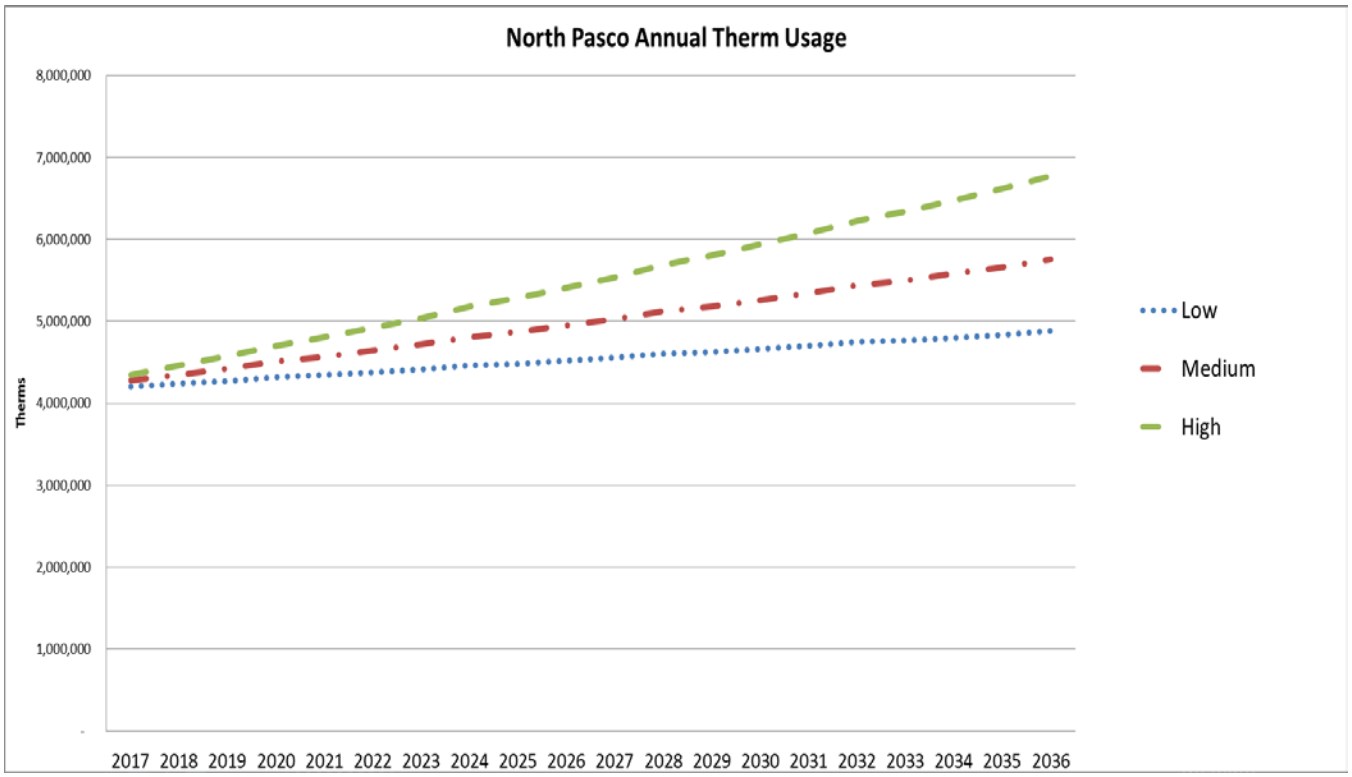
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.83%	0.89%	0.85%	1.67%	1.77%	1.71%	2.50%	2.66%	2.56%
2019	0.83%	0.86%	0.84%	1.66%	1.71%	1.68%	2.49%	2.57%	2.52%
2020	1.38%	0.83%	1.16%	2.21%	1.66%	1.99%	3.04%	2.50%	2.82%
2021	0.28%	0.82%	0.50%	1.10%	1.65%	1.32%	1.92%	2.47%	2.14%
2022	0.82%	0.81%	0.82%	1.65%	1.61%	1.63%	2.47%	2.42%	2.45%
2023	0.82%	0.80%	0.81%	1.64%	1.59%	1.62%	2.46%	2.39%	2.43%
2024	1.37%	0.78%	1.13%	2.19%	1.57%	1.94%	3.01%	2.35%	2.75%
2025	0.27%	0.78%	0.47%	1.08%	1.56%	1.27%	1.89%	2.34%	2.07%
2026	0.81%	0.76%	0.79%	1.62%	1.53%	1.58%	2.43%	2.29%	2.37%
2027	0.80%	0.76%	0.79%	1.61%	1.52%	1.57%	2.41%	2.28%	2.36%
2028	1.35%	0.75%	1.11%	2.15%	1.49%	1.89%	2.95%	2.24%	2.67%
2029	0.25%	0.74%	0.44%	1.03%	1.48%	1.21%	1.82%	2.22%	1.98%
2030	0.79%	0.73%	0.76%	1.57%	1.46%	1.53%	2.36%	2.20%	2.29%
2031	0.77%	0.72%	0.75%	1.55%	1.45%	1.51%	2.32%	2.18%	2.27%
2032	1.31%	0.71%	1.07%	2.08%	1.43%	1.82%	2.85%	2.15%	2.57%
2033	0.21%	0.70%	0.40%	0.95%	1.41%	1.14%	1.70%	2.12%	1.87%
2034	0.74%	0.69%	0.72%	1.48%	1.38%	1.44%	2.22%	2.07%	2.16%
2035	0.73%	0.68%	0.71%	1.46%	1.37%	1.42%	2.19%	2.05%	2.14%
2036	1.27%	0.68%	1.03%	1.99%	1.35%	1.74%	2.72%	2.04%	2.45%

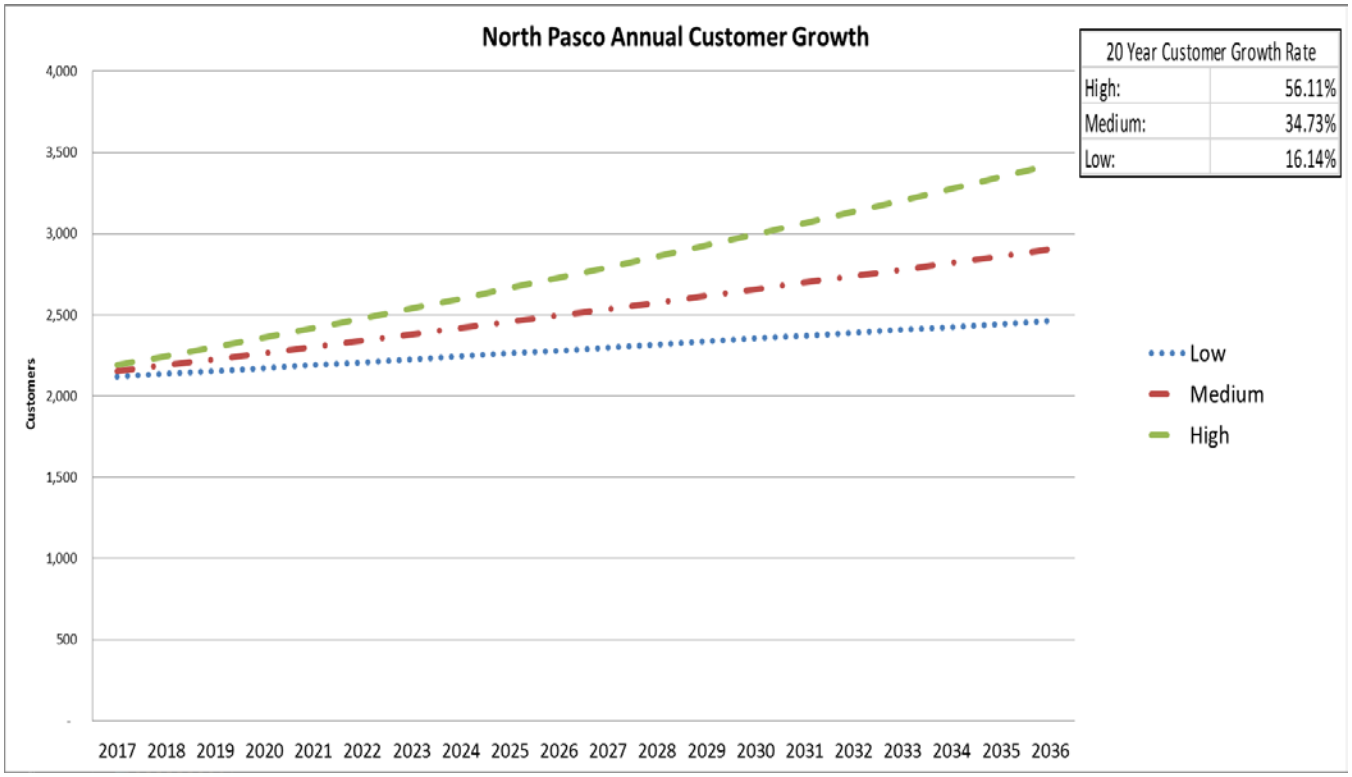
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,914	206	2,119	1,945	210	2,155	1,977	214	2,191
2018	1,929	207	2,137	1,978	213	2,191	2,027	219	2,246
2019	1,945	209	2,155	2,011	217	2,228	2,077	225	2,303
2020	1,962	211	2,173	2,044	221	2,265	2,129	231	2,360
2021	1,978	213	2,191	2,078	224	2,302	2,182	236	2,418
2022	1,994	214	2,209	2,112	228	2,340	2,236	242	2,478
2023	2,010	216	2,227	2,147	232	2,378	2,291	248	2,539
2024	2,027	218	2,245	2,182	235	2,417	2,347	254	2,601
2025	2,043	220	2,263	2,217	239	2,456	2,404	260	2,664
2026	2,060	221	2,281	2,253	243	2,496	2,463	266	2,729
2027	2,077	223	2,300	2,289	246	2,536	2,522	272	2,794
2028	2,093	225	2,318	2,326	250	2,576	2,582	278	2,861
2029	2,110	226	2,336	2,363	254	2,617	2,644	285	2,928
2030	2,126	228	2,354	2,400	258	2,658	2,706	291	2,997
2031	2,143	230	2,372	2,437	261	2,699	2,769	297	3,066
2032	2,159	231	2,390	2,474	265	2,739	2,832	304	3,136
2033	2,175	233	2,408	2,512	269	2,780	2,896	310	3,206
2034	2,191	235	2,426	2,549	273	2,821	2,961	317	3,277
2035	2,207	236	2,444	2,586	276	2,862	3,026	323	3,349
2036	2,223	238	2,461	2,623	280	2,903	3,091	330	3,421

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.83%	0.89%	0.84%	1.67%	1.78%	1.68%	2.50%	2.68%	2.52%
2019	0.83%	0.86%	0.83%	1.66%	1.73%	1.67%	2.49%	2.59%	2.50%
2020	0.83%	0.84%	0.83%	1.66%	1.68%	1.66%	2.49%	2.52%	2.49%
2021	0.83%	0.83%	0.83%	1.65%	1.67%	1.65%	2.48%	2.50%	2.48%
2022	0.82%	0.81%	0.82%	1.65%	1.63%	1.65%	2.47%	2.44%	2.47%
2023	0.82%	0.80%	0.82%	1.64%	1.61%	1.64%	2.46%	2.41%	2.46%
2024	0.82%	0.79%	0.82%	1.64%	1.58%	1.63%	2.45%	2.38%	2.45%
2025	0.81%	0.79%	0.81%	1.63%	1.58%	1.62%	2.44%	2.37%	2.43%
2026	0.81%	0.77%	0.80%	1.62%	1.54%	1.61%	2.43%	2.31%	2.41%
2027	0.80%	0.77%	0.80%	1.61%	1.53%	1.60%	2.41%	2.30%	2.40%
2028	0.80%	0.75%	0.79%	1.59%	1.51%	1.59%	2.39%	2.26%	2.38%
2029	0.79%	0.75%	0.79%	1.58%	1.49%	1.58%	2.38%	2.24%	2.36%
2030	0.79%	0.74%	0.78%	1.57%	1.47%	1.56%	2.36%	2.21%	2.35%
2031	0.77%	0.73%	0.77%	1.55%	1.46%	1.54%	2.32%	2.19%	2.31%
2032	0.76%	0.72%	0.76%	1.53%	1.44%	1.52%	2.29%	2.16%	2.28%
2033	0.75%	0.71%	0.75%	1.50%	1.42%	1.50%	2.26%	2.13%	2.24%
2034	0.74%	0.69%	0.74%	1.48%	1.39%	1.47%	2.22%	2.08%	2.21%
2035	0.73%	0.69%	0.73%	1.46%	1.38%	1.45%	2.19%	2.06%	2.18%
2036	0.72%	0.68%	0.72%	1.44%	1.36%	1.43%	2.16%	2.04%	2.15%





20 Year Customer Growth Rate	
High:	56.11%
Medium:	34.73%
Low:	16.14%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

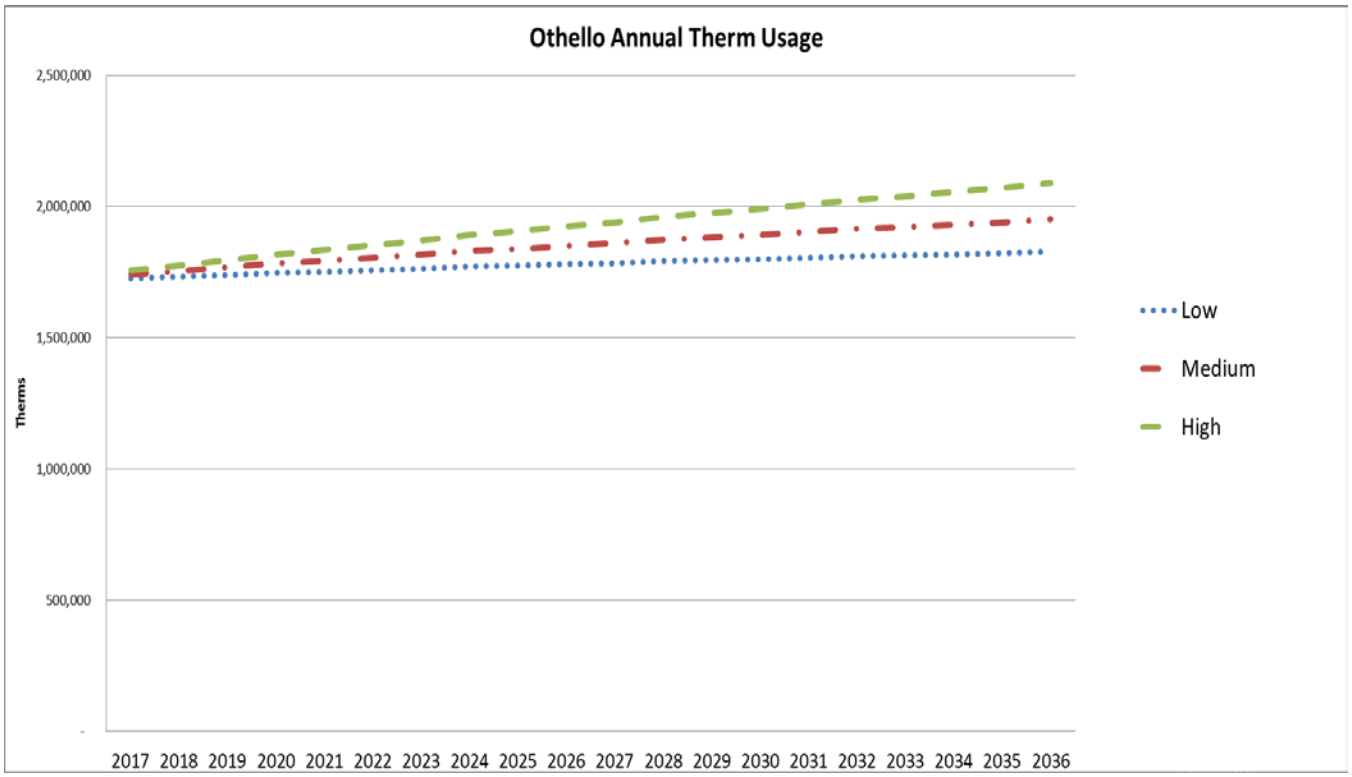
Othello

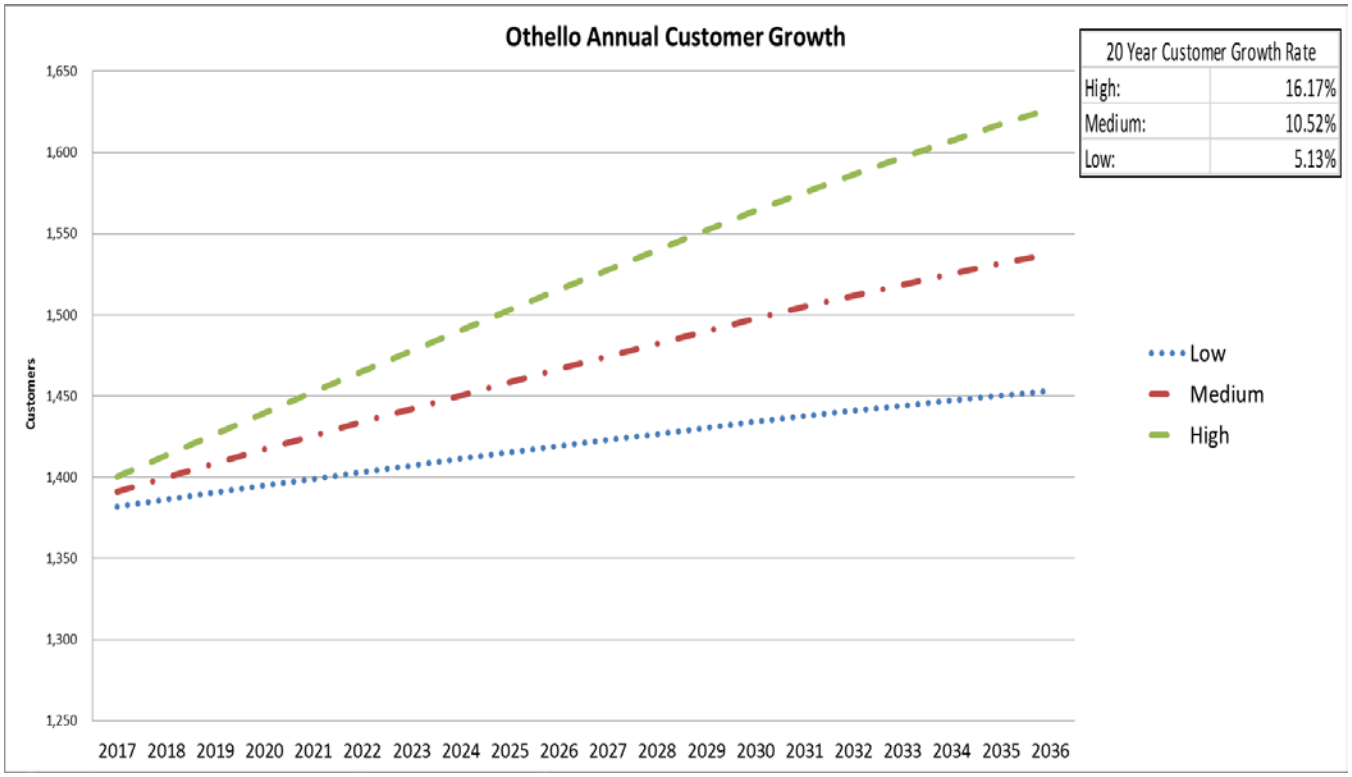
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	794,815	932,067	1,726,882	800,744	940,530	1,741,274	806,703	949,038	1,755,740	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	797,621	935,889	1,733,509	806,413	948,254	1,754,667	815,293	960,744	1,776,037	0.35%	0.41%	0.38%	0.71%	0.82%	0.77%	1.06%	1.23%	1.16%
2019	800,409	939,567	1,739,976	812,074	955,726	1,767,800	823,915	972,126	1,796,041	0.35%	0.39%	0.37%	0.70%	0.79%	0.75%	1.06%	1.18%	1.13%
2020	806,259	942,855	1,749,114	820,830	962,439	1,783,269	835,690	982,405	1,818,095	0.73%	0.35%	0.53%	1.08%	0.70%	0.88%	1.43%	1.06%	1.23%
2021	805,943	946,074	1,752,017	823,390	969,043	1,792,433	841,269	992,566	1,833,835	-0.04%	0.34%	0.17%	0.31%	0.69%	0.51%	0.67%	1.03%	0.87%
2022	808,651	949,203	1,757,854	828,966	975,492	1,804,458	849,883	1,002,536	1,852,419	0.34%	0.33%	0.33%	0.68%	0.67%	0.67%	1.02%	1.00%	1.01%
2023	811,331	952,085	1,763,416	834,509	981,462	1,815,972	858,483	1,011,814	1,870,297	0.33%	0.30%	0.32%	0.67%	0.61%	0.64%	1.01%	0.93%	0.97%
2024	817,183	954,779	1,771,963	843,372	987,075	1,830,446	870,582	1,020,586	1,891,167	0.72%	0.28%	0.48%	1.06%	0.57%	0.80%	1.41%	0.87%	1.12%
2025	816,743	957,569	1,774,312	845,779	992,911	1,838,690	876,090	1,029,745	1,905,835	-0.05%	0.29%	0.13%	0.29%	0.59%	0.45%	0.63%	0.90%	0.78%
2026	819,516	960,205	1,779,720	851,590	998,454	1,850,044	885,227	1,038,495	1,923,722	0.34%	0.28%	0.30%	0.69%	0.56%	0.62%	1.04%	0.85%	0.94%
2027	822,123	962,706	1,784,829	857,081	1,003,741	1,860,822	893,907	1,046,884	1,940,790	0.32%	0.26%	0.29%	0.64%	0.53%	0.58%	0.98%	0.81%	0.89%
2028	827,936	965,146	1,793,082	865,961	1,008,927	1,874,888	906,196	1,055,160	1,961,356	0.71%	0.25%	0.46%	1.04%	0.52%	0.76%	1.37%	0.79%	1.06%
2029	827,349	967,641	1,794,990	868,160	1,014,249	1,882,408	911,539	1,063,684	1,975,223	-0.07%	0.26%	0.11%	0.25%	0.53%	0.40%	0.59%	0.81%	0.71%
2030	829,939	969,935	1,799,874	873,684	1,019,174	1,892,858	920,387	1,071,629	1,992,017	0.31%	0.24%	0.27%	0.64%	0.49%	0.56%	0.97%	0.75%	0.85%
2031	832,461	972,079	1,804,540	879,089	1,023,812	1,902,901	929,088	1,079,168	2,008,256	0.30%	0.22%	0.26%	0.62%	0.46%	0.53%	0.95%	0.70%	0.82%
2032	838,079	974,172	1,812,251	887,645	1,028,356	1,916,001	941,013	1,086,586	2,027,599	0.67%	0.22%	0.43%	0.97%	0.44%	0.69%	1.28%	0.69%	0.96%
2033	837,243	976,230	1,813,473	889,405	1,032,850	1,922,256	945,815	1,093,967	2,039,782	-0.10%	0.21%	0.07%	0.20%	0.44%	0.33%	0.51%	0.68%	0.60%
2034	839,611	978,212	1,817,823	894,542	1,037,199	1,931,741	954,190	1,101,147	2,055,336	0.28%	0.20%	0.24%	0.58%	0.42%	0.49%	0.89%	0.66%	0.76%
2035	841,837	980,087	1,821,924	899,398	1,041,343	1,940,741	962,160	1,108,042	2,070,202	0.27%	0.19%	0.23%	0.54%	0.40%	0.47%	0.84%	0.63%	0.72%
2036	847,203	981,930	1,829,133	907,497	1,045,436	1,952,932	973,498	1,114,885	2,088,383	0.64%	0.19%	0.40%	0.90%	0.39%	0.63%	1.18%	0.62%	0.88%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	2,554	19,014	21,568	2,577	19,177	21,754	2,600	19,341	21,941	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,564	19,090	21,654	2,598	19,330	21,928	2,632	19,573	22,205	0.41%	0.40%	0.40%	0.82%	0.80%	0.80%	1.23%	1.20%	1.20%
2019	2,574	19,164	21,738	2,618	19,480	22,099	2,663	19,801	22,465	0.39%	0.39%	0.39%	0.79%	0.78%	0.78%	1.18%	1.17%	1.17%
2020	2,583	19,234	21,817	2,637	19,624	22,260	2,692	20,020	22,712	0.35%	0.37%	0.36%	0.70%	0.74%	0.73%	1.06%	1.11%	1.10%
2021	2,592	19,304	21,896	2,655	19,767	22,422	2,719	20,241	22,960	0.34%	0.36%	0.36%	0.69%	0.73%	0.73%	1.03%	1.10%	1.09%
2022	2,601	19,372	21,973	2,673	19,907	22,580	2,747	20,457	23,204	0.33%	0.35%	0.35%	0.67%	0.71%	0.70%	1.00%	1.07%	1.06%
2023	2,608	19,438	22,046	2,689	20,043	22,731	2,772	20,667	23,439	0.30%	0.34%	0.33%	0.61%	0.68%	0.67%	0.93%	1.03%	1.01%
2024	2,616	19,502	22,118	2,704	20,177	22,881	2,796	20,876	23,672	0.28%	0.33%	0.33%	0.57%	0.67%	0.66%	0.87%	1.01%	0.99%
2025	2,623	19,567	22,191	2,720	20,312	23,032	2,821	21,087	23,909	0.29%	0.33%	0.33%	0.59%	0.67%	0.66%	0.90%	1.01%	1.00%
2026	2,631	19,632	22,263	2,735	20,448	23,184	2,845	21,301	24,146	0.28%	0.33%	0.33%	0.56%	0.67%	0.66%	0.85%	1.01%	0.99%
2027	2,638	19,693	22,331	2,750	20,577	23,327	2,868	21,504	24,372	0.26%	0.31%	0.31%	0.53%	0.63%	0.62%	0.81%	0.95%	0.94%
2028	2,644	19,755	22,399	2,764	20,706	23,470	2,891	21,709	24,600	0.25%	0.31%	0.30%	0.52%	0.63%	0.62%	0.79%	0.95%	0.93%
2029	2,651	19,815	22,466	2,779	20,835	23,613	2,914	21,914	24,828	0.26%	0.31%	0.30%	0.53%	0.62%	0.61%	0.81%	0.94%	0.93%
2030	2,657	19,874	22,532	2,792	20,961	23,753	2,936	22,115	25,051	0.24%	0.30%	0.29%	0.49%	0.60%	0.59%	0.75%	0.92%	0.90%
2031	2,663	19,931	22,594	2,805	21,082	23,887	2,957	22,310	25,267	0.22%	0.29%	0.28%	0.46%	0.58%	0.56%	0.70%	0.88%	0.86%
2032	2,669	19,986	22,655	2,817	21,200	24,017	2,977	22,500	25,477	0.22%	0.27%	0.27%	0.44%	0.56%	0.54%	0.69%	0.85%	0.83%
2033	2,675	20,039	22,714	2,830	21,315	24,145	2,997	22,687	25,684	0.21%	0.27%	0.26%	0.44%	0.54%	0.53%	0.68%	0.83%	0.81%
2034	2,680	20,092	22,772	2,842	21,430	24,271	3,017	22,874	25,890	0.20%	0.26%	0.26%	0.42%	0.54%	0.52%	0.66%	0.82%	0.80%
2035	2,685	20,142	22,827	2,853	21,538	24,391	3,036	23,051	26,087	0.19%	0.25%	0.24%	0.40%	0.51%	0.49%	0.63%	0.78%	0.76%
2036	2,690	20,190	22,880	2,864	21,643	24,507	3,054	23,224	26,278	0.19%	0.24%	0.23%	0.39%	0.49%	0.48%	0.62%	0.75%	0.73%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	612,052	1,114,831	1,726,882	615,412	1,125,863	1,741,274	618,781	1,136,959	1,755,740	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	613,728	1,119,782	1,733,509	618,782	1,135,884	1,754,667	623,865	1,152,172	1,776,037	0.27%	0.44%	0.38%	0.55%	0.89%	0.77%	0.82%	1.34%	1.16%
2019	615,414	1,124,562	1,739,976	622,183	1,145,617	1,767,800	629,010	1,167,031	1,796,041	0.27%	0.43%	0.37%	0.55%	0.86%	0.75%	0.82%	1.29%	1.13%
2020	620,193	1,128,921	1,749,114	628,726	1,154,543	1,783,269	637,355	1,180,739	1,818,095	0.78%	0.39%	0.53%	1.05%	0.78%	0.88%	1.33%	1.17%	1.23%
2021	618,757	1,133,260	1,752,017	628,955	1,163,478	1,792,433	639,296	1,194,539	1,833,835	-0.23%	0.38%	0.17%	0.04%	0.77%	0.51%	0.30%	1.17%	0.87%
2022	620,429	1,137,425	1,757,854	632,356	1,172,102	1,804,458	644,484	1,207,934	1,852,419	0.27%	0.37%	0.33%	0.54%	0.74%	0.67%	0.81%	1.12%	1.01%
2023	622,082	1,141,335	1,763,416	635,726	1,180,246	1,815,972	649,640	1,220,657	1,870,297	0.27%	0.34%	0.32%	0.53%	0.69%	0.64%	0.80%	1.05%	0.97%
2024	626,862	1,145,101	1,771,963	642,308	1,188,138	1,830,446	658,102	1,233,065	1,891,167	0.77%	0.33%	0.48%	1.04%	0.67%	0.80%	1.30%	1.02%	1.12%
2025	625,358	1,148,954	1,774,312	642,437	1,196,253	1,838,690	659,946	1,245,889	1,905,835	-0.24%	0.34%	0.13%	0.02%	0.68%	0.45%	0.28%	1.04%	0.78%
2026	626,982	1,152,738	1,779,720	645,776	1,204,268	1,850,044	665,096	1,258,626	1,923,722	0.26%	0.33%	0.30%	0.52%	0.67%	0.62%	0.78%	1.02%	0.94%
2027	628,573	1,156,256	1,784,829	649,055	1,211,767	1,860,822	670,165	1,270,625	1,940,790	0.25%	0.31%	0.29%	0.51%	0.62%	0.58%	0.76%	0.95%	0.89%
2028	633,309	1,159,773	1,793,082	655,583	1,219,306	1,874,888	678,598	1,282,758	1,961,356	0.75%	0.30%	0.46%	1.01%	0.62%	0.76%	1.26%	0.95%	1.06%
2029	631,681	1,163,308	1,794,990	655,489	1,226,919	1,882,408	680,153	1,295,071	1,975,223	-0.26%	0.30%	0.11%	-0.01%	0.62%	0.40%	0.23%	0.96%	0.71%
2030	633,200	1,166,673	1,799,874	658,645	1,234,213	1,892,858	685,070	1,306,947	1,992,017	0.24%	0.29%	0.27%	0.48%	0.59%	0.56%	0.72%	0.92%	0.85%
2031	634,672	1,169,869	1,804,540	661,709	1,241,192	1,902,901	689,855	1,318,401	2,008,256	0.23%	0.27%	0.26%	0.47%	0.57%	0.53%	0.70%	0.88%	0.82%
2032	639,262	1,172,989	1,812,251	667,964	1,248,037	1,916,001	697,910	1,329,689	2,027,599	0.72%	0.27%	0.43%	0.95%	0.55%	0.69%	1.17%	0.86%	0.96%
2033	637,398	1,176,075	1,813,473	667,408	1,254,847	1,922,256	698,788	1,340,994	2,039,782	-0.29%	0.26%	0.07%	-0.08%	0.55%	0.33%	0.13%	0.85%	0.60%
2034	638,684	1,179,139	1,817,823	670,105	1,261,636	1,931,741	703,028	1,352,309	2,055,336	0.20%	0.26%	0.24%	0.40%	0.54%	0.49%	0.61%	0.84%	0.76%
2035	639,909	1,182,014	1,821,924	672,679	1,268,063	1,940,741	707,083	1,363,119	2,070,202	0.19%	0.24%	0.23%	0.38%	0.51%	0.47%	0.58%	0.80%	0.72%
2036	644,295	1,184,838	1,829,133	678,528	1,274,405	1,952,932	714,537	1,373,846	2,088,383	0.69%	0.24%	0.40%	0.87%	0.50%	0.63%	1.05%	0.79%	0.88%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,088	294	1,382	1,094	297	1,391	1,100	300	1,400	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,091	296	1,386	1,100	300	1,400	1,109	304	1,414	0.28%	0.44%	0.32%	0.56%	0.88%	0.63%	0.85%	1.32%	0.95%
2019	1,094	297	1,391	1,106	302	1,409	1,119	308	1,427	0.28%	0.41%	0.31%	0.57%	0.83%	0.62%	0.85%	1.24%	0.93%
2020	1,097	298	1,395	1,113	305	1,417	1,128	311	1,440	0.28%	0.38%	0.30%	0.56%	0.76%	0.61%	0.84%	1.14%	0.91%
2021	1,100	299	1,399	1,119	307	1,426	1,138	315	1,453	0.28%	0.37%	0.30%	0.55%	0.75%	0.60%	0.83%	1.12%	0.89%
2022	1,103	300	1,403	1,125	309	1,434	1,147	318	1,465	0.28%	0.35%	0.29%	0.56%	0.71%	0.59%	0.84%	1.06%	0.88%
2023	1,106	301	1,407	1,131	311	1,442	1,157	321	1,478	0.27%	0.33%	0.29%	0.55%	0.66%	0.57%	0.82%	0.99%	0.86%
2024	1,109	302	1,411	1,137	313	1,450	1,166	324	1,491	0.27%	0.32%	0.28%	0.55%	0.64%	0.57%	0.82%	0.96%	0.85%
2025	1,112	303	1,415	1,143	315	1,459	1,176	328	1,503	0.27%	0.32%	0.28%	0.54%	0.65%	0.56%	0.81%	0.97%	0.84%
2026	1,115	304	1,419	1,150	317	1,467	1,185	331	1,516	0.27%	0.33%	0.28%	0.53%	0.65%	0.56%	0.80%	0.98%	0.84%
2027	1,118	305	1,423	1,156	319	1,475	1,194	334	1,528	0.26%	0.29%	0.27%	0.52%	0.58%	0.54%	0.78%	0.87%	0.80%
2028	1,121	306	1,427	1,162	321	1,482	1,203	337	1,540	0.26%	0.29%	0.26%	0.51%	0.58%	0.53%	0.77%	0.88%	0.80%
2029	1,124	307	1,430	1,167	323	1,490	1,213	340	1,552	0.25%	0.29%	0.26%	0.50%	0.58%	0.52%	0.75%	0.88%	0.78%
2030	1,127	308	1,434	1,173	325	1,498	1,222	342	1,564	0.25%	0.28%	0.25%	0.50%	0.56%	0.51%	0.74%	0.84%	0.76%
2031	1,129	308	1,438	1,179	326	1,505	1,230	345	1,575	0.24%	0.26%	0.24%	0.48%	0.52%	0.49%	0.72%	0.78%	0.73%
2032	1,132	309	1,441	1,184	328	1,512	1,239	348	1,586	0.23%	0.25%	0.23%	0.45%	0.51%	0.46%	0.68%	0.76%	0.70%
2033	1,134	310	1,444	1,189	330	1,519	1,247	350	1,597	0.22%	0.25%	0.22%	0.43%	0.50%	0.45%	0.65%	0.75%	0.67%
2034	1,137	311	1,447	1,194	331	1,525	1,254	353	1,607	0.21%	0.25%	0.22%	0.42%	0.51%	0.43%	0.62%	0.76%	0.65%
2035	1,139	311	1,450	1,199	333	1,532	1,262	355	1,617	0.20%	0.23%	0.20%	0.39%	0.46%	0.41%	0.59%	0.69%	0.61%
2036	1,141	312	1,453	1,203	334	1,538	1,269	358	1,627	0.19%	0.22%	0.19%	0.37%	0.44%	0.39%	0.56%	0.66%	0.58%





20 Year Customer Growth Rate	
High:	16.17%
Medium:	10.52%
Low:	5.13%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

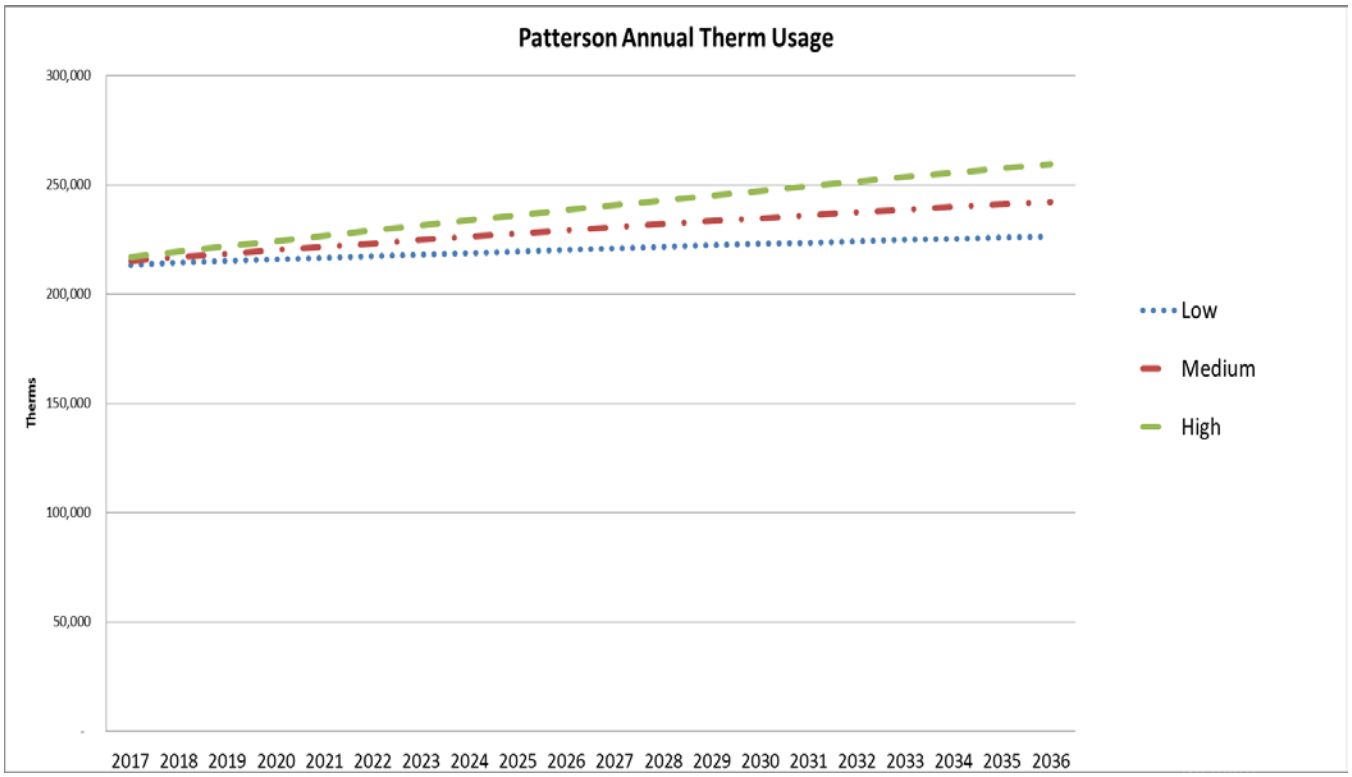
Patterson

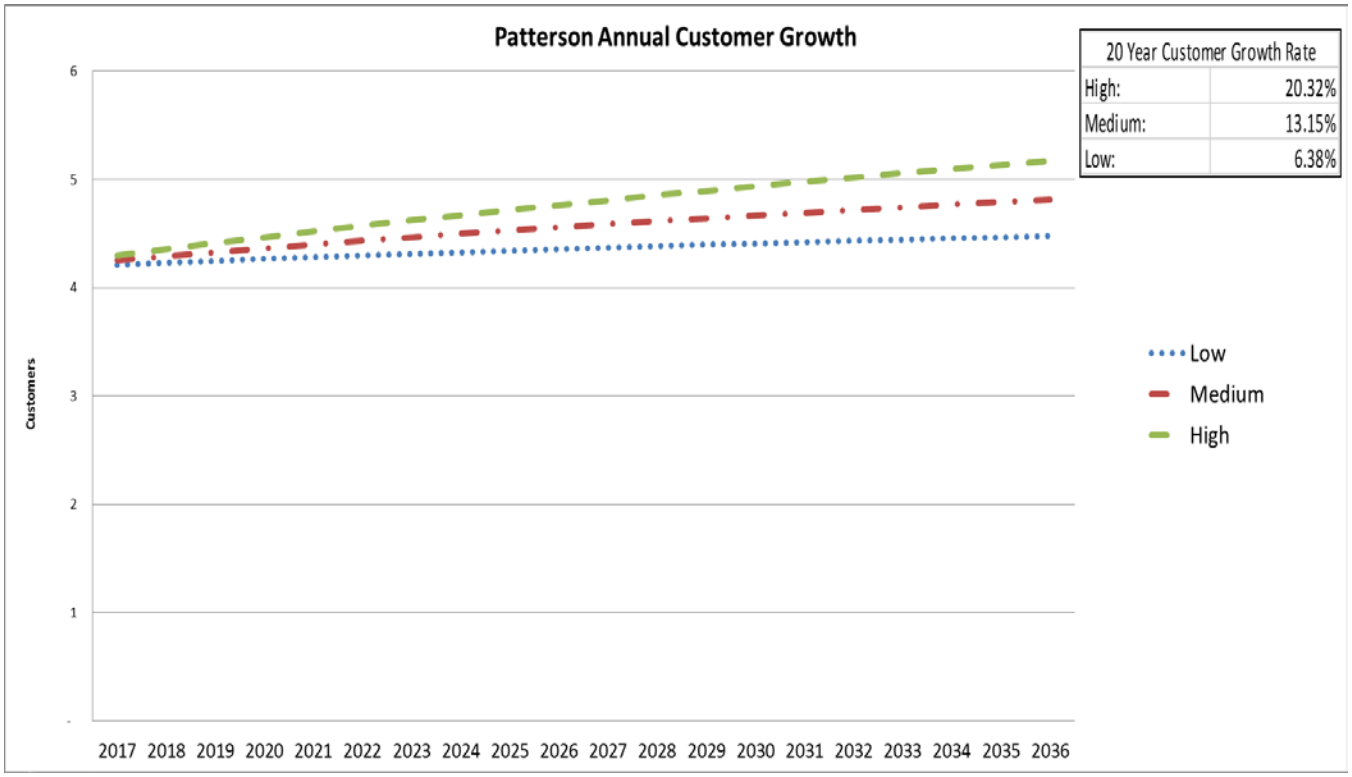
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	118,956	94,528	213,484	119,713	95,465	215,178	120,474	96,407	216,880	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	119,318	94,981	214,300	120,445	96,381	216,826	121,582	97,794	219,376	0.30%	0.48%	0.38%	0.61%	0.96%	0.77%	0.92%	1.44%	1.15%
2019	119,670	95,423	215,093	121,159	97,277	218,436	122,670	99,158	221,828	0.30%	0.46%	0.37%	0.59%	0.93%	0.74%	0.89%	1.39%	1.12%
2020	120,019	95,863	215,882	121,870	98,173	220,044	123,757	100,529	224,286	0.29%	0.46%	0.37%	0.59%	0.92%	0.74%	0.89%	1.38%	1.11%
2021	120,358	96,291	216,649	122,565	99,050	221,615	124,823	101,876	226,699	0.28%	0.45%	0.36%	0.57%	0.89%	0.71%	0.86%	1.34%	1.08%
2022	120,687	96,708	217,395	123,241	99,908	223,149	125,867	103,199	229,066	0.27%	0.43%	0.34%	0.55%	0.87%	0.69%	0.84%	1.30%	1.04%
2023	121,014	97,123	218,136	123,916	100,766	224,681	126,912	104,528	231,440	0.27%	0.43%	0.34%	0.55%	0.86%	0.69%	0.83%	1.29%	1.04%
2024	121,331	97,527	218,858	124,574	101,604	226,178	127,936	105,832	233,768	0.26%	0.42%	0.33%	0.53%	0.83%	0.67%	0.81%	1.25%	1.01%
2025	121,646	97,929	219,575	125,231	102,442	227,673	128,961	107,142	236,103	0.26%	0.41%	0.33%	0.53%	0.83%	0.66%	0.80%	1.24%	1.00%
2026	121,952	98,320	220,273	125,871	103,261	229,132	129,965	108,426	238,392	0.25%	0.40%	0.32%	0.51%	0.80%	0.64%	0.78%	1.20%	0.97%
2027	122,250	98,701	220,951	126,495	104,060	230,556	130,949	109,685	240,634	0.24%	0.39%	0.31%	0.50%	0.77%	0.62%	0.76%	1.16%	0.94%
2028	122,546	99,080	221,626	127,119	104,860	231,979	131,935	110,949	242,884	0.24%	0.38%	0.31%	0.49%	0.77%	0.62%	0.75%	1.15%	0.93%
2029	122,826	99,439	222,266	127,713	105,620	233,333	132,876	112,156	245,032	0.23%	0.36%	0.29%	0.47%	0.73%	0.58%	0.71%	1.09%	0.88%
2030	123,105	99,797	222,903	128,305	106,381	234,686	133,819	113,367	247,186	0.23%	0.36%	0.29%	0.46%	0.72%	0.58%	0.71%	1.08%	0.88%
2031	123,383	100,154	223,537	128,896	107,141	236,037	134,763	114,583	249,346	0.23%	0.36%	0.28%	0.46%	0.71%	0.58%	0.71%	1.07%	0.87%
2032	123,646	100,491	224,137	129,458	107,862	237,320	135,664	115,740	251,404	0.21%	0.34%	0.27%	0.44%	0.67%	0.54%	0.67%	1.01%	0.83%
2033	123,907	100,827	224,734	130,018	108,584	238,602	136,565	116,901	253,466	0.21%	0.33%	0.27%	0.43%	0.67%	0.54%	0.66%	1.00%	0.82%
2034	124,160	101,153	225,313	130,564	109,286	239,850	137,444	118,035	255,479	0.20%	0.32%	0.26%	0.42%	0.65%	0.52%	0.64%	0.97%	0.79%
2035	124,412	101,478	225,890	131,107	109,988	241,095	138,324	119,172	257,497	0.20%	0.32%	0.26%	0.42%	0.64%	0.52%	0.64%	0.96%	0.79%
2036	124,649	101,784	226,433	131,621	110,651	242,272	139,159	120,250	259,409	0.19%	0.30%	0.24%	0.39%	0.60%	0.49%	0.60%	0.90%	0.74%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	259	2,206	2,465	262	2,228	2,489	264	2,250	2,514	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	260	2,217	2,477	264	2,249	2,513	268	2,282	2,550	0.48%	0.48%	0.48%	0.96%	0.95%	0.96%	1.44%	1.43%	1.43%
2019	261	2,227	2,488	267	2,270	2,536	272	2,314	2,586	0.46%	0.46%	0.46%	0.93%	0.92%	0.92%	1.39%	1.38%	1.39%
2020	263	2,237	2,500	269	2,291	2,560	275	2,345	2,621	0.46%	0.46%	0.46%	0.92%	0.91%	0.91%	1.38%	1.37%	1.37%
2021	264	2,247	2,511	271	2,311	2,582	279	2,376	2,656	0.45%	0.44%	0.44%	0.89%	0.88%	0.88%	1.34%	1.32%	1.32%
2022	265	2,256	2,521	274	2,331	2,604	283	2,407	2,690	0.43%	0.43%	0.43%	0.87%	0.85%	0.85%	1.30%	1.28%	1.28%
2023	266	2,266	2,532	276	2,350	2,626	286	2,437	2,724	0.43%	0.42%	0.42%	0.86%	0.84%	0.84%	1.29%	1.26%	1.27%
2024	267	2,275	2,542	278	2,369	2,648	290	2,467	2,757	0.42%	0.41%	0.41%	0.83%	0.82%	0.82%	1.25%	1.22%	1.23%
2025	268	2,284	2,553	281	2,388	2,669	294	2,497	2,790	0.41%	0.40%	0.40%	0.83%	0.81%	0.81%	1.24%	1.21%	1.21%
2026	269	2,293	2,563	283	2,407	2,690	297	2,526	2,823	0.40%	0.39%	0.39%	0.80%	0.78%	0.78%	1.20%	1.17%	1.17%
2027	270	2,302	2,572	285	2,425	2,710	301	2,555	2,855	0.39%	0.38%	0.38%	0.77%	0.76%	0.76%	1.16%	1.13%	1.14%
2028	271	2,310	2,582	287	2,443	2,731	304	2,584	2,887	0.38%	0.37%	0.38%	0.77%	0.75%	0.75%	1.15%	1.12%	1.13%
2029	272	2,319	2,591	289	2,461	2,750	307	2,611	2,918	0.36%	0.35%	0.35%	0.73%	0.71%	0.71%	1.09%	1.06%	1.06%
2030	273	2,327	2,600	291	2,478	2,769	311	2,638	2,949	0.36%	0.35%	0.35%	0.72%	0.70%	0.70%	1.08%	1.05%	1.05%
2031	274	2,335	2,609	294	2,495	2,789	314	2,666	2,980	0.36%	0.35%	0.35%	0.71%	0.69%	0.70%	1.07%	1.04%	1.05%
2032	275	2,342	2,618	296	2,512	2,807	317	2,692	3,009	0.34%	0.33%	0.33%	0.67%	0.66%	0.66%	1.01%	0.98%	0.99%
2033	276	2,350	2,626	297	2,528	2,825	320	2,718	3,039	0.33%	0.33%	0.33%	0.67%	0.65%	0.65%	1.00%	0.98%	0.98%
2034	277	2,357	2,635	299	2,544	2,843	323	2,744	3,067	0.32%	0.31%	0.31%	0.65%	0.63%	0.63%	0.97%	0.94%	0.95%
2035	278	2,365	2,643	301	2,560	2,861	326	2,770	3,096	0.32%	0.31%	0.31%	0.64%	0.62%	0.62%	0.96%	0.93%	0.94%
2036	279	2,372	2,651	303	2,575	2,878	329	2,794	3,123	0.30%	0.29%	0.29%	0.60%	0.59%	0.59%	0.90%	0.88%	0.88%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	-	213,484	213,484	-	215,178	215,178	-	216,880	216,880	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	-	214,300	214,300	-	216,826	216,826	-	219,376	219,376	0.00%	0.38%	0.38%	0.00%	0.77%	0.77%	0.00%	1.15%	1.15%
2019	-	215,093	215,093	-	218,436	218,436	-	221,828	221,828	0.00%	0.37%	0.37%	0.00%	0.74%	0.74%	0.00%	1.12%	1.12%
2020	-	215,882	215,882	-	220,044	220,044	-	224,286	224,286	0.00%	0.37%	0.37%	0.00%	0.74%	0.74%	0.00%	1.11%	1.11%
2021	-	216,649	216,649	-	221,615	221,615	-	226,699	226,699	0.00%	0.36%	0.36%	0.00%	0.71%	0.71%	0.00%	1.08%	1.08%
2022	-	217,395	217,395	-	223,149	223,149	-	229,066	229,066	0.00%	0.34%	0.34%	0.00%	0.69%	0.69%	0.00%	1.04%	1.04%
2023	-	218,136	218,136	-	224,681	224,681	-	231,440	231,440	0.00%	0.34%	0.34%	0.00%	0.69%	0.69%	0.00%	1.04%	1.04%
2024	-	218,858	218,858	-	226,178	226,178	-	233,768	233,768	0.00%	0.33%	0.33%	0.00%	0.67%	0.67%	0.00%	1.01%	1.01%
2025	-	219,575	219,575	-	227,673	227,673	-	236,103	236,103	0.00%	0.33%	0.33%	0.00%	0.66%	0.66%	0.00%	1.00%	1.00%
2026	-	220,273	220,273	-	229,132	229,132	-	238,392	238,392	0.00%	0.32%	0.32%	0.00%	0.64%	0.64%	0.00%	0.97%	0.97%
2027	-	220,951	220,951	-	230,556	230,556	-	240,634	240,634	0.00%	0.31%	0.31%	0.00%	0.62%	0.62%	0.00%	0.94%	0.94%
2028	-	221,626	221,626	-	231,979	231,979	-	242,884	242,884	0.00%	0.31%	0.31%	0.00%	0.62%	0.62%	0.00%	0.93%	0.93%
2029	-	222,266	222,266	-	233,333	233,333	-	245,032	245,032	0.00%	0.29%	0.29%	0.00%	0.58%	0.58%	0.00%	0.88%	0.88%
2030	-	222,903	222,903	-	234,686	234,686	-	247,186	247,186	0.00%	0.29%	0.29%	0.00%	0.58%	0.58%	0.00%	0.88%	0.88%
2031	-	223,537	223,537	-	236,037	236,037	-	249,346	249,346	0.00%	0.28%	0.28%	0.00%	0.58%	0.58%	0.00%	0.87%	0.87%
2032	-	224,137	224,137	-	237,320	237,320	-	251,404	251,404	0.00%	0.27%	0.27%	0.00%	0.54%	0.54%	0.00%	0.83%	0.83%
2033	-	224,734	224,734	-	238,602	238,602	-	253,466	253,466	0.00%	0.27%	0.27%	0.00%	0.54%	0.54%	0.00%	0.82%	0.82%
2034	-	225,313	225,313	-	239,850	239,850	-	255,479	255,479	0.00%	0.26%	0.26%	0.00%	0.52%	0.52%	0.00%	0.79%	0.79%
2035	-	225,890	225,890	-	241,095	241,095	-	257,497	257,497	0.00%	0.26%	0.26%	0.00%	0.52%	0.52%	0.00%	0.79%	0.79%
2036	-	226,433	226,433	-	242,272	242,272	-	259,409	259,409	0.00%	0.24%	0.24%	0.00%	0.49%	0.49%	0.00%	0.74%	0.74%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	-	4	4	-	4	4	-	4	4	0.00%	0.46%	0.46%	0.00%	0.92%	0.92%	0.00%	1.39%	1.39%
2019	-	4	4	-	4	4	-	4	4	0.00%	0.44%	0.44%	0.00%	0.88%	0.88%	0.00%	1.32%	1.32%
2020	-	4	4	-	4	4	-	4	4	0.00%	0.42%	0.42%	0.00%	0.84%	0.84%	0.00%	1.26%	1.26%
2021	-	4	4	-	4	4	-	5	5	0.00%	0.40%	0.40%	0.00%	0.80%	0.80%	0.00%	1.20%	1.20%
2022	-	4	4	-	4	4	-	5	5	0.00%	0.38%	0.38%	0.00%	0.75%	0.75%	0.00%	1.13%	1.13%
2023	-	4	4	-	4	4	-	5	5	0.00%	0.37%	0.37%	0.00%	0.73%	0.73%	0.00%	1.10%	1.10%
2024	-	4	4	-	4	4	-	5	5	0.00%	0.35%	0.35%	0.00%	0.70%	0.70%	0.00%	1.05%	1.05%
2025	-	4	4	-	5	5	-	5	5	0.00%	0.34%	0.34%	0.00%	0.68%	0.68%	0.00%	1.02%	1.02%
2026	-	4	4	-	5	5	-	5	5	0.00%	0.32%	0.32%	0.00%	0.65%	0.65%	0.00%	0.97%	0.97%
2027	-	4	4	-	5	5	-	5	5	0.00%	0.31%	0.31%	0.00%	0.63%	0.63%	0.00%	0.94%	0.94%
2028	-	4	4	-	5	5	-	5	5	0.00%	0.31%	0.31%	0.00%	0.62%	0.62%	0.00%	0.93%	0.93%
2029	-	4	4	-	5	5	-	5	5	0.00%	0.29%	0.29%	0.00%	0.58%	0.58%	0.00%	0.88%	0.88%
2030	-	4	4	-	5	5	-	5	5	0.00%	0.28%	0.28%	0.00%	0.57%	0.57%	0.00%	0.85%	0.85%
2031	-	4	4	-	5	5	-	5	5	0.00%	0.28%	0.28%	0.00%	0.55%	0.55%	0.00%	0.83%	0.83%
2032	-	4	4	-	5	5	-	5	5	0.00%	0.27%	0.27%	0.00%	0.53%	0.53%	0.00%	0.80%	0.80%
2033	-	4	4	-	5	5	-	5	5	0.00%	0.26%	0.26%	0.00%	0.52%	0.52%	0.00%	0.78%	0.78%
2034	-	4	4	-	5	5	-	5	5	0.00%	0.25%	0.25%	0.00%	0.50%	0.50%	0.00%	0.75%	0.75%
2035	-	4	4	-	5	5	-	5	5	0.00%	0.24%	0.24%	0.00%	0.48%	0.48%	0.00%	0.73%	0.73%
2036	-	4	4	-	5	5	-	5	5	0.00%	0.23%	0.23%	0.00%	0.46%	0.46%	0.00%	0.69%	0.69%





20 Year Customer Growth Rate	
High:	20.32%
Medium:	13.15%
Low:	6.38%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

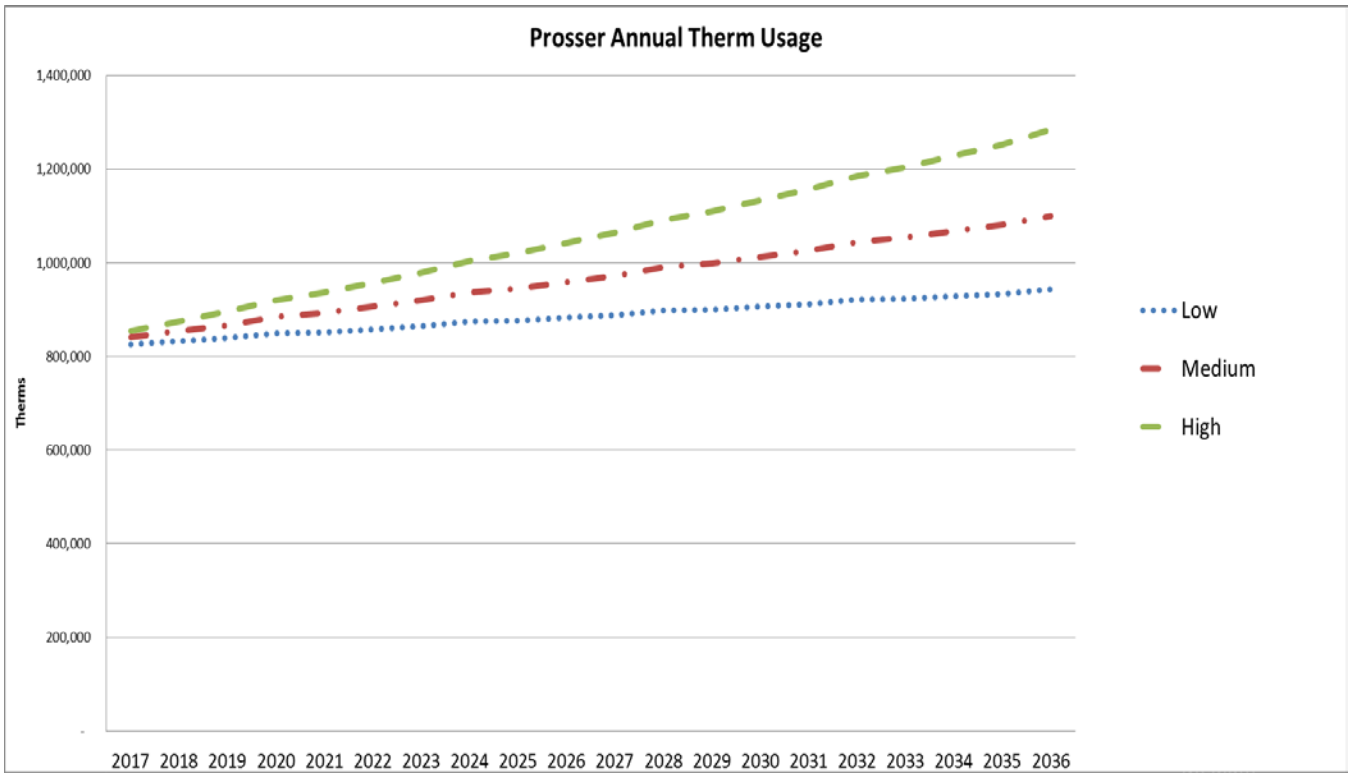
Prosser

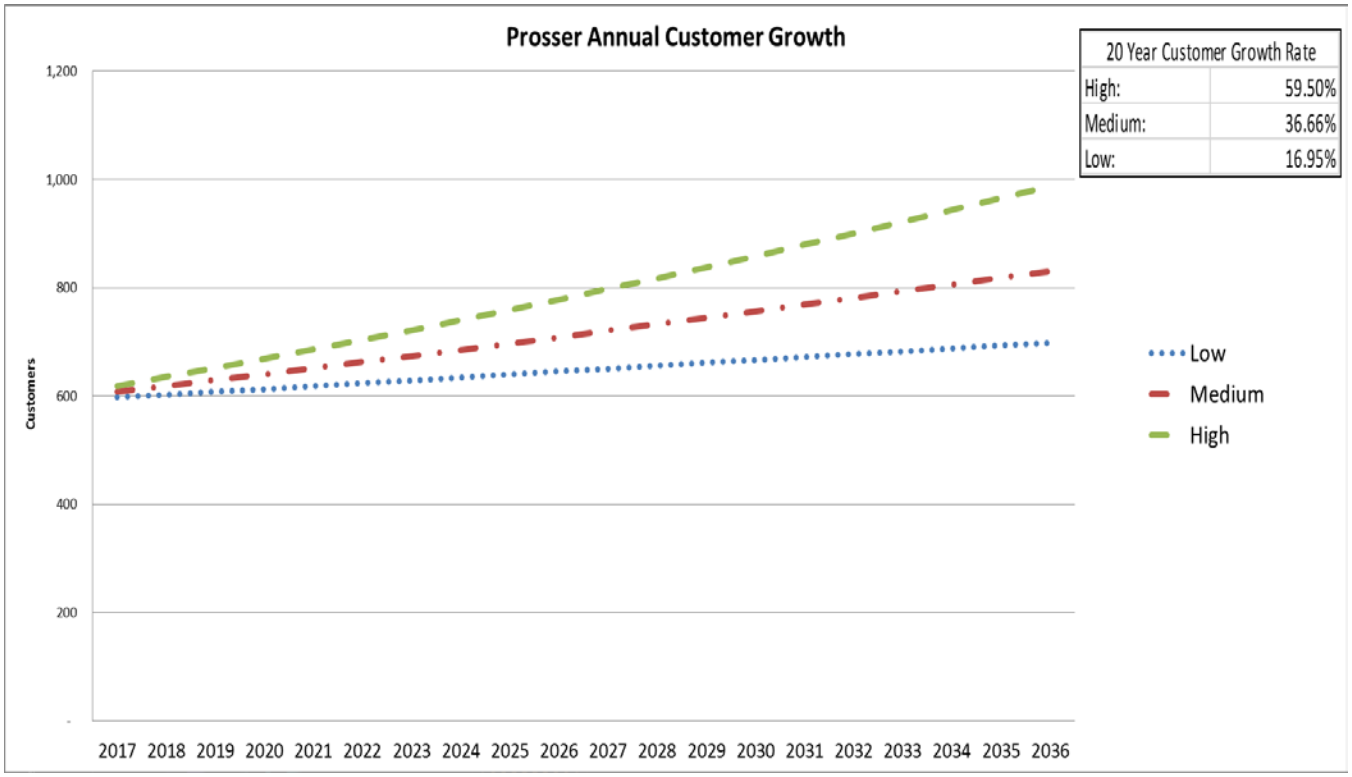
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	646,071	180,299	826,370	657,277	183,289	840,567	668,586	186,306	854,892	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	651,302	181,649	832,951	667,933	186,040	853,973	684,864	190,508	875,372	0.81%	0.75%	0.80%	1.62%	1.50%	1.59%	2.43%	2.26%	2.40%
2019	656,434	182,956	839,390	678,482	188,725	867,207	701,120	194,646	895,766	0.79%	0.72%	0.77%	1.58%	1.44%	1.55%	2.37%	2.17%	2.33%
2020	665,457	184,227	849,685	693,099	191,362	884,461	721,723	198,746	920,468	1.37%	0.70%	1.23%	2.15%	1.40%	1.99%	2.94%	2.11%	2.76%
2021	666,484	185,467	851,951	699,408	193,955	893,363	733,791	202,812	936,604	0.15%	0.67%	0.27%	0.91%	1.36%	1.01%	1.67%	2.05%	1.75%
2022	671,437	186,686	858,122	709,858	196,527	906,385	750,320	206,881	957,201	0.74%	0.66%	0.72%	1.49%	1.33%	1.46%	2.25%	2.01%	2.20%
2023	676,371	187,891	864,262	720,360	199,093	919,453	767,074	210,978	978,052	0.73%	0.65%	0.72%	1.48%	1.31%	1.44%	2.23%	1.98%	2.18%
2024	685,366	189,083	874,449	735,287	201,655	936,941	788,746	215,103	1,003,848	1.33%	0.63%	1.18%	2.07%	1.29%	1.90%	2.83%	1.95%	2.64%
2025	686,183	190,265	876,449	741,520	204,216	945,736	801,274	219,264	1,020,538	0.12%	0.63%	0.23%	0.85%	1.27%	0.94%	1.59%	1.93%	1.66%
2026	691,040	191,424	882,464	752,179	206,775	958,954	818,752	223,470	1,042,222	0.71%	0.61%	0.69%	1.44%	1.25%	1.40%	2.18%	1.92%	2.12%
2027	695,883	192,573	888,456	762,949	209,356	972,305	836,583	227,761	1,064,343	0.70%	0.60%	0.68%	1.43%	1.25%	1.39%	2.18%	1.92%	2.12%
2028	704,886	193,705	898,591	778,411	211,947	990,357	859,802	232,114	1,091,916	1.29%	0.59%	1.14%	2.03%	1.24%	1.86%	2.78%	1.91%	2.59%
2029	705,474	194,823	900,298	784,704	214,552	999,257	873,130	236,543	1,109,672	0.08%	0.58%	0.19%	0.81%	1.23%	0.90%	1.55%	1.91%	1.63%
2030	710,191	195,910	906,101	795,670	217,157	1,012,826	891,843	241,030	1,132,872	0.67%	0.56%	0.64%	1.40%	1.21%	1.36%	2.14%	1.90%	2.09%
2031	714,854	196,976	911,830	806,656	219,763	1,026,419	910,772	245,570	1,156,342	0.66%	0.54%	0.63%	1.38%	1.20%	1.34%	2.12%	1.88%	2.07%
2032	723,814	198,043	921,857	822,599	222,391	1,044,990	935,523	250,184	1,185,707	1.25%	0.54%	1.10%	1.98%	1.20%	1.81%	2.72%	1.88%	2.54%
2033	724,111	199,090	923,201	828,792	225,021	1,053,813	949,394	254,851	1,204,245	0.04%	0.53%	0.15%	0.75%	1.18%	0.84%	1.48%	1.87%	1.56%
2034	728,649	200,115	928,763	839,865	227,645	1,067,509	968,985	259,558	1,228,543	0.63%	0.51%	0.60%	1.34%	1.17%	1.30%	2.06%	1.85%	2.02%
2035	733,150	201,125	934,275	850,994	230,282	1,081,276	988,856	264,338	1,253,194	0.62%	0.50%	0.59%	1.33%	1.16%	1.29%	2.05%	1.84%	2.01%
2036	742,028	202,126	944,154	867,274	232,918	1,100,192	1,014,901	269,154	1,284,055	1.21%	0.50%	1.06%	1.91%	1.14%	1.75%	2.63%	1.82%	2.46%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	494	8,681	9,175	502	8,831	9,334	510	8,983	9,494	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	498	8,751	9,249	510	8,974	9,484	522	9,202	9,724	0.75%	0.81%	0.81%	1.50%	1.62%	1.61%	2.26%	2.43%	2.42%
2019	501	8,820	9,321	517	9,116	9,633	533	9,420	9,953	0.72%	0.79%	0.78%	1.44%	1.58%	1.57%	2.17%	2.37%	2.36%
2020	505	8,888	9,393	524	9,257	9,781	545	9,639	10,183	0.70%	0.77%	0.77%	1.40%	1.54%	1.54%	2.11%	2.32%	2.31%
2021	508	8,955	9,463	531	9,397	9,928	556	9,858	10,414	0.67%	0.75%	0.75%	1.36%	1.51%	1.50%	2.05%	2.28%	2.27%
2022	511	9,021	9,533	538	9,537	10,076	567	10,080	10,647	0.66%	0.74%	0.74%	1.33%	1.49%	1.48%	2.01%	2.25%	2.24%
2023	515	9,088	9,603	545	9,678	10,224	578	10,305	10,883	0.65%	0.73%	0.73%	1.31%	1.48%	1.47%	1.98%	2.23%	2.22%
2024	518	9,154	9,672	552	9,820	10,372	589	10,533	11,122	0.63%	0.73%	0.72%	1.29%	1.46%	1.45%	1.95%	2.21%	2.20%
2025	521	9,219	9,741	559	9,962	10,522	601	10,764	11,365	0.63%	0.72%	0.71%	1.27%	1.45%	1.44%	1.93%	2.19%	2.18%
2026	524	9,285	9,809	567	10,105	10,672	612	10,999	11,611	0.61%	0.71%	0.70%	1.25%	1.44%	1.43%	1.92%	2.18%	2.17%
2027	528	9,350	9,877	574	10,250	10,823	624	11,238	11,862	0.60%	0.70%	0.69%	1.25%	1.43%	1.42%	1.92%	2.18%	2.16%
2028	531	9,414	9,945	581	10,395	10,976	636	11,481	12,117	0.59%	0.69%	0.68%	1.24%	1.42%	1.41%	1.91%	2.16%	2.15%
2029	534	9,478	10,012	588	10,542	11,130	648	11,729	12,377	0.58%	0.68%	0.68%	1.23%	1.41%	1.40%	1.91%	2.15%	2.14%
2030	537	9,542	10,078	595	10,689	11,284	660	11,980	12,640	0.56%	0.67%	0.66%	1.21%	1.40%	1.39%	1.90%	2.14%	2.13%
2031	540	9,604	10,144	602	10,836	11,438	673	12,234	12,907	0.54%	0.66%	0.65%	1.20%	1.38%	1.37%	1.88%	2.12%	2.11%
2032	543	9,667	10,209	609	10,985	11,594	685	12,491	13,177	0.54%	0.65%	0.64%	1.20%	1.37%	1.36%	1.88%	2.11%	2.09%
2033	545	9,728	10,274	616	11,133	11,750	698	12,752	13,450	0.53%	0.64%	0.63%	1.18%	1.35%	1.34%	1.87%	2.09%	2.08%
2034	548	9,789	10,338	624	11,282	11,906	711	13,015	13,726	0.51%	0.63%	0.62%	1.17%	1.33%	1.33%	1.85%	2.06%	2.05%
2035	551	9,850	10,401	631	11,431	12,062	724	13,282	14,006	0.50%	0.62%	0.61%	1.16%	1.32%	1.32%	1.84%	2.05%	2.04%
2036	554	9,910	10,463	638	11,581	12,219	737	13,550	14,288	0.50%	0.61%	0.60%	1.14%	1.31%	1.30%	1.82%	2.02%	2.01%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	234,059	592,310	826,370	238,134	602,433	840,567	242,243	612,649	854,892	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	236,099	596,852	832,951	242,284	611,689	853,973	248,576	626,797	875,372	0.87%	0.77%	0.80%	1.74%	1.54%	1.59%	2.61%	2.31%	2.40%
2019	238,152	601,237	839,390	246,498	620,709	867,207	255,061	640,704	895,766	0.87%	0.73%	0.77%	1.74%	1.47%	1.55%	2.61%	2.22%	2.33%
2020	241,422	608,262	849,685	252,031	632,430	884,461	263,009	657,459	920,468	1.37%	1.17%	1.23%	2.24%	1.89%	1.99%	3.12%	2.62%	2.76%
2021	242,294	609,657	851,951	255,109	638,255	893,363	268,483	668,120	936,604	0.36%	0.23%	0.27%	1.22%	0.92%	1.01%	2.08%	1.62%	1.75%
2022	244,383	613,739	858,122	259,508	646,878	906,385	275,427	681,774	957,201	0.86%	0.67%	0.72%	1.72%	1.35%	1.46%	2.59%	2.04%	2.20%
2023	246,482	617,780	864,262	263,966	655,488	919,453	282,525	695,527	978,052	0.86%	0.66%	0.72%	1.72%	1.33%	1.44%	2.58%	2.02%	2.18%
2024	249,839	624,610	874,449	269,831	667,110	936,941	291,233	712,615	1,003,848	1.36%	1.11%	1.18%	2.22%	1.77%	1.90%	3.08%	2.46%	2.64%
2025	250,709	625,739	876,449	273,058	672,678	945,736	297,184	723,354	1,020,538	0.35%	0.18%	0.23%	1.20%	0.83%	0.94%	2.04%	1.51%	1.66%
2026	252,832	629,632	882,464	277,682	681,272	958,954	304,734	737,489	1,042,222	0.85%	0.62%	0.69%	1.69%	1.28%	1.40%	2.54%	1.95%	2.12%
2027	254,961	633,495	888,456	282,358	689,947	972,305	312,430	751,913	1,064,343	0.84%	0.61%	0.68%	1.68%	1.27%	1.39%	2.53%	1.96%	2.12%
2028	258,381	640,210	898,591	288,517	701,841	990,357	321,869	770,048	1,091,916	1.34%	1.06%	1.14%	2.18%	1.72%	1.86%	3.02%	2.41%	2.59%
2029	259,226	641,072	900,298	291,844	707,413	999,257	328,240	781,432	1,109,672	0.33%	0.13%	0.19%	1.15%	0.79%	0.90%	1.98%	1.48%	1.63%
2030	261,364	644,737	906,101	296,658	716,168	1,012,826	336,361	796,511	1,132,872	0.82%	0.57%	0.64%	1.65%	1.24%	1.36%	2.47%	1.93%	2.09%
2031	263,488	648,342	911,830	301,480	724,939	1,026,419	344,563	811,779	1,156,342	0.81%	0.56%	0.63%	1.63%	1.22%	1.34%	2.44%	1.92%	2.07%
2032	266,932	654,925	921,857	307,849	737,141	1,044,990	354,616	831,091	1,185,707	1.31%	1.02%	1.10%	2.11%	1.68%	1.81%	2.92%	2.38%	2.54%
2033	267,699	655,502	923,201	311,154	742,659	1,053,813	361,212	843,034	1,204,245	0.29%	0.09%	0.15%	1.07%	0.75%	0.84%	1.86%	1.44%	1.56%
2034	269,784	658,980	928,763	316,001	751,508	1,067,509	369,653	858,890	1,228,543	0.78%	0.53%	0.60%	1.56%	1.19%	1.30%	2.34%	1.88%	2.02%
2035	271,857	662,418	934,275	320,858	760,417	1,081,276	378,176	875,019	1,253,194	0.77%	0.52%	0.59%	1.54%	1.19%	1.29%	2.31%	1.88%	2.01%
2036	275,293	668,861	944,154	327,359	772,832	1,100,192	388,721	895,334	1,284,055	1.26%	0.97%	1.06%	2.03%	1.63%	1.75%	2.79%	2.32%	2.46%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	453	144	597	461	147	608	469	150	619	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	457	145	603	469	150	619	481	154	635	0.87%	0.92%	0.88%	1.74%	1.84%	1.77%	2.61%	2.76%	2.65%
2019	461	147	608	477	152	630	494	158	652	0.87%	0.89%	0.88%	1.74%	1.79%	1.75%	2.61%	2.69%	2.63%
2020	465	148	613	486	155	641	507	162	669	0.87%	0.88%	0.87%	1.73%	1.76%	1.74%	2.60%	2.63%	2.61%
2021	469	149	618	494	158	652	520	166	686	0.86%	0.86%	0.86%	1.73%	1.72%	1.73%	2.59%	2.58%	2.59%
2022	473	151	624	503	160	663	533	171	704	0.86%	0.85%	0.86%	1.72%	1.70%	1.72%	2.59%	2.55%	2.58%
2023	477	152	629	511	163	674	547	175	722	0.86%	0.84%	0.85%	1.72%	1.68%	1.71%	2.58%	2.53%	2.57%
2024	481	153	634	520	166	686	561	179	741	0.86%	0.83%	0.85%	1.71%	1.67%	1.70%	2.57%	2.51%	2.55%
2025	485	154	640	529	169	697	575	184	759	0.85%	0.83%	0.85%	1.70%	1.66%	1.69%	2.56%	2.49%	2.54%
2026	490	156	645	538	171	709	590	188	779	0.85%	0.82%	0.84%	1.69%	1.65%	1.68%	2.54%	2.47%	2.52%
2027	494	157	651	547	174	721	605	193	798	0.84%	0.82%	0.84%	1.68%	1.64%	1.67%	2.53%	2.47%	2.51%
2028	498	158	656	556	177	733	620	198	818	0.84%	0.81%	0.83%	1.67%	1.62%	1.66%	2.51%	2.44%	2.49%
2029	502	159	661	565	180	745	636	203	838	0.83%	0.80%	0.82%	1.66%	1.61%	1.65%	2.49%	2.43%	2.48%
2030	506	161	667	574	183	757	651	208	859	0.82%	0.79%	0.82%	1.65%	1.60%	1.64%	2.47%	2.41%	2.46%
2031	510	162	672	584	186	769	667	212	880	0.81%	0.78%	0.81%	1.63%	1.58%	1.61%	2.44%	2.38%	2.42%
2032	514	163	678	593	188	782	683	217	901	0.80%	0.78%	0.80%	1.60%	1.57%	1.59%	2.40%	2.37%	2.40%
2033	518	164	683	603	191	794	699	223	922	0.79%	0.77%	0.79%	1.58%	1.55%	1.57%	2.37%	2.34%	2.36%
2034	522	166	688	612	194	806	716	228	944	0.78%	0.76%	0.77%	1.56%	1.53%	1.55%	2.34%	2.31%	2.33%
2035	526	167	693	621	197	819	732	233	965	0.77%	0.75%	0.76%	1.54%	1.52%	1.53%	2.31%	2.30%	2.30%
2036	530	168	699	631	200	831	749	238	987	0.76%	0.74%	0.75%	1.52%	1.50%	1.51%	2.28%	2.26%	2.27%





20 Year Customer Growth Rate	
High:	59.50%
Medium:	36.66%
Low:	16.95%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

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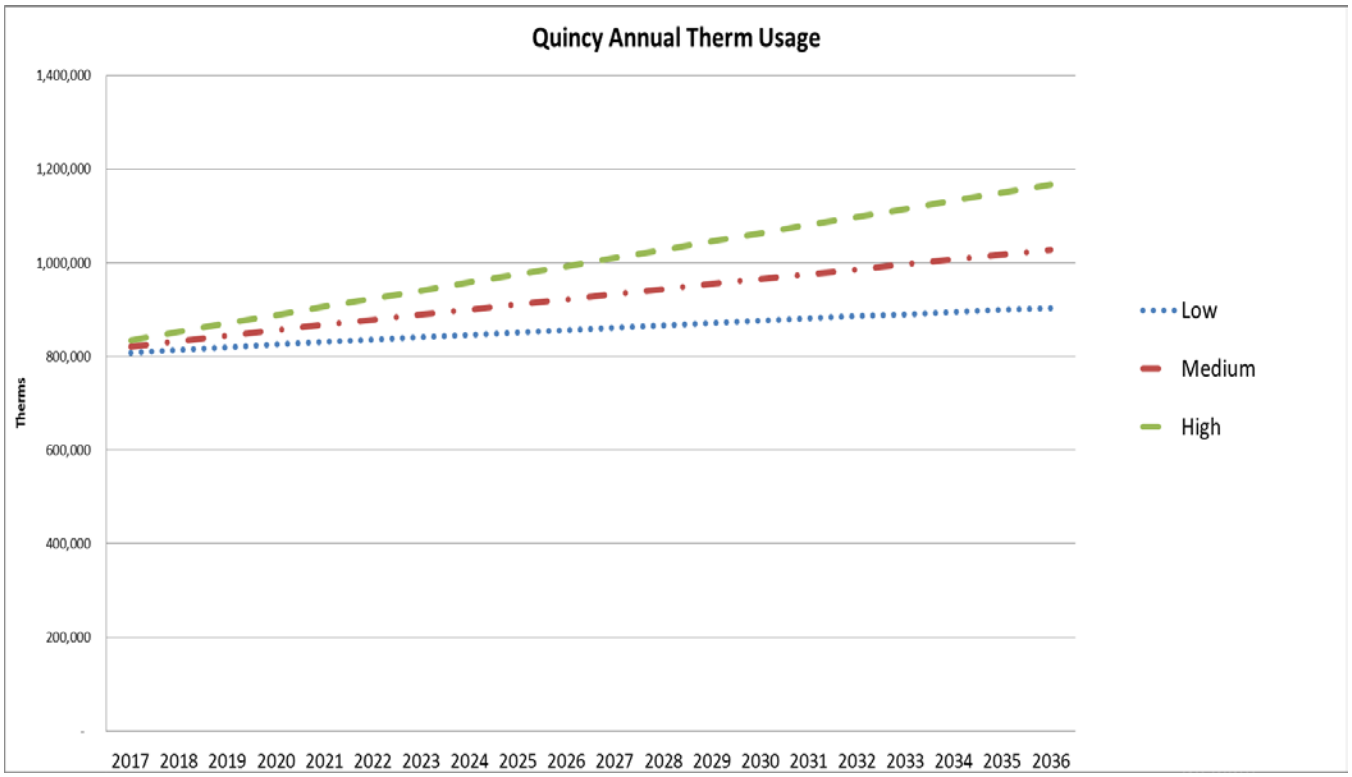
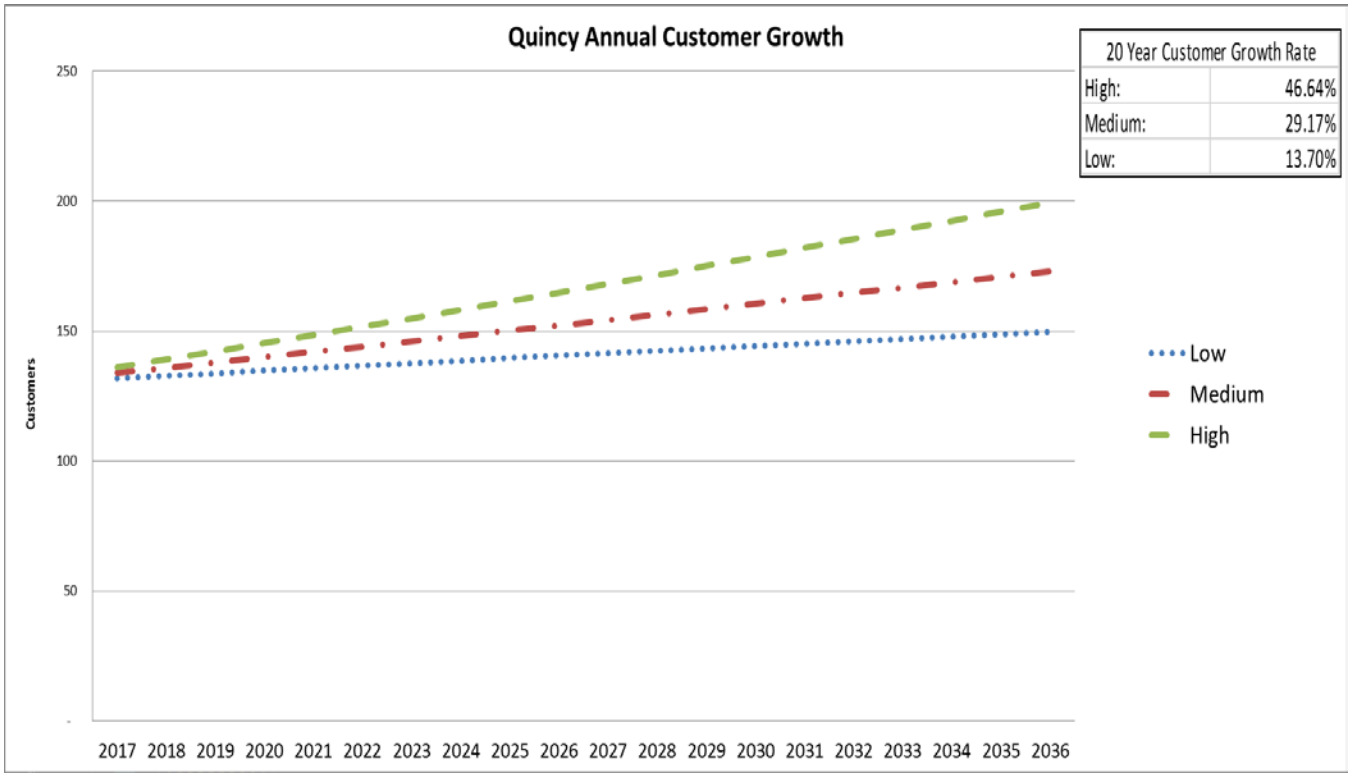
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	481,354	326,754	808,108	489,124	332,070	821,194	496,956	337,429	834,385	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	484,879	329,155	814,035	496,290	336,952	833,242	507,879	344,872	852,752	0.73%	0.73%	0.73%	1.47%	1.47%	1.47%	2.20%	2.21%	2.20%
2019	488,287	331,475	819,762	503,268	341,703	844,971	518,596	352,169	870,765	0.70%	0.70%	0.70%	1.41%	1.41%	1.41%	2.11%	2.12%	2.11%
2020	491,577	333,711	825,289	510,055	346,318	856,373	529,093	359,308	888,401	0.67%	0.67%	0.67%	1.35%	1.35%	1.35%	2.02%	2.03%	2.03%
2021	494,794	335,897	830,690	516,735	350,857	867,593	539,497	366,380	905,876	0.65%	0.65%	0.65%	1.31%	1.31%	1.31%	1.97%	1.97%	1.97%
2022	497,969	338,055	836,024	523,377	355,371	878,748	549,910	373,460	923,370	0.64%	0.64%	0.64%	1.29%	1.29%	1.29%	1.93%	1.93%	1.93%
2023	501,078	340,168	841,246	529,921	359,822	889,742	560,238	380,486	940,724	0.62%	0.63%	0.62%	1.25%	1.25%	1.25%	1.88%	1.88%	1.88%
2024	504,164	342,266	846,429	536,460	364,269	900,729	570,628	387,554	958,182	0.62%	0.62%	0.62%	1.23%	1.24%	1.23%	1.85%	1.86%	1.86%
2025	507,210	344,338	851,549	542,957	368,690	911,647	581,015	394,626	975,640	0.60%	0.61%	0.60%	1.21%	1.21%	1.21%	1.82%	1.82%	1.82%
2026	510,206	346,375	856,581	549,388	373,063	922,451	591,363	401,666	993,029	0.59%	0.59%	0.59%	1.18%	1.19%	1.19%	1.78%	1.78%	1.78%
2027	513,187	348,403	861,589	555,825	377,445	933,270	601,785	408,763	1,010,549	0.58%	0.59%	0.58%	1.17%	1.17%	1.17%	1.76%	1.77%	1.76%
2028	516,126	350,401	866,527	562,212	381,791	944,003	612,191	415,847	1,028,038	0.57%	0.57%	0.57%	1.15%	1.15%	1.15%	1.73%	1.73%	1.73%
2029	519,037	352,382	871,419	568,577	386,124	954,701	622,624	422,953	1,045,577	0.56%	0.57%	0.56%	1.13%	1.13%	1.13%	1.70%	1.71%	1.71%
2030	521,913	354,339	876,251	574,905	390,431	965,336	633,060	430,060	1,063,120	0.55%	0.56%	0.55%	1.11%	1.12%	1.11%	1.68%	1.68%	1.68%
2031	524,744	356,264	881,008	581,171	394,694	975,865	643,455	437,136	1,080,592	0.54%	0.54%	0.54%	1.09%	1.09%	1.09%	1.64%	1.65%	1.64%
2032	527,531	358,159	885,690	587,375	398,916	986,291	653,810	444,186	1,097,996	0.53%	0.53%	0.53%	1.07%	1.07%	1.07%	1.61%	1.61%	1.61%
2033	530,253	360,008	890,261	593,470	403,058	996,528	664,038	451,143	1,115,181	0.52%	0.52%	0.52%	1.04%	1.04%	1.04%	1.56%	1.57%	1.57%
2034	532,956	361,846	894,802	599,557	407,200	1,006,757	674,315	458,139	1,132,454	0.51%	0.51%	0.51%	1.03%	1.03%	1.03%	1.55%	1.55%	1.55%
2035	535,589	363,632	899,221	605,520	411,250	1,016,770	684,439	465,021	1,149,460	0.49%	0.49%	0.49%	0.99%	0.99%	0.99%	1.50%	1.50%	1.50%
2036	538,216	365,418	903,633	611,503	415,318	1,026,821	694,653	471,972	1,166,625	0.49%	0.49%	0.49%	0.99%	0.99%	0.99%	1.49%	1.49%	1.49%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	895	8,526	9,421	910	8,664	9,574	924	8,804	9,729	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	902	8,589	9,491	923	8,793	9,716	945	9,000	9,945	0.73%	0.74%	0.74%	1.47%	1.48%	1.48%	2.21%	2.22%	2.22%
2019	908	8,650	9,558	936	8,918	9,854	965	9,192	10,157	0.70%	0.71%	0.71%	1.41%	1.42%	1.42%	2.12%	2.14%	2.13%
2020	914	8,709	9,624	949	9,040	9,989	984	9,381	10,365	0.67%	0.68%	0.68%	1.35%	1.37%	1.37%	2.03%	2.05%	2.05%
2021	920	8,767	9,688	961	9,160	10,122	1,004	9,568	10,572	0.65%	0.66%	0.66%	1.31%	1.33%	1.33%	1.97%	2.00%	1.99%
2022	926	8,824	9,751	974	9,280	10,253	1,023	9,756	10,779	0.64%	0.65%	0.65%	1.29%	1.31%	1.30%	1.93%	1.96%	1.96%
2023	932	8,880	9,812	986	9,398	10,384	1,042	9,942	10,984	0.63%	0.63%	0.63%	1.25%	1.27%	1.27%	1.88%	1.91%	1.90%
2024	938	8,936	9,874	998	9,516	10,514	1,062	10,129	11,191	0.62%	0.63%	0.63%	1.24%	1.25%	1.25%	1.86%	1.88%	1.88%
2025	943	8,991	9,934	1,010	9,633	10,643	1,081	10,316	11,397	0.61%	0.61%	0.61%	1.21%	1.23%	1.23%	1.82%	1.85%	1.84%
2026	949	9,045	9,994	1,022	9,749	10,771	1,100	10,503	11,603	0.59%	0.60%	0.60%	1.19%	1.20%	1.20%	1.78%	1.81%	1.81%
2027	955	9,099	10,053	1,034	9,865	10,899	1,120	10,691	11,811	0.59%	0.59%	0.59%	1.17%	1.19%	1.19%	1.77%	1.79%	1.79%
2028	960	9,152	10,112	1,046	9,980	11,026	1,139	10,879	12,018	0.57%	0.58%	0.58%	1.15%	1.17%	1.17%	1.73%	1.76%	1.76%
2029	965	9,204	10,170	1,058	10,095	11,153	1,159	11,067	12,226	0.57%	0.57%	0.57%	1.13%	1.15%	1.15%	1.71%	1.73%	1.73%
2030	971	9,256	10,227	1,070	10,209	11,279	1,178	11,256	12,434	0.56%	0.56%	0.56%	1.12%	1.13%	1.13%	1.68%	1.70%	1.70%
2031	976	9,307	10,283	1,081	10,322	11,404	1,198	11,444	12,641	0.54%	0.55%	0.55%	1.09%	1.11%	1.11%	1.65%	1.67%	1.67%
2032	981	9,358	10,339	1,093	10,435	11,527	1,217	11,631	12,848	0.53%	0.54%	0.54%	1.07%	1.09%	1.09%	1.61%	1.64%	1.64%
2033	986	9,407	10,393	1,104	10,545	11,649	1,236	11,816	13,052	0.52%	0.53%	0.52%	1.04%	1.06%	1.05%	1.57%	1.59%	1.59%
2034	991	9,456	10,447	1,116	10,655	11,771	1,255	12,002	13,258	0.51%	0.52%	0.52%	1.03%	1.05%	1.04%	1.55%	1.58%	1.57%
2035	996	9,503	10,500	1,127	10,763	11,890	1,274	12,186	13,460	0.49%	0.50%	0.50%	0.99%	1.01%	1.01%	1.50%	1.53%	1.53%
2036	1,001	9,551	10,552	1,138	10,872	12,009	1,293	12,371	13,665	0.49%	0.50%	0.50%	0.99%	1.01%	1.01%	1.49%	1.52%	1.52%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	39,907	768,201	808,108	40,487	780,707	821,194	41,071	793,315	834,385	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	40,197	773,837	814,035	41,077	792,165	833,242	41,969	810,783	852,752	0.73%	0.73%	0.73%	1.46%	1.47%	1.47%	2.19%	2.20%	2.20%
2019	40,490	779,272	819,762	41,674	803,297	844,971	42,885	827,881	870,765	0.73%	0.70%	0.70%	1.45%	1.41%	1.41%	2.18%	2.11%	2.11%
2020	40,784	784,505	825,289	42,279	814,093	856,373	43,819	844,583	888,401	0.73%	0.67%	0.67%	1.45%	1.34%	1.35%	2.18%	2.02%	2.03%
2021	41,079	789,611	830,690	42,892	824,701	867,593	44,770	861,106	905,876	0.72%	0.65%	0.65%	1.45%	1.30%	1.31%	2.17%	1.96%	1.97%
2022	41,376	794,648	836,024	43,512	835,236	878,748	45,741	877,628	923,370	0.72%	0.64%	0.64%	1.45%	1.28%	1.29%	2.17%	1.92%	1.93%
2023	41,674	799,571	841,246	44,139	845,603	889,742	46,730	893,994	940,724	0.72%	0.62%	0.62%	1.44%	1.24%	1.25%	2.16%	1.86%	1.88%
2024	41,974	804,455	846,429	44,774	855,955	900,729	47,738	910,444	958,182	0.72%	0.61%	0.62%	1.44%	1.22%	1.23%	2.16%	1.84%	1.86%
2025	42,274	809,274	851,549	45,414	866,233	911,647	48,763	926,877	975,640	0.72%	0.60%	0.60%	1.43%	1.20%	1.21%	2.15%	1.80%	1.82%
2026	42,575	814,006	856,581	46,060	876,391	922,451	49,803	943,226	993,029	0.71%	0.58%	0.59%	1.42%	1.17%	1.19%	2.13%	1.76%	1.78%
2027	42,876	818,714	861,589	46,712	886,558	933,270	50,860	959,689	1,010,549	0.71%	0.58%	0.58%	1.41%	1.16%	1.17%	2.12%	1.75%	1.76%
2028	43,177	823,350	866,527	47,368	896,635	944,003	51,932	976,106	1,028,038	0.70%	0.57%	0.57%	1.41%	1.14%	1.15%	2.11%	1.71%	1.73%
2029	43,479	827,940	871,419	48,029	906,671	954,701	53,019	992,557	1,045,577	0.70%	0.56%	0.56%	1.40%	1.12%	1.13%	2.09%	1.69%	1.71%
2030	43,780	832,472	876,251	48,695	916,641	965,336	54,121	1,008,999	1,063,120	0.69%	0.55%	0.55%	1.39%	1.10%	1.11%	2.08%	1.66%	1.68%
2031	44,079	836,930	881,008	49,360	926,506	975,865	55,229	1,025,362	1,080,592	0.68%	0.54%	0.54%	1.37%	1.08%	1.09%	2.05%	1.62%	1.64%
2032	44,375	841,315	885,690	50,023	936,269	986,291	56,342	1,041,654	1,097,996	0.67%	0.52%	0.53%	1.34%	1.05%	1.07%	2.01%	1.59%	1.61%
2033	44,668	845,593	890,261	50,685	945,843	996,528	57,461	1,057,720	1,115,181	0.66%	0.51%	0.52%	1.32%	1.02%	1.04%	1.99%	1.54%	1.57%
2034	44,959	849,843	894,802	51,345	955,412	1,006,757	58,584	1,073,870	1,132,454	0.65%	0.50%	0.51%	1.30%	1.01%	1.03%	1.95%	1.53%	1.55%
2035	45,248	853,973	899,221	52,005	964,765	1,016,770	59,713	1,089,747	1,149,460	0.64%	0.49%	0.49%	1.28%	0.98%	0.99%	1.93%	1.48%	1.50%
2036	45,534	858,099	903,633	52,663	974,159	1,026,821	60,846	1,105,779	1,166,625	0.63%	0.48%	0.49%	1.27%	0.97%	0.99%	1.90%	1.47%	1.49%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	61	71	132	61	72	134	62	74	136	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	61	72	133	62	74	136	64	75	139	0.73%	0.80%	0.77%	1.46%	1.60%	1.53%	2.19%	2.40%	2.30%
2019	61	72	134	63	75	138	65	77	142	0.73%	0.77%	0.75%	1.45%	1.53%	1.50%	2.18%	2.30%	2.25%
2020	62	73	135	64	76	140	66	79	145	0.73%	0.74%	0.73%	1.45%	1.48%	1.47%	2.18%	2.22%	2.20%
2021	62	73	136	65	77	142	68	81	149	0.72%	0.72%	0.72%	1.45%	1.44%	1.45%	2.17%	2.17%	2.17%
2022	63	74	137	66	78	144	69	82	152	0.72%	0.71%	0.72%	1.45%	1.43%	1.44%	2.17%	2.14%	2.16%
2023	63	74	138	67	79	146	71	84	155	0.72%	0.70%	0.71%	1.44%	1.39%	1.41%	2.16%	2.09%	2.12%
2024	64	75	139	68	80	148	72	86	158	0.72%	0.69%	0.70%	1.44%	1.38%	1.41%	2.16%	2.08%	2.11%
2025	64	75	140	69	81	150	74	88	162	0.72%	0.67%	0.69%	1.43%	1.35%	1.39%	2.15%	2.03%	2.08%
2026	65	76	141	70	82	152	76	89	165	0.71%	0.67%	0.69%	1.42%	1.33%	1.37%	2.13%	2.00%	2.06%
2027	65	76	142	71	83	154	77	91	168	0.71%	0.66%	0.68%	1.41%	1.32%	1.36%	2.12%	1.97%	2.04%
2028	66	77	142	72	85	156	79	93	172	0.70%	0.65%	0.67%	1.41%	1.30%	1.35%	2.11%	1.95%	2.02%
2029	66	77	143	73	86	158	80	95	175	0.70%	0.64%	0.67%	1.40%	1.28%	1.33%	2.09%	1.92%	2.00%
2030	66	78	144	74	87	161	82	96	179	0.69%	0.63%	0.66%	1.39%	1.26%	1.32%	2.08%	1.90%	1.98%
2031	67	78	145	75	88	163	84	98	182	0.68%	0.62%	0.65%	1.37%	1.23%	1.29%	2.05%	1.85%	1.94%
2032	67	79	146	76	89	165	85	100	185	0.67%	0.61%	0.64%	1.34%	1.22%	1.27%	2.01%	1.83%	1.91%
2033	68	79	147	77	90	167	87	102	189	0.66%	0.59%	0.62%	1.32%	1.17%	1.24%	1.99%	1.76%	1.87%
2034	68	80	148	78	91	169	89	104	192	0.65%	0.59%	0.62%	1.30%	1.17%	1.23%	1.95%	1.76%	1.85%
2035	69	80	149	79	92	171	91	105	196	0.64%	0.57%	0.60%	1.28%	1.14%	1.20%	1.93%	1.71%	1.81%
2036	69	81	150	80	93	173	92	107	199	0.63%	0.57%	0.60%	1.27%	1.13%	1.19%	1.90%	1.70%	1.79%





20 Year Customer Growth Rate	
High:	46.64%
Medium:	29.17%
Low:	13.70%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Sedro-Woolley Loop

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	20,875,720	6,130,808	27,006,529	21,180,485	6,222,288	27,402,773	21,487,598	6,314,490	27,802,088
2018	21,021,635	6,173,821	27,195,456	21,476,805	6,309,677	27,786,482	21,938,867	6,447,638	28,386,505
2019	21,165,779	6,215,939	27,381,718	21,771,637	6,395,880	28,167,517	22,391,087	6,579,939	28,971,026
2020	21,433,734	6,257,344	27,691,078	22,195,388	6,481,231	28,676,620	22,979,604	6,711,872	29,691,476
2021	21,450,868	6,298,388	27,749,256	22,360,895	6,566,439	28,927,333	23,304,381	6,844,509	30,148,890
2022	21,592,851	6,339,143	27,931,994	22,657,406	6,651,639	29,309,046	23,768,686	6,978,064	30,746,750
2023	21,734,266	6,379,545	28,113,811	22,954,741	6,736,689	29,691,430	24,237,439	7,112,306	31,349,744
2024	22,004,377	6,419,868	28,424,245	23,391,146	6,822,165	30,213,311	24,858,486	7,248,161	32,106,647
2025	22,016,958	6,459,885	28,476,843	23,555,181	6,907,575	30,462,756	25,193,668	7,384,839	32,578,506
2026	22,158,105	6,499,864	28,657,969	23,858,005	6,993,490	30,851,495	25,680,782	7,523,269	33,204,051
2027	22,298,676	6,539,556	28,838,233	24,161,606	7,079,373	31,240,979	26,172,390	7,662,594	33,834,985
2028	22,570,656	6,579,100	29,149,756	24,610,092	7,165,512	31,775,604	26,825,822	7,803,275	34,629,097
2029	22,578,995	6,618,556	29,197,551	24,773,036	7,252,043	32,025,079	27,172,279	7,945,553	35,117,832
2030	22,718,599	6,657,794	29,376,393	25,080,522	7,338,669	32,419,191	27,680,032	8,088,938	35,768,970
2031	22,856,998	6,696,718	29,553,717	25,387,344	7,425,174	32,812,518	28,189,990	8,233,071	36,423,061
2032	23,129,161	6,735,264	29,864,425	25,844,206	7,511,413	33,355,619	28,870,405	8,377,727	37,248,132
2033	23,130,182	6,773,499	29,903,681	25,998,843	7,597,517	33,596,359	29,216,198	8,523,102	37,739,300
2034	23,264,915	6,811,386	30,076,300	26,303,293	7,683,382	33,986,675	29,731,965	8,669,007	38,400,972
2035	23,398,442	6,848,905	30,247,347	26,606,911	7,768,972	34,375,883	30,249,553	8,815,395	39,064,948
2036	23,669,048	6,886,147	30,555,194	27,067,877	7,854,459	34,922,336	30,949,841	8,962,522	39,912,363

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.70%	0.70%	0.70%	1.40%	1.40%	1.40%	2.10%	2.11%	2.10%
2019	0.69%	0.68%	0.68%	1.37%	1.37%	1.37%	2.06%	2.05%	2.06%
2020	1.27%	0.67%	1.13%	1.95%	1.33%	1.81%	2.63%	2.01%	2.49%
2021	0.08%	0.66%	0.21%	0.75%	1.31%	0.87%	1.41%	1.98%	1.54%
2022	0.66%	0.65%	0.66%	1.33%	1.30%	1.32%	1.99%	1.95%	1.98%
2023	0.65%	0.64%	0.65%	1.31%	1.28%	1.30%	1.97%	1.92%	1.96%
2024	1.24%	0.63%	1.10%	1.90%	1.27%	1.76%	2.56%	1.91%	2.41%
2025	0.06%	0.62%	0.19%	0.70%	1.25%	0.83%	1.35%	1.89%	1.47%
2026	0.64%	0.62%	0.64%	1.29%	1.24%	1.28%	1.93%	1.87%	1.92%
2027	0.63%	0.61%	0.63%	1.27%	1.23%	1.26%	1.91%	1.85%	1.90%
2028	1.22%	0.60%	1.08%	1.86%	1.22%	1.71%	2.50%	1.84%	2.35%
2029	0.04%	0.60%	0.16%	0.66%	1.21%	0.79%	1.29%	1.82%	1.41%
2030	0.62%	0.59%	0.61%	1.24%	1.19%	1.23%	1.87%	1.80%	1.85%
2031	0.61%	0.58%	0.60%	1.22%	1.18%	1.21%	1.84%	1.78%	1.83%
2032	1.19%	0.58%	1.05%	1.80%	1.16%	1.66%	2.41%	1.76%	2.27%
2033	0.00%	0.57%	0.13%	0.60%	1.15%	0.72%	1.20%	1.74%	1.32%
2034	0.58%	0.56%	0.58%	1.17%	1.13%	1.16%	1.77%	1.71%	1.75%
2035	0.57%	0.55%	0.57%	1.15%	1.11%	1.15%	1.74%	1.69%	1.73%
2036	1.16%	0.54%	1.02%	1.73%	1.10%	1.59%	2.32%	1.67%	2.17%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	16,797	272,143	288,939	17,047	276,116	293,163	17,300	280,120	297,419
2018	16,915	274,045	290,960	17,287	279,979	297,266	17,665	286,003	303,668
2019	17,030	275,924	292,954	17,523	283,823	301,346	18,027	291,899	309,927
2020	17,143	277,786	294,930	17,757	287,659	305,415	18,389	297,823	316,212
2021	17,256	279,642	296,898	17,990	291,507	309,497	18,752	303,808	322,560
2022	17,368	281,493	298,861	18,224	295,373	313,597	19,118	309,862	328,980
2023	17,478	283,337	300,815	18,457	299,250	317,707	19,486	315,974	335,460
2024	17,589	285,184	302,773	18,691	303,160	321,851	19,858	322,180	342,038
2025	17,698	287,024	304,722	18,925	307,080	326,005	20,232	328,444	348,676
2026	17,808	288,864	306,672	19,160	311,029	330,189	20,612	334,796	355,408
2027	17,917	290,697	308,614	19,396	314,988	334,384	20,993	341,207	362,200
2028	18,025	292,526	310,551	19,632	318,963	338,595	21,379	347,686	369,065
2029	18,133	294,353	312,486	19,869	322,962	342,830	21,769	354,246	376,015
2030	18,241	296,173	314,414	20,106	326,971	347,077	22,161	360,867	383,029
2031	18,347	297,978	316,325	20,343	330,973	351,316	22,556	367,518	390,074
2032	18,453	299,767	318,220	20,579	334,963	355,543	22,953	374,194	397,146
2033	18,558	301,541	320,098	20,815	338,947	359,762	23,351	380,900	404,251
2034	18,661	303,298	321,959	21,050	342,917	363,968	23,751	387,626	411,377
2035	18,764	305,039	323,803	21,285	346,877	368,162	24,152	394,376	418,528
2036	18,866	306,767	325,633	21,519	350,828	372,347	24,555	401,153	425,708

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.70%	0.70%	0.70%	1.40%	1.40%	1.40%	2.11%	2.10%	2.10%
2019	0.68%	0.69%	0.69%	1.37%	1.37%	1.37%	2.05%	2.06%	2.06%
2020	0.67%	0.67%	0.67%	1.33%	1.35%	1.35%	2.01%	2.03%	2.03%
2021	0.66%	0.67%	0.67%	1.31%	1.34%	1.34%	1.98%	2.01%	2.01%
2022	0.65%	0.66%	0.66%	1.30%	1.33%	1.32%	1.95%	1.99%	1.99%
2023	0.64%	0.66%	0.65%	1.28%	1.31%	1.31%	1.92%	1.97%	1.97%
2024	0.63%	0.65%	0.65%	1.27%	1.31%	1.30%	1.91%	1.96%	1.96%
2025	0.62%	0.64%	0.64%	1.25%	1.29%	1.29%	1.89%	1.94%	1.94%
2026	0.62%	0.64%	0.64%	1.24%	1.29%	1.28%	1.87%	1.93%	1.93%
2027	0.61%	0.63%	0.63%	1.23%	1.27%	1.27%	1.85%	1.91%	1.91%
2028	0.60%	0.63%	0.63%	1.22%	1.26%	1.26%	1.84%	1.90%	1.90%
2029	0.60%	0.62%	0.62%	1.21%	1.25%	1.25%	1.82%	1.89%	1.88%
2030	0.59%	0.62%	0.62%	1.19%	1.24%	1.24%	1.80%	1.87%	1.87%
2031	0.58%	0.61%	0.61%	1.18%	1.22%	1.22%	1.78%	1.84%	1.84%
2032	0.58%	0.60%	0.60%	1.16%	1.21%	1.20%	1.76%	1.82%	1.81%
2033	0.57%	0.59%	0.59%	1.15%	1.19%	1.19%	1.74%	1.79%	1.79%
2034	0.56%	0.58%	0.58%	1.13%	1.17%	1.17%	1.71%	1.77%	1.76%
2035	0.55%	0.57%	0.57%	1.11%	1.15%	1.15%	1.69%	1.74%	1.74%
2036	0.54%	0.57%	0.56%	1.10%	1.14%	1.14%	1.67%	1.72%	1.72%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	16,583,395	10,423,133	27,006,529	16,785,714	10,617,059	27,402,773	16,989,260	10,812,828	27,802,088
2018	16,684,827	10,510,629	27,195,456	16,991,053	10,795,429	27,786,482	17,301,003	11,085,502	28,386,505
2019	16,786,703	10,595,015	27,381,718	17,198,545	10,968,972	28,167,517	17,617,919	11,353,108	28,971,026
2020	16,967,283	10,723,795	27,691,078	17,488,930	11,187,690	28,676,620	18,023,330	11,668,146	29,691,476
2021	16,991,887	10,757,370	27,749,256	17,620,257	11,307,077	28,927,333	18,267,873	11,881,017	30,148,890
2022	17,095,112	10,836,882	27,931,994	17,834,342	11,474,704	29,309,046	18,600,804	12,145,946	30,746,750
2023	17,198,621	10,915,190	28,113,811	18,050,311	11,641,118	29,691,430	18,938,680	12,411,064	31,349,744
2024	17,382,652	11,041,593	28,424,245	18,353,022	11,860,290	30,213,311	19,371,247	12,735,400	32,106,647
2025	17,406,531	11,070,312	28,476,843	18,488,036	11,974,721	30,462,756	19,629,645	12,948,862	32,578,506
2026	17,510,543	11,147,426	28,657,969	18,708,983	12,142,512	30,851,495	19,981,531	13,222,520	33,204,051
2027	17,614,507	11,223,726	28,838,233	18,931,142	12,309,836	31,240,979	20,337,436	13,497,549	33,834,985
2028	17,800,340	11,349,416	29,149,756	19,242,933	12,532,671	31,775,604	20,792,780	13,836,317	34,629,097
2029	17,821,985	11,375,566	29,197,551	19,378,421	12,646,658	32,025,079	21,060,296	14,057,536	35,117,832
2030	17,925,504	11,450,889	29,376,393	19,603,540	12,815,651	32,419,191	21,427,282	14,341,688	35,768,970
2031	18,027,752	11,525,965	29,553,717	19,827,179	12,985,339	32,812,518	21,793,949	14,629,112	36,423,061
2032	18,212,692	11,651,733	29,864,425	20,142,172	13,213,447	33,355,619	22,262,852	14,985,281	37,248,132
2033	18,228,581	11,675,101	29,903,681	20,270,151	13,326,208	33,596,359	22,526,336	15,212,964	37,739,300
2034	18,327,202	11,749,099	30,076,300	20,489,484	13,497,190	33,986,675	22,891,955	15,509,017	38,400,972
2035	18,424,633	11,822,714	30,247,347	20,707,337	13,668,546	34,375,883	23,257,051	15,807,897	39,064,948
2036	18,606,771	11,948,423	30,555,194	21,020,864	13,901,473	34,922,336	23,731,404	16,180,959	39,912,363

Annual Change

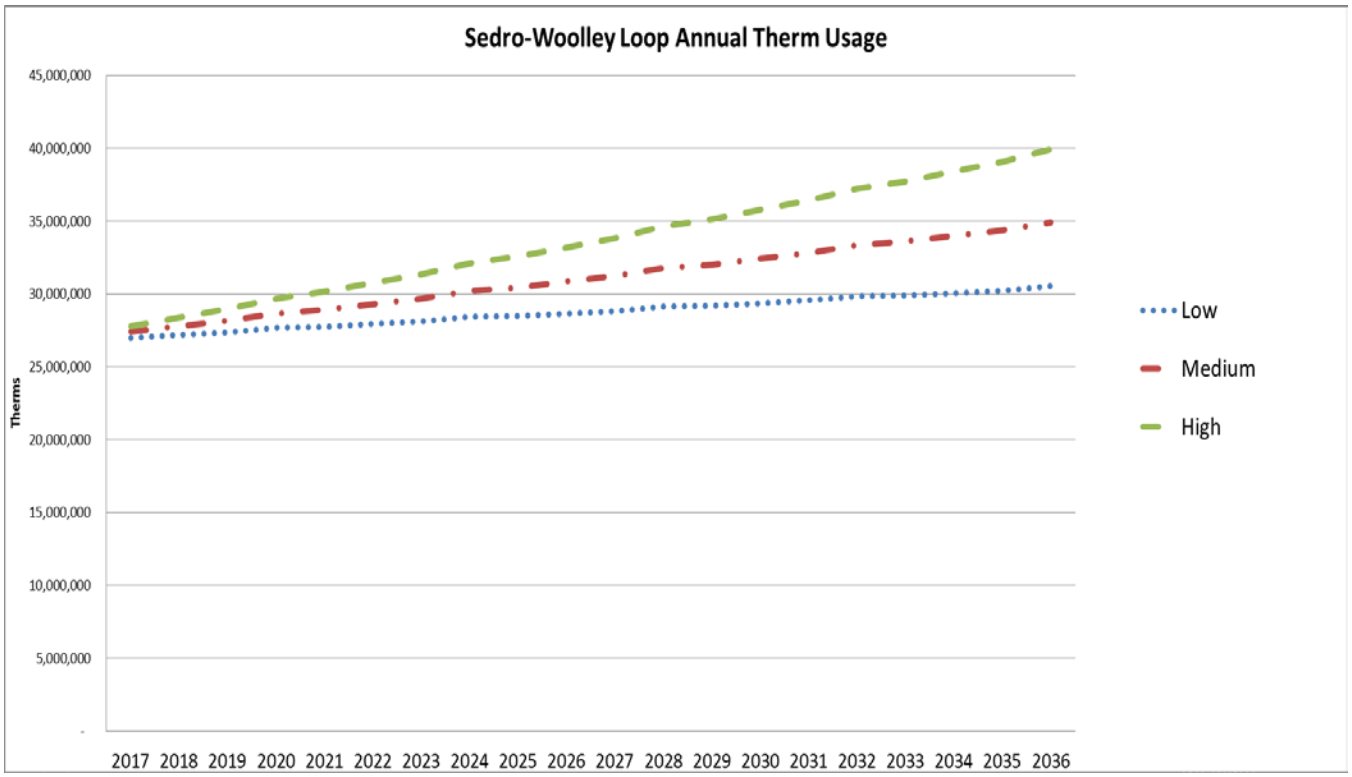
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.61%	0.84%	0.70%	1.22%	1.68%	1.40%	1.83%	2.52%	2.10%
2019	0.61%	0.80%	0.68%	1.22%	1.61%	1.37%	1.83%	2.41%	2.06%
2020	1.08%	1.22%	1.13%	1.69%	1.99%	1.81%	2.30%	2.77%	2.49%
2021	0.15%	0.31%	0.21%	0.75%	1.07%	0.87%	1.36%	1.82%	1.54%
2022	0.61%	0.74%	0.66%	1.21%	1.48%	1.32%	1.82%	2.23%	1.98%
2023	0.61%	0.72%	0.65%	1.21%	1.45%	1.30%	1.82%	2.18%	1.96%
2024	1.07%	1.16%	1.10%	1.68%	1.88%	1.76%	2.28%	2.61%	2.41%
2025	0.14%	0.26%	0.19%	0.74%	0.96%	0.83%	1.33%	1.68%	1.47%
2026	0.60%	0.70%	0.64%	1.20%	1.40%	1.28%	1.79%	2.11%	1.92%
2027	0.59%	0.68%	0.63%	1.19%	1.38%	1.26%	1.78%	2.08%	1.90%
2028	1.06%	1.12%	1.08%	1.65%	1.81%	1.71%	2.24%	2.51%	2.35%
2029	0.12%	0.23%	0.16%	0.70%	0.91%	0.79%	1.29%	1.60%	1.41%
2030	0.58%	0.66%	0.61%	1.16%	1.34%	1.23%	1.74%	2.02%	1.85%
2031	0.57%	0.66%	0.60%	1.14%	1.32%	1.21%	1.71%	2.00%	1.83%
2032	1.03%	1.09%	1.05%	1.59%	1.76%	1.66%	2.15%	2.43%	2.27%
2033	0.09%	0.20%	0.13%	0.64%	0.85%	0.72%	1.18%	1.52%	1.32%
2034	0.54%	0.63%	0.58%	1.08%	1.28%	1.16%	1.62%	1.95%	1.75%
2035	0.53%	0.63%	0.57%	1.06%	1.27%	1.15%	1.59%	1.93%	1.73%
2036	0.99%	1.06%	1.02%	1.51%	1.70%	1.59%	2.04%	2.36%	2.17%

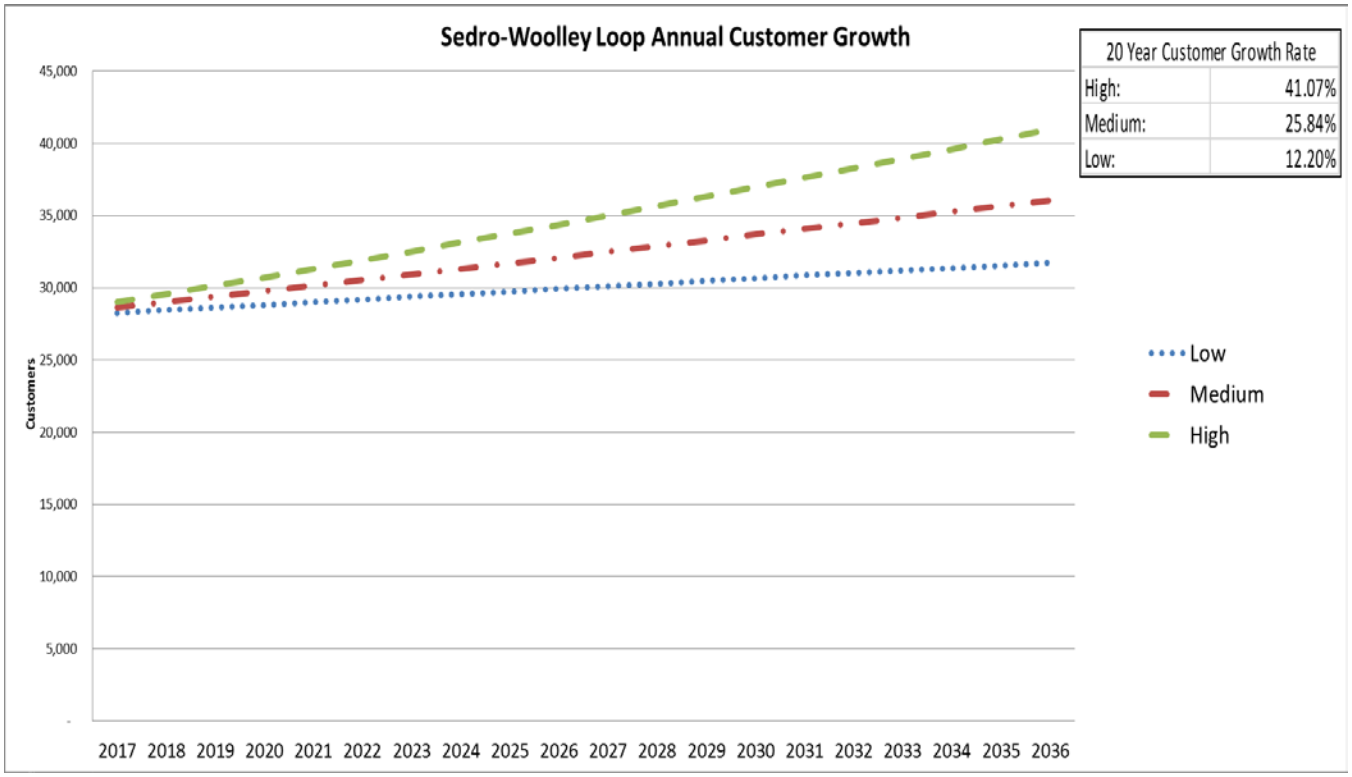
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	24,932	3,343	28,275	25,236	3,411	28,647	25,542	3,479	29,020
2018	25,084	3,374	28,458	25,545	3,473	29,018	26,011	3,574	29,585
2019	25,237	3,404	28,641	25,857	3,534	29,391	26,487	3,669	30,156
2020	25,391	3,433	28,824	26,172	3,595	29,767	26,972	3,763	30,734
2021	25,546	3,462	29,007	26,491	3,655	30,146	27,464	3,857	31,322
2022	25,701	3,490	29,191	26,812	3,715	30,528	27,965	3,953	31,918
2023	25,857	3,518	29,375	27,137	3,776	30,913	28,473	4,049	32,522
2024	26,013	3,547	29,560	27,465	3,837	31,302	28,989	4,147	33,136
2025	26,169	3,575	29,744	27,795	3,897	31,693	29,512	4,246	33,758
2026	26,326	3,603	29,929	28,127	3,959	32,086	30,041	4,347	34,387
2027	26,482	3,631	30,113	28,461	4,021	32,482	30,576	4,449	35,024
2028	26,638	3,659	30,297	28,797	4,083	32,879	31,116	4,552	35,668
2029	26,794	3,687	30,481	29,134	4,145	33,279	31,662	4,657	36,319
2030	26,949	3,715	30,665	29,472	4,208	33,680	32,214	4,763	36,977
2031	27,103	3,743	30,846	29,808	4,271	34,080	32,765	4,870	37,635
2032	27,255	3,771	31,026	30,142	4,335	34,477	33,316	4,979	38,295
2033	27,405	3,798	31,203	30,474	4,399	34,873	33,866	5,089	38,955
2034	27,553	3,826	31,379	30,804	4,463	35,267	34,416	5,200	39,616
2035	27,700	3,853	31,553	31,132	4,527	35,659	34,965	5,313	40,278
2036	27,845	3,881	31,726	31,457	4,591	36,049	35,514	5,427	40,940

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.61%	0.92%	0.65%	1.22%	1.83%	1.30%	1.83%	2.75%	1.94%
2019	0.61%	0.88%	0.64%	1.22%	1.76%	1.29%	1.83%	2.65%	1.93%
2020	0.61%	0.85%	0.64%	1.22%	1.71%	1.28%	1.83%	2.56%	1.92%
2021	0.61%	0.84%	0.64%	1.22%	1.68%	1.27%	1.83%	2.52%	1.91%
2022	0.61%	0.83%	0.63%	1.21%	1.65%	1.27%	1.82%	2.48%	1.90%
2023	0.61%	0.81%	0.63%	1.21%	1.62%	1.26%	1.82%	2.43%	1.89%
2024	0.60%	0.81%	0.63%	1.21%	1.62%	1.26%	1.81%	2.43%	1.89%
2025	0.60%	0.79%	0.62%	1.20%	1.59%	1.25%	1.80%	2.38%	1.88%
2026	0.60%	0.79%	0.62%	1.20%	1.58%	1.24%	1.79%	2.37%	1.87%
2027	0.59%	0.78%	0.62%	1.19%	1.56%	1.23%	1.78%	2.34%	1.85%
2028	0.59%	0.77%	0.61%	1.18%	1.54%	1.22%	1.77%	2.32%	1.84%
2029	0.59%	0.77%	0.61%	1.17%	1.54%	1.22%	1.76%	2.31%	1.83%
2030	0.58%	0.76%	0.60%	1.16%	1.51%	1.21%	1.74%	2.28%	1.81%
2031	0.57%	0.75%	0.59%	1.14%	1.50%	1.19%	1.71%	2.25%	1.78%
2032	0.56%	0.74%	0.58%	1.12%	1.49%	1.17%	1.68%	2.23%	1.75%
2033	0.55%	0.73%	0.57%	1.10%	1.47%	1.15%	1.65%	2.21%	1.72%
2034	0.54%	0.73%	0.56%	1.08%	1.45%	1.13%	1.62%	2.19%	1.70%
2035	0.53%	0.72%	0.55%	1.06%	1.44%	1.11%	1.59%	2.17%	1.67%
2036	0.52%	0.71%	0.55%	1.05%	1.43%	1.09%	1.57%	2.14%	1.65%





20 Year Customer Growth Rate	
High:	41.07%
Medium:	25.84%
Low:	12.20%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Sumas SPE Loop

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	34,365,646	12,098,813	46,464,459	34,894,970	12,293,700	47,188,670	35,428,534	12,490,226	47,918,760
2018	34,621,419	12,191,509	46,812,927	35,414,715	12,482,217	47,896,932	36,220,556	12,777,728	48,998,284
2019	34,875,882	12,283,200	47,159,082	35,935,721	12,670,161	48,605,883	37,020,483	13,066,605	50,087,089
2020	35,341,763	12,374,056	47,715,819	36,678,989	12,857,835	49,536,824	38,057,877	13,357,287	51,415,163
2021	35,382,507	12,464,547	47,847,054	36,984,633	13,046,183	50,030,816	38,648,872	13,651,229	52,300,101
2022	35,636,047	12,554,921	48,190,968	37,515,355	13,235,713	50,751,069	39,481,836	13,949,245	53,431,081
2023	35,889,623	12,645,060	48,534,684	38,050,022	13,426,173	51,476,195	40,327,075	14,250,967	54,578,043
2024	36,362,487	12,735,294	49,097,781	38,823,446	13,618,260	52,441,706	41,436,074	14,557,532	55,993,605
2025	36,397,870	12,825,300	49,223,170	39,133,323	13,811,284	52,944,608	42,058,214	14,867,875	56,926,089
2026	36,651,870	12,915,191	49,567,061	39,680,552	14,005,488	53,686,040	42,942,081	15,182,411	58,124,493
2027	36,906,182	13,005,156	49,911,338	40,232,364	14,201,278	54,433,643	43,839,692	15,501,841	59,341,533
2028	37,385,061	13,094,993	50,480,055	41,034,420	14,398,224	55,432,644	45,020,153	15,825,501	60,845,654
2029	37,414,061	13,184,639	50,598,700	41,346,095	14,596,172	55,942,268	45,670,587	16,153,157	61,823,744
2030	37,667,741	13,274,219	50,941,960	41,908,244	14,795,399	56,703,643	46,604,402	16,485,298	63,089,700
2031	37,919,778	13,363,310	51,283,088	42,470,675	14,994,972	57,465,648	47,545,235	16,820,419	64,365,653
2032	38,400,879	13,451,807	51,852,687	43,293,287	15,194,633	58,487,919	48,785,745	17,158,081	65,943,825
2033	38,418,304	13,539,699	51,958,003	43,594,675	15,394,322	58,988,997	49,444,909	17,498,162	66,943,071
2034	38,664,662	13,626,944	52,291,606	44,155,786	15,593,927	59,749,713	50,402,888	17,840,475	68,243,363
2035	38,909,784	13,713,879	52,623,663	44,717,832	15,794,202	60,512,033	51,368,903	18,186,318	69,555,221
2036	39,389,986	13,800,212	53,190,198	45,553,501	15,994,444	61,547,946	52,657,481	18,534,462	71,191,943

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.74%	0.77%	0.75%	1.49%	1.53%	1.50%	2.24%	2.30%	2.25%
2019	0.73%	0.75%	0.74%	1.47%	1.51%	1.48%	2.21%	2.26%	2.22%
2020	1.34%	0.74%	1.18%	2.07%	1.48%	1.92%	2.80%	2.22%	2.65%
2021	0.12%	0.73%	0.28%	0.83%	1.46%	1.00%	1.55%	2.20%	1.72%
2022	0.72%	0.73%	0.72%	1.43%	1.45%	1.44%	2.16%	2.18%	2.16%
2023	0.71%	0.72%	0.71%	1.43%	1.44%	1.43%	2.14%	2.16%	2.15%
2024	1.32%	0.71%	1.16%	2.03%	1.43%	1.88%	2.75%	2.15%	2.59%
2025	0.10%	0.71%	0.26%	0.80%	1.42%	0.96%	1.50%	2.13%	1.67%
2026	0.70%	0.70%	0.70%	1.40%	1.41%	1.40%	2.10%	2.12%	2.11%
2027	0.69%	0.70%	0.69%	1.39%	1.40%	1.39%	2.09%	2.10%	2.09%
2028	1.30%	0.69%	1.14%	1.99%	1.39%	1.84%	2.69%	2.09%	2.53%
2029	0.08%	0.68%	0.24%	0.76%	1.37%	0.92%	1.44%	2.07%	1.61%
2030	0.68%	0.68%	0.68%	1.36%	1.36%	1.36%	2.04%	2.06%	2.05%
2031	0.67%	0.67%	0.67%	1.34%	1.35%	1.34%	2.02%	2.03%	2.02%
2032	1.27%	0.66%	1.11%	1.94%	1.33%	1.78%	2.61%	2.01%	2.45%
2033	0.05%	0.65%	0.20%	0.70%	1.31%	0.86%	1.35%	1.98%	1.52%
2034	0.64%	0.64%	0.64%	1.29%	1.30%	1.29%	1.94%	1.96%	1.94%
2035	0.63%	0.64%	0.64%	1.27%	1.28%	1.28%	1.92%	1.94%	1.92%
2036	1.23%	0.63%	1.08%	1.87%	1.27%	1.71%	2.51%	1.91%	2.35%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	33,147	451,838	484,985	33,681	458,795	492,476	34,220	465,808	500,028
2018	33,401	455,199	488,601	34,198	465,626	499,824	35,007	476,217	511,225
2019	33,653	458,543	492,196	34,713	472,473	507,186	35,799	486,730	522,529
2020	33,902	461,874	495,775	35,227	479,342	514,569	36,595	497,355	533,950
2021	34,149	465,201	499,351	35,743	486,257	522,000	37,401	508,129	545,530
2022	34,397	468,533	502,930	36,262	493,231	529,494	38,217	519,074	557,291
2023	34,644	471,865	506,509	36,784	500,257	537,041	39,044	530,181	569,224
2024	34,891	475,206	510,097	37,310	507,351	544,662	39,884	541,476	581,360
2025	35,138	478,544	513,681	37,839	514,491	552,330	40,734	552,926	593,660
2026	35,384	481,881	517,265	38,371	521,681	560,052	41,596	564,538	606,134
2027	35,631	485,223	520,853	38,908	528,931	567,838	42,471	576,331	618,802
2028	35,877	488,561	524,438	39,447	536,226	575,673	43,358	588,280	631,638
2029	36,122	491,895	528,018	39,990	543,563	583,553	44,255	600,384	644,639
2030	36,368	495,228	531,596	40,535	550,948	591,484	45,165	612,651	657,816
2031	36,612	498,540	535,152	41,082	558,337	599,419	46,083	625,010	671,093
2032	36,854	501,827	538,681	41,629	565,722	607,351	47,008	637,448	684,457
2033	37,095	505,089	542,184	42,176	573,103	615,279	47,940	649,963	697,903
2034	37,334	508,326	545,660	42,723	580,474	623,197	48,878	662,546	711,424
2035	37,572	511,546	549,118	43,272	587,857	631,128	49,826	675,234	725,060
2036	37,809	514,743	552,551	43,820	595,234	639,054	50,779	687,996	738,775

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.77%	0.74%	0.75%	1.53%	1.49%	1.49%	2.30%	2.23%	2.24%
2019	0.75%	0.73%	0.74%	1.51%	1.47%	1.47%	2.26%	2.21%	2.21%
2020	0.74%	0.73%	0.73%	1.48%	1.45%	1.46%	2.22%	2.18%	2.19%
2021	0.73%	0.72%	0.72%	1.46%	1.44%	1.44%	2.20%	2.17%	2.17%
2022	0.73%	0.72%	0.72%	1.45%	1.43%	1.44%	2.18%	2.15%	2.16%
2023	0.72%	0.71%	0.71%	1.44%	1.42%	1.43%	2.16%	2.14%	2.14%
2024	0.71%	0.71%	0.71%	1.43%	1.42%	1.42%	2.15%	2.13%	2.13%
2025	0.71%	0.70%	0.70%	1.42%	1.41%	1.41%	2.13%	2.11%	2.12%
2026	0.70%	0.70%	0.70%	1.41%	1.40%	1.40%	2.12%	2.10%	2.10%
2027	0.70%	0.69%	0.69%	1.40%	1.39%	1.39%	2.10%	2.09%	2.09%
2028	0.69%	0.69%	0.69%	1.39%	1.38%	1.38%	2.09%	2.07%	2.07%
2029	0.68%	0.68%	0.68%	1.37%	1.37%	1.37%	2.07%	2.06%	2.06%
2030	0.68%	0.68%	0.68%	1.36%	1.36%	1.36%	2.06%	2.04%	2.04%
2031	0.67%	0.67%	0.67%	1.35%	1.34%	1.34%	2.03%	2.02%	2.02%
2032	0.66%	0.66%	0.66%	1.33%	1.32%	1.32%	2.01%	1.99%	1.99%
2033	0.65%	0.65%	0.65%	1.31%	1.30%	1.31%	1.98%	1.96%	1.96%
2034	0.64%	0.64%	0.64%	1.30%	1.29%	1.29%	1.96%	1.94%	1.94%
2035	0.64%	0.63%	0.63%	1.28%	1.27%	1.27%	1.94%	1.92%	1.92%
2036	0.63%	0.62%	0.63%	1.27%	1.25%	1.26%	1.91%	1.89%	1.89%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	30,159,536	16,304,923	46,464,459	30,558,429	16,630,241	47,188,670	30,959,943	16,958,818	47,918,760
2018	30,359,492	16,453,436	46,812,927	30,963,630	16,933,301	47,896,932	31,575,731	17,422,553	48,998,284
2019	30,560,630	16,598,452	47,159,082	31,373,911	17,231,972	48,605,883	32,203,318	17,883,771	50,087,089
2020	30,903,423	16,812,395	47,715,819	31,934,244	17,602,580	49,536,824	32,992,391	18,422,772	51,415,163
2021	30,965,744	16,881,310	47,847,054	32,208,440	17,822,376	50,030,816	33,492,420	18,807,681	52,300,101
2022	31,169,752	17,021,217	48,190,968	32,632,829	18,118,239	50,751,069	34,154,381	19,276,700	53,431,081
2023	31,374,589	17,160,095	48,534,684	33,061,733	18,414,462	51,476,195	34,827,735	19,750,308	54,578,043
2024	31,724,749	17,373,032	49,097,781	33,648,495	18,793,210	52,441,706	35,675,242	20,318,363	55,993,605
2025	31,786,355	17,436,814	49,223,170	33,932,380	19,012,227	52,944,608	36,207,934	20,718,155	56,926,089
2026	31,992,663	17,574,398	49,567,061	34,372,854	19,313,186	53,686,040	36,912,952	21,211,541	58,124,493
2027	32,199,160	17,712,178	49,911,338	34,816,572	19,617,071	54,433,643	37,627,714	21,713,819	59,341,533
2028	32,553,666	17,926,389	50,480,055	35,423,974	20,008,669	55,432,644	38,526,330	22,319,324	60,845,654
2029	32,611,795	17,986,905	50,598,700	35,711,768	20,230,500	55,942,268	39,083,533	22,740,212	61,823,744
2030	32,818,003	18,123,957	50,941,960	36,163,387	20,540,256	56,703,643	39,824,922	23,264,778	63,089,700
2031	33,022,091	18,260,997	51,283,088	36,613,172	20,852,476	57,465,648	40,567,910	23,797,743	64,365,653
2032	33,376,060	18,476,627	51,852,687	37,230,634	21,257,285	58,487,919	41,501,370	24,442,455	65,943,825
2033	33,424,190	18,533,814	51,958,003	37,507,522	21,481,476	58,988,997	42,058,822	24,884,249	66,943,071
2034	33,622,147	18,669,459	52,291,606	37,951,804	21,797,909	59,749,713	42,806,112	25,437,251	68,243,363
2035	33,818,196	18,805,467	52,623,663	38,394,394	22,117,640	60,512,033	43,554,912	26,000,309	69,555,221
2036	34,168,061	19,022,137	53,190,198	39,013,200	22,534,746	61,547,946	44,508,273	26,683,670	71,191,943

Annual Change

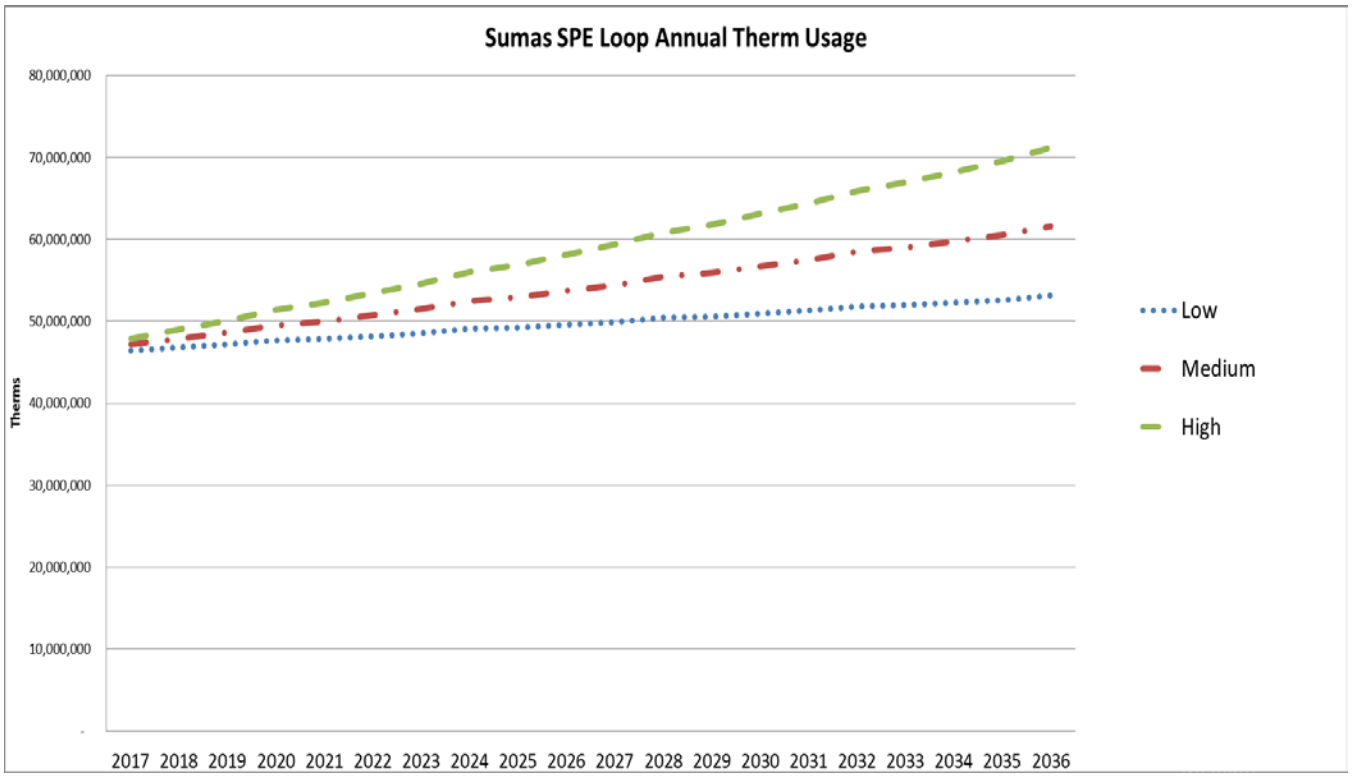
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.66%	0.91%	0.75%	1.33%	1.82%	1.50%	1.99%	2.73%	2.25%
2019	0.66%	0.88%	0.74%	1.33%	1.76%	1.48%	1.99%	2.65%	2.22%
2020	1.12%	1.29%	1.18%	1.79%	2.15%	1.92%	2.45%	3.01%	2.65%
2021	0.20%	0.41%	0.28%	0.86%	1.25%	1.00%	1.52%	2.09%	1.72%
2022	0.66%	0.83%	0.72%	1.32%	1.66%	1.44%	1.98%	2.49%	2.16%
2023	0.66%	0.82%	0.71%	1.31%	1.63%	1.43%	1.97%	2.46%	2.15%
2024	1.12%	1.24%	1.16%	1.77%	2.06%	1.88%	2.43%	2.88%	2.59%
2025	0.19%	0.37%	0.26%	0.84%	1.17%	0.96%	1.49%	1.97%	1.67%
2026	0.65%	0.79%	0.70%	1.30%	1.58%	1.40%	1.95%	2.38%	2.11%
2027	0.65%	0.78%	0.69%	1.29%	1.57%	1.39%	1.94%	2.37%	2.09%
2028	1.10%	1.21%	1.14%	1.74%	2.00%	1.84%	2.39%	2.79%	2.53%
2029	0.18%	0.34%	0.24%	0.81%	1.11%	0.92%	1.45%	1.89%	1.61%
2030	0.63%	0.76%	0.68%	1.26%	1.53%	1.36%	1.90%	2.31%	2.05%
2031	0.62%	0.76%	0.67%	1.24%	1.52%	1.34%	1.87%	2.29%	2.02%
2032	1.07%	1.18%	1.11%	1.69%	1.94%	1.78%	2.30%	2.71%	2.45%
2033	0.14%	0.31%	0.20%	0.74%	1.05%	0.86%	1.34%	1.81%	1.52%
2034	0.59%	0.73%	0.64%	1.18%	1.47%	1.29%	1.78%	2.22%	1.94%
2035	0.58%	0.73%	0.64%	1.17%	1.47%	1.28%	1.75%	2.21%	1.92%
2036	1.03%	1.15%	1.08%	1.61%	1.89%	1.71%	2.19%	2.63%	2.35%

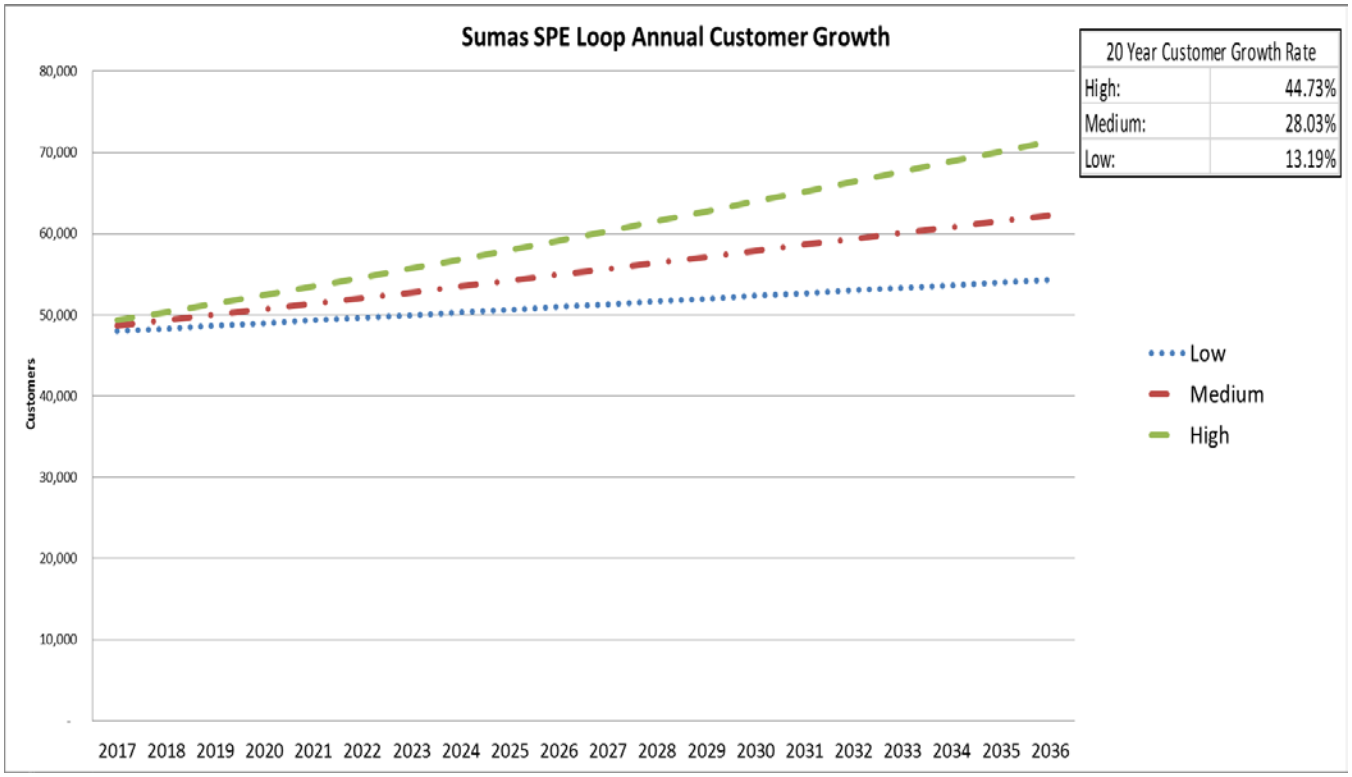
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	42,895	5,090	47,985	43,462	5,193	48,655	44,033	5,298	49,331
2018	43,179	5,137	48,316	44,038	5,290	49,328	44,909	5,446	50,355
2019	43,465	5,184	48,649	44,622	5,385	50,007	45,801	5,593	51,395
2020	43,752	5,229	48,982	45,212	5,480	50,692	46,710	5,741	52,451
2021	44,041	5,274	49,316	45,809	5,575	51,383	47,635	5,889	53,524
2022	44,331	5,319	49,651	46,412	5,670	52,082	48,576	6,040	54,616
2023	44,623	5,364	49,987	47,022	5,765	52,787	49,534	6,192	55,726
2024	44,915	5,409	50,324	47,639	5,861	53,500	50,508	6,347	56,855
2025	45,208	5,453	50,661	48,261	5,957	54,218	51,497	6,503	58,000
2026	45,502	5,497	50,999	48,887	6,054	54,941	52,500	6,662	59,162
2027	45,795	5,542	51,337	49,518	6,152	55,670	53,516	6,824	60,340
2028	46,089	5,586	51,675	50,153	6,251	56,403	54,545	6,988	61,533
2029	46,382	5,630	52,013	50,791	6,350	57,141	55,587	7,154	62,741
2030	46,676	5,675	52,350	51,434	6,449	57,883	56,641	7,323	63,964
2031	46,966	5,719	52,685	52,073	6,550	58,623	57,698	7,494	65,192
2032	47,253	5,763	53,016	52,710	6,651	59,361	58,757	7,667	66,424
2033	47,538	5,807	53,344	53,345	6,752	60,098	59,818	7,843	67,661
2034	47,819	5,850	53,670	53,977	6,854	60,831	60,881	8,020	68,902
2035	48,098	5,894	53,992	54,607	6,957	61,564	61,946	8,201	70,147
2036	48,374	5,938	54,312	55,234	7,060	62,294	63,014	8,384	71,398

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.66%	0.93%	0.69%	1.33%	1.86%	1.38%	1.99%	2.79%	2.08%
2019	0.66%	0.90%	0.69%	1.33%	1.80%	1.38%	1.99%	2.71%	2.07%
2020	0.66%	0.88%	0.68%	1.32%	1.76%	1.37%	1.98%	2.64%	2.05%
2021	0.66%	0.86%	0.68%	1.32%	1.73%	1.36%	1.98%	2.59%	2.05%
2022	0.66%	0.85%	0.68%	1.32%	1.70%	1.36%	1.98%	2.56%	2.04%
2023	0.66%	0.84%	0.68%	1.31%	1.68%	1.35%	1.97%	2.52%	2.03%
2024	0.66%	0.83%	0.67%	1.31%	1.67%	1.35%	1.97%	2.50%	2.03%
2025	0.65%	0.82%	0.67%	1.30%	1.64%	1.34%	1.96%	2.47%	2.01%
2026	0.65%	0.81%	0.67%	1.30%	1.63%	1.33%	1.95%	2.44%	2.00%
2027	0.65%	0.81%	0.66%	1.29%	1.62%	1.33%	1.94%	2.43%	1.99%
2028	0.64%	0.80%	0.66%	1.28%	1.60%	1.32%	1.92%	2.40%	1.98%
2029	0.64%	0.79%	0.65%	1.27%	1.58%	1.31%	1.91%	2.38%	1.96%
2030	0.63%	0.79%	0.65%	1.26%	1.57%	1.30%	1.90%	2.36%	1.95%
2031	0.62%	0.78%	0.64%	1.24%	1.56%	1.28%	1.87%	2.34%	1.92%
2032	0.61%	0.77%	0.63%	1.22%	1.54%	1.26%	1.84%	2.32%	1.89%
2033	0.60%	0.76%	0.62%	1.20%	1.52%	1.24%	1.81%	2.29%	1.86%
2034	0.59%	0.75%	0.61%	1.18%	1.51%	1.22%	1.78%	2.26%	1.83%
2035	0.58%	0.75%	0.60%	1.17%	1.50%	1.20%	1.75%	2.25%	1.81%
2036	0.57%	0.74%	0.59%	1.15%	1.48%	1.19%	1.72%	2.23%	1.78%





20 Year Customer Growth Rate	
High:	44.73%
Medium:	28.03%
Low:	13.19%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Sunnyside

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	2,170,295	1,070,788	3,241,083	2,194,588	1,082,951	3,277,539	2,219,033	1,095,187	3,314,220
2018	2,181,286	1,075,950	3,257,237	2,216,844	1,093,402	3,310,246	2,252,830	1,111,055	3,363,885
2019	2,191,942	1,080,795	3,272,736	2,238,538	1,103,262	3,341,800	2,285,953	1,126,105	3,412,059
2020	2,215,028	1,085,353	3,300,381	2,272,823	1,112,587	3,385,410	2,331,942	1,140,411	3,472,353
2021	2,212,459	1,089,702	3,302,160	2,280,633	1,121,528	3,402,161	2,350,724	1,154,194	3,504,918
2022	2,222,455	1,093,844	3,316,299	2,301,298	1,130,085	3,431,382	2,382,757	1,167,451	3,550,208
2023	2,232,325	1,097,811	3,330,136	2,321,799	1,138,321	3,460,120	2,414,693	1,180,274	3,594,967
2024	2,255,066	1,101,635	3,356,702	2,355,782	1,146,299	3,502,080	2,460,849	1,192,754	3,653,603
2025	2,251,796	1,105,329	3,357,125	2,362,536	1,154,043	3,516,579	2,478,607	1,204,930	3,683,536
2026	2,261,359	1,108,891	3,370,250	2,382,687	1,161,546	3,544,232	2,510,448	1,216,784	3,727,232
2027	2,270,796	1,112,332	3,383,127	2,402,663	1,168,831	3,571,494	2,542,160	1,228,352	3,770,512
2028	2,293,297	1,115,666	3,408,963	2,436,519	1,175,927	3,612,445	2,588,716	1,239,675	3,828,390
2029	2,289,311	1,118,906	3,408,217	2,442,129	1,182,853	3,624,982	2,605,245	1,250,783	3,856,028
2030	2,298,357	1,122,049	3,420,406	2,461,539	1,189,607	3,651,146	2,636,482	1,261,666	3,898,148
2031	2,307,215	1,125,092	3,432,306	2,480,633	1,196,178	3,676,812	2,667,351	1,272,308	3,939,659
2032	2,329,214	1,128,007	3,457,221	2,513,759	1,202,506	3,716,265	2,713,291	1,282,610	3,995,901
2033	2,324,217	1,130,826	3,455,043	2,517,526	1,208,655	3,726,181	2,727,389	1,292,668	4,020,057
2034	2,332,388	1,133,545	3,465,933	2,535,371	1,214,615	3,749,986	2,756,619	1,302,466	4,059,085
2035	2,340,387	1,136,175	3,476,562	2,552,917	1,220,411	3,773,327	2,785,482	1,312,043	4,097,525
2036	2,361,706	1,138,692	3,500,398	2,584,859	1,225,983	3,810,843	2,829,983	1,321,297	4,151,280

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.51%	0.48%	0.50%	1.01%	0.97%	1.00%	1.52%	1.45%	1.50%
2019	0.49%	0.45%	0.48%	0.98%	0.90%	0.95%	1.47%	1.35%	1.43%
2020	1.05%	0.42%	0.84%	1.53%	0.85%	1.30%	2.01%	1.27%	1.77%
2021	-0.12%	0.40%	0.05%	0.34%	0.80%	0.49%	0.81%	1.21%	0.94%
2022	0.45%	0.38%	0.43%	0.91%	0.76%	0.86%	1.36%	1.15%	1.29%
2023	0.44%	0.36%	0.42%	0.89%	0.73%	0.84%	1.34%	1.10%	1.26%
2024	1.02%	0.35%	0.80%	1.46%	0.70%	1.21%	1.91%	1.06%	1.63%
2025	-0.15%	0.34%	0.01%	0.29%	0.68%	0.41%	0.72%	1.02%	0.82%
2026	0.42%	0.32%	0.39%	0.85%	0.65%	0.79%	1.28%	0.98%	1.19%
2027	0.42%	0.31%	0.38%	0.84%	0.63%	0.77%	1.26%	0.95%	1.16%
2028	0.99%	0.30%	0.76%	1.41%	0.61%	1.15%	1.83%	0.92%	1.54%
2029	-0.17%	0.29%	-0.02%	0.23%	0.59%	0.35%	0.64%	0.90%	0.72%
2030	0.40%	0.28%	0.36%	0.79%	0.57%	0.72%	1.20%	0.87%	1.09%
2031	0.39%	0.27%	0.35%	0.78%	0.55%	0.70%	1.17%	0.84%	1.06%
2032	0.95%	0.26%	0.73%	1.34%	0.53%	1.07%	1.72%	0.81%	1.43%
2033	-0.21%	0.25%	-0.06%	0.15%	0.51%	0.27%	0.52%	0.78%	0.60%
2034	0.35%	0.24%	0.32%	0.71%	0.49%	0.64%	1.07%	0.76%	0.97%
2035	0.34%	0.23%	0.31%	0.69%	0.48%	0.62%	1.05%	0.74%	0.95%
2036	0.91%	0.22%	0.69%	1.25%	0.46%	0.99%	1.60%	0.71%	1.31%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	2,934	32,620	35,554	2,967	32,982	35,949	3,001	33,347	36,347
2018	2,948	32,783	35,731	2,996	33,311	36,307	3,044	33,846	36,890
2019	2,961	32,940	35,901	3,023	33,630	36,653	3,085	34,333	37,418
2020	2,974	33,091	36,065	3,048	33,941	36,989	3,124	34,810	37,934
2021	2,985	33,240	36,225	3,073	34,246	37,318	3,162	35,279	38,442
2022	2,997	33,385	36,382	3,096	34,546	37,642	3,198	35,745	38,943
2023	3,008	33,528	36,535	3,119	34,842	37,961	3,234	36,206	39,440
2024	3,018	33,669	36,687	3,141	35,137	38,278	3,268	36,667	39,935
2025	3,028	33,808	36,836	3,162	35,429	38,590	3,301	37,126	40,427
2026	3,038	33,945	36,983	3,182	35,717	38,900	3,334	37,582	40,916
2027	3,047	34,080	37,128	3,202	36,003	39,205	3,365	38,035	41,400
2028	3,057	34,213	37,270	3,222	36,286	39,507	3,396	38,486	41,882
2029	3,065	34,344	37,409	3,241	36,565	39,806	3,427	38,933	42,360
2030	3,074	34,472	37,547	3,259	36,841	40,100	3,457	39,377	42,833
2031	3,082	34,598	37,681	3,277	37,112	40,389	3,486	39,814	43,300
2032	3,090	34,720	37,810	3,295	37,376	40,670	3,514	40,243	43,757
2033	3,098	34,839	37,937	3,311	37,634	40,945	3,542	40,663	44,205
2034	3,106	34,954	38,060	3,328	37,886	41,213	3,568	41,076	44,645
2035	3,113	35,067	38,180	3,344	38,133	41,477	3,595	41,483	45,078
2036	3,120	35,176	38,296	3,359	38,373	41,732	3,620	41,879	45,499

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.48%	0.50%	0.50%	0.97%	1.00%	0.99%	1.45%	1.50%	1.49%
2019	0.45%	0.48%	0.48%	0.90%	0.96%	0.95%	1.35%	1.44%	1.43%
2020	0.42%	0.46%	0.46%	0.85%	0.92%	0.92%	1.27%	1.39%	1.38%
2021	0.40%	0.45%	0.44%	0.80%	0.90%	0.89%	1.21%	1.35%	1.34%
2022	0.38%	0.44%	0.43%	0.76%	0.88%	0.87%	1.15%	1.32%	1.30%
2023	0.36%	0.43%	0.42%	0.73%	0.86%	0.85%	1.10%	1.29%	1.28%
2024	0.35%	0.42%	0.42%	0.70%	0.85%	0.83%	1.06%	1.27%	1.26%
2025	0.34%	0.41%	0.41%	0.68%	0.83%	0.82%	1.02%	1.25%	1.23%
2026	0.32%	0.41%	0.40%	0.65%	0.81%	0.80%	0.98%	1.23%	1.21%
2027	0.31%	0.40%	0.39%	0.63%	0.80%	0.79%	0.95%	1.21%	1.18%
2028	0.30%	0.39%	0.38%	0.61%	0.79%	0.77%	0.92%	1.19%	1.16%
2029	0.29%	0.38%	0.37%	0.59%	0.77%	0.76%	0.90%	1.16%	1.14%
2030	0.28%	0.37%	0.37%	0.57%	0.75%	0.74%	0.87%	1.14%	1.12%
2031	0.27%	0.36%	0.36%	0.55%	0.74%	0.72%	0.84%	1.11%	1.09%
2032	0.26%	0.35%	0.34%	0.53%	0.71%	0.70%	0.81%	1.08%	1.05%
2033	0.25%	0.34%	0.33%	0.51%	0.69%	0.68%	0.78%	1.05%	1.02%
2034	0.24%	0.33%	0.32%	0.49%	0.67%	0.66%	0.76%	1.01%	0.99%
2035	0.23%	0.32%	0.32%	0.48%	0.65%	0.64%	0.74%	0.99%	0.97%
2036	0.22%	0.31%	0.30%	0.46%	0.63%	0.62%	0.71%	0.95%	0.93%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,041,407	2,199,676	3,241,083	1,048,278	2,229,260	3,277,539	1,055,172	2,259,048	3,314,220
2018	1,044,821	2,212,415	3,257,237	1,055,151	2,255,095	3,310,246	1,065,548	2,298,337	3,363,885
2019	1,048,230	2,224,507	3,272,736	1,062,035	2,279,765	3,341,800	1,075,977	2,336,081	3,412,059
2020	1,056,772	2,243,610	3,300,381	1,074,143	2,311,267	3,385,410	1,091,742	2,380,611	3,472,353
2021	1,054,998	2,247,163	3,302,160	1,075,772	2,326,389	3,402,161	1,096,885	2,408,033	3,504,918
2022	1,058,359	2,257,940	3,316,299	1,082,627	2,348,755	3,431,382	1,107,371	2,442,838	3,550,208
2023	1,061,698	2,268,438	3,330,136	1,089,458	2,370,662	3,460,120	1,117,851	2,477,116	3,594,967
2024	1,070,234	2,286,467	3,356,702	1,101,641	2,400,439	3,502,080	1,133,864	2,519,739	3,653,603
2025	1,068,300	2,288,825	3,357,125	1,103,028	2,413,551	3,516,579	1,138,769	2,544,768	3,683,536
2026	1,071,543	2,298,706	3,370,250	1,109,726	2,434,507	3,544,232	1,149,141	2,578,091	3,727,232
2027	1,074,741	2,308,386	3,383,127	1,116,349	2,455,145	3,571,494	1,159,428	2,611,084	3,770,512
2028	1,083,164	2,325,799	3,408,963	1,128,380	2,484,065	3,612,445	1,175,332	2,653,058	3,828,390
2029	1,080,980	2,327,237	3,408,217	1,129,329	2,495,653	3,624,982	1,179,680	2,676,348	3,856,028
2030	1,084,023	2,336,383	3,420,406	1,135,687	2,515,459	3,651,146	1,189,641	2,708,507	3,898,148
2031	1,086,950	2,345,356	3,432,306	1,141,820	2,534,992	3,676,812	1,199,278	2,740,382	3,939,659
2032	1,095,096	2,362,125	3,457,221	1,153,341	2,562,924	3,716,265	1,214,493	2,781,408	3,995,901
2033	1,092,455	2,362,587	3,455,043	1,153,401	2,572,780	3,726,181	1,217,546	2,802,511	4,020,057
2034	1,095,039	2,370,894	3,465,933	1,158,857	2,591,129	3,749,986	1,226,186	2,832,900	4,059,085
2035	1,097,513	2,379,049	3,476,562	1,164,093	2,609,234	3,773,327	1,234,496	2,863,029	4,097,525
2036	1,105,272	2,395,126	3,500,398	1,174,852	2,635,991	3,810,843	1,248,587	2,902,693	4,151,280

Annual Change

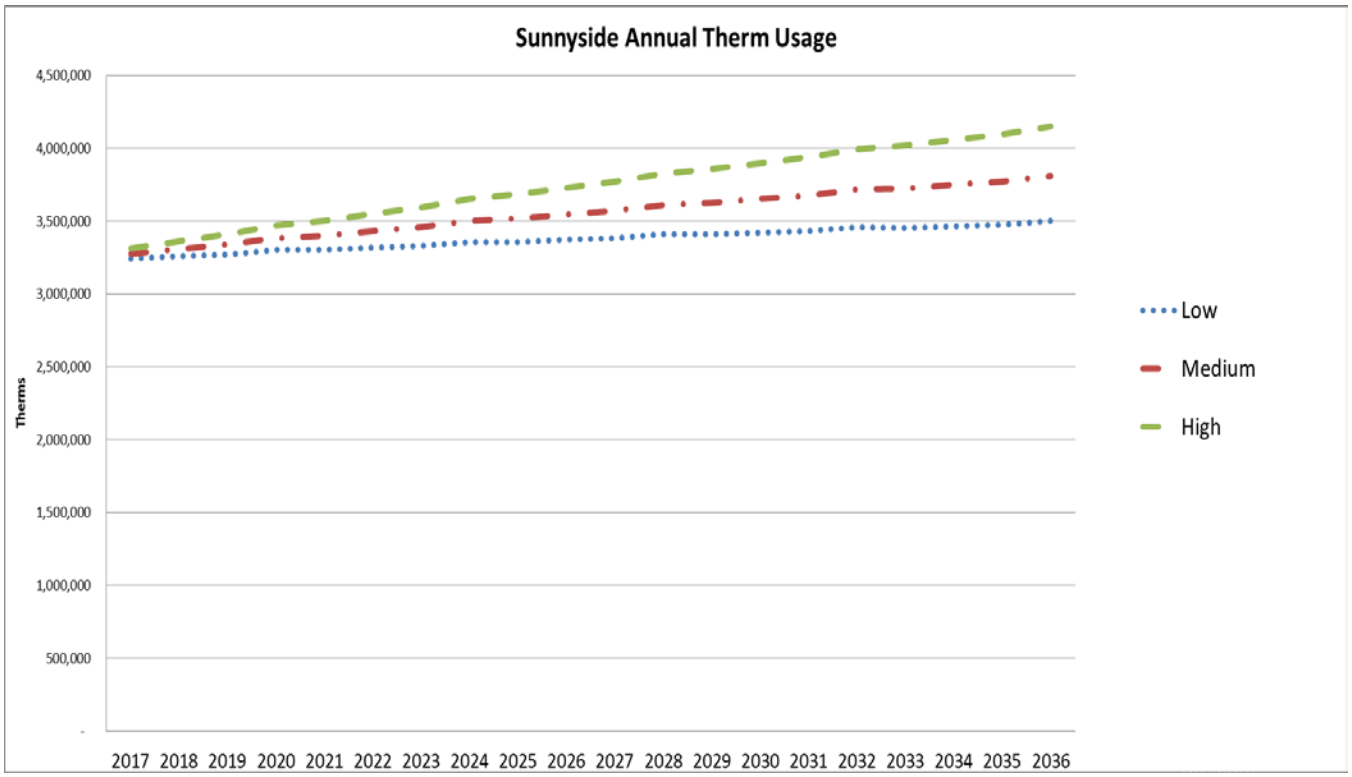
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.33%	0.58%	0.50%	0.66%	1.16%	1.00%	0.98%	1.74%	1.50%
2019	0.33%	0.55%	0.48%	0.65%	1.09%	0.95%	0.98%	1.64%	1.43%
2020	0.81%	0.86%	0.84%	1.14%	1.38%	1.30%	1.47%	1.91%	1.77%
2021	-0.17%	0.16%	0.05%	0.15%	0.65%	0.49%	0.47%	1.15%	0.94%
2022	0.32%	0.48%	0.43%	0.64%	0.96%	0.86%	0.96%	1.45%	1.29%
2023	0.32%	0.46%	0.42%	0.63%	0.93%	0.84%	0.95%	1.40%	1.26%
2024	0.80%	0.79%	0.80%	1.12%	1.26%	1.21%	1.43%	1.72%	1.63%
2025	-0.18%	0.10%	0.01%	0.13%	0.55%	0.41%	0.43%	0.99%	0.82%
2026	0.30%	0.43%	0.39%	0.61%	0.87%	0.79%	0.91%	1.31%	1.19%
2027	0.30%	0.42%	0.38%	0.60%	0.85%	0.77%	0.90%	1.28%	1.16%
2028	0.78%	0.75%	0.76%	1.08%	1.18%	1.15%	1.37%	1.61%	1.54%
2029	-0.20%	0.06%	-0.02%	0.08%	0.47%	0.35%	0.37%	0.88%	0.72%
2030	0.28%	0.39%	0.36%	0.56%	0.79%	0.72%	0.84%	1.20%	1.09%
2031	0.27%	0.38%	0.35%	0.54%	0.78%	0.70%	0.81%	1.18%	1.06%
2032	0.75%	0.71%	0.73%	1.01%	1.10%	1.07%	1.27%	1.50%	1.43%
2033	-0.24%	0.02%	-0.06%	0.01%	0.38%	0.27%	0.25%	0.76%	0.60%
2034	0.24%	0.35%	0.32%	0.47%	0.71%	0.64%	0.71%	1.08%	0.97%
2035	0.23%	0.34%	0.31%	0.45%	0.70%	0.62%	0.68%	1.06%	0.95%
2036	0.71%	0.68%	0.69%	0.92%	1.03%	0.99%	1.14%	1.39%	1.31%

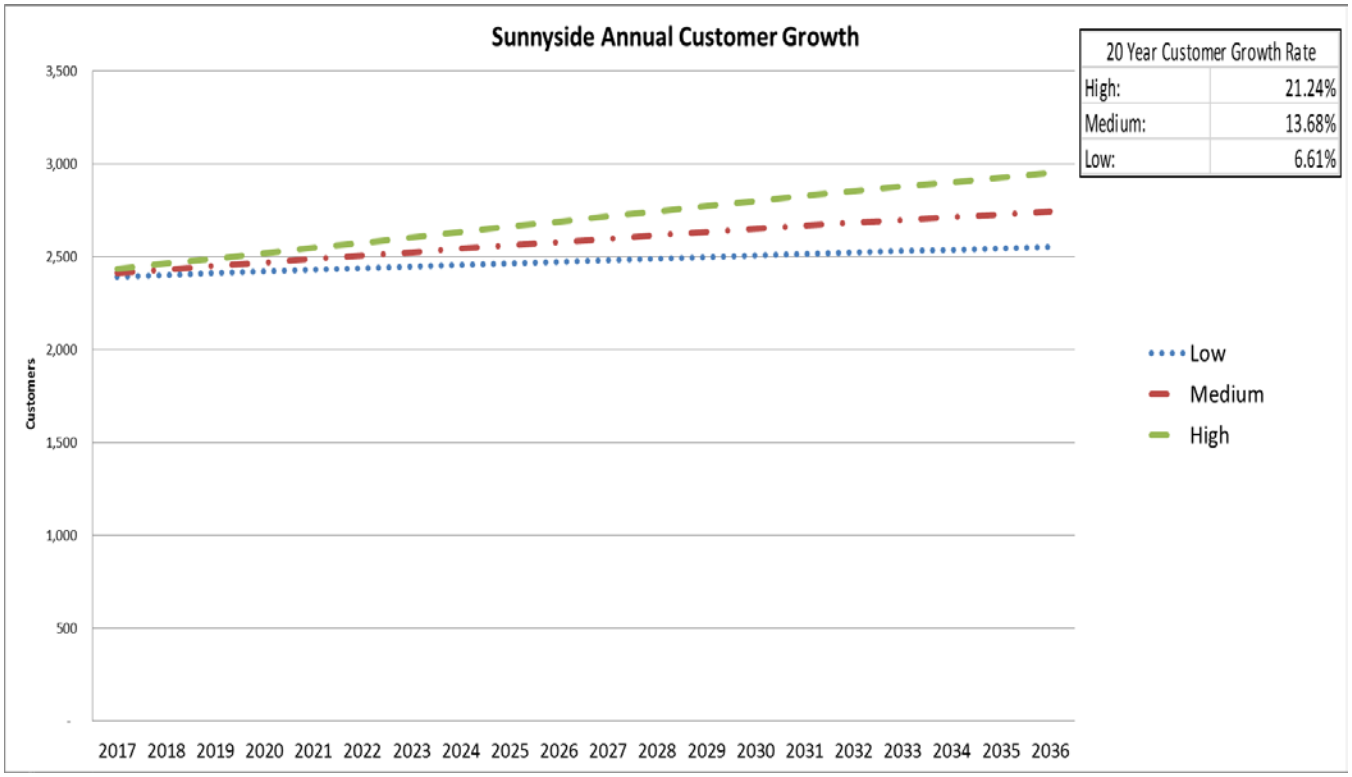
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,852	542	2,394	1,864	550	2,414	1,876	558	2,434
2018	1,858	545	2,403	1,876	557	2,433	1,895	568	2,463
2019	1,864	549	2,412	1,888	563	2,452	1,913	578	2,492
2020	1,870	552	2,422	1,901	570	2,471	1,932	588	2,520
2021	1,876	555	2,431	1,913	576	2,489	1,950	598	2,549
2022	1,882	558	2,440	1,925	582	2,508	1,969	608	2,577
2023	1,888	561	2,449	1,937	589	2,526	1,988	618	2,605
2024	1,894	564	2,458	1,949	595	2,544	2,006	628	2,634
2025	1,900	567	2,466	1,961	601	2,562	2,025	637	2,662
2026	1,905	570	2,475	1,973	607	2,580	2,043	647	2,690
2027	1,911	572	2,483	1,985	613	2,598	2,062	657	2,718
2028	1,917	575	2,492	1,997	619	2,616	2,080	666	2,746
2029	1,922	578	2,500	2,008	625	2,633	2,098	676	2,774
2030	1,928	581	2,508	2,019	631	2,651	2,115	686	2,801
2031	1,933	583	2,516	2,030	637	2,667	2,132	695	2,828
2032	1,938	586	2,524	2,041	643	2,684	2,149	705	2,854
2033	1,943	589	2,531	2,051	648	2,699	2,165	714	2,879
2034	1,947	591	2,538	2,061	654	2,715	2,180	723	2,904
2035	1,952	594	2,545	2,070	660	2,729	2,195	732	2,928
2036	1,956	596	2,552	2,079	665	2,744	2,209	741	2,951

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.33%	0.63%	0.40%	0.66%	1.27%	0.79%	0.98%	1.90%	1.19%
2019	0.33%	0.60%	0.39%	0.65%	1.20%	0.78%	0.98%	1.81%	1.17%
2020	0.32%	0.58%	0.38%	0.65%	1.16%	0.76%	0.97%	1.74%	1.15%
2021	0.32%	0.56%	0.37%	0.64%	1.12%	0.75%	0.96%	1.67%	1.13%
2022	0.32%	0.54%	0.37%	0.64%	1.09%	0.74%	0.96%	1.63%	1.11%
2023	0.32%	0.53%	0.37%	0.63%	1.07%	0.73%	0.95%	1.60%	1.10%
2024	0.31%	0.53%	0.36%	0.63%	1.05%	0.72%	0.94%	1.58%	1.09%
2025	0.31%	0.52%	0.36%	0.62%	1.03%	0.71%	0.92%	1.55%	1.07%
2026	0.30%	0.51%	0.35%	0.61%	1.02%	0.70%	0.91%	1.53%	1.06%
2027	0.30%	0.50%	0.34%	0.60%	1.00%	0.69%	0.90%	1.50%	1.04%
2028	0.29%	0.49%	0.34%	0.59%	0.98%	0.68%	0.88%	1.48%	1.02%
2029	0.29%	0.48%	0.33%	0.57%	0.96%	0.67%	0.86%	1.45%	1.00%
2030	0.28%	0.47%	0.33%	0.56%	0.95%	0.65%	0.84%	1.42%	0.98%
2031	0.27%	0.46%	0.31%	0.54%	0.93%	0.63%	0.81%	1.39%	0.95%
2032	0.26%	0.45%	0.30%	0.52%	0.90%	0.61%	0.78%	1.36%	0.92%
2033	0.25%	0.44%	0.29%	0.49%	0.88%	0.59%	0.74%	1.33%	0.89%
2034	0.24%	0.43%	0.28%	0.47%	0.86%	0.57%	0.71%	1.29%	0.85%
2035	0.23%	0.42%	0.27%	0.45%	0.85%	0.55%	0.68%	1.27%	0.83%
2036	0.22%	0.41%	0.26%	0.43%	0.82%	0.53%	0.65%	1.23%	0.79%





20 Year Customer Growth Rate	
High:	21.24%
Medium:	13.68%
Low:	6.61%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Walla Walla

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	8,252,420	4,286,379	12,538,799	8,335,850	4,339,324	12,675,175	8,419,791	4,392,656	12,812,447
2018	8,291,938	4,311,279	12,603,217	8,415,851	4,389,854	12,805,705	8,541,249	4,469,554	13,010,803
2019	8,330,946	4,335,651	12,666,597	8,495,264	4,439,650	12,934,914	8,662,492	4,545,850	13,208,343
2020	8,428,908	4,359,507	12,788,415	8,634,826	4,488,714	13,123,541	8,845,545	4,621,522	13,467,067
2021	8,407,048	4,382,890	12,789,937	8,651,452	4,537,112	13,188,564	8,902,894	4,696,643	13,599,537
2022	8,444,481	4,405,838	12,850,319	8,728,881	4,584,909	13,313,790	9,023,009	4,771,298	13,794,307
2023	8,481,400	4,428,322	12,909,722	8,805,634	4,632,023	13,437,657	9,142,681	4,845,336	13,988,017
2024	8,578,674	4,450,362	13,029,036	8,945,359	4,678,477	13,623,836	9,328,452	4,918,766	14,247,218
2025	8,553,850	4,471,969	13,025,819	8,957,353	4,724,282	13,681,635	9,380,975	4,991,591	14,372,566
2026	8,589,370	4,493,257	13,082,627	9,032,275	4,769,667	13,801,942	9,499,513	5,064,157	14,563,670
2027	8,624,292	4,514,163	13,138,455	9,106,281	4,814,479	13,920,760	9,617,150	5,136,204	14,753,354
2028	8,720,354	4,534,525	13,254,879	9,244,862	4,858,362	14,103,224	9,803,365	5,207,143	15,010,508
2029	8,692,169	4,554,396	13,246,565	9,251,085	4,901,404	14,152,489	9,848,882	5,277,080	15,125,962
2030	8,725,252	4,573,912	13,299,164	9,322,127	4,943,896	14,266,023	9,963,331	5,346,480	15,309,811
2031	8,757,216	4,592,771	13,349,987	9,391,066	4,985,164	14,376,230	10,074,883	5,414,227	15,489,109
2032	8,851,101	4,611,213	13,462,314	9,526,219	5,025,725	14,551,944	10,257,609	5,481,152	15,738,761
2033	8,818,403	4,629,050	13,447,453	9,523,907	5,065,155	14,589,062	10,291,279	5,546,546	15,837,825
2034	8,847,420	4,646,212	13,493,632	9,587,298	5,103,264	14,690,562	10,395,194	5,610,041	16,005,235
2035	8,875,651	4,662,982	13,538,632	9,649,227	5,140,676	14,789,903	10,497,140	5,672,667	16,169,807
2036	8,966,246	4,679,082	13,645,328	9,778,235	5,176,765	14,955,001	10,671,526	5,733,370	16,404,896

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.48%	0.58%	0.51%	0.96%	1.16%	1.03%	1.44%	1.75%	1.55%
2019	0.47%	0.57%	0.50%	0.94%	1.13%	1.01%	1.42%	1.71%	1.52%
2020	1.18%	0.55%	0.96%	1.64%	1.11%	1.46%	2.11%	1.66%	1.96%
2021	-0.26%	0.54%	0.01%	0.19%	1.08%	0.50%	0.65%	1.63%	0.98%
2022	0.45%	0.52%	0.47%	0.89%	1.05%	0.95%	1.35%	1.59%	1.43%
2023	0.44%	0.51%	0.46%	0.88%	1.03%	0.93%	1.33%	1.55%	1.40%
2024	1.15%	0.50%	0.92%	1.59%	1.00%	1.39%	2.03%	1.52%	1.85%
2025	-0.29%	0.49%	-0.02%	0.13%	0.98%	0.42%	0.56%	1.48%	0.88%
2026	0.42%	0.48%	0.44%	0.84%	0.96%	0.88%	1.26%	1.45%	1.33%
2027	0.41%	0.47%	0.43%	0.82%	0.94%	0.86%	1.24%	1.42%	1.30%
2028	1.11%	0.45%	0.89%	1.52%	0.91%	1.31%	1.94%	1.38%	1.74%
2029	-0.32%	0.44%	-0.06%	0.07%	0.89%	0.35%	0.46%	1.34%	0.77%
2030	0.38%	0.43%	0.40%	0.77%	0.87%	0.80%	1.16%	1.32%	1.22%
2031	0.37%	0.41%	0.38%	0.74%	0.83%	0.77%	1.12%	1.27%	1.17%
2032	1.07%	0.40%	0.84%	1.44%	0.81%	1.22%	1.81%	1.24%	1.61%
2033	-0.37%	0.39%	-0.11%	-0.02%	0.78%	0.26%	0.33%	1.19%	0.63%
2034	0.33%	0.37%	0.34%	0.67%	0.75%	0.70%	1.01%	1.14%	1.06%
2035	0.32%	0.36%	0.33%	0.65%	0.73%	0.68%	0.98%	1.12%	1.03%
2036	1.02%	0.35%	0.79%	1.34%	0.70%	1.12%	1.66%	1.07%	1.45%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	11,744	160,375	172,119	11,889	162,000	173,889	12,035	163,635	175,670
2018	11,812	161,142	172,954	12,027	163,554	175,581	12,245	165,994	178,239
2019	11,878	161,898	173,777	12,163	165,092	177,256	12,454	168,343	180,797
2020	11,944	162,639	174,583	12,298	166,608	178,906	12,662	170,669	183,331
2021	12,008	163,369	175,377	12,430	168,111	180,542	12,868	172,989	185,857
2022	12,071	164,091	176,162	12,561	169,604	182,166	13,072	175,305	188,377
2023	12,132	164,802	176,934	12,690	171,081	183,772	13,275	177,608	190,883
2024	12,193	165,504	177,696	12,818	172,547	185,365	13,476	179,905	193,381
2025	12,252	166,194	178,446	12,943	173,997	186,940	13,676	182,187	195,862
2026	12,310	166,876	179,186	13,068	175,435	188,502	13,874	184,461	198,336
2027	12,368	167,546	179,913	13,190	176,854	190,044	14,072	186,718	200,789
2028	12,423	168,202	180,626	13,311	178,251	191,562	14,266	188,949	203,215
2029	12,478	168,846	181,324	13,429	179,628	193,056	14,458	191,156	205,614
2030	12,531	169,479	182,011	13,545	180,987	194,532	14,648	193,346	207,994
2031	12,583	170,091	182,674	13,658	182,306	195,964	14,833	195,480	210,313
2032	12,633	170,686	183,320	13,769	183,597	197,366	15,017	197,577	212,594
2033	12,682	171,261	183,943	13,877	184,846	198,724	15,196	199,617	214,813
2034	12,729	171,815	184,545	13,982	186,058	200,039	15,370	201,603	216,973
2035	12,775	172,355	185,130	14,084	187,241	201,325	15,542	203,550	219,092
2036	12,819	172,871	185,690	14,183	188,376	202,559	15,708	205,427	221,135

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.58%	0.48%	0.49%	1.16%	0.96%	0.97%	1.75%	1.44%	1.46%
2019	0.57%	0.47%	0.48%	1.13%	0.94%	0.95%	1.71%	1.42%	1.44%
2020	0.55%	0.46%	0.46%	1.11%	0.92%	0.93%	1.66%	1.38%	1.40%
2021	0.54%	0.45%	0.46%	1.08%	0.90%	0.91%	1.63%	1.36%	1.38%
2022	0.52%	0.44%	0.45%	1.05%	0.89%	0.90%	1.59%	1.34%	1.36%
2023	0.51%	0.43%	0.44%	1.03%	0.87%	0.88%	1.55%	1.31%	1.33%
2024	0.50%	0.43%	0.43%	1.00%	0.86%	0.87%	1.52%	1.29%	1.31%
2025	0.49%	0.42%	0.42%	0.98%	0.84%	0.85%	1.48%	1.27%	1.28%
2026	0.48%	0.41%	0.41%	0.96%	0.83%	0.84%	1.45%	1.25%	1.26%
2027	0.47%	0.40%	0.41%	0.94%	0.81%	0.82%	1.42%	1.22%	1.24%
2028	0.45%	0.39%	0.40%	0.91%	0.79%	0.80%	1.38%	1.19%	1.21%
2029	0.44%	0.38%	0.39%	0.89%	0.77%	0.78%	1.34%	1.17%	1.18%
2030	0.43%	0.38%	0.38%	0.87%	0.76%	0.76%	1.32%	1.15%	1.16%
2031	0.41%	0.36%	0.36%	0.83%	0.73%	0.74%	1.27%	1.10%	1.12%
2032	0.40%	0.35%	0.35%	0.81%	0.71%	0.72%	1.24%	1.07%	1.08%
2033	0.39%	0.34%	0.34%	0.78%	0.68%	0.69%	1.19%	1.03%	1.04%
2034	0.37%	0.32%	0.33%	0.75%	0.66%	0.66%	1.14%	0.99%	1.01%
2035	0.36%	0.31%	0.32%	0.73%	0.64%	0.64%	1.12%	0.97%	0.98%
2036	0.35%	0.30%	0.30%	0.70%	0.61%	0.61%	1.07%	0.92%	0.93%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	6,496,930	6,041,868	12,538,799	6,537,816	6,137,358	12,675,175	6,578,831	6,233,616	12,812,447
2018	6,517,187	6,086,030	12,603,217	6,578,585	6,227,121	12,805,705	6,640,366	6,370,437	13,010,803
2019	6,537,434	6,129,163	12,666,597	6,619,460	6,315,454	12,934,914	6,702,255	6,506,087	13,208,343
2020	6,590,206	6,198,209	12,788,415	6,693,433	6,430,107	13,123,541	6,797,950	6,669,117	13,467,067
2021	6,577,635	6,212,302	12,789,937	6,700,996	6,487,567	13,188,564	6,826,279	6,773,257	13,599,537
2022	6,597,539	6,252,780	12,850,319	6,741,550	6,572,240	13,313,790	6,888,247	6,906,060	13,794,307
2023	6,617,330	6,292,392	12,909,722	6,781,996	6,655,661	13,437,657	6,950,236	7,037,780	13,988,017
2024	6,669,992	6,359,044	13,029,036	6,856,238	6,767,598	13,623,836	7,047,093	7,200,125	14,247,218
2025	6,656,475	6,369,344	13,025,819	6,862,352	6,819,282	13,681,635	7,073,943	7,298,623	14,372,566
2026	6,675,623	6,407,004	13,082,627	6,901,833	6,900,109	13,801,942	7,134,990	7,428,680	14,563,670
2027	6,694,509	6,443,946	13,138,455	6,940,885	6,979,875	13,920,760	7,195,546	7,557,808	14,753,354
2028	6,746,391	6,508,488	13,254,879	7,013,976	7,089,248	14,103,224	7,291,326	7,719,182	15,010,508
2029	6,731,296	6,515,269	13,246,565	7,017,271	7,135,218	14,152,489	7,314,492	7,811,470	15,125,962
2030	6,749,203	6,549,961	13,299,164	7,054,606	7,211,417	14,266,023	7,372,867	7,936,944	15,309,811
2031	6,766,395	6,583,592	13,349,987	7,090,547	7,285,683	14,376,230	7,429,209	8,059,900	15,489,109
2032	6,816,534	6,645,780	13,462,314	7,160,392	7,391,552	14,551,944	7,520,522	8,218,238	15,738,761
2033	6,798,555	6,648,898	13,447,453	7,158,029	7,431,033	14,589,062	7,535,393	8,302,432	15,837,825
2034	6,813,585	6,680,047	13,493,632	7,189,678	7,500,884	14,690,562	7,585,369	8,419,866	16,005,235
2035	6,827,921	6,710,711	13,538,632	7,219,932	7,569,971	14,789,903	7,633,248	8,536,559	16,169,807
2036	6,875,617	6,769,711	13,645,328	7,284,922	7,670,079	14,955,001	7,717,347	8,687,550	16,404,896

Annual Change

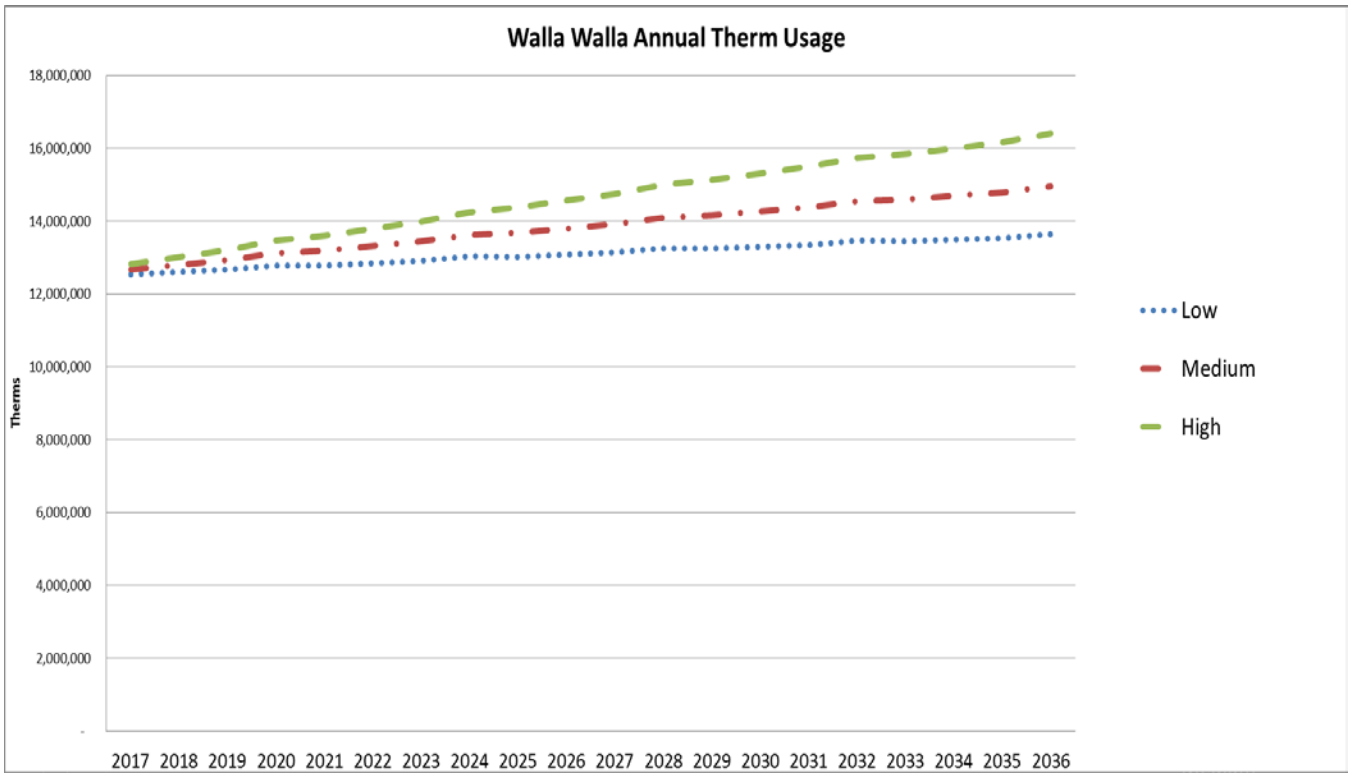
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.73%	0.51%	0.62%	1.46%	1.03%	0.94%	2.19%	1.55%
2019	0.31%	0.71%	0.50%	0.62%	1.42%	1.01%	0.93%	2.13%	1.52%
2020	0.81%	1.13%	0.96%	1.12%	1.82%	1.46%	1.43%	2.51%	1.96%
2021	-0.19%	0.23%	0.01%	0.11%	0.89%	0.50%	0.42%	1.56%	0.98%
2022	0.30%	0.65%	0.47%	0.61%	1.31%	0.95%	0.91%	1.96%	1.43%
2023	0.30%	0.63%	0.46%	0.60%	1.27%	0.93%	0.90%	1.91%	1.40%
2024	0.80%	1.06%	0.92%	1.09%	1.68%	1.39%	1.39%	2.31%	1.85%
2025	-0.20%	0.16%	-0.02%	0.09%	0.76%	0.42%	0.38%	1.37%	0.88%
2026	0.29%	0.59%	0.44%	0.58%	1.19%	0.88%	0.86%	1.78%	1.33%
2027	0.28%	0.58%	0.43%	0.57%	1.16%	0.86%	0.85%	1.74%	1.30%
2028	0.77%	1.00%	0.89%	1.05%	1.57%	1.31%	1.33%	2.14%	1.74%
2029	-0.22%	0.10%	-0.06%	0.05%	0.65%	0.35%	0.32%	1.20%	0.77%
2030	0.27%	0.53%	0.40%	0.53%	1.07%	0.80%	0.80%	1.61%	1.22%
2031	0.25%	0.51%	0.38%	0.51%	1.03%	0.77%	0.76%	1.55%	1.17%
2032	0.74%	0.94%	0.84%	0.99%	1.45%	1.22%	1.23%	1.96%	1.61%
2033	-0.26%	0.05%	-0.11%	-0.03%	0.53%	0.26%	0.20%	1.02%	0.63%
2034	0.22%	0.47%	0.34%	0.44%	0.94%	0.70%	0.66%	1.41%	1.06%
2035	0.21%	0.46%	0.33%	0.42%	0.92%	0.68%	0.63%	1.39%	1.03%
2036	0.70%	0.88%	0.79%	0.90%	1.32%	1.12%	1.10%	1.77%	1.45%

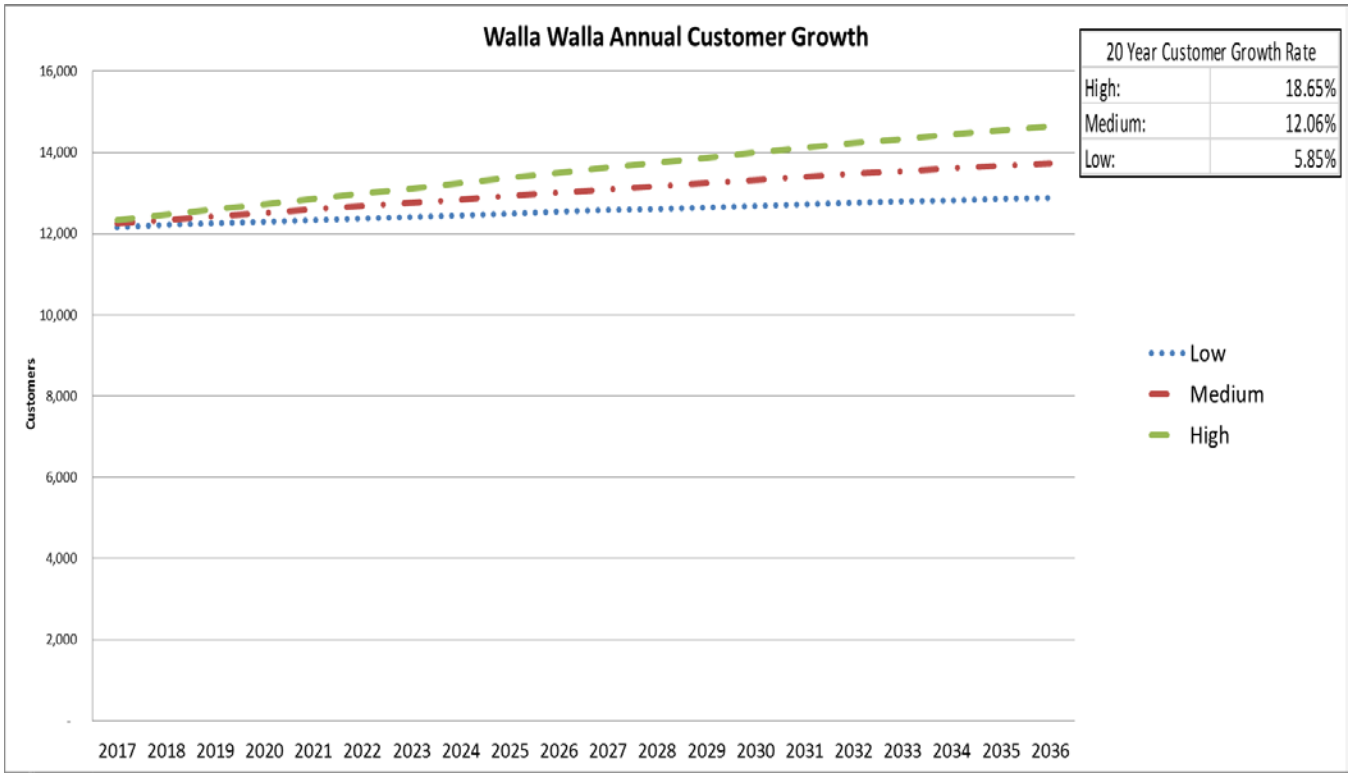
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	10,864	1,305	12,168	10,932	1,324	12,256	11,001	1,343	12,343
2018	10,898	1,313	12,211	11,000	1,341	12,341	11,103	1,369	12,472
2019	10,931	1,322	12,253	11,069	1,358	12,426	11,207	1,395	12,602
2020	10,965	1,330	12,295	11,137	1,374	12,511	11,311	1,420	12,731
2021	10,999	1,337	12,336	11,205	1,391	12,595	11,414	1,446	12,860
2022	11,032	1,345	12,377	11,273	1,407	12,679	11,518	1,471	12,989
2023	11,065	1,353	12,418	11,340	1,423	12,763	11,622	1,496	13,117
2024	11,098	1,360	12,458	11,408	1,439	12,846	11,725	1,521	13,246
2025	11,130	1,368	12,498	11,475	1,454	12,929	11,828	1,545	13,374
2026	11,162	1,375	12,537	11,541	1,470	13,010	11,931	1,570	13,501
2027	11,194	1,382	12,576	11,606	1,485	13,091	12,032	1,595	13,627
2028	11,225	1,389	12,614	11,670	1,500	13,170	12,132	1,619	13,751
2029	11,256	1,396	12,652	11,734	1,515	13,249	12,231	1,643	13,874
2030	11,285	1,403	12,688	11,796	1,530	13,326	12,328	1,667	13,996
2031	11,314	1,410	12,724	11,856	1,544	13,401	12,423	1,691	14,114
2032	11,342	1,416	12,758	11,914	1,559	13,472	12,513	1,715	14,228
2033	11,368	1,422	12,790	11,969	1,573	13,542	12,600	1,738	14,338
2034	11,393	1,429	12,822	12,022	1,586	13,608	12,684	1,760	14,444
2035	11,417	1,435	12,852	12,073	1,600	13,672	12,764	1,783	14,547
2036	11,440	1,440	12,880	12,121	1,613	13,734	12,841	1,804	14,645

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.65%	0.35%	0.62%	1.31%	0.70%	0.94%	1.96%	1.05%
2019	0.31%	0.63%	0.35%	0.62%	1.27%	0.69%	0.93%	1.90%	1.04%
2020	0.31%	0.61%	0.34%	0.62%	1.21%	0.68%	0.93%	1.82%	1.02%
2021	0.31%	0.59%	0.34%	0.61%	1.19%	0.67%	0.92%	1.78%	1.01%
2022	0.30%	0.58%	0.33%	0.61%	1.16%	0.67%	0.91%	1.75%	1.00%
2023	0.30%	0.57%	0.33%	0.60%	1.13%	0.66%	0.90%	1.70%	0.99%
2024	0.30%	0.56%	0.33%	0.59%	1.11%	0.65%	0.89%	1.67%	0.98%
2025	0.29%	0.54%	0.32%	0.59%	1.08%	0.64%	0.88%	1.62%	0.97%
2026	0.29%	0.53%	0.31%	0.58%	1.07%	0.63%	0.86%	1.61%	0.95%
2027	0.28%	0.52%	0.31%	0.57%	1.04%	0.62%	0.85%	1.56%	0.93%
2028	0.28%	0.51%	0.30%	0.55%	1.02%	0.61%	0.83%	1.53%	0.91%
2029	0.27%	0.50%	0.30%	0.54%	0.99%	0.60%	0.82%	1.49%	0.90%
2030	0.27%	0.49%	0.29%	0.53%	0.98%	0.58%	0.80%	1.47%	0.88%
2031	0.25%	0.47%	0.28%	0.51%	0.94%	0.56%	0.76%	1.42%	0.84%
2032	0.24%	0.46%	0.27%	0.49%	0.93%	0.54%	0.73%	1.39%	0.81%
2033	0.23%	0.45%	0.26%	0.46%	0.89%	0.51%	0.70%	1.34%	0.77%
2034	0.22%	0.43%	0.24%	0.44%	0.87%	0.49%	0.66%	1.30%	0.74%
2035	0.21%	0.43%	0.23%	0.42%	0.85%	0.47%	0.63%	1.28%	0.71%
2036	0.20%	0.40%	0.22%	0.40%	0.81%	0.45%	0.60%	1.21%	0.68%





20 Year Customer Growth Rate	
High:	18.65%
Medium:	12.06%
Low:	5.85%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

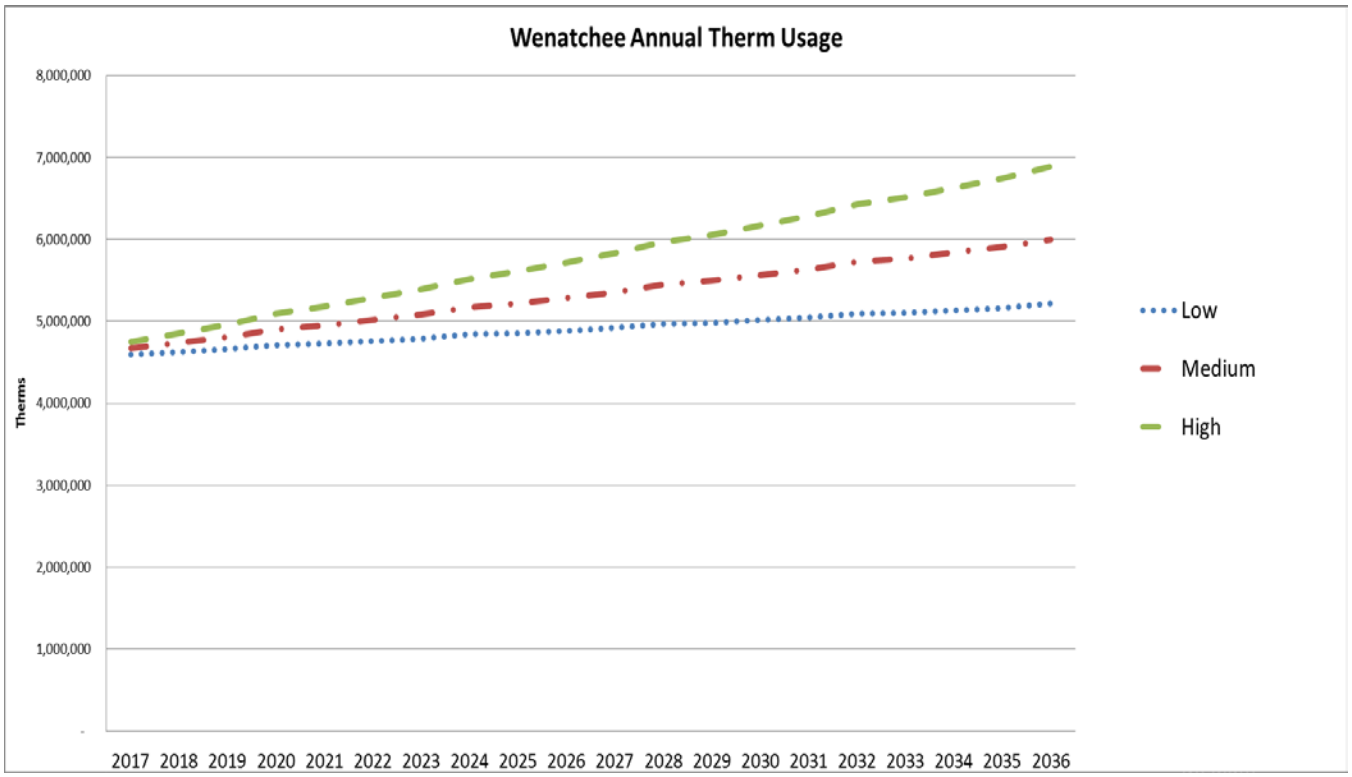
Wenatchee

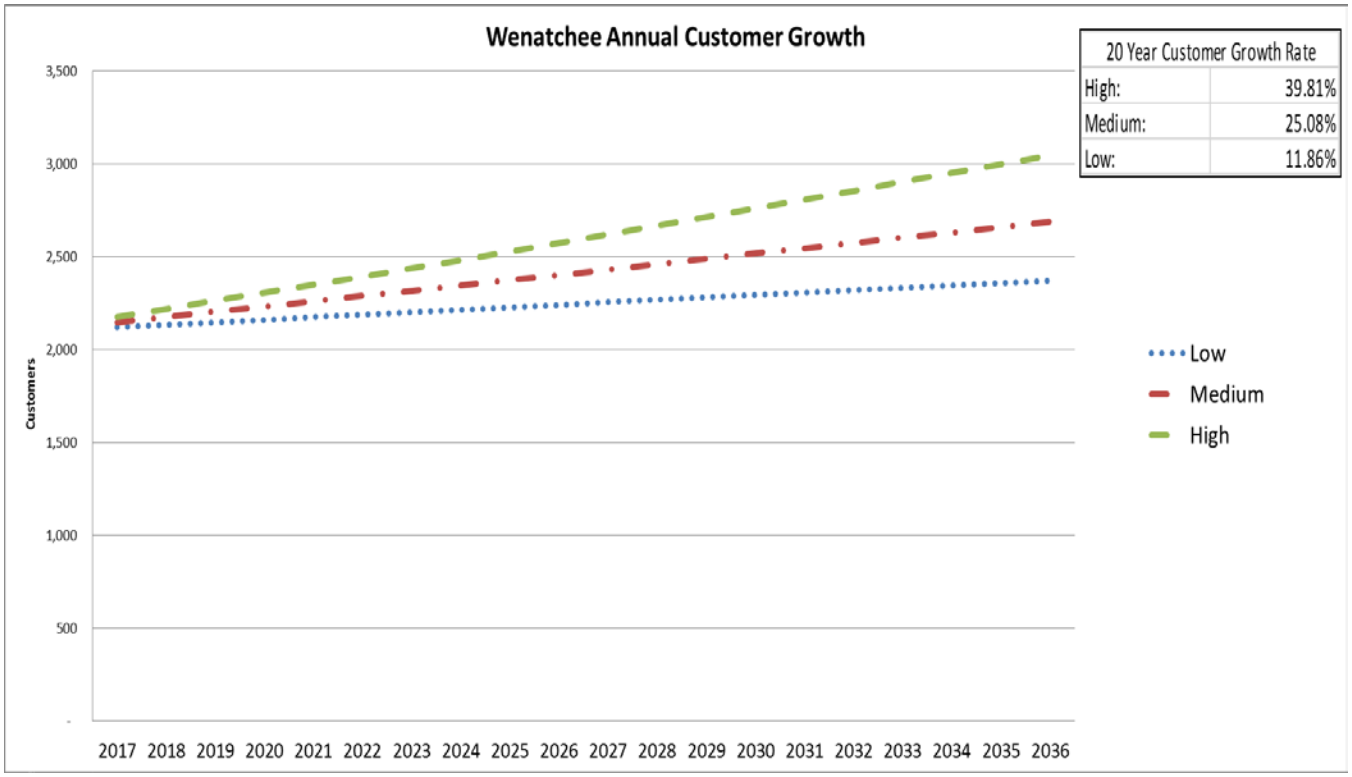
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	2,966,851	1,625,056	4,591,907	3,016,419	1,652,803	4,669,222	3,066,407	1,680,789	4,747,196	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,989,380	1,637,606	4,626,985	3,062,245	1,678,337	4,740,582	3,136,309	1,719,749	4,856,059	0.76%	0.77%	0.76%	1.52%	1.54%	1.53%	2.28%	2.32%	2.29%
2019	3,011,251	1,649,767	4,661,018	3,107,074	1,703,275	4,810,348	3,205,209	1,758,092	4,963,300	0.73%	0.74%	0.74%	1.46%	1.49%	1.47%	2.20%	2.23%	2.21%
2020	3,050,721	1,661,732	4,712,453	3,170,207	1,727,992	4,898,199	3,293,476	1,796,379	5,089,854	1.31%	0.73%	1.10%	2.03%	1.45%	1.83%	2.75%	2.18%	2.55%
2021	3,053,820	1,673,388	4,727,207	3,195,279	1,752,244	4,947,523	3,342,250	1,834,215	5,176,465	0.10%	0.70%	0.31%	0.79%	1.40%	1.01%	1.48%	2.11%	1.70%
2022	3,074,720	1,684,966	4,759,687	3,239,046	1,776,508	5,015,554	3,410,965	1,872,335	5,283,300	0.68%	0.69%	0.69%	1.37%	1.38%	1.38%	2.06%	2.08%	2.06%
2023	3,095,595	1,696,526	4,792,121	3,283,061	1,800,899	5,083,960	3,480,545	1,910,922	5,391,467	0.68%	0.69%	0.68%	1.36%	1.37%	1.36%	2.04%	2.06%	2.05%
2024	3,134,643	1,707,931	4,842,574	3,346,541	1,825,132	5,171,674	3,571,277	1,949,521	5,520,799	1.26%	0.67%	1.05%	1.93%	1.35%	1.73%	2.61%	2.02%	2.40%
2025	3,136,851	1,719,346	4,856,197	3,370,937	1,849,550	5,220,487	3,620,874	1,988,677	5,609,551	0.07%	0.67%	0.28%	0.73%	1.34%	0.94%	1.39%	2.01%	1.61%
2026	3,157,343	1,730,675	4,888,018	3,415,026	1,873,947	5,288,973	3,691,981	2,028,063	5,720,043	0.65%	0.66%	0.66%	1.31%	1.32%	1.31%	1.96%	1.98%	1.97%
2027	3,177,856	1,742,012	4,919,869	3,459,451	1,898,526	5,357,977	3,764,102	2,068,006	5,832,108	0.65%	0.66%	0.65%	1.30%	1.31%	1.30%	1.95%	1.97%	1.96%
2028	3,217,100	1,753,236	4,970,336	3,524,524	1,923,019	5,447,543	3,859,282	2,108,071	5,967,353	1.23%	0.64%	1.03%	1.88%	1.29%	1.67%	2.53%	1.94%	2.32%
2029	3,218,454	1,764,443	4,982,897	3,548,236	1,947,634	5,495,869	3,909,647	2,148,596	6,058,243	0.04%	0.64%	0.25%	0.67%	1.28%	0.89%	1.31%	1.92%	1.52%
2030	3,238,399	1,775,450	5,013,849	3,592,273	1,971,968	5,564,240	3,982,529	2,188,917	6,171,446	0.62%	0.62%	0.62%	1.24%	1.25%	1.24%	1.86%	1.88%	1.87%
2031	3,258,421	1,786,510	5,044,931	3,636,760	1,996,574	5,633,335	4,056,620	2,229,948	6,286,567	0.62%	0.62%	0.62%	1.24%	1.25%	1.24%	1.86%	1.87%	1.87%
2032	3,297,558	1,797,401	5,094,960	3,702,726	2,020,957	5,723,683	4,155,132	2,270,860	6,425,992	1.20%	0.61%	0.99%	1.81%	1.22%	1.60%	2.43%	1.83%	2.22%
2033	3,297,696	1,808,207	5,105,903	3,724,843	2,045,299	5,770,142	4,204,680	2,311,957	6,516,637	0.00%	0.60%	0.21%	0.60%	1.20%	0.81%	1.19%	1.81%	1.41%
2034	3,316,988	1,818,865	5,135,854	3,768,505	2,069,454	5,837,960	4,278,743	2,352,986	6,631,729	0.59%	0.59%	0.59%	1.17%	1.18%	1.18%	1.76%	1.77%	1.77%
2035	3,336,146	1,829,453	5,165,599	3,812,122	2,093,594	5,905,716	4,353,167	2,394,234	6,747,401	0.58%	0.58%	0.58%	1.16%	1.17%	1.16%	1.74%	1.75%	1.74%
2036	3,374,987	1,839,925	5,214,912	3,878,472	2,117,612	5,996,084	4,454,114	2,435,517	6,889,631	1.16%	0.57%	0.95%	1.74%	1.15%	1.53%	2.32%	1.72%	2.11%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	4,452	43,090	47,543	4,528	43,806	48,334	4,605	44,527	49,132	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	4,487	43,415	47,902	4,598	44,467	49,065	4,712	45,536	50,247	0.77%	0.75%	0.76%	1.54%	1.51%	1.51%	2.32%	2.26%	2.27%
2019	4,520	43,731	48,251	4,667	45,114	49,780	4,817	46,529	51,346	0.74%	0.73%	0.73%	1.49%	1.45%	1.46%	2.23%	2.18%	2.19%
2020	4,553	44,041	48,594	4,734	45,755	50,489	4,922	47,522	52,443	0.73%	0.71%	0.71%	1.45%	1.42%	1.42%	2.18%	2.13%	2.14%
2021	4,585	44,344	48,929	4,801	46,384	51,185	5,025	48,504	53,529	0.70%	0.69%	0.69%	1.40%	1.38%	1.38%	2.11%	2.07%	2.07%
2022	4,616	44,645	49,262	4,867	47,015	51,882	5,130	49,493	54,623	0.69%	0.68%	0.68%	1.38%	1.36%	1.36%	2.08%	2.04%	2.04%
2023	4,648	44,946	49,594	4,934	47,648	52,582	5,235	50,494	55,729	0.69%	0.67%	0.67%	1.37%	1.35%	1.35%	2.06%	2.02%	2.03%
2024	4,679	45,243	49,922	5,000	48,278	53,278	5,341	51,496	56,837	0.67%	0.66%	0.66%	1.35%	1.32%	1.32%	2.02%	1.98%	1.99%
2025	4,711	45,539	50,250	5,067	48,912	53,979	5,448	52,511	57,960	0.67%	0.66%	0.66%	1.34%	1.31%	1.32%	2.01%	1.97%	1.98%
2026	4,742	45,834	50,576	5,134	49,546	54,680	5,556	53,533	59,089	0.66%	0.65%	0.65%	1.32%	1.30%	1.30%	1.98%	1.95%	1.95%
2027	4,773	46,129	50,902	5,201	50,184	55,386	5,666	54,569	60,235	0.66%	0.64%	0.64%	1.31%	1.29%	1.29%	1.97%	1.94%	1.94%
2028	4,803	46,421	51,224	5,269	50,820	56,089	5,776	55,608	61,384	0.64%	0.63%	0.63%	1.29%	1.27%	1.27%	1.94%	1.90%	1.91%
2029	4,834	46,713	51,547	5,336	51,460	56,796	5,887	56,659	62,545	0.64%	0.63%	0.63%	1.28%	1.26%	1.26%	1.92%	1.89%	1.89%
2030	4,864	46,999	51,863	5,403	52,092	57,494	5,997	57,705	63,702	0.62%	0.61%	0.61%	1.25%	1.23%	1.23%	1.88%	1.85%	1.85%
2031	4,895	47,287	52,181	5,470	52,731	58,201	6,109	58,768	64,877	0.62%	0.61%	0.61%	1.25%	1.23%	1.23%	1.87%	1.84%	1.85%
2032	4,924	47,570	52,494	5,537	53,364	58,900	6,222	59,828	66,049	0.61%	0.60%	0.60%	1.22%	1.20%	1.20%	1.83%	1.80%	1.81%
2033	4,954	47,851	52,805	5,604	53,995	59,599	6,334	60,892	67,226	0.60%	0.59%	0.59%	1.20%	1.18%	1.19%	1.81%	1.78%	1.78%
2034	4,983	48,128	53,111	5,670	54,622	60,292	6,447	61,955	68,401	0.59%	0.58%	0.58%	1.18%	1.16%	1.16%	1.77%	1.74%	1.75%
2035	5,012	48,403	53,416	5,736	55,248	60,984	6,560	63,022	69,582	0.58%	0.57%	0.57%	1.17%	1.15%	1.15%	1.75%	1.72%	1.73%
2036	5,041	48,676	53,717	5,802	55,871	61,673	6,673	64,090	70,763	0.57%	0.56%	0.56%	1.15%	1.13%	1.13%	1.72%	1.69%	1.70%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	621,838	3,970,069	4,591,907	628,951	4,040,270	4,669,222	636,105	4,111,091	4,747,196	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	625,400	4,001,586	4,626,985	636,156	4,104,426	4,740,582	647,035	4,209,024	4,856,059	0.57%	0.79%	0.76%	1.15%	1.59%	1.53%	1.72%	2.38%	2.29%
2019	628,975	4,032,043	4,661,018	643,430	4,166,918	4,810,348	658,132	4,305,168	4,963,300	0.57%	0.76%	0.74%	1.14%	1.52%	1.47%	1.72%	2.28%	2.21%
2020	635,486	4,076,967	4,712,453	653,776	4,244,423	4,898,199	672,485	4,417,369	5,089,854	1.04%	1.11%	1.10%	1.61%	1.86%	1.83%	2.18%	2.61%	2.55%
2021	636,156	4,091,051	4,727,207	658,164	4,289,359	4,947,523	680,802	4,495,662	5,176,465	0.11%	0.35%	0.31%	0.67%	1.06%	1.01%	1.24%	1.77%	1.70%
2022	639,764	4,119,923	4,759,687	665,629	4,349,925	5,015,554	692,385	4,590,915	5,283,300	0.57%	0.71%	0.69%	1.13%	1.41%	1.38%	1.70%	2.12%	2.06%
2023	643,380	4,148,741	4,792,121	673,153	4,410,807	5,083,960	704,125	4,687,342	5,391,467	0.57%	0.70%	0.68%	1.13%	1.40%	1.36%	1.70%	2.10%	2.05%
2024	649,992	4,192,582	4,842,574	683,877	4,487,797	5,171,674	719,323	4,801,475	5,520,799	1.03%	1.06%	1.05%	1.59%	1.75%	1.73%	2.16%	2.43%	2.40%
2025	650,621	4,205,575	4,856,197	688,349	4,532,138	5,220,487	728,035	4,881,516	5,609,551	0.10%	0.31%	0.28%	0.65%	0.99%	0.94%	1.21%	1.67%	1.61%
2026	654,237	4,233,780	4,888,018	696,001	4,592,972	5,288,973	740,173	4,979,870	5,720,043	0.56%	0.67%	0.66%	1.11%	1.34%	1.31%	1.67%	2.01%	1.97%
2027	657,851	4,262,018	4,919,869	703,689	4,654,288	5,357,977	752,438	5,079,670	5,832,108	0.55%	0.67%	0.65%	1.10%	1.33%	1.30%	1.66%	2.00%	1.96%
2028	664,505	4,305,831	4,970,336	714,672	4,732,871	5,447,543	768,314	5,199,038	5,967,353	1.01%	1.03%	1.03%	1.56%	1.69%	1.67%	2.11%	2.35%	2.32%
2029	665,037	4,317,860	4,982,897	719,104	4,776,766	5,495,869	777,229	5,281,014	6,058,243	0.08%	0.28%	0.25%	0.62%	0.93%	0.89%	1.16%	1.58%	1.52%
2030	668,609	4,345,239	5,013,849	726,830	4,837,411	5,564,240	789,754	5,381,692	6,171,446	0.54%	0.63%	0.62%	1.07%	1.27%	1.24%	1.61%	1.91%	1.87%
2031	672,136	4,372,795	5,044,931	734,497	4,898,838	5,633,335	802,251	5,484,316	6,286,567	0.53%	0.63%	0.62%	1.05%	1.27%	1.24%	1.58%	1.91%	1.87%
2032	678,731	4,416,229	5,094,960	745,515	4,978,168	5,723,683	818,448	5,607,543	6,425,992	0.98%	0.99%	0.99%	1.50%	1.62%	1.60%	2.02%	2.25%	2.22%
2033	679,028	4,426,876	5,105,903	749,598	5,020,544	5,770,142	827,054	5,689,583	6,516,637	0.04%	0.24%	0.21%	0.55%	0.85%	0.81%	1.05%	1.46%	1.41%
2034	682,399	4,453,454	5,135,854	757,042	5,080,918	5,837,960	839,374	5,792,354	6,631,729	0.50%	0.60%	0.59%	0.99%	1.20%	1.18%	1.49%	1.81%	1.77%
2035	685,721	4,479,878	5,165,599	764,411	5,141,305	5,905,716	851,631	5,895,770	6,747,401	0.49%	0.59%	0.58%	0.97%	1.19%	1.16%	1.46%	1.79%	1.74%
2036	692,183	4,522,729	5,214,912	775,285	5,220,799	5,996,084	867,833	6,021,797	6,889,631	0.94%	0.96%	0.95%	1.42%	1.55%	1.53%	1.90%	2.14%	2.11%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,403	716	2,120	1,419	729	2,149	1,435	743	2,178	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,411	722	2,134	1,436	741	2,177	1,460	761	2,221	0.57%	0.81%	0.65%	1.15%	1.63%	1.31%	1.72%	2.44%	1.97%
2019	1,419	728	2,147	1,452	753	2,205	1,485	778	2,264	0.57%	0.78%	0.64%	1.14%	1.56%	1.29%	1.72%	2.34%	1.93%
2020	1,427	733	2,161	1,469	764	2,233	1,511	796	2,307	0.57%	0.76%	0.64%	1.14%	1.53%	1.27%	1.71%	2.29%	1.91%
2021	1,436	739	2,174	1,485	776	2,261	1,536	814	2,350	0.57%	0.74%	0.63%	1.14%	1.47%	1.25%	1.70%	2.21%	1.88%
2022	1,444	744	2,188	1,502	787	2,289	1,562	832	2,394	0.57%	0.73%	0.62%	1.13%	1.45%	1.24%	1.70%	2.18%	1.87%
2023	1,452	750	2,201	1,519	798	2,317	1,589	850	2,439	0.57%	0.72%	0.62%	1.13%	1.44%	1.24%	1.70%	2.16%	1.86%
2024	1,460	755	2,215	1,536	809	2,346	1,616	868	2,483	0.56%	0.71%	0.61%	1.13%	1.41%	1.22%	1.69%	2.12%	1.84%
2025	1,468	760	2,228	1,553	821	2,374	1,643	886	2,529	0.56%	0.70%	0.61%	1.12%	1.40%	1.22%	1.68%	2.11%	1.83%
2026	1,476	765	2,242	1,571	832	2,403	1,670	904	2,575	0.56%	0.69%	0.60%	1.11%	1.38%	1.21%	1.67%	2.08%	1.81%
2027	1,485	771	2,255	1,588	844	2,432	1,698	923	2,621	0.55%	0.69%	0.60%	1.10%	1.38%	1.20%	1.66%	2.07%	1.80%
2028	1,493	776	2,269	1,605	855	2,460	1,726	942	2,668	0.55%	0.68%	0.59%	1.09%	1.35%	1.18%	1.64%	2.03%	1.78%
2029	1,501	781	2,282	1,623	867	2,489	1,754	961	2,715	0.54%	0.67%	0.59%	1.09%	1.34%	1.18%	1.63%	2.02%	1.77%
2030	1,509	786	2,295	1,640	878	2,518	1,782	980	2,762	0.54%	0.66%	0.58%	1.07%	1.31%	1.16%	1.61%	1.97%	1.74%
2031	1,517	791	2,308	1,658	889	2,547	1,810	999	2,809	0.53%	0.66%	0.57%	1.05%	1.31%	1.14%	1.58%	1.97%	1.72%
2032	1,525	796	2,321	1,675	901	2,576	1,838	1,018	2,857	0.52%	0.64%	0.56%	1.03%	1.28%	1.12%	1.55%	1.92%	1.68%
2033	1,532	801	2,334	1,692	912	2,604	1,866	1,037	2,904	0.51%	0.63%	0.55%	1.01%	1.27%	1.10%	1.52%	1.90%	1.65%
2034	1,540	806	2,346	1,708	924	2,632	1,894	1,057	2,951	0.50%	0.62%	0.54%	0.99%	1.24%	1.08%	1.49%	1.86%	1.62%
2035	1,547	811	2,359	1,725	935	2,660	1,922	1,076	2,998	0.49%	0.61%	0.53%	0.97%	1.23%	1.06%	1.46%	1.84%	1.60%
2036	1,555	816	2,371	1,742	946	2,688	1,949	1,096	3,045	0.48%	0.60%	0.52%	0.96%	1.21%	1.04%	1.43%	1.81%	1.57%





20 Year Customer Growth Rate	
High:	39.81%
Medium:	25.08%
Low:	11.86%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

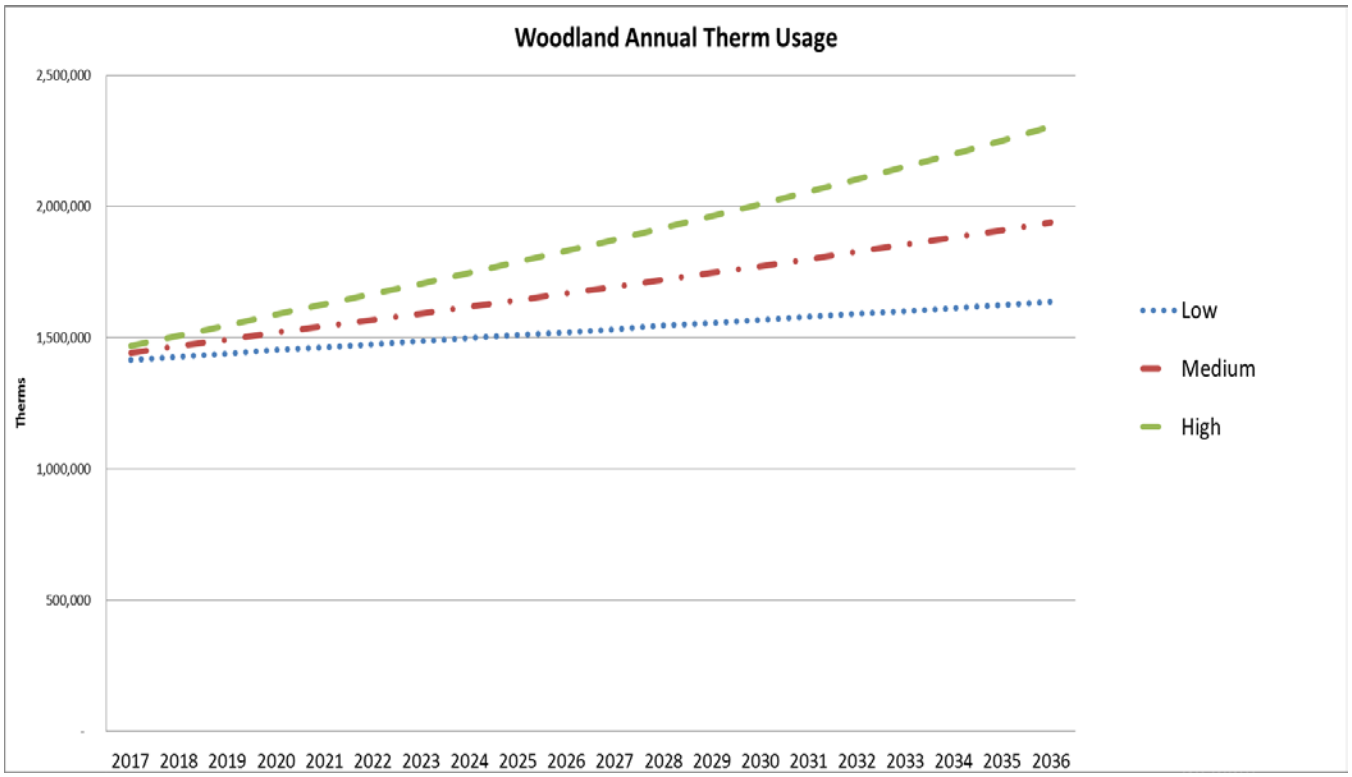
Woodland

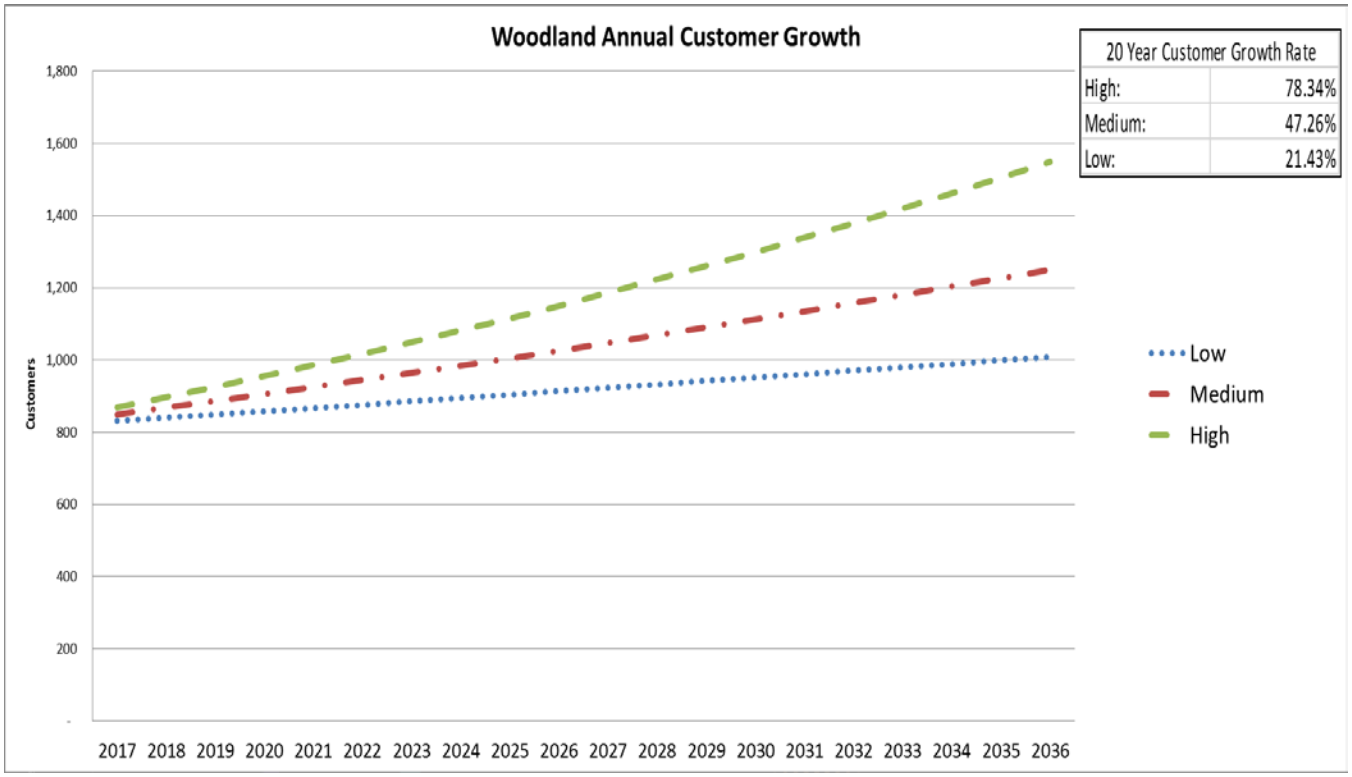
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	1,002,513	412,620	1,415,133	1,023,254	419,249	1,442,503	1,044,218	425,940	1,470,158	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,012,147	415,534	1,427,681	1,042,945	425,191	1,468,136	1,074,396	435,026	1,509,422	0.96%	0.71%	0.89%	1.92%	1.42%	1.78%	2.89%	2.13%	2.67%
2019	1,021,592	418,297	1,439,889	1,062,450	430,879	1,493,329	1,104,596	443,805	1,548,401	0.93%	0.66%	0.86%	1.87%	1.34%	1.72%	2.81%	2.02%	2.58%
2020	1,032,240	420,949	1,453,189	1,083,246	436,391	1,519,637	1,136,385	452,393	1,588,778	1.04%	0.63%	0.92%	1.96%	1.28%	1.76%	2.88%	1.94%	2.61%
2021	1,040,134	423,499	1,463,633	1,101,329	441,742	1,543,072	1,165,712	460,815	1,626,527	0.76%	0.61%	0.72%	1.67%	1.23%	1.54%	2.58%	1.86%	2.38%
2022	1,049,326	425,986	1,475,313	1,120,899	447,015	1,567,914	1,196,939	469,192	1,666,131	0.88%	0.59%	0.80%	1.78%	1.19%	1.61%	2.68%	1.82%	2.43%
2023	1,058,484	428,411	1,486,895	1,140,590	452,206	1,592,796	1,228,674	477,524	1,706,198	0.87%	0.57%	0.79%	1.76%	1.16%	1.59%	2.65%	1.78%	2.40%
2024	1,068,993	430,801	1,499,794	1,161,883	457,373	1,619,256	1,262,505	485,902	1,748,406	0.99%	0.56%	0.87%	1.87%	1.14%	1.66%	2.75%	1.75%	2.47%
2025	1,076,819	433,147	1,509,966	1,180,611	462,502	1,643,113	1,294,136	494,302	1,788,438	0.73%	0.54%	0.68%	1.61%	1.12%	1.47%	2.51%	1.73%	2.29%
2026	1,085,989	435,467	1,521,456	1,200,927	467,623	1,668,550	1,327,862	502,777	1,830,638	0.85%	0.54%	0.76%	1.72%	1.11%	1.55%	2.61%	1.71%	2.36%
2027	1,095,194	437,771	1,532,966	1,221,523	472,764	1,694,287	1,362,387	511,370	1,873,757	0.85%	0.53%	0.76%	1.72%	1.10%	1.54%	2.60%	1.71%	2.36%
2028	1,105,754	440,056	1,545,810	1,243,733	477,914	1,721,646	1,399,065	520,068	1,919,134	0.96%	0.52%	0.84%	1.82%	1.09%	1.61%	2.69%	1.70%	2.42%
2029	1,113,662	442,326	1,555,988	1,263,458	483,085	1,746,543	1,433,719	528,893	1,962,612	0.72%	0.52%	0.66%	1.59%	1.08%	1.45%	2.48%	1.70%	2.27%
2030	1,122,931	444,582	1,567,513	1,284,816	488,279	1,773,095	1,470,579	537,849	2,008,428	0.83%	0.51%	0.74%	1.69%	1.08%	1.52%	2.57%	1.69%	2.33%
2031	1,132,209	446,812	1,579,020	1,306,437	493,514	1,799,951	1,508,269	546,990	2,055,258	0.83%	0.50%	0.73%	1.68%	1.07%	1.51%	2.56%	1.70%	2.33%
2032	1,142,785	448,968	1,591,753	1,329,637	498,755	1,828,392	1,548,132	556,291	2,104,423	0.93%	0.48%	0.81%	1.78%	1.06%	1.58%	2.64%	1.70%	2.39%
2033	1,150,688	451,105	1,601,793	1,350,335	504,044	1,854,379	1,585,985	565,787	2,151,772	0.69%	0.48%	0.63%	1.56%	1.06%	1.42%	2.45%	1.71%	2.25%
2034	1,159,898	453,181	1,613,079	1,372,617	509,347	1,881,964	1,626,032	575,452	2,201,484	0.80%	0.46%	0.70%	1.65%	1.05%	1.49%	2.53%	1.71%	2.31%
2035	1,169,102	455,207	1,624,309	1,395,169	514,683	1,909,852	1,666,972	585,319	2,252,291	0.79%	0.45%	0.70%	1.64%	1.05%	1.48%	2.52%	1.71%	2.31%
2036	1,179,640	457,211	1,636,851	1,419,335	520,062	1,939,397	1,710,160	595,379	2,305,538	0.90%	0.44%	0.77%	1.73%	1.05%	1.55%	2.59%	1.72%	2.36%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	1,130	15,052	16,183	1,149	15,369	16,518	1,167	15,689	16,856	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,138	15,200	16,338	1,165	15,670	16,835	1,192	16,151	17,343	0.71%	0.98%	0.96%	1.42%	1.96%	1.92%	2.13%	2.94%	2.89%
2019	1,146	15,345	16,491	1,180	15,969	17,150	1,216	16,614	17,830	0.66%	0.95%	0.93%	1.34%	1.91%	1.87%	2.02%	2.87%	2.81%
2020	1,153	15,488	16,641	1,196	16,268	17,463	1,239	17,081	18,320	0.63%	0.93%	0.91%	1.28%	1.87%	1.83%	1.94%	2.81%	2.75%
2021	1,160	15,629	16,790	1,210	16,567	17,777	1,263	17,553	18,816	0.61%	0.92%	0.89%	1.23%	1.84%	1.79%	1.86%	2.76%	2.70%
2022	1,167	15,771	16,938	1,225	16,868	18,092	1,285	18,034	19,319	0.59%	0.90%	0.88%	1.19%	1.82%	1.78%	1.82%	2.74%	2.68%
2023	1,174	15,912	17,086	1,239	17,171	18,410	1,308	18,522	19,831	0.57%	0.89%	0.87%	1.16%	1.80%	1.75%	1.78%	2.71%	2.65%
2024	1,180	16,053	17,233	1,253	17,478	18,731	1,331	19,022	20,354	0.56%	0.89%	0.87%	1.14%	1.79%	1.74%	1.75%	2.70%	2.64%
2025	1,187	16,194	17,381	1,267	17,788	19,055	1,354	19,532	20,886	0.54%	0.88%	0.86%	1.12%	1.77%	1.73%	1.73%	2.68%	2.62%
2026	1,193	16,336	17,529	1,281	18,102	19,383	1,377	20,052	21,430	0.54%	0.87%	0.85%	1.11%	1.76%	1.72%	1.71%	2.66%	2.60%
2027	1,199	16,478	17,677	1,295	18,420	19,715	1,401	20,585	21,986	0.53%	0.87%	0.85%	1.10%	1.76%	1.71%	1.71%	2.66%	2.60%
2028	1,206	16,620	17,826	1,309	18,741	20,051	1,425	21,130	22,555	0.52%	0.86%	0.84%	1.09%	1.75%	1.70%	1.70%	2.65%	2.59%
2029	1,212	16,763	17,975	1,324	19,067	20,391	1,449	21,687	23,136	0.52%	0.86%	0.84%	1.08%	1.74%	1.70%	1.70%	2.64%	2.58%
2030	1,218	16,907	18,125	1,338	19,397	20,735	1,474	22,257	23,730	0.51%	0.85%	0.83%	1.08%	1.73%	1.69%	1.69%	2.63%	2.57%
2031	1,224	17,050	18,274	1,352	19,732	21,084	1,499	22,839	24,338	0.50%	0.85%	0.83%	1.07%	1.72%	1.68%	1.70%	2.62%	2.56%
2032	1,230	17,193	18,423	1,366	20,069	21,435	1,524	23,434	24,958	0.48%	0.84%	0.81%	1.06%	1.71%	1.67%	1.70%	2.60%	2.55%
2033	1,236	17,336	18,572	1,381	20,410	21,791	1,550	24,041	25,591	0.48%	0.83%	0.81%	1.06%	1.70%	1.66%	1.71%	2.59%	2.54%
2034	1,242	17,479	18,721	1,395	20,755	22,151	1,577	24,660	26,236	0.46%	0.82%	0.80%	1.05%	1.69%	1.65%	1.71%	2.58%	2.52%
2035	1,247	17,622	18,869	1,410	21,104	22,514	1,604	25,293	26,896	0.45%	0.82%	0.79%	1.05%	1.68%	1.64%	1.71%	2.57%	2.52%
2036	1,253	17,765	19,017	1,425	21,457	22,882	1,631	25,938	27,570	0.44%	0.81%	0.79%	1.05%	1.67%	1.63%	1.72%	2.55%	2.50%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	364,514	1,050,619	1,415,133	372,676	1,069,828	1,442,503	380,928	1,089,230	1,470,158	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	368,607	1,059,074	1,427,681	381,046	1,087,090	1,468,136	393,762	1,115,660	1,509,422	1.12%	0.80%	0.89%	2.25%	1.61%	1.78%	3.37%	2.43%	2.67%
2019	372,740	1,067,149	1,439,889	389,590	1,103,739	1,493,329	407,005	1,141,396	1,548,401	1.12%	0.76%	0.86%	2.24%	1.53%	1.72%	3.36%	2.31%	2.58%
2020	376,933	1,076,256	1,453,189	398,330	1,121,306	1,519,637	420,688	1,168,089	1,588,778	1.13%	0.85%	0.92%	2.24%	1.59%	1.76%	3.36%	2.34%	2.61%
2021	381,113	1,082,519	1,463,633	407,191	1,135,880	1,543,072	434,740	1,191,787	1,626,527	1.11%	0.58%	0.72%	2.22%	1.30%	1.54%	3.34%	2.03%	2.38%
2022	385,355	1,089,958	1,475,313	416,255	1,151,659	1,567,914	449,255	1,216,876	1,666,131	1.11%	0.69%	0.80%	2.23%	1.39%	1.61%	3.34%	2.11%	2.43%
2023	389,630	1,097,265	1,486,895	425,492	1,167,305	1,592,796	464,208	1,241,990	1,706,198	1.11%	0.67%	0.79%	2.22%	1.36%	1.59%	3.33%	2.06%	2.40%
2024	393,968	1,105,826	1,499,794	434,937	1,184,320	1,619,256	479,650	1,268,756	1,748,406	1.11%	0.78%	0.87%	2.22%	1.46%	1.66%	3.33%	2.16%	2.47%
2025	398,283	1,111,683	1,509,966	444,493	1,198,619	1,643,113	495,474	1,292,964	1,788,438	1.10%	0.53%	0.68%	2.20%	1.21%	1.47%	3.30%	1.91%	2.29%
2026	402,651	1,118,804	1,521,456	454,244	1,214,307	1,668,550	511,777	1,318,861	1,830,638	1.10%	0.64%	0.76%	2.19%	1.31%	1.55%	3.29%	2.00%	2.36%
2027	407,046	1,125,920	1,532,966	464,159	1,230,128	1,694,287	528,535	1,345,222	1,873,757	1.09%	0.64%	0.76%	2.18%	1.30%	1.54%	3.27%	2.00%	2.36%
2028	411,491	1,134,319	1,545,810	474,265	1,247,381	1,721,646	545,779	1,373,355	1,919,134	1.09%	0.75%	0.84%	2.18%	1.40%	1.61%	3.26%	2.09%	2.42%
2029	415,906	1,140,082	1,555,988	484,475	1,262,068	1,746,543	563,421	1,399,191	1,962,612	1.07%	0.51%	0.66%	2.15%	1.18%	1.45%	3.23%	1.88%	2.27%
2030	420,372	1,147,141	1,567,513	494,879	1,278,216	1,773,095	581,569	1,426,859	2,008,428	1.07%	0.62%	0.74%	2.15%	1.28%	1.52%	3.22%	1.98%	2.33%
2031	424,835	1,154,185	1,579,020	505,387	1,294,564	1,799,951	600,093	1,455,165	2,055,258	1.06%	0.61%	0.73%	2.12%	1.28%	1.51%	3.19%	1.98%	2.33%
2032	429,323	1,162,430	1,591,753	516,031	1,312,361	1,828,392	619,031	1,485,392	2,104,423	1.06%	0.71%	0.81%	2.11%	1.37%	1.58%	3.16%	2.08%	2.39%
2033	433,753	1,168,040	1,601,793	526,716	1,327,664	1,854,379	638,277	1,513,496	2,151,772	1.03%	0.48%	0.63%	2.07%	1.17%	1.42%	3.11%	1.89%	2.25%
2034	438,209	1,174,870	1,613,079	537,536	1,344,428	1,881,964	657,946	1,543,539	2,201,484	1.03%	0.58%	0.70%	2.05%	1.26%	1.49%	3.08%	1.99%	2.31%
2035	442,662	1,181,648	1,624,309	548,461	1,361,391	1,909,852	678,003	1,574,288	2,252,291	1.02%	0.58%	0.70%	2.03%	1.26%	1.48%	3.05%	1.99%	2.31%
2036	447,143	1,189,708	1,636,851	559,531	1,379,867	1,939,397	698,508	1,607,031	2,305,538	1.01%	0.68%	0.77%	2.02%	1.36%	1.55%	3.02%	2.08%	2.36%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	615	215	831	629	220	849	643	225	868	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	622	218	840	643	225	868	665	232	896	1.12%	0.99%	1.09%	2.25%	1.98%	2.18%	3.37%	2.98%	3.27%
2019	629	220	849	658	229	886	687	238	925	1.12%	0.96%	1.08%	2.24%	1.91%	2.16%	3.36%	2.87%	3.24%
2020	636	222	858	672	233	905	710	245	955	1.12%	0.93%	1.07%	2.24%	1.86%	2.14%	3.36%	2.80%	3.21%
2021	643	224	867	687	237	925	734	252	985	1.12%	0.91%	1.06%	2.23%	1.82%	2.13%	3.35%	2.73%	3.19%
2022	650	226	876	703	242	944	758	258	1,017	1.11%	0.90%	1.06%	2.23%	1.80%	2.12%	3.34%	2.70%	3.18%
2023	658	228	885	718	246	964	783	265	1,049	1.11%	0.88%	1.05%	2.22%	1.77%	2.10%	3.33%	2.66%	3.16%
2024	665	230	895	734	250	984	809	272	1,082	1.11%	0.88%	1.05%	2.21%	1.76%	2.10%	3.32%	2.65%	3.15%
2025	672	232	904	750	255	1,005	836	280	1,116	1.10%	0.87%	1.04%	2.20%	1.74%	2.09%	3.31%	2.62%	3.13%
2026	680	234	913	767	259	1,026	864	287	1,151	1.10%	0.86%	1.04%	2.19%	1.73%	2.08%	3.29%	2.60%	3.12%
2027	687	236	923	783	263	1,047	892	294	1,186	1.09%	0.86%	1.03%	2.18%	1.72%	2.07%	3.27%	2.60%	3.11%
2028	694	238	932	800	268	1,068	921	302	1,223	1.09%	0.85%	1.03%	2.17%	1.71%	2.06%	3.26%	2.58%	3.09%
2029	702	240	942	818	273	1,090	951	310	1,261	1.08%	0.85%	1.02%	2.16%	1.71%	2.05%	3.24%	2.57%	3.07%
2030	709	242	951	835	277	1,112	982	318	1,299	1.07%	0.84%	1.02%	2.15%	1.70%	2.03%	3.22%	2.56%	3.06%
2031	717	244	961	853	282	1,135	1,013	326	1,339	1.06%	0.84%	1.01%	2.12%	1.69%	2.02%	3.19%	2.56%	3.03%
2032	725	246	970	871	287	1,158	1,045	334	1,379	1.05%	0.83%	1.00%	2.10%	1.68%	2.00%	3.15%	2.54%	3.00%
2033	732	248	980	889	291	1,180	1,077	342	1,420	1.04%	0.83%	0.99%	2.08%	1.68%	1.98%	3.12%	2.54%	2.98%
2034	740	250	990	907	296	1,204	1,110	351	1,462	1.03%	0.82%	0.98%	2.05%	1.67%	1.96%	3.08%	2.52%	2.95%
2035	747	252	999	926	301	1,227	1,144	360	1,504	1.02%	0.82%	0.97%	2.03%	1.67%	1.94%	3.05%	2.52%	2.92%
2036	755	254	1,009	944	306	1,251	1,179	369	1,548	1.01%	0.82%	0.96%	2.01%	1.66%	1.92%	3.02%	2.51%	2.90%





20 Year Customer Growth Rate	
High:	78.34%
Medium:	47.26%
Low:	21.43%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Yakima Chief Ranch

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	423	-	423	426	-	426	429	-	429
2018	424	-	424	429	-	429	433	-	433
2019	426	-	426	431	-	431	437	-	437
2020	430	-	430	437	-	437	444	-	444
2021	429	-	429	437	-	437	446	-	446
2022	430	-	430	440	-	440	450	-	450
2023	431	-	431	443	-	443	454	-	454
2024	435	-	435	448	-	448	461	-	461
2025	434	-	434	448	-	448	463	-	463
2026	435	-	435	451	-	451	467	-	467
2027	437	-	437	453	-	453	471	-	471
2028	441	-	441	459	-	459	478	-	478
2029	439	-	439	459	-	459	479	-	479
2030	440	-	440	461	-	461	483	-	483
2031	442	-	442	464	-	464	487	-	487
2032	446	-	446	469	-	469	494	-	494
2033	444	-	444	469	-	469	495	-	495
2034	445	-	445	471	-	471	498	-	498
2035	446	-	446	473	-	473	501	-	501
2036	450	-	450	478	-	478	508	-	508

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.33%	0.00%	0.33%	0.66%	0.00%	0.66%	0.98%	0.00%	0.98%
2019	0.33%	0.00%	0.33%	0.65%	0.00%	0.65%	0.98%	0.00%	0.98%
2020	0.98%	0.00%	0.98%	1.31%	0.00%	1.31%	1.63%	0.00%	1.63%
2021	-0.33%	0.00%	-0.33%	-0.01%	0.00%	-0.01%	0.30%	0.00%	0.30%
2022	0.32%	0.00%	0.32%	0.64%	0.00%	0.64%	0.96%	0.00%	0.96%
2023	0.32%	0.00%	0.32%	0.63%	0.00%	0.63%	0.95%	0.00%	0.95%
2024	0.97%	0.00%	0.97%	1.29%	0.00%	1.29%	1.60%	0.00%	1.60%
2025	-0.35%	0.00%	-0.35%	-0.04%	0.00%	-0.04%	0.27%	0.00%	0.27%
2026	0.30%	0.00%	0.30%	0.61%	0.00%	0.61%	0.91%	0.00%	0.91%
2027	0.30%	0.00%	0.30%	0.60%	0.00%	0.60%	0.90%	0.00%	0.90%
2028	0.95%	0.00%	0.95%	1.25%	0.00%	1.25%	1.54%	0.00%	1.54%
2029	-0.37%	0.00%	-0.37%	-0.08%	0.00%	-0.08%	0.20%	0.00%	0.20%
2030	0.28%	0.00%	0.28%	0.56%	0.00%	0.56%	0.84%	0.00%	0.84%
2031	0.27%	0.00%	0.27%	0.54%	0.00%	0.54%	0.81%	0.00%	0.81%
2032	0.92%	0.00%	0.92%	1.18%	0.00%	1.18%	1.44%	0.00%	1.44%
2033	-0.41%	0.00%	-0.41%	-0.16%	0.00%	-0.16%	0.09%	0.00%	0.09%
2034	0.24%	0.00%	0.24%	0.47%	0.00%	0.47%	0.71%	0.00%	0.71%
2035	0.23%	0.00%	0.23%	0.45%	0.00%	0.45%	0.68%	0.00%	0.68%
2036	0.87%	0.00%	0.87%	1.09%	0.00%	1.09%	1.31%	0.00%	1.31%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	-	6	6	-	6	6	-	6	6
2018	-	6	6	-	6	6	-	6	6
2019	-	6	6	-	6	6	-	6	6
2020	-	6	6	-	6	6	-	6	6
2021	-	6	6	-	6	6	-	6	6
2022	-	6	6	-	6	6	-	6	6
2023	-	6	6	-	6	6	-	6	6
2024	-	6	6	-	6	6	-	6	6
2025	-	6	6	-	6	6	-	6	6
2026	-	6	6	-	6	6	-	6	6
2027	-	6	6	-	6	6	-	7	7
2028	-	6	6	-	6	6	-	7	7
2029	-	6	6	-	6	6	-	7	7
2030	-	6	6	-	6	6	-	7	7
2031	-	6	6	-	6	6	-	7	7
2032	-	6	6	-	6	6	-	7	7
2033	-	6	6	-	6	6	-	7	7
2034	-	6	6	-	7	7	-	7	7
2035	-	6	6	-	7	7	-	7	7
2036	-	6	6	-	7	7	-	7	7

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.00%	0.33%	0.33%	0.00%	0.66%	0.66%	0.00%	0.98%	0.98%
2019	0.00%	0.33%	0.33%	0.00%	0.65%	0.65%	0.00%	0.98%	0.98%
2020	0.00%	0.32%	0.32%	0.00%	0.65%	0.65%	0.00%	0.97%	0.97%
2021	0.00%	0.32%	0.32%	0.00%	0.64%	0.64%	0.00%	0.96%	0.96%
2022	0.00%	0.32%	0.32%	0.00%	0.64%	0.64%	0.00%	0.96%	0.96%
2023	0.00%	0.32%	0.32%	0.00%	0.63%	0.63%	0.00%	0.95%	0.95%
2024	0.00%	0.31%	0.31%	0.00%	0.63%	0.63%	0.00%	0.94%	0.94%
2025	0.00%	0.31%	0.31%	0.00%	0.62%	0.62%	0.00%	0.92%	0.92%
2026	0.00%	0.30%	0.30%	0.00%	0.61%	0.61%	0.00%	0.91%	0.91%
2027	0.00%	0.30%	0.30%	0.00%	0.60%	0.60%	0.00%	0.90%	0.90%
2028	0.00%	0.29%	0.29%	0.00%	0.59%	0.59%	0.00%	0.88%	0.88%
2029	0.00%	0.29%	0.29%	0.00%	0.57%	0.57%	0.00%	0.86%	0.86%
2030	0.00%	0.28%	0.28%	0.00%	0.56%	0.56%	0.00%	0.84%	0.84%
2031	0.00%	0.27%	0.27%	0.00%	0.54%	0.54%	0.00%	0.81%	0.81%
2032	0.00%	0.26%	0.26%	0.00%	0.52%	0.52%	0.00%	0.78%	0.78%
2033	0.00%	0.25%	0.25%	0.00%	0.49%	0.49%	0.00%	0.74%	0.74%
2034	0.00%	0.24%	0.24%	0.00%	0.47%	0.47%	0.00%	0.71%	0.71%
2035	0.00%	0.23%	0.23%	0.00%	0.45%	0.45%	0.00%	0.68%	0.68%
2036	0.00%	0.22%	0.22%	0.00%	0.43%	0.43%	0.00%	0.65%	0.65%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	423	-	423	426	-	426	429	-	429
2018	424	-	424	429	-	429	433	-	433
2019	426	-	426	431	-	431	437	-	437
2020	430	-	430	437	-	437	444	-	444
2021	429	-	429	437	-	437	446	-	446
2022	430	-	430	440	-	440	450	-	450
2023	431	-	431	443	-	443	454	-	454
2024	435	-	435	448	-	448	461	-	461
2025	434	-	434	448	-	448	463	-	463
2026	435	-	435	451	-	451	467	-	467
2027	437	-	437	453	-	453	471	-	471
2028	441	-	441	459	-	459	478	-	478
2029	439	-	439	459	-	459	479	-	479
2030	440	-	440	461	-	461	483	-	483
2031	442	-	442	464	-	464	487	-	487
2032	446	-	446	469	-	469	494	-	494
2033	444	-	444	469	-	469	495	-	495
2034	445	-	445	471	-	471	498	-	498
2035	446	-	446	473	-	473	501	-	501
2036	450	-	450	478	-	478	508	-	508

Annual Change

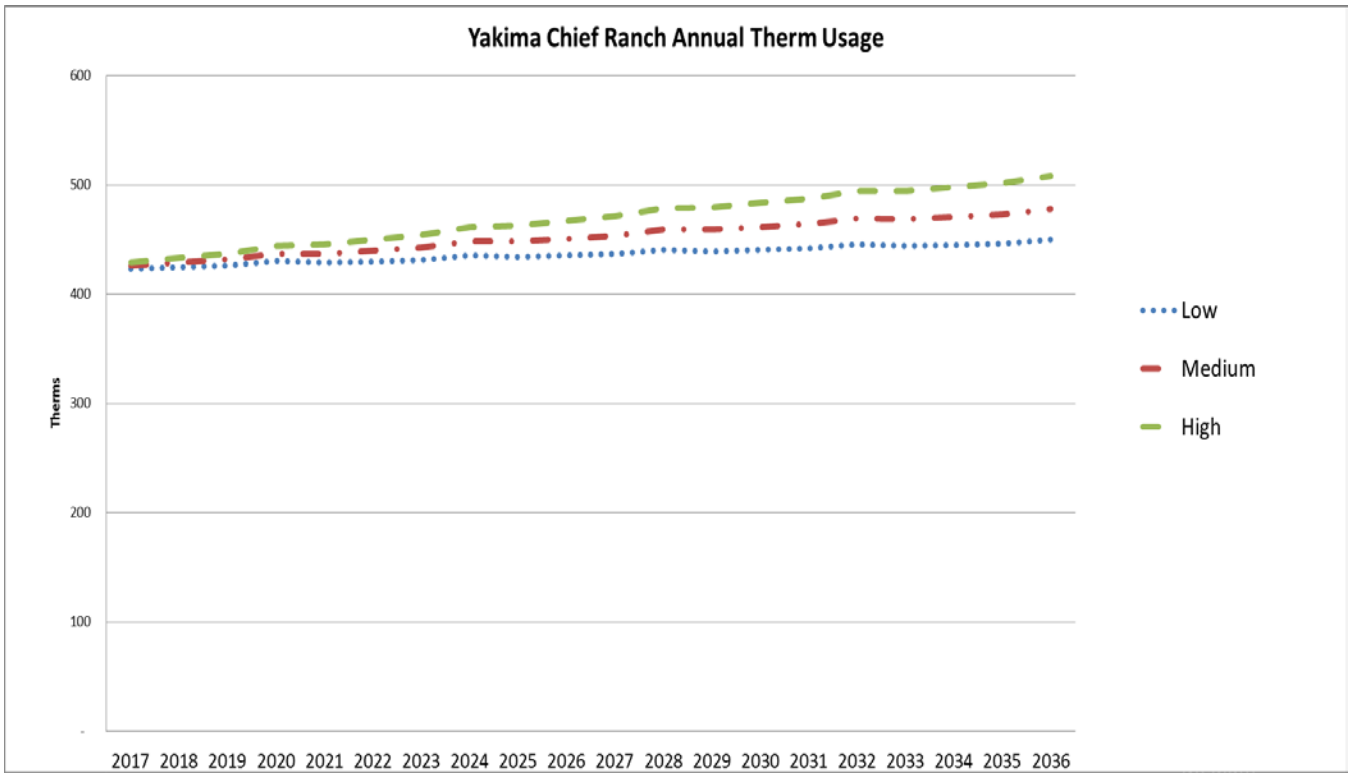
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.33%	0.00%	0.33%	0.66%	0.00%	0.66%	0.98%	0.00%	0.98%
2019	0.33%	0.00%	0.33%	0.65%	0.00%	0.65%	0.98%	0.00%	0.98%
2020	0.98%	0.00%	0.98%	1.31%	0.00%	1.31%	1.63%	0.00%	1.63%
2021	-0.33%	0.00%	-0.33%	-0.01%	0.00%	-0.01%	0.30%	0.00%	0.30%
2022	0.32%	0.00%	0.32%	0.64%	0.00%	0.64%	0.96%	0.00%	0.96%
2023	0.32%	0.00%	0.32%	0.63%	0.00%	0.63%	0.95%	0.00%	0.95%
2024	0.97%	0.00%	0.97%	1.29%	0.00%	1.29%	1.60%	0.00%	1.60%
2025	-0.35%	0.00%	-0.35%	-0.04%	0.00%	-0.04%	0.27%	0.00%	0.27%
2026	0.30%	0.00%	0.30%	0.61%	0.00%	0.61%	0.91%	0.00%	0.91%
2027	0.30%	0.00%	0.30%	0.60%	0.00%	0.60%	0.90%	0.00%	0.90%
2028	0.95%	0.00%	0.95%	1.25%	0.00%	1.25%	1.54%	0.00%	1.54%
2029	-0.37%	0.00%	-0.37%	-0.08%	0.00%	-0.08%	0.20%	0.00%	0.20%
2030	0.28%	0.00%	0.28%	0.56%	0.00%	0.56%	0.84%	0.00%	0.84%
2031	0.27%	0.00%	0.27%	0.54%	0.00%	0.54%	0.81%	0.00%	0.81%
2032	0.92%	0.00%	0.92%	1.18%	0.00%	1.18%	1.44%	0.00%	1.44%
2033	-0.41%	0.00%	-0.41%	-0.16%	0.00%	-0.16%	0.09%	0.00%	0.09%
2034	0.24%	0.00%	0.24%	0.47%	0.00%	0.47%	0.71%	0.00%	0.71%
2035	0.23%	0.00%	0.23%	0.45%	0.00%	0.45%	0.68%	0.00%	0.68%
2036	0.87%	0.00%	0.87%	1.09%	0.00%	1.09%	1.31%	0.00%	1.31%

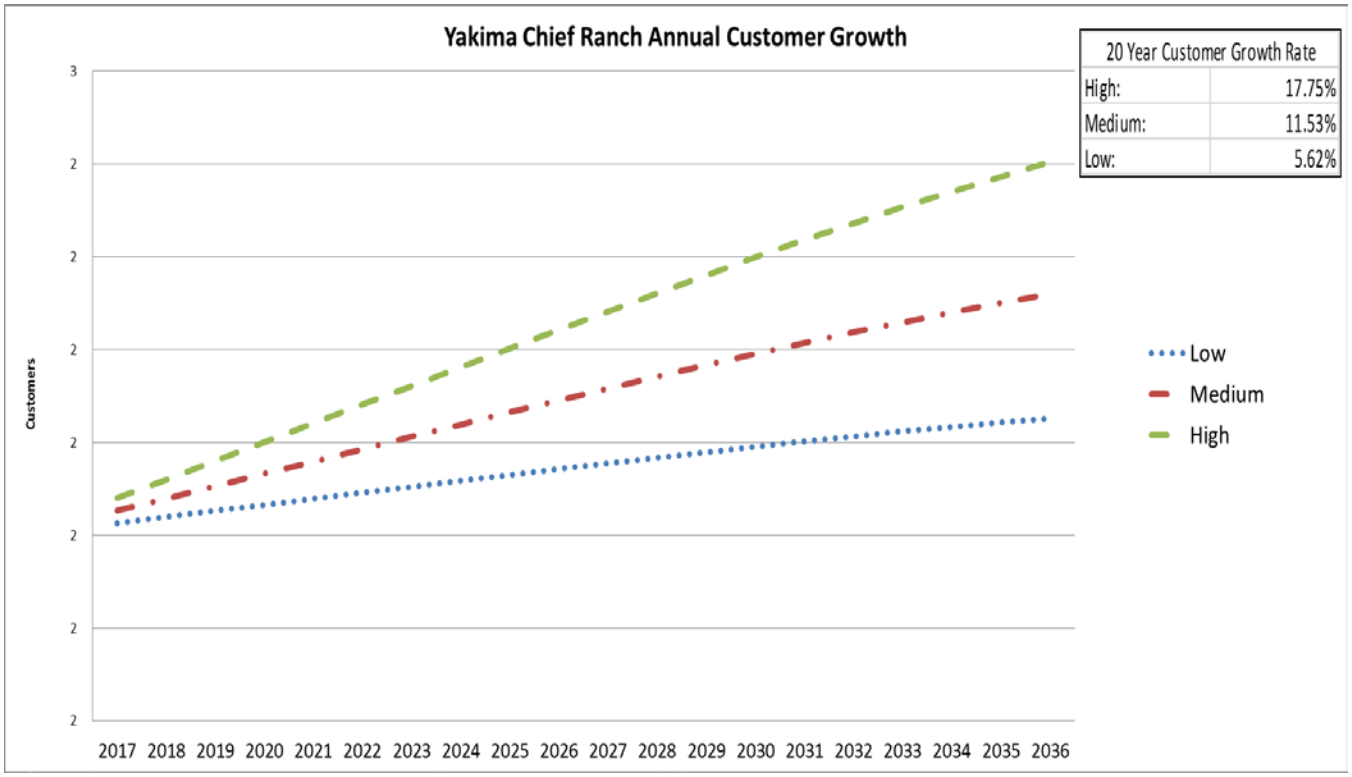
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2	-	2	2	-	2	2	-	2
2018	2	-	2	2	-	2	2	-	2
2019	2	-	2	2	-	2	2	-	2
2020	2	-	2	2	-	2	2	-	2
2021	2	-	2	2	-	2	2	-	2
2022	2	-	2	2	-	2	2	-	2
2023	2	-	2	2	-	2	2	-	2
2024	2	-	2	2	-	2	2	-	2
2025	2	-	2	2	-	2	2	-	2
2026	2	-	2	2	-	2	2	-	2
2027	2	-	2	2	-	2	2	-	2
2028	2	-	2	2	-	2	2	-	2
2029	2	-	2	2	-	2	2	-	2
2030	2	-	2	2	-	2	2	-	2
2031	2	-	2	2	-	2	2	-	2
2032	2	-	2	2	-	2	2	-	2
2033	2	-	2	2	-	2	2	-	2
2034	2	-	2	2	-	2	2	-	2
2035	2	-	2	2	-	2	2	-	2
2036	2	-	2	2	-	2	2	-	2

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.33%	0.00%	0.33%	0.66%	0.00%	0.66%	0.98%	0.00%	0.98%
2019	0.33%	0.00%	0.33%	0.65%	0.00%	0.65%	0.98%	0.00%	0.98%
2020	0.32%	0.00%	0.32%	0.65%	0.00%	0.65%	0.97%	0.00%	0.97%
2021	0.32%	0.00%	0.32%	0.64%	0.00%	0.64%	0.96%	0.00%	0.96%
2022	0.32%	0.00%	0.32%	0.64%	0.00%	0.64%	0.96%	0.00%	0.96%
2023	0.32%	0.00%	0.32%	0.63%	0.00%	0.63%	0.95%	0.00%	0.95%
2024	0.31%	0.00%	0.31%	0.63%	0.00%	0.63%	0.94%	0.00%	0.94%
2025	0.31%	0.00%	0.31%	0.62%	0.00%	0.62%	0.92%	0.00%	0.92%
2026	0.30%	0.00%	0.30%	0.61%	0.00%	0.61%	0.91%	0.00%	0.91%
2027	0.30%	0.00%	0.30%	0.60%	0.00%	0.60%	0.90%	0.00%	0.90%
2028	0.29%	0.00%	0.29%	0.59%	0.00%	0.59%	0.88%	0.00%	0.88%
2029	0.29%	0.00%	0.29%	0.57%	0.00%	0.57%	0.86%	0.00%	0.86%
2030	0.28%	0.00%	0.28%	0.56%	0.00%	0.56%	0.84%	0.00%	0.84%
2031	0.27%	0.00%	0.27%	0.54%	0.00%	0.54%	0.81%	0.00%	0.81%
2032	0.26%	0.00%	0.26%	0.52%	0.00%	0.52%	0.78%	0.00%	0.78%
2033	0.25%	0.00%	0.25%	0.49%	0.00%	0.49%	0.74%	0.00%	0.74%
2034	0.24%	0.00%	0.24%	0.47%	0.00%	0.47%	0.71%	0.00%	0.71%
2035	0.23%	0.00%	0.23%	0.45%	0.00%	0.45%	0.68%	0.00%	0.68%
2036	0.22%	0.00%	0.22%	0.43%	0.00%	0.43%	0.65%	0.00%	0.65%





20 Year Customer Growth Rate	
High:	17.75%
Medium:	11.53%
Low:	5.62%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Yakima Loop

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	21,257,014	6,156,983	27,413,997	21,478,817	6,225,305	27,704,122	21,701,942	6,294,048	27,995,990
2018	21,358,328	6,187,004	27,545,332	21,683,849	6,286,093	27,969,943	22,013,121	6,386,355	28,399,476
2019	21,456,742	6,215,630	27,672,372	21,884,069	6,344,377	28,228,446	22,318,604	6,475,346	28,793,951
2020	21,680,550	6,243,000	27,923,550	22,211,183	6,400,403	28,611,586	22,753,517	6,561,354	29,314,871
2021	21,646,455	6,269,421	27,915,876	22,272,975	6,454,772	28,727,748	22,916,488	6,645,254	29,561,742
2022	21,738,794	6,295,012	28,033,806	22,463,678	6,507,711	28,971,389	23,211,847	6,727,377	29,939,224
2023	21,829,749	6,319,923	28,149,672	22,652,432	6,559,512	29,211,944	23,505,608	6,808,155	30,313,763
2024	22,049,898	6,344,343	28,394,240	22,975,751	6,610,554	29,586,305	23,940,469	6,888,163	30,828,632
2025	22,008,578	6,368,240	28,376,819	23,026,226	6,660,765	29,686,991	24,091,548	6,967,276	31,058,824
2026	22,096,134	6,391,620	28,487,754	23,210,545	6,710,143	29,920,689	24,382,547	7,045,483	31,428,030
2027	22,182,344	6,414,501	28,596,845	23,392,880	6,758,717	30,151,597	24,671,762	7,122,811	31,794,573
2028	22,399,474	6,436,934	28,836,408	23,713,322	6,806,585	30,519,907	25,107,585	7,199,408	32,306,993
2029	22,350,961	6,458,920	28,809,881	23,751,979	6,853,737	30,605,716	25,245,323	7,275,241	32,520,563
2030	22,432,934	6,480,192	28,913,126	23,928,303	6,900,127	30,828,429	25,529,145	7,350,483	32,879,628
2031	22,512,642	6,500,640	29,013,283	24,101,186	6,945,564	31,046,750	25,809,032	7,424,852	33,233,884
2032	22,723,586	6,520,088	29,243,674	24,413,386	6,989,676	31,403,062	26,237,636	7,497,732	33,735,369
2033	22,664,134	6,538,813	29,202,948	24,433,721	7,032,752	31,466,473	26,351,843	7,569,424	33,921,267
2034	22,736,396	6,556,811	29,293,207	24,594,003	7,074,777	31,668,780	26,615,492	7,639,888	34,255,380
2035	22,806,536	6,574,024	29,380,560	24,750,966	7,115,883	31,866,849	26,875,150	7,709,466	34,584,615
2036	23,009,737	6,590,388	29,600,125	25,050,824	7,155,661	32,206,485	27,288,975	7,777,329	35,066,304

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.48%	0.49%	0.48%	0.95%	0.98%	0.96%	1.43%	1.47%	1.44%
2019	0.46%	0.46%	0.46%	0.92%	0.93%	0.92%	1.39%	1.39%	1.39%
2020	1.04%	0.44%	0.91%	1.49%	0.88%	1.36%	1.95%	1.33%	1.81%
2021	-0.16%	0.42%	-0.03%	0.28%	0.85%	0.41%	0.72%	1.28%	0.84%
2022	0.43%	0.41%	0.42%	0.86%	0.82%	0.85%	1.29%	1.24%	1.28%
2023	0.42%	0.40%	0.41%	0.84%	0.80%	0.83%	1.27%	1.20%	1.25%
2024	1.01%	0.39%	0.87%	1.43%	0.78%	1.28%	1.85%	1.18%	1.70%
2025	-0.19%	0.38%	-0.06%	0.22%	0.76%	0.34%	0.63%	1.15%	0.75%
2026	0.40%	0.37%	0.39%	0.80%	0.74%	0.79%	1.21%	1.12%	1.19%
2027	0.39%	0.36%	0.38%	0.79%	0.72%	0.77%	1.19%	1.10%	1.17%
2028	0.98%	0.35%	0.84%	1.37%	0.71%	1.22%	1.77%	1.08%	1.61%
2029	-0.22%	0.34%	-0.09%	0.16%	0.69%	0.28%	0.55%	1.05%	0.66%
2030	0.37%	0.33%	0.36%	0.74%	0.68%	0.73%	1.12%	1.03%	1.10%
2031	0.36%	0.32%	0.35%	0.72%	0.66%	0.71%	1.10%	1.01%	1.08%
2032	0.94%	0.30%	0.79%	1.30%	0.64%	1.15%	1.66%	0.98%	1.51%
2033	-0.26%	0.29%	-0.14%	0.08%	0.62%	0.20%	0.44%	0.96%	0.55%
2034	0.32%	0.28%	0.31%	0.66%	0.60%	0.64%	1.00%	0.93%	0.98%
2035	0.31%	0.26%	0.30%	0.64%	0.58%	0.63%	0.98%	0.91%	0.96%
2036	0.89%	0.25%	0.75%	1.21%	0.56%	1.07%	1.54%	0.88%	1.39%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	16,868	292,981	309,849	17,056	296,042	313,098	17,244	299,122	316,366
2018	16,951	294,379	311,330	17,222	298,872	316,094	17,497	303,417	320,914
2019	17,029	295,738	312,767	17,382	301,636	319,018	17,741	307,634	325,375
2020	17,104	297,061	314,165	17,535	304,342	321,878	17,976	311,784	329,760
2021	17,176	298,357	315,533	17,684	307,005	324,689	18,206	315,888	334,094
2022	17,247	299,632	316,878	17,829	309,638	327,467	18,431	319,966	338,397
2023	17,315	300,887	318,202	17,971	312,244	330,215	18,652	324,022	342,675
2024	17,382	302,131	319,512	18,111	314,837	332,948	18,872	328,077	346,948
2025	17,447	303,357	320,804	18,249	317,406	335,655	19,088	332,114	351,202
2026	17,511	304,566	322,077	18,384	319,952	338,335	19,303	336,133	355,436
2027	17,574	305,757	323,331	18,517	322,470	340,987	19,515	340,127	359,642
2028	17,635	306,930	324,566	18,648	324,964	343,612	19,724	344,102	363,826
2029	17,696	308,086	325,781	18,777	327,430	346,207	19,932	348,050	367,982
2030	17,754	309,218	326,972	18,904	329,865	348,770	20,138	351,970	372,109
2031	17,810	310,319	328,129	19,029	332,254	351,283	20,342	355,837	376,179
2032	17,863	311,382	329,245	19,150	334,578	353,728	20,542	359,621	380,163
2033	17,915	312,413	330,327	19,268	336,848	356,116	20,738	363,336	384,074
2034	17,964	313,412	331,376	19,383	339,063	358,446	20,931	366,979	387,910
2035	18,011	314,381	332,392	19,496	341,232	360,728	21,122	370,567	391,688
2036	18,056	315,315	333,371	19,605	343,335	362,940	21,308	374,063	395,371

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.49%	0.48%	0.48%	0.98%	0.96%	0.96%	1.47%	1.44%	1.44%
2019	0.46%	0.46%	0.46%	0.93%	0.92%	0.92%	1.39%	1.39%	1.39%
2020	0.44%	0.45%	0.45%	0.88%	0.90%	0.90%	1.33%	1.35%	1.35%
2021	0.42%	0.44%	0.44%	0.85%	0.87%	0.87%	1.28%	1.32%	1.31%
2022	0.41%	0.43%	0.43%	0.82%	0.86%	0.86%	1.24%	1.29%	1.29%
2023	0.40%	0.42%	0.42%	0.80%	0.84%	0.84%	1.20%	1.27%	1.26%
2024	0.39%	0.41%	0.41%	0.78%	0.83%	0.83%	1.18%	1.25%	1.25%
2025	0.38%	0.41%	0.40%	0.76%	0.82%	0.81%	1.15%	1.23%	1.23%
2026	0.37%	0.40%	0.40%	0.74%	0.80%	0.80%	1.12%	1.21%	1.21%
2027	0.36%	0.39%	0.39%	0.72%	0.79%	0.78%	1.10%	1.19%	1.18%
2028	0.35%	0.38%	0.38%	0.71%	0.77%	0.77%	1.08%	1.17%	1.16%
2029	0.34%	0.38%	0.37%	0.69%	0.76%	0.76%	1.05%	1.15%	1.14%
2030	0.33%	0.37%	0.37%	0.68%	0.74%	0.74%	1.03%	1.13%	1.12%
2031	0.32%	0.36%	0.35%	0.66%	0.72%	0.72%	1.01%	1.10%	1.09%
2032	0.30%	0.34%	0.34%	0.64%	0.70%	0.70%	0.98%	1.06%	1.06%
2033	0.29%	0.33%	0.33%	0.62%	0.68%	0.68%	0.96%	1.03%	1.03%
2034	0.28%	0.32%	0.32%	0.60%	0.66%	0.65%	0.93%	1.00%	1.00%
2035	0.26%	0.31%	0.31%	0.58%	0.64%	0.64%	0.91%	0.98%	0.97%
2036	0.25%	0.30%	0.29%	0.56%	0.62%	0.61%	0.88%	0.94%	0.94%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	12,186,588	15,227,409	27,413,997	12,266,993	15,437,129	27,704,122	12,347,663	15,648,326	27,995,990
2018	12,226,534	15,318,798	27,545,332	12,347,412	15,622,530	27,969,943	12,469,085	15,930,391	28,399,476
2019	12,266,422	15,405,950	27,672,372	12,427,977	15,800,469	28,228,446	12,591,123	16,202,828	28,793,951
2020	12,365,757	15,557,793	27,923,550	12,569,025	16,042,561	28,611,586	12,774,957	16,539,914	29,314,871
2021	12,345,620	15,570,256	27,915,876	12,588,718	16,139,030	28,727,748	12,835,792	16,725,950	29,561,742
2022	12,384,958	15,648,849	28,033,806	12,668,943	16,302,446	28,971,389	12,958,491	16,980,733	29,939,224
2023	12,424,029	15,725,643	28,149,672	12,748,876	16,463,068	29,211,944	13,081,131	17,232,632	30,313,763
2024	12,523,290	15,870,950	28,394,240	12,890,796	16,695,509	29,586,305	13,267,856	17,560,776	30,828,632
2025	12,501,284	15,875,534	28,376,819	12,907,673	16,779,317	29,686,991	13,325,913	17,732,911	31,058,824
2026	12,539,240	15,948,514	28,487,754	12,986,051	16,934,637	29,920,689	13,447,290	17,980,741	31,428,030
2027	12,576,658	16,020,187	28,596,845	13,063,555	17,088,042	30,151,597	13,567,674	18,226,899	31,794,573
2028	12,674,589	16,161,819	28,836,408	13,203,680	17,316,227	30,519,907	13,753,091	18,553,903	32,306,993
2029	12,649,670	16,160,210	28,809,881	13,215,452	17,390,264	30,605,716	13,804,654	18,715,909	32,520,563
2030	12,685,275	16,227,851	28,913,126	13,289,846	17,538,583	30,828,429	13,921,220	18,958,408	32,879,628
2031	12,719,527	16,293,756	29,013,283	13,361,616	17,685,134	31,046,750	14,033,989	19,199,894	33,233,884
2032	12,814,204	16,429,470	29,243,674	13,495,764	17,907,298	31,403,062	14,211,325	19,524,044	33,735,369
2033	12,783,951	16,418,997	29,202,948	13,497,138	17,969,335	31,466,473	14,247,771	19,673,496	33,921,267
2034	12,814,188	16,479,018	29,293,207	13,560,987	18,107,792	31,668,780	14,348,871	19,906,508	34,255,380
2035	12,843,138	16,537,422	29,380,560	13,622,261	18,244,588	31,866,849	14,446,122	20,138,493	34,584,615
2036	12,933,286	16,666,839	29,600,125	13,747,467	18,459,017	32,206,485	14,610,280	20,456,025	35,066,304

Annual Change

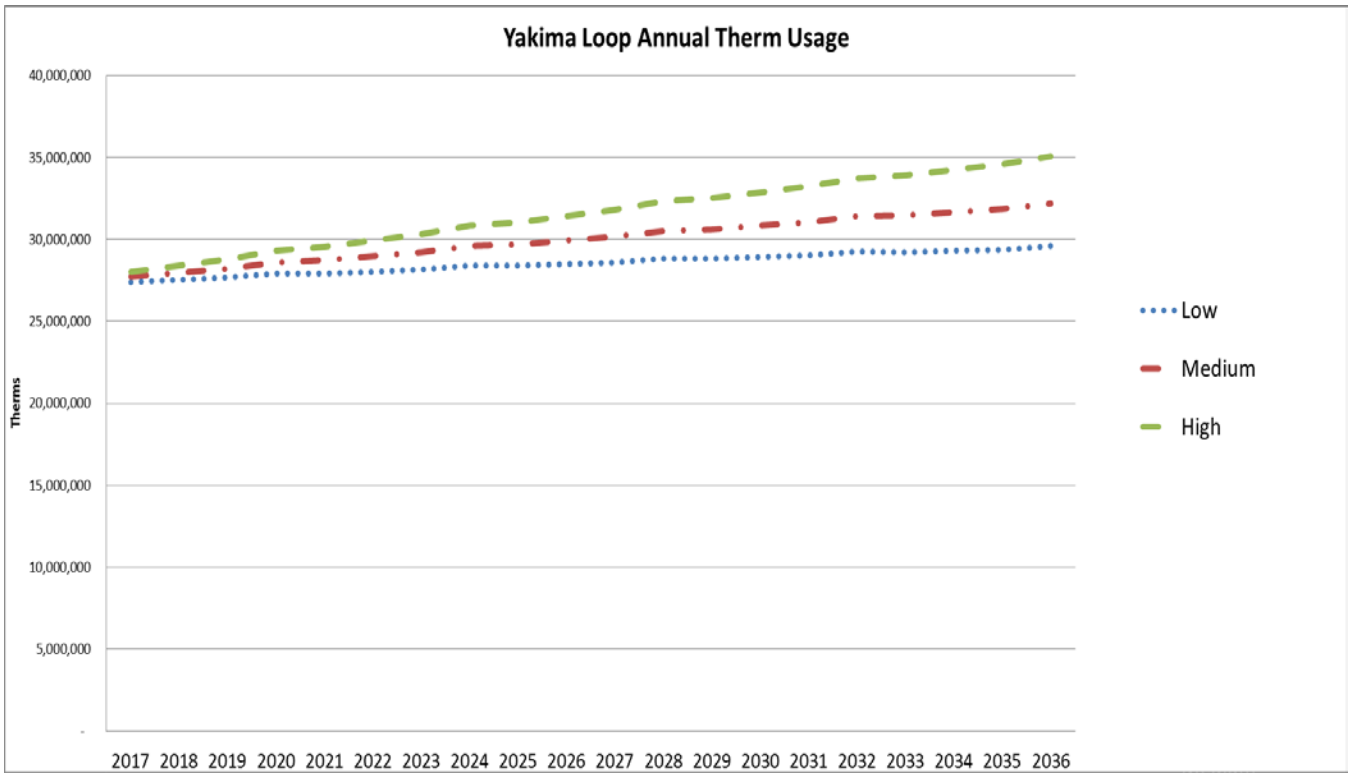
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.33%	0.60%	0.48%	0.66%	1.20%	0.96%	0.98%	1.80%	1.44%
2019	0.33%	0.57%	0.46%	0.65%	1.14%	0.92%	0.98%	1.71%	1.39%
2020	0.81%	0.99%	0.91%	1.13%	1.53%	1.36%	1.46%	2.08%	1.81%
2021	-0.16%	0.08%	-0.03%	0.16%	0.60%	0.41%	0.48%	1.12%	0.84%
2022	0.32%	0.50%	0.42%	0.64%	1.01%	0.85%	0.96%	1.52%	1.28%
2023	0.32%	0.49%	0.41%	0.63%	0.99%	0.83%	0.95%	1.48%	1.25%
2024	0.80%	0.92%	0.87%	1.11%	1.41%	1.28%	1.43%	1.90%	1.70%
2025	-0.18%	0.03%	-0.06%	0.13%	0.50%	0.34%	0.44%	0.98%	0.75%
2026	0.30%	0.46%	0.39%	0.61%	0.93%	0.79%	0.91%	1.40%	1.19%
2027	0.30%	0.45%	0.38%	0.60%	0.91%	0.77%	0.90%	1.37%	1.17%
2028	0.78%	0.88%	0.84%	1.07%	1.34%	1.22%	1.37%	1.79%	1.61%
2029	-0.20%	-0.01%	-0.09%	0.09%	0.43%	0.28%	0.37%	0.87%	0.66%
2030	0.28%	0.42%	0.36%	0.56%	0.85%	0.73%	0.84%	1.30%	1.10%
2031	0.27%	0.41%	0.35%	0.54%	0.84%	0.71%	0.81%	1.27%	1.08%
2032	0.74%	0.83%	0.79%	1.00%	1.26%	1.15%	1.26%	1.69%	1.51%
2033	-0.24%	-0.06%	-0.14%	0.01%	0.35%	0.20%	0.26%	0.77%	0.55%
2034	0.24%	0.37%	0.31%	0.47%	0.77%	0.64%	0.71%	1.18%	0.98%
2035	0.23%	0.35%	0.30%	0.45%	0.76%	0.63%	0.68%	1.17%	0.96%
2036	0.70%	0.78%	0.75%	0.92%	1.18%	1.07%	1.14%	1.58%	1.39%

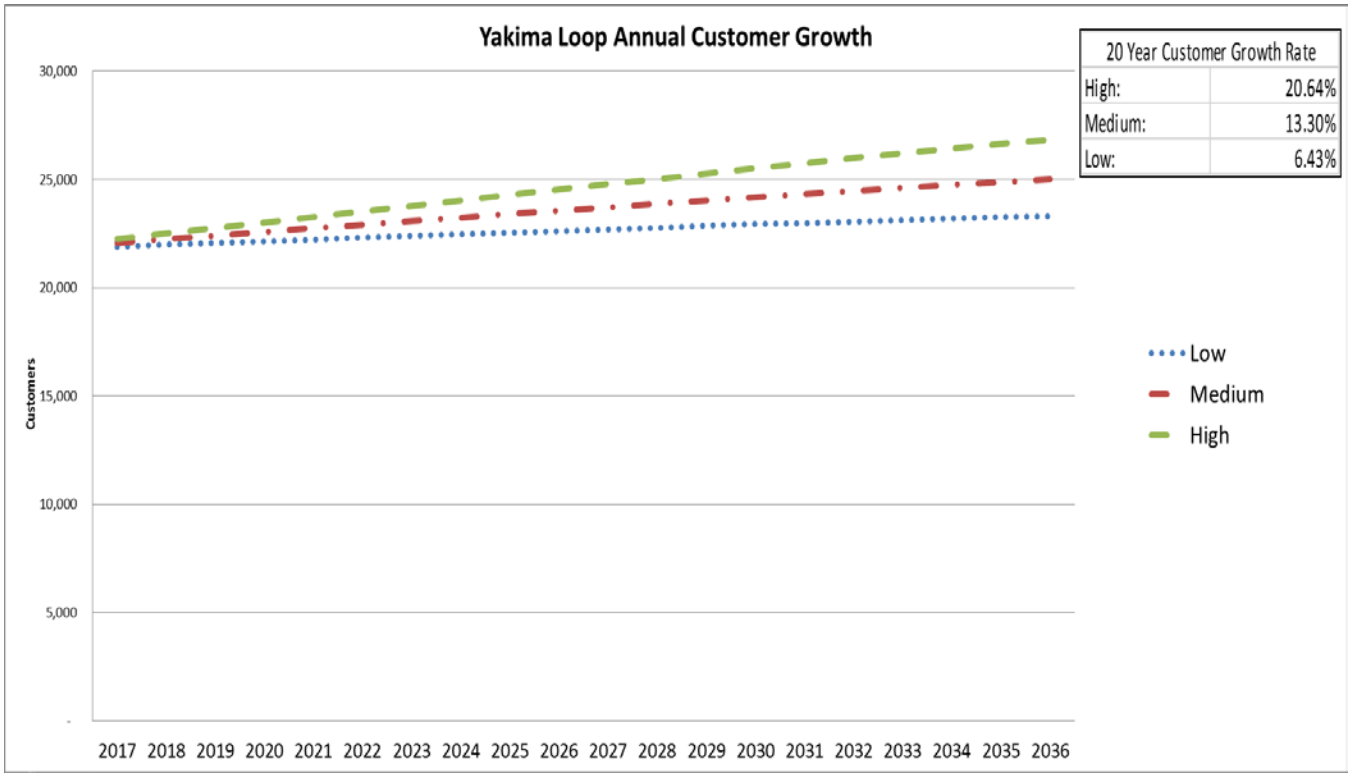
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	18,461	3,444	21,905	18,583	3,495	22,078	18,705	3,547	22,252
2018	18,522	3,467	21,989	18,705	3,542	22,247	18,889	3,618	22,507
2019	18,582	3,489	22,071	18,827	3,587	22,414	19,074	3,687	22,761
2020	18,642	3,510	22,153	18,949	3,631	22,580	19,259	3,755	23,014
2021	18,702	3,531	22,234	19,070	3,675	22,745	19,445	3,823	23,267
2022	18,762	3,552	22,314	19,192	3,718	22,910	19,630	3,890	23,520
2023	18,821	3,573	22,393	19,313	3,760	23,073	19,816	3,957	23,773
2024	18,880	3,593	22,473	19,434	3,803	23,237	20,002	4,024	24,027
2025	18,938	3,613	22,551	19,554	3,846	23,399	20,187	4,092	24,279
2026	18,995	3,633	22,628	19,672	3,888	23,560	20,371	4,159	24,530
2027	19,052	3,652	22,704	19,790	3,930	23,719	20,553	4,227	24,780
2028	19,108	3,672	22,779	19,905	3,972	23,877	20,734	4,294	25,028
2029	19,163	3,691	22,853	20,020	4,013	24,033	20,912	4,361	25,274
2030	19,217	3,710	22,926	20,132	4,054	24,186	21,089	4,428	25,517
2031	19,268	3,728	22,997	20,241	4,095	24,336	21,260	4,495	25,755
2032	19,318	3,746	23,065	20,346	4,135	24,480	21,425	4,561	25,986
2033	19,366	3,764	23,130	20,446	4,174	24,620	21,584	4,626	26,210
2034	19,412	3,781	23,193	20,543	4,213	24,756	21,737	4,691	26,428
2035	19,456	3,799	23,254	20,636	4,251	24,887	21,884	4,755	26,639
2036	19,498	3,815	23,313	20,725	4,289	25,014	22,026	4,818	26,844

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.33%	0.66%	0.38%	0.66%	1.33%	0.76%	0.98%	1.99%	1.14%
2019	0.33%	0.64%	0.38%	0.65%	1.28%	0.75%	0.98%	1.91%	1.13%
2020	0.32%	0.62%	0.37%	0.65%	1.23%	0.74%	0.97%	1.85%	1.11%
2021	0.32%	0.60%	0.36%	0.64%	1.20%	0.73%	0.96%	1.80%	1.10%
2022	0.32%	0.59%	0.36%	0.64%	1.17%	0.72%	0.96%	1.76%	1.09%
2023	0.32%	0.57%	0.36%	0.63%	1.15%	0.72%	0.95%	1.73%	1.08%
2024	0.31%	0.57%	0.35%	0.63%	1.14%	0.71%	0.94%	1.70%	1.07%
2025	0.31%	0.56%	0.35%	0.62%	1.12%	0.70%	0.92%	1.68%	1.05%
2026	0.30%	0.55%	0.34%	0.61%	1.10%	0.69%	0.91%	1.65%	1.04%
2027	0.30%	0.54%	0.34%	0.60%	1.08%	0.68%	0.90%	1.62%	1.02%
2028	0.29%	0.53%	0.33%	0.59%	1.06%	0.66%	0.88%	1.60%	1.00%
2029	0.29%	0.52%	0.32%	0.57%	1.04%	0.65%	0.86%	1.57%	0.98%
2030	0.28%	0.51%	0.32%	0.56%	1.02%	0.64%	0.84%	1.54%	0.96%
2031	0.27%	0.50%	0.31%	0.54%	1.00%	0.62%	0.81%	1.51%	0.93%
2032	0.26%	0.49%	0.30%	0.52%	0.98%	0.59%	0.78%	1.47%	0.90%
2033	0.25%	0.47%	0.28%	0.49%	0.95%	0.57%	0.74%	1.43%	0.86%
2034	0.24%	0.46%	0.27%	0.47%	0.93%	0.55%	0.71%	1.40%	0.83%
2035	0.23%	0.45%	0.26%	0.45%	0.91%	0.53%	0.68%	1.37%	0.80%
2036	0.22%	0.44%	0.25%	0.43%	0.88%	0.51%	0.65%	1.33%	0.77%





20 Year Customer Growth Rate	
High:	20.64%
Medium:	13.30%
Low:	6.43%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

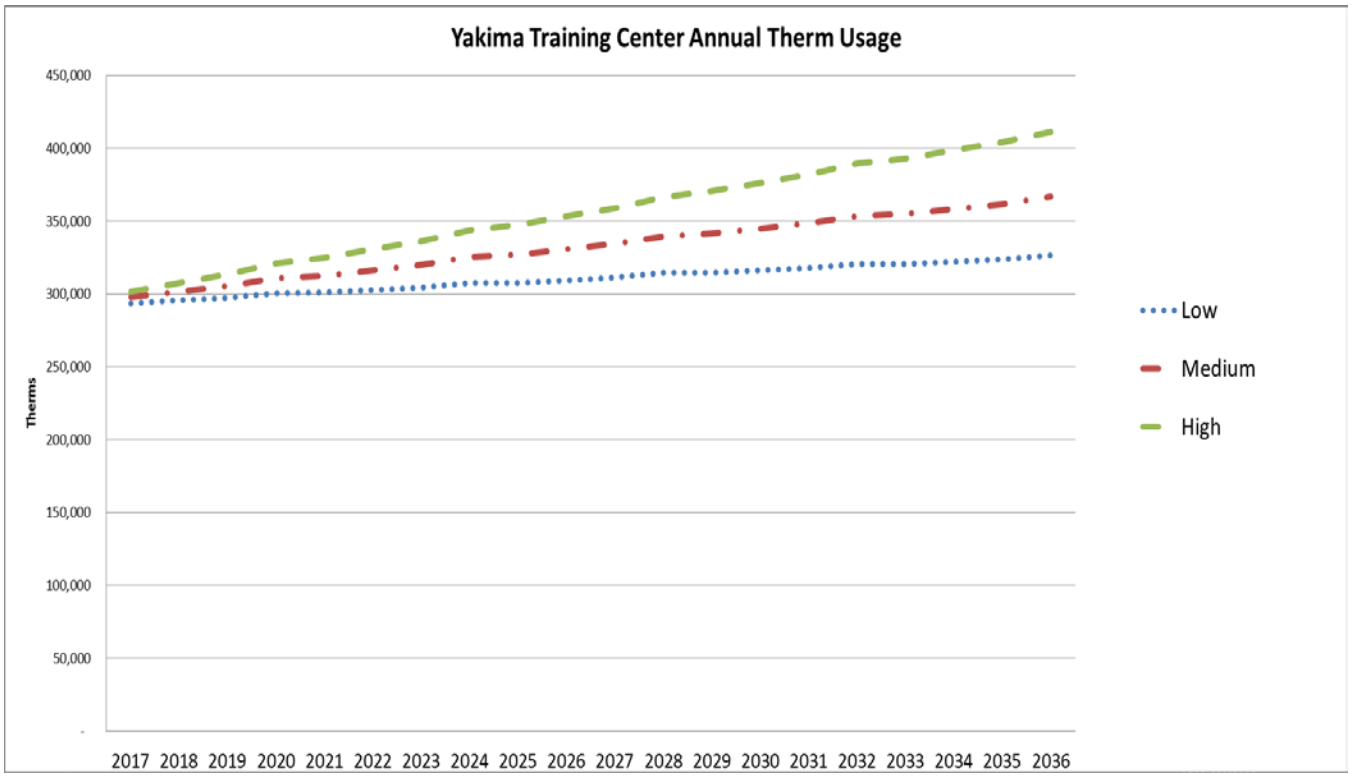
Yakima Training Center

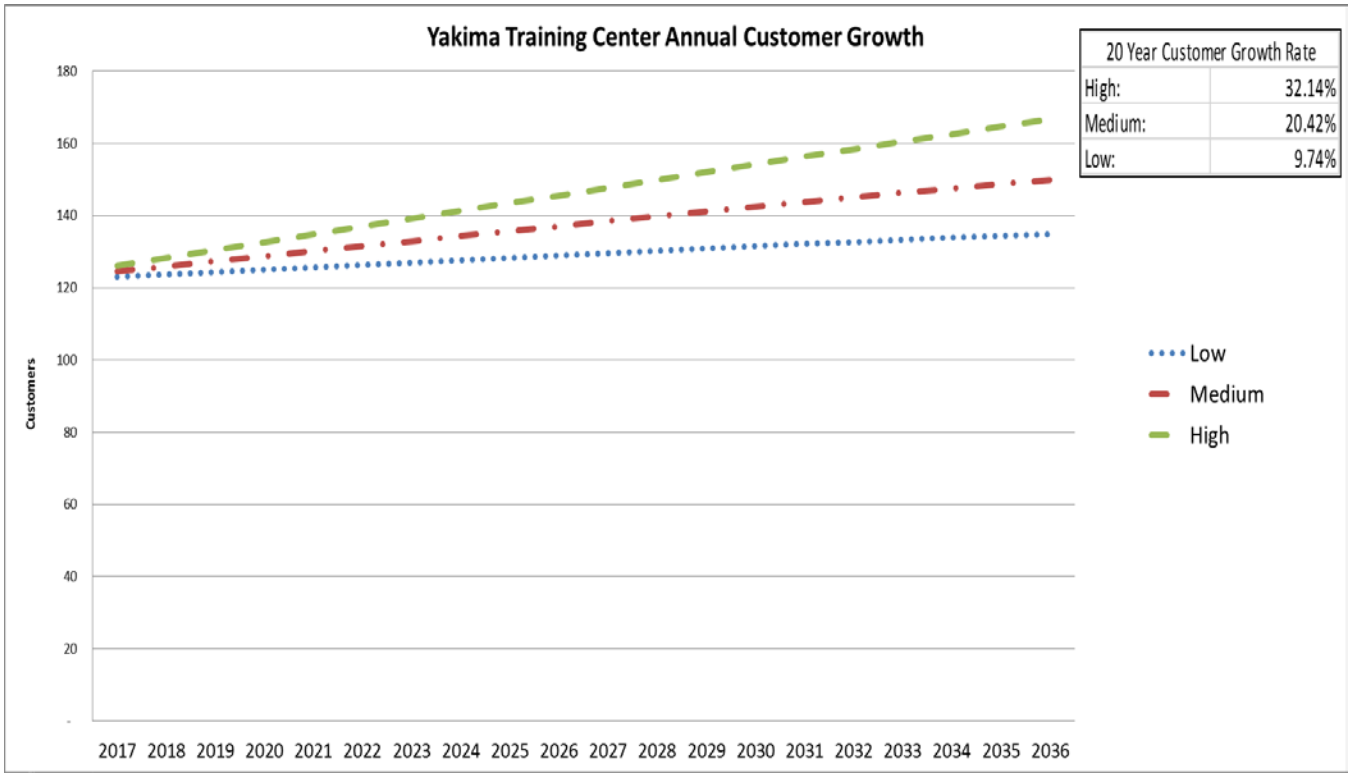
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	204,400	89,178	293,578	207,294	90,440	297,733	210,208	91,710	301,918	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	205,722	89,755	295,477	209,977	91,609	301,586	214,290	93,489	307,779	0.65%	0.65%	0.65%	1.29%	1.29%	1.29%	1.94%	1.94%	1.94%
2019	207,003	90,313	297,315	212,590	92,749	305,339	218,291	95,233	313,524	0.62%	0.62%	0.62%	1.24%	1.24%	1.24%	1.87%	1.87%	1.87%
2020	209,771	90,862	300,633	216,737	93,877	310,614	223,887	96,971	320,858	1.34%	0.61%	1.12%	1.95%	1.22%	1.73%	2.56%	1.82%	2.34%
2021	209,492	91,398	300,890	217,718	94,984	312,703	226,213	98,687	324,900	-0.13%	0.59%	0.09%	0.45%	1.18%	0.67%	1.04%	1.77%	1.26%
2022	210,715	91,931	302,646	220,261	96,093	316,354	230,177	100,415	330,592	0.58%	0.58%	0.58%	1.17%	1.17%	1.17%	1.75%	1.75%	1.75%
2023	211,918	92,456	304,374	222,777	97,190	319,967	234,121	102,134	336,256	0.57%	0.57%	0.57%	1.14%	1.14%	1.14%	1.71%	1.71%	1.71%
2024	214,665	92,980	307,645	226,938	98,291	325,229	239,831	103,872	343,703	1.30%	0.57%	1.07%	1.87%	1.13%	1.64%	2.44%	1.70%	2.21%
2025	214,305	93,496	307,802	227,811	99,384	327,194	242,078	105,603	347,681	-0.17%	0.56%	0.05%	0.38%	1.11%	0.60%	0.94%	1.67%	1.16%
2026	215,485	94,011	309,496	230,319	100,477	330,797	246,078	107,347	353,424	0.55%	0.55%	0.55%	1.10%	1.10%	1.10%	1.65%	1.65%	1.65%
2027	216,644	94,516	311,161	232,798	101,558	334,356	250,051	109,078	359,129	0.54%	0.54%	0.54%	1.08%	1.08%	1.08%	1.61%	1.61%	1.61%
2028	219,372	95,017	314,389	236,972	102,634	339,607	255,871	110,813	366,684	1.26%	0.53%	1.04%	1.79%	1.06%	1.57%	2.33%	1.59%	2.10%
2029	218,934	95,514	314,448	237,732	103,709	341,441	258,022	112,553	370,576	-0.20%	0.52%	0.02%	0.32%	1.05%	0.54%	0.84%	1.57%	1.06%
2030	220,052	96,002	316,053	240,160	104,767	344,927	261,976	114,277	376,253	0.51%	0.51%	0.51%	1.02%	1.02%	1.02%	1.53%	1.53%	1.53%
2031	221,159	96,485	317,644	242,579	105,821	348,400	265,934	116,002	381,936	0.50%	0.50%	0.50%	1.01%	1.01%	1.01%	1.51%	1.51%	1.51%
2032	223,847	96,954	320,801	246,716	106,851	353,568	271,775	117,696	389,471	1.22%	0.49%	0.99%	1.71%	0.97%	1.48%	2.20%	1.46%	1.97%
2033	223,297	97,416	320,714	247,281	107,871	355,152	273,687	119,381	393,068	-0.25%	0.48%	-0.03%	0.23%	0.95%	0.45%	0.70%	1.43%	0.92%
2034	224,337	97,870	322,207	249,584	108,875	358,459	277,511	121,048	398,559	0.47%	0.47%	0.47%	0.93%	0.93%	0.93%	1.40%	1.40%	1.40%
2035	225,355	98,313	323,668	251,850	109,863	361,712	281,291	122,696	403,986	0.45%	0.45%	0.45%	0.91%	0.91%	0.91%	1.36%	1.36%	1.36%
2036	227,991	98,747	326,738	255,916	110,833	366,749	287,086	124,321	411,407	1.17%	0.44%	0.95%	1.61%	0.88%	1.39%	2.06%	1.32%	1.84%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	244	3,536	3,781	248	3,587	3,834	251	3,637	3,888	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	246	3,559	3,805	251	3,633	3,884	256	3,708	3,964	0.65%	0.65%	0.65%	1.29%	1.29%	1.29%	1.94%	1.94%	1.94%
2019	247	3,582	3,829	254	3,678	3,932	261	3,777	4,038	0.62%	0.62%	0.62%	1.24%	1.24%	1.24%	1.87%	1.87%	1.87%
2020	249	3,603	3,852	257	3,723	3,980	266	3,846	4,111	0.61%	0.61%	0.61%	1.22%	1.22%	1.22%	1.82%	1.83%	1.83%
2021	250	3,625	3,875	260	3,767	4,027	270	3,914	4,184	0.59%	0.59%	0.59%	1.18%	1.18%	1.18%	1.77%	1.77%	1.77%
2022	252	3,646	3,898	263	3,811	4,074	275	3,982	4,258	0.58%	0.58%	0.58%	1.17%	1.17%	1.17%	1.75%	1.75%	1.75%
2023	253	3,667	3,920	266	3,854	4,121	280	4,051	4,330	0.57%	0.57%	0.57%	1.14%	1.14%	1.14%	1.71%	1.71%	1.71%
2024	255	3,687	3,942	269	3,898	4,167	285	4,120	4,404	0.57%	0.57%	0.57%	1.13%	1.13%	1.13%	1.70%	1.70%	1.70%
2025	256	3,708	3,964	272	3,941	4,214	289	4,188	4,478	0.56%	0.56%	0.56%	1.11%	1.11%	1.11%	1.67%	1.67%	1.67%
2026	258	3,728	3,986	275	3,985	4,260	294	4,258	4,552	0.55%	0.55%	0.55%	1.10%	1.10%	1.10%	1.65%	1.65%	1.65%
2027	259	3,748	4,007	278	4,028	4,306	299	4,326	4,625	0.54%	0.54%	0.54%	1.08%	1.08%	1.08%	1.61%	1.61%	1.61%
2028	260	3,768	4,029	281	4,070	4,352	304	4,395	4,699	0.53%	0.53%	0.53%	1.06%	1.06%	1.06%	1.59%	1.59%	1.59%
2029	262	3,788	4,050	284	4,113	4,397	308	4,464	4,773	0.52%	0.52%	0.52%	1.05%	1.05%	1.05%	1.57%	1.57%	1.57%
2030	263	3,807	4,070	287	4,155	4,442	313	4,533	4,846	0.51%	0.51%	0.51%	1.02%	1.02%	1.02%	1.53%	1.53%	1.53%
2031	264	3,826	4,091	290	4,197	4,487	318	4,601	4,919	0.50%	0.50%	0.50%	1.01%	1.01%	1.01%	1.51%	1.51%	1.51%
2032	266	3,845	4,111	293	4,238	4,531	322	4,668	4,991	0.49%	0.49%	0.49%	0.97%	0.97%	0.97%	1.46%	1.46%	1.46%
2033	267	3,863	4,130	296	4,278	4,574	327	4,735	5,062	0.48%	0.48%	0.48%	0.95%	0.96%	0.96%	1.43%	1.43%	1.43%
2034	268	3,881	4,150	298	4,318	4,616	332	4,801	5,133	0.47%	0.47%	0.47%	0.93%	0.93%	0.93%	1.40%	1.40%	1.40%
2035	269	3,899	4,168	301	4,357	4,658	336	4,867	5,203	0.45%	0.45%	0.45%	0.91%	0.91%	0.91%	1.36%	1.36%	1.36%
2036	271	3,916	4,187	304	4,396	4,700	341	4,931	5,272	0.44%	0.44%	0.44%	0.88%	0.88%	0.88%	1.32%	1.33%	1.33%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,330	290,248	293,578	3,352	294,382	297,733	3,374	298,545	301,918	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,341	292,137	295,477	3,374	298,213	301,586	3,407	304,372	307,779	0.33%	0.65%	0.65%	0.66%	1.30%	1.29%	0.98%	1.95%	1.94%
2019	3,351	293,964	297,315	3,396	301,943	305,339	3,440	310,084	313,524	0.33%	0.63%	0.62%	0.65%	1.25%	1.24%	0.98%	1.88%	1.87%
2020	3,379	297,254	300,633	3,435	307,179	310,614	3,491	317,367	320,858	0.83%	1.12%	1.12%	1.15%	1.73%	1.73%	1.48%	2.35%	2.34%
2021	3,373	297,516	300,890	3,440	309,263	312,703	3,507	321,393	324,900	-0.18%	0.09%	0.09%	0.14%	0.68%	0.67%	0.46%	1.27%	1.26%
2022	3,384	299,262	302,646	3,461	312,893	316,354	3,541	327,051	330,592	0.32%	0.59%	0.58%	0.64%	1.17%	1.17%	0.96%	1.76%	1.75%
2023	3,395	300,980	304,374	3,483	316,484	319,967	3,574	332,681	336,256	0.32%	0.57%	0.57%	0.63%	1.15%	1.14%	0.95%	1.72%	1.71%
2024	3,422	304,222	307,645	3,523	321,706	325,229	3,626	340,077	343,703	0.82%	1.08%	1.07%	1.13%	1.65%	1.64%	1.45%	2.22%	2.21%
2025	3,416	304,386	307,802	3,527	323,668	327,194	3,641	344,040	347,681	-0.20%	0.05%	0.05%	0.11%	0.61%	0.60%	0.42%	1.17%	1.16%
2026	3,426	306,070	309,496	3,548	327,249	330,797	3,674	349,750	353,424	0.30%	0.55%	0.55%	0.61%	1.11%	1.10%	0.91%	1.66%	1.65%
2027	3,436	307,724	311,161	3,569	330,787	334,356	3,707	355,422	359,129	0.30%	0.54%	0.54%	0.60%	1.08%	1.08%	0.90%	1.62%	1.61%
2028	3,464	310,925	314,389	3,608	335,999	339,607	3,758	362,926	366,684	0.80%	1.04%	1.04%	1.09%	1.58%	1.57%	1.39%	2.11%	2.10%
2029	3,456	310,992	314,448	3,611	337,830	341,441	3,772	366,804	370,576	-0.22%	0.02%	0.02%	0.07%	0.55%	0.54%	0.36%	1.07%	1.06%
2030	3,466	312,587	316,053	3,631	341,296	344,927	3,804	372,449	376,253	0.28%	0.51%	0.51%	0.56%	1.03%	1.02%	0.84%	1.54%	1.53%
2031	3,475	314,169	317,644	3,651	344,749	348,400	3,834	378,102	381,936	0.27%	0.51%	0.50%	0.54%	1.01%	1.01%	0.81%	1.52%	1.51%
2032	3,502	317,299	320,801	3,688	349,879	353,568	3,884	385,588	389,471	0.76%	1.00%	0.99%	1.02%	1.49%	1.48%	1.28%	1.98%	1.97%
2033	3,493	317,221	320,714	3,688	351,464	355,152	3,893	389,175	393,068	-0.26%	-0.02%	-0.03%	-0.01%	0.45%	0.45%	0.24%	0.93%	0.92%
2034	3,501	318,705	322,207	3,705	354,754	358,459	3,920	394,639	398,559	0.24%	0.47%	0.47%	0.47%	0.94%	0.93%	0.71%	1.40%	1.40%
2035	3,509	320,159	323,668	3,722	357,990	361,712	3,947	400,039	403,986	0.23%	0.46%	0.45%	0.45%	0.91%	0.91%	0.68%	1.37%	1.36%
2036	3,534	323,204	326,738	3,757	362,992	366,749	3,993	407,414	411,407	0.72%	0.95%	0.95%	0.94%	1.40%	1.39%	1.16%	1.84%	1.84%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	25	98	123	25	99	125	25	101	126	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	25	98	124	25	100	126	26	103	128	0.33%	0.65%	0.58%	0.66%	1.30%	1.17%	0.98%	1.95%	1.76%
2019	25	99	124	26	102	127	26	104	130	0.33%	0.63%	0.56%	0.65%	1.25%	1.13%	0.98%	1.88%	1.70%
2020	25	100	125	26	103	129	26	106	133	0.32%	0.61%	0.55%	0.65%	1.22%	1.11%	0.97%	1.83%	1.66%
2021	25	100	126	26	104	130	27	108	135	0.32%	0.59%	0.54%	0.64%	1.19%	1.08%	0.96%	1.78%	1.62%
2022	26	101	126	26	105	132	27	110	137	0.32%	0.59%	0.53%	0.64%	1.17%	1.07%	0.96%	1.76%	1.60%
2023	26	101	127	26	107	133	27	112	139	0.32%	0.57%	0.52%	0.63%	1.15%	1.04%	0.95%	1.72%	1.57%
2024	26	102	128	26	108	134	27	114	141	0.31%	0.57%	0.52%	0.63%	1.14%	1.04%	0.94%	1.71%	1.56%
2025	26	103	128	27	109	136	28	116	143	0.31%	0.56%	0.51%	0.62%	1.12%	1.02%	0.92%	1.68%	1.53%
2026	26	103	129	27	110	137	28	118	146	0.30%	0.55%	0.50%	0.61%	1.11%	1.01%	0.91%	1.66%	1.52%
2027	26	104	130	27	111	138	28	120	148	0.30%	0.54%	0.49%	0.60%	1.08%	0.99%	0.90%	1.62%	1.48%
2028	26	104	130	27	113	140	28	122	150	0.29%	0.53%	0.48%	0.59%	1.07%	0.97%	0.88%	1.60%	1.46%
2029	26	105	131	27	114	141	29	124	152	0.29%	0.53%	0.48%	0.57%	1.05%	0.96%	0.86%	1.58%	1.44%
2030	26	105	132	27	115	142	29	125	154	0.28%	0.51%	0.47%	0.56%	1.03%	0.94%	0.84%	1.54%	1.41%
2031	26	106	132	28	116	144	29	127	156	0.27%	0.51%	0.46%	0.54%	1.01%	0.92%	0.81%	1.52%	1.39%
2032	26	106	133	28	117	145	29	129	158	0.26%	0.49%	0.44%	0.52%	0.98%	0.89%	0.78%	1.47%	1.34%
2033	26	107	133	28	118	146	29	131	161	0.25%	0.48%	0.43%	0.49%	0.96%	0.87%	0.74%	1.44%	1.31%
2034	26	107	134	28	120	148	30	133	163	0.24%	0.47%	0.42%	0.47%	0.94%	0.85%	0.71%	1.40%	1.28%
2035	27	108	134	28	121	149	30	135	165	0.23%	0.46%	0.41%	0.45%	0.91%	0.82%	0.68%	1.37%	1.24%
2036	27	108	135	28	122	150	30	137	167	0.22%	0.44%	0.40%	0.43%	0.89%	0.80%	0.65%	1.33%	1.21%





20 Year Customer Growth Rate	
High:	32.14%
Medium:	20.42%
Low:	9.74%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

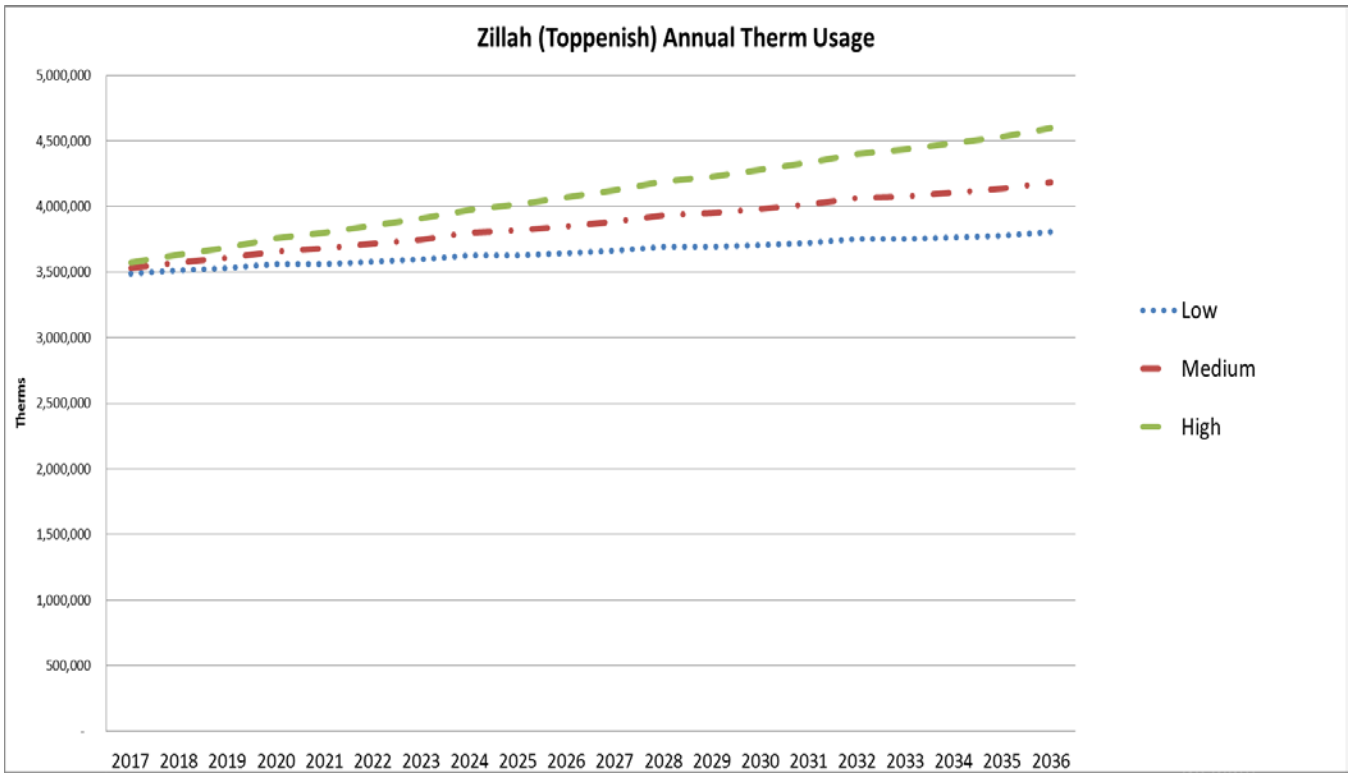
Zillah (Toppenish)

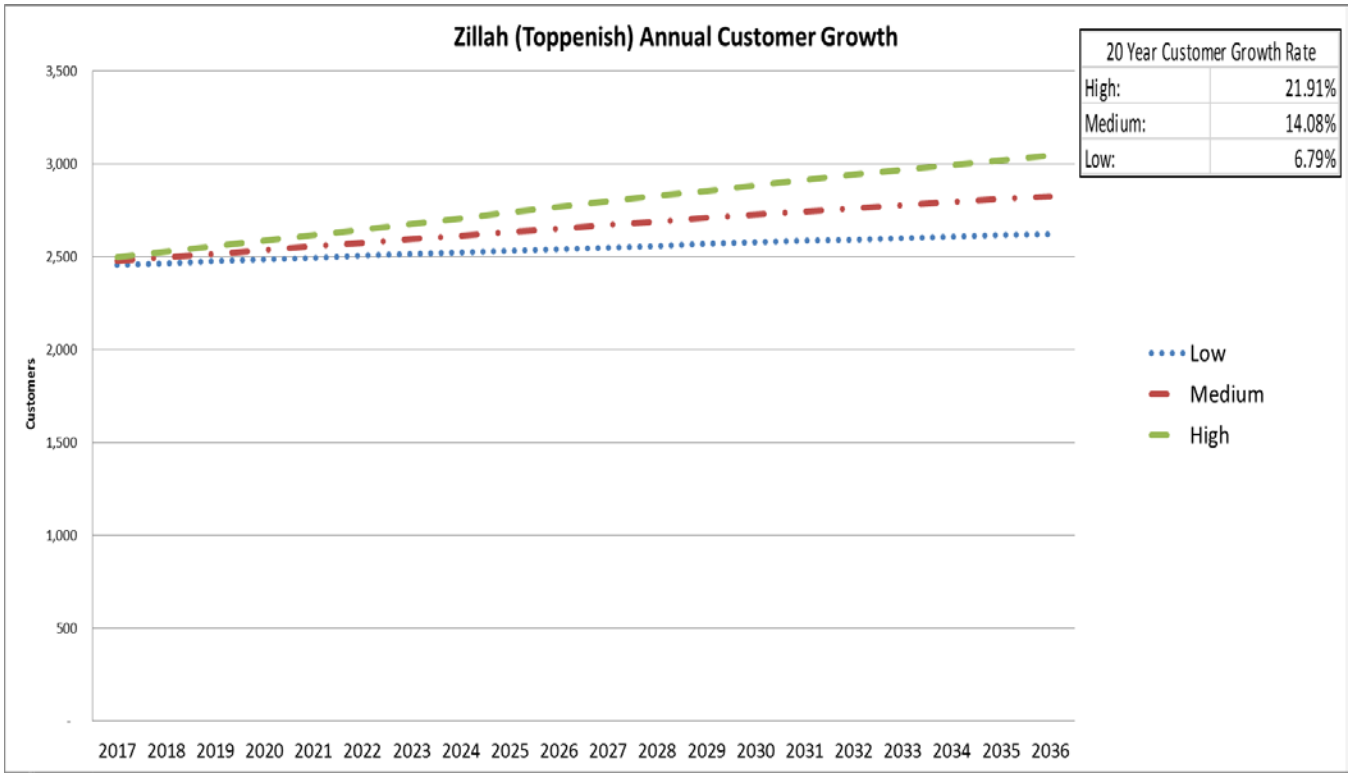
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	2,397,845	1,094,931	3,492,777	2,426,423	1,107,391	3,533,815	2,455,190	1,119,927	3,575,117	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,411,078	1,100,382	3,511,460	2,453,237	1,118,428	3,571,666	2,495,939	1,136,688	3,632,626	0.55%	0.50%	0.53%	1.11%	1.00%	1.07%	1.66%	1.50%	1.61%
2019	2,424,011	1,105,544	3,529,554	2,479,602	1,128,938	3,608,540	2,536,242	1,152,736	3,688,979	0.54%	0.47%	0.52%	1.07%	0.94%	1.03%	1.61%	1.41%	1.55%
2020	2,451,196	1,110,452	3,561,647	2,520,537	1,138,987	3,659,524	2,591,596	1,168,165	3,759,761	1.12%	0.44%	0.91%	1.65%	0.89%	1.41%	2.18%	1.34%	1.92%
2021	2,449,192	1,115,156	3,564,347	2,531,372	1,148,670	3,680,042	2,616,061	1,183,112	3,799,173	-0.08%	0.42%	0.08%	0.43%	0.85%	0.56%	0.94%	1.28%	1.05%
2022	2,461,556	1,119,674	3,581,230	2,557,005	1,158,020	3,715,025	2,655,910	1,197,622	3,853,532	0.50%	0.41%	0.47%	1.01%	0.81%	0.95%	1.52%	1.23%	1.43%
2023	2,473,815	1,124,053	3,597,868	2,582,556	1,167,131	3,749,687	2,695,846	1,211,836	3,907,682	0.50%	0.39%	0.46%	1.00%	0.79%	0.93%	1.50%	1.19%	1.41%
2024	2,500,780	1,128,309	3,629,089	2,623,599	1,176,033	3,799,633	2,752,242	1,225,800	3,978,041	1.09%	0.38%	0.87%	1.59%	0.76%	1.33%	2.09%	1.15%	1.80%
2025	2,498,064	1,132,457	3,630,521	2,633,502	1,184,753	3,818,255	2,776,110	1,239,548	4,015,657	-0.11%	0.37%	0.04%	0.38%	0.74%	0.49%	0.87%	1.12%	0.95%
2026	2,510,009	1,136,496	3,646,505	2,658,795	1,193,291	3,852,086	2,816,272	1,253,081	4,069,352	0.48%	0.36%	0.44%	0.96%	0.72%	0.89%	1.45%	1.09%	1.34%
2027	2,521,813	1,140,431	3,662,244	2,683,920	1,201,652	3,885,572	2,856,372	1,266,404	4,122,776	0.47%	0.35%	0.43%	0.94%	0.70%	0.87%	1.42%	1.06%	1.31%
2028	2,548,551	1,144,276	3,692,827	2,725,007	1,209,865	3,934,872	2,913,671	1,279,558	4,193,229	1.06%	0.34%	0.84%	1.53%	0.68%	1.27%	2.01%	1.04%	1.71%
2029	2,545,005	1,148,033	3,693,038	2,733,657	1,217,930	3,951,587	2,936,360	1,292,542	4,228,902	-0.14%	0.33%	0.01%	0.32%	0.67%	0.42%	0.78%	1.01%	0.85%
2030	2,556,352	1,151,697	3,708,049	2,758,171	1,225,836	3,984,007	2,976,076	1,305,335	4,281,412	0.45%	0.32%	0.41%	0.90%	0.65%	0.82%	1.35%	0.99%	1.24%
2031	2,567,475	1,155,257	3,722,733	2,782,324	1,233,557	4,015,881	3,015,403	1,317,895	4,333,298	0.44%	0.31%	0.40%	0.88%	0.63%	0.80%	1.32%	0.96%	1.21%
2032	2,593,645	1,158,706	3,752,352	2,822,664	1,241,077	4,063,741	3,072,272	1,330,188	4,402,460	1.02%	0.30%	0.80%	1.45%	0.61%	1.19%	1.89%	0.93%	1.60%
2033	2,588,881	1,162,055	3,750,935	2,829,135	1,248,412	4,077,547	3,092,175	1,342,239	4,434,413	-0.18%	0.29%	-0.04%	0.23%	0.59%	0.34%	0.65%	0.91%	0.73%
2034	2,599,188	1,165,307	3,764,495	2,851,837	1,255,571	4,107,407	3,129,669	1,354,058	4,483,727	0.40%	0.28%	0.36%	0.80%	0.57%	0.73%	1.21%	0.88%	1.11%
2035	2,609,283	1,168,462	3,777,745	2,874,172	1,262,553	4,136,725	3,166,730	1,365,644	4,532,374	0.39%	0.27%	0.35%	0.78%	0.56%	0.71%	1.18%	0.86%	1.08%
2036	2,634,638	1,171,502	3,806,140	2,913,137	1,269,310	4,182,447	3,222,020	1,376,911	4,598,930	0.97%	0.26%	0.75%	1.36%	0.54%	1.11%	1.75%	0.83%	1.47%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	3,000	38,604	41,603	3,034	39,049	42,083	3,068	39,498	42,566	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,015	38,806	41,821	3,064	39,460	42,524	3,114	40,122	43,236	0.50%	0.53%	0.52%	1.00%	1.05%	1.05%	1.50%	1.58%	1.57%
2019	3,029	39,003	42,032	3,093	39,860	42,953	3,158	40,733	43,891	0.47%	0.51%	0.50%	0.94%	1.01%	1.01%	1.41%	1.52%	1.52%
2020	3,042	39,193	42,236	3,121	40,251	43,372	3,200	41,334	44,535	0.44%	0.49%	0.49%	0.89%	0.98%	0.97%	1.34%	1.48%	1.47%
2021	3,055	39,380	42,435	3,147	40,635	43,782	3,241	41,927	45,168	0.42%	0.48%	0.47%	0.85%	0.95%	0.95%	1.28%	1.43%	1.42%
2022	3,068	39,563	42,630	3,173	41,014	44,186	3,281	42,515	45,796	0.41%	0.46%	0.46%	0.81%	0.93%	0.92%	1.23%	1.40%	1.39%
2023	3,080	39,743	42,822	3,198	41,389	44,586	3,320	43,101	46,421	0.39%	0.46%	0.45%	0.79%	0.91%	0.91%	1.19%	1.38%	1.36%
2024	3,091	39,921	43,012	3,222	41,761	44,983	3,358	43,686	47,044	0.38%	0.45%	0.44%	0.76%	0.90%	0.89%	1.15%	1.36%	1.34%
2025	3,103	40,096	43,199	3,246	42,130	45,376	3,396	44,268	47,664	0.37%	0.44%	0.43%	0.74%	0.88%	0.87%	1.12%	1.33%	1.32%
2026	3,114	40,269	43,383	3,269	42,496	45,765	3,433	44,848	48,281	0.36%	0.43%	0.43%	0.72%	0.87%	0.86%	1.09%	1.31%	1.29%
2027	3,124	40,439	43,564	3,292	42,858	46,150	3,470	45,425	48,895	0.35%	0.42%	0.42%	0.70%	0.85%	0.84%	1.06%	1.29%	1.27%
2028	3,135	40,607	43,742	3,315	43,216	46,531	3,506	45,999	49,505	0.34%	0.41%	0.41%	0.68%	0.84%	0.83%	1.04%	1.26%	1.25%
2029	3,145	40,772	43,917	3,337	43,571	46,907	3,541	46,570	50,112	0.33%	0.41%	0.40%	0.67%	0.82%	0.81%	1.01%	1.24%	1.23%
2030	3,155	40,934	44,089	3,358	43,921	47,279	3,576	47,137	50,713	0.32%	0.40%	0.39%	0.65%	0.80%	0.79%	0.99%	1.22%	1.20%
2031	3,165	41,093	44,258	3,380	44,265	47,644	3,611	47,696	51,307	0.31%	0.39%	0.38%	0.63%	0.78%	0.77%	0.96%	1.19%	1.17%
2032	3,175	41,247	44,421	3,400	44,600	48,001	3,644	48,246	51,890	0.30%	0.38%	0.37%	0.61%	0.76%	0.75%	0.93%	1.15%	1.14%
2033	3,184	41,397	44,580	3,420	44,929	48,349	3,677	48,785	52,463	0.29%	0.36%	0.36%	0.59%	0.74%	0.73%	0.91%	1.12%	1.10%
2034	3,193	41,543	44,735	3,440	45,251	48,690	3,710	49,316	53,026	0.28%	0.35%	0.35%	0.57%	0.72%	0.71%	0.88%	1.09%	1.07%
2035	3,201	41,685	44,887	3,459	45,566	49,025	3,741	49,839	53,580	0.27%	0.34%	0.34%	0.56%	0.70%	0.69%	0.86%	1.06%	1.05%
2036	3,210	41,823	45,033	3,478	45,872	49,350	3,772	50,349	54,121	0.26%	0.33%	0.33%	0.54%	0.67%	0.66%	0.83%	1.02%	1.01%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,032,416	2,460,361	3,492,777	1,039,227	2,494,587	3,533,815	1,046,061	2,529,056	3,575,117	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,035,800	2,475,660	3,511,460	1,046,040	2,525,625	3,571,666	1,056,348	2,576,278	3,632,626	0.33%	0.62%	0.53%	0.66%	1.24%	1.07%	0.98%	1.87%	1.61%
2019	1,039,179	2,490,376	3,529,554	1,052,865	2,555,675	3,608,540	1,066,687	2,622,292	3,688,979	0.33%	0.59%	0.52%	0.65%	1.19%	1.03%	0.98%	1.79%	1.55%
2020	1,047,697	2,513,950	3,561,647	1,064,919	2,594,605	3,659,524	1,082,367	2,677,394	3,759,761	0.82%	0.95%	0.91%	1.14%	1.52%	1.41%	1.47%	2.10%	1.92%
2021	1,045,888	2,518,459	3,564,347	1,066,483	2,613,559	3,680,042	1,087,414	2,711,759	3,799,173	-0.17%	0.18%	0.08%	0.15%	0.73%	0.56%	0.47%	1.28%	1.05%
2022	1,049,221	2,532,009	3,581,230	1,073,279	2,641,746	3,715,025	1,097,809	2,755,723	3,853,532	0.32%	0.54%	0.47%	0.64%	1.08%	0.95%	0.96%	1.62%	1.43%
2023	1,052,531	2,545,337	3,597,868	1,080,051	2,669,636	3,749,687	1,108,199	2,799,483	3,907,682	0.32%	0.53%	0.46%	0.63%	1.06%	0.93%	0.95%	1.59%	1.41%
2024	1,061,044	2,568,045	3,629,089	1,092,181	2,707,451	3,799,633	1,124,128	2,853,913	3,978,041	0.81%	0.89%	0.87%	1.12%	1.42%	1.33%	1.44%	1.94%	1.80%
2025	1,059,076	2,571,445	3,630,521	1,093,504	2,724,751	3,818,255	1,128,936	2,886,721	4,015,657	-0.19%	0.13%	0.04%	0.12%	0.64%	0.49%	0.43%	1.15%	0.95%
2026	1,062,291	2,584,213	3,646,505	1,100,144	2,751,942	3,852,086	1,139,219	2,930,134	4,069,352	0.30%	0.50%	0.44%	0.61%	1.00%	0.89%	0.91%	1.50%	1.34%
2027	1,065,461	2,596,783	3,662,244	1,106,710	2,778,862	3,885,572	1,149,418	2,973,359	4,122,776	0.30%	0.49%	0.43%	0.60%	0.98%	0.87%	0.90%	1.48%	1.31%
2028	1,073,863	2,618,964	3,692,827	1,118,691	2,816,181	3,934,872	1,165,240	3,027,989	4,193,229	0.79%	0.85%	0.84%	1.08%	1.34%	1.27%	1.38%	1.84%	1.71%
2029	1,071,647	2,621,392	3,693,038	1,119,578	2,832,009	3,951,587	1,169,494	3,059,408	4,228,902	-0.21%	0.09%	0.01%	0.08%	0.56%	0.42%	0.37%	1.04%	0.85%
2030	1,074,663	2,633,386	3,708,049	1,125,881	2,858,126	3,984,007	1,179,369	3,102,043	4,281,412	0.28%	0.46%	0.41%	0.56%	0.92%	0.82%	0.84%	1.39%	1.24%
2031	1,077,565	2,645,168	3,722,733	1,131,961	2,883,920	4,015,881	1,188,923	3,144,375	4,333,298	0.27%	0.45%	0.40%	0.54%	0.90%	0.80%	0.81%	1.36%	1.21%
2032	1,085,692	2,666,660	3,752,352	1,143,438	2,920,303	4,063,741	1,204,064	3,198,396	4,402,460	0.75%	0.81%	0.80%	1.01%	1.26%	1.19%	1.27%	1.72%	1.60%
2033	1,083,023	2,667,913	3,750,935	1,143,442	2,934,105	4,077,547	1,207,034	3,227,380	4,434,413	-0.25%	0.05%	-0.04%	0.00%	0.47%	0.34%	0.25%	0.91%	0.73%
2034	1,085,584	2,678,911	3,764,495	1,148,851	2,958,556	4,107,407	1,215,598	3,268,129	4,483,727	0.24%	0.41%	0.36%	0.47%	0.83%	0.73%	0.71%	1.26%	1.11%
2035	1,088,037	2,689,709	3,777,745	1,154,042	2,982,683	4,136,725	1,223,837	3,308,537	4,532,374	0.23%	0.40%	0.35%	0.45%	0.82%	0.71%	0.68%	1.24%	1.08%
2036	1,095,781	2,710,359	3,806,140	1,164,763	3,017,683	4,182,447	1,237,866	3,361,065	4,598,930	0.71%	0.77%	0.75%	0.93%	1.17%	1.11%	1.15%	1.59%	1.47%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,918	538	2,457	1,931	546	2,477	1,944	554	2,498	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,925	542	2,467	1,944	554	2,497	1,963	566	2,528	0.33%	0.67%	0.40%	0.66%	1.34%	0.81%	0.98%	2.01%	1.21%
2019	1,931	546	2,476	1,956	561	2,517	1,982	577	2,558	0.33%	0.64%	0.40%	0.65%	1.29%	0.79%	0.98%	1.93%	1.19%
2020	1,937	549	2,486	1,969	568	2,537	2,001	587	2,589	0.32%	0.62%	0.39%	0.65%	1.25%	0.78%	0.97%	1.87%	1.17%
2021	1,943	552	2,496	1,982	575	2,556	2,020	598	2,618	0.32%	0.61%	0.38%	0.64%	1.21%	0.77%	0.96%	1.82%	1.16%
2022	1,950	556	2,505	1,994	582	2,576	2,040	609	2,648	0.32%	0.59%	0.38%	0.64%	1.19%	0.76%	0.96%	1.79%	1.15%
2023	1,956	559	2,515	2,007	588	2,595	2,059	619	2,678	0.32%	0.58%	0.38%	0.63%	1.17%	0.75%	0.95%	1.76%	1.13%
2024	1,962	562	2,524	2,019	595	2,615	2,078	630	2,709	0.31%	0.58%	0.37%	0.63%	1.15%	0.75%	0.94%	1.73%	1.12%
2025	1,968	565	2,533	2,032	602	2,634	2,098	641	2,739	0.31%	0.57%	0.37%	0.62%	1.14%	0.73%	0.92%	1.71%	1.11%
2026	1,974	568	2,542	2,044	609	2,653	2,117	652	2,768	0.30%	0.56%	0.36%	0.61%	1.12%	0.72%	0.91%	1.68%	1.09%
2027	1,980	572	2,551	2,056	615	2,672	2,136	662	2,798	0.30%	0.55%	0.35%	0.60%	1.10%	0.71%	0.90%	1.65%	1.07%
2028	1,985	575	2,560	2,068	622	2,690	2,154	673	2,828	0.29%	0.54%	0.35%	0.59%	1.08%	0.70%	0.88%	1.62%	1.05%
2029	1,991	578	2,569	2,080	629	2,709	2,173	684	2,857	0.29%	0.53%	0.34%	0.57%	1.06%	0.69%	0.86%	1.59%	1.04%
2030	1,997	581	2,577	2,092	635	2,727	2,191	695	2,886	0.28%	0.52%	0.33%	0.56%	1.04%	0.67%	0.84%	1.56%	1.02%
2031	2,002	584	2,586	2,103	642	2,745	2,209	705	2,914	0.27%	0.51%	0.32%	0.54%	1.02%	0.65%	0.81%	1.53%	0.98%
2032	2,007	587	2,594	2,114	648	2,762	2,226	716	2,942	0.26%	0.50%	0.31%	0.52%	0.99%	0.63%	0.78%	1.49%	0.95%
2033	2,012	589	2,602	2,125	654	2,779	2,243	726	2,969	0.25%	0.48%	0.30%	0.49%	0.97%	0.61%	0.74%	1.45%	0.92%
2034	2,017	592	2,609	2,135	660	2,795	2,259	736	2,995	0.24%	0.47%	0.29%	0.47%	0.94%	0.58%	0.71%	1.42%	0.88%
2035	2,022	595	2,616	2,144	667	2,811	2,274	747	3,021	0.23%	0.46%	0.28%	0.45%	0.92%	0.56%	0.68%	1.39%	0.85%
2036	2,026	597	2,623	2,154	673	2,826	2,289	757	3,045	0.22%	0.45%	0.27%	0.43%	0.89%	0.54%	0.65%	1.34%	0.82%





20 Year Customer Growth Rate	
High:	21.91%
Medium:	14.08%
Low:	6.79%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

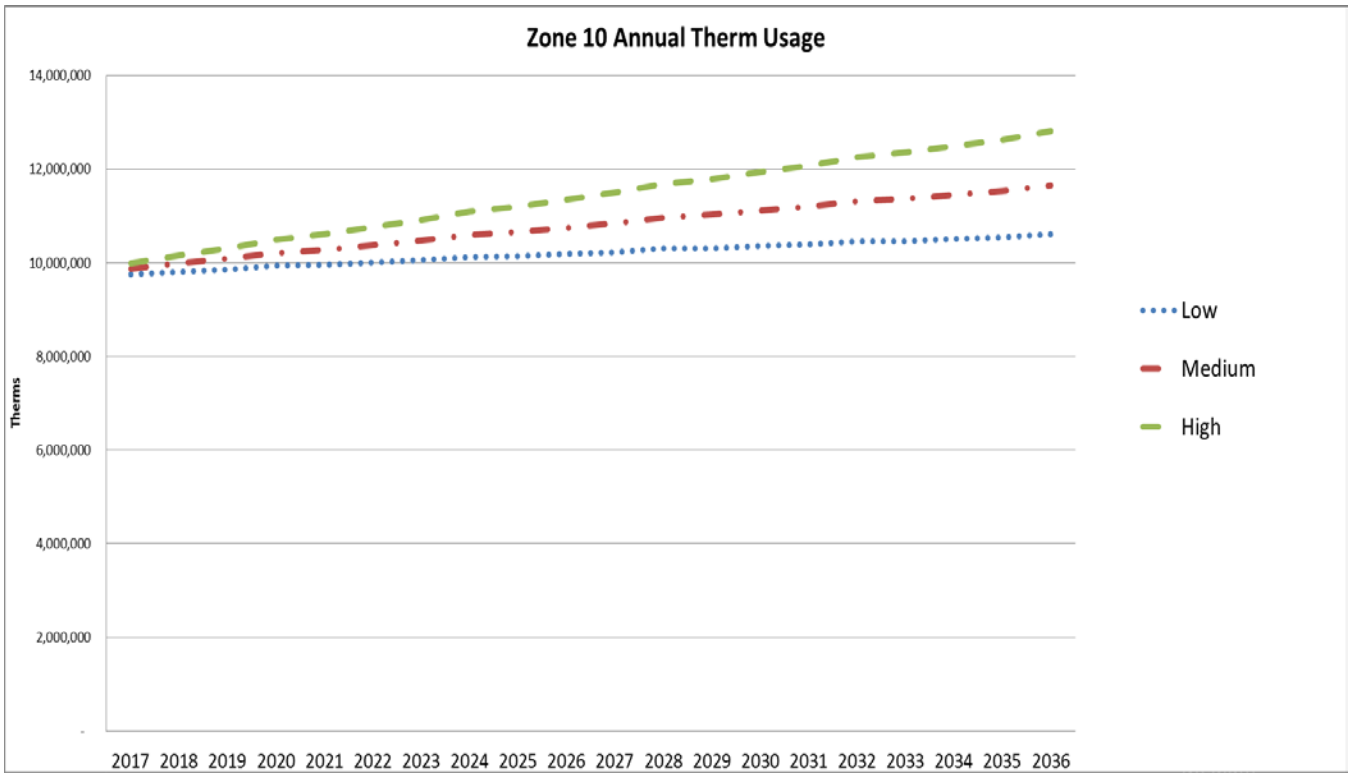
Zone 10

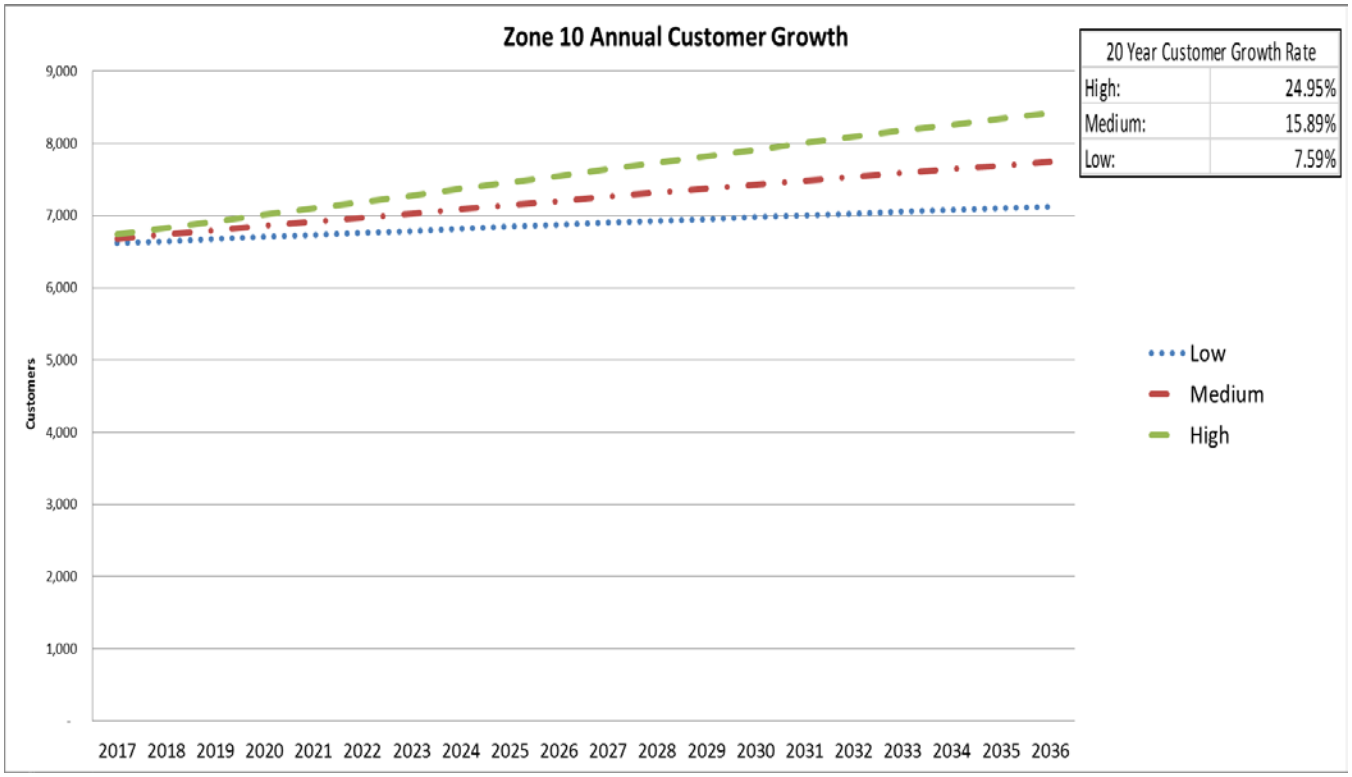
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	6,865,253	2,896,336	9,761,589	6,947,068	2,929,461	9,876,529	7,029,433	2,962,792	9,992,225	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	6,902,753	2,910,699	9,813,451	7,023,078	2,958,551	9,981,629	7,144,975	3,006,978	10,151,953	0.55%	0.50%	0.53%	1.09%	0.99%	1.06%	1.64%	1.49%	1.60%
2019	6,939,241	2,924,265	9,863,506	7,097,490	2,986,185	10,083,675	7,258,779	3,049,189	10,307,968	0.53%	0.47%	0.51%	1.06%	0.93%	1.02%	1.59%	1.40%	1.54%
2020	7,006,156	2,937,127	9,943,283	7,202,829	3,012,529	10,215,358	7,404,460	3,089,655	10,494,115	0.96%	0.44%	0.81%	1.48%	0.88%	1.31%	2.01%	1.33%	1.81%
2021	7,009,860	2,949,442	9,959,303	7,242,783	3,037,891	10,280,674	7,482,947	3,128,823	10,611,770	0.05%	0.42%	0.16%	0.55%	0.84%	0.64%	1.06%	1.27%	1.12%
2022	7,044,355	2,961,237	10,005,592	7,314,366	3,062,314	10,376,680	7,594,347	3,166,748	10,761,095	0.49%	0.40%	0.46%	0.99%	0.80%	0.93%	1.49%	1.21%	1.41%
2023	7,078,475	2,972,629	10,051,105	7,385,575	3,086,032	10,471,607	7,705,792	3,203,780	10,909,572	0.48%	0.38%	0.45%	0.97%	0.77%	0.91%	1.47%	1.17%	1.38%
2024	7,144,217	2,983,667	10,127,884	7,490,126	3,109,138	10,599,264	7,852,810	3,240,054	11,092,864	0.93%	0.37%	0.76%	1.42%	0.75%	1.22%	1.91%	1.13%	1.68%
2025	7,145,804	2,994,396	10,140,201	7,527,274	3,131,720	10,658,994	7,929,432	3,275,699	11,205,131	0.02%	0.36%	0.12%	0.50%	0.73%	0.56%	0.98%	1.10%	1.01%
2026	7,178,898	3,004,802	10,183,700	7,597,554	3,153,765	10,751,319	8,041,312	3,310,700	11,352,013	0.46%	0.35%	0.43%	0.93%	0.70%	0.87%	1.41%	1.07%	1.31%
2027	7,211,599	3,014,918	10,226,518	7,667,431	3,175,338	10,842,769	8,153,190	3,345,155	11,498,345	0.46%	0.34%	0.42%	0.92%	0.68%	0.85%	1.39%	1.04%	1.29%
2028	7,276,443	3,024,772	10,301,215	7,771,780	3,196,489	10,968,269	8,302,453	3,379,136	11,681,588	0.90%	0.33%	0.73%	1.36%	0.67%	1.16%	1.83%	1.02%	1.59%
2029	7,275,819	3,034,387	10,310,206	7,805,930	3,217,266	11,023,196	8,376,836	3,412,709	11,789,545	-0.01%	0.32%	0.09%	0.44%	0.65%	0.50%	0.90%	0.99%	0.92%
2030	7,307,221	3,043,735	10,350,956	7,874,326	3,237,624	11,111,950	8,488,244	3,445,809	11,934,053	0.43%	0.31%	0.40%	0.88%	0.63%	0.81%	1.33%	0.97%	1.23%
2031	7,338,007	3,052,804	10,390,811	7,941,801	3,257,512	11,199,314	8,598,785	3,478,341	12,077,126	0.42%	0.30%	0.39%	0.86%	0.61%	0.79%	1.30%	0.94%	1.20%
2032	7,401,195	3,061,587	10,462,782	8,044,236	3,276,886	11,321,122	8,747,455	3,510,212	12,257,667	0.86%	0.29%	0.69%	1.29%	0.59%	1.09%	1.73%	0.92%	1.49%
2033	7,397,451	3,070,109	10,467,560	8,073,215	3,295,814	11,369,029	8,815,861	3,541,534	12,357,395	-0.05%	0.28%	0.05%	0.36%	0.58%	0.42%	0.78%	0.89%	0.81%
2034	7,426,125	3,078,369	10,504,494	8,137,197	3,314,288	11,451,485	8,922,443	3,572,286	12,494,729	0.39%	0.27%	0.35%	0.79%	0.56%	0.73%	1.21%	0.87%	1.11%
2035	7,454,242	3,086,380	10,540,622	8,200,326	3,332,340	11,532,666	9,028,194	3,602,524	12,630,718	0.38%	0.26%	0.34%	0.78%	0.54%	0.71%	1.19%	0.85%	1.09%
2036	7,515,220	3,094,104	10,609,324	8,299,372	3,349,848	11,649,220	9,173,585	3,632,014	12,805,599	0.82%	0.25%	0.65%	1.21%	0.53%	1.01%	1.61%	0.82%	1.38%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	7,935	104,426	112,361	8,026	105,653	113,679	8,117	106,887	115,005	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	7,975	104,984	112,959	8,106	106,784	114,890	8,238	108,607	116,845	0.50%	0.53%	0.53%	0.99%	1.07%	1.07%	1.49%	1.61%	1.60%
2019	8,012	105,526	113,537	8,181	107,888	116,069	8,354	110,295	118,649	0.47%	0.52%	0.51%	0.93%	1.03%	1.03%	1.40%	1.55%	1.54%
2020	8,047	106,053	114,100	8,254	108,969	117,223	8,465	111,958	120,423	0.44%	0.50%	0.50%	0.88%	1.00%	0.99%	1.33%	1.51%	1.50%
2021	8,081	106,569	114,649	8,323	110,032	118,355	8,572	113,602	122,174	0.42%	0.49%	0.48%	0.84%	0.98%	0.97%	1.27%	1.47%	1.45%
2022	8,113	107,076	115,189	8,390	111,084	119,474	8,676	115,238	123,914	0.40%	0.48%	0.47%	0.80%	0.96%	0.95%	1.21%	1.44%	1.42%
2023	8,144	107,576	115,720	8,455	112,128	120,583	8,777	116,870	125,648	0.38%	0.47%	0.46%	0.77%	0.94%	0.93%	1.17%	1.42%	1.40%
2024	8,174	108,071	116,245	8,518	113,166	121,684	8,877	118,504	127,381	0.37%	0.46%	0.45%	0.75%	0.93%	0.91%	1.13%	1.40%	1.38%
2025	8,204	108,560	116,764	8,580	114,197	122,777	8,975	120,135	129,109	0.36%	0.45%	0.45%	0.73%	0.91%	0.90%	1.10%	1.38%	1.36%
2026	8,232	109,042	117,275	8,640	115,221	123,861	9,070	121,763	130,834	0.35%	0.44%	0.44%	0.70%	0.90%	0.88%	1.07%	1.36%	1.34%
2027	8,260	109,518	117,778	8,700	116,237	124,937	9,165	123,389	132,554	0.34%	0.44%	0.43%	0.68%	0.88%	0.87%	1.04%	1.33%	1.31%
2028	8,287	109,988	118,275	8,758	117,246	126,003	9,258	125,012	134,270	0.33%	0.43%	0.42%	0.67%	0.87%	0.85%	1.02%	1.32%	1.29%
2029	8,313	110,451	118,764	8,814	118,246	127,061	9,350	126,631	135,981	0.32%	0.42%	0.41%	0.65%	0.85%	0.84%	0.99%	1.30%	1.27%
2030	8,339	110,906	119,245	8,870	119,237	128,107	9,441	128,243	137,684	0.31%	0.41%	0.40%	0.63%	0.84%	0.82%	0.97%	1.27%	1.25%
2031	8,364	111,352	119,716	8,925	120,213	129,138	9,530	129,841	139,371	0.30%	0.40%	0.39%	0.61%	0.82%	0.80%	0.94%	1.25%	1.23%
2032	8,388	111,787	120,175	8,978	121,171	130,149	9,617	131,417	141,034	0.29%	0.39%	0.38%	0.59%	0.80%	0.78%	0.92%	1.21%	1.19%
2033	8,411	112,211	120,623	9,030	122,111	131,141	9,703	132,973	142,676	0.28%	0.38%	0.37%	0.58%	0.78%	0.76%	0.89%	1.18%	1.16%
2034	8,434	112,625	121,059	9,080	123,034	132,114	9,787	134,508	144,296	0.27%	0.37%	0.36%	0.56%	0.76%	0.74%	0.87%	1.15%	1.14%
2035	8,456	113,031	121,487	9,130	123,943	133,072	9,870	136,030	145,900	0.26%	0.36%	0.35%	0.54%	0.74%	0.73%	0.85%	1.13%	1.11%
2036	8,477	113,424	121,901	9,178	124,830	134,007	9,951	137,522	147,473	0.25%	0.35%	0.34%	0.53%	0.72%	0.70%	0.82%	1.10%	1.08%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,003,219	6,758,370	9,761,589	3,025,564	6,850,965	9,876,529	3,048,004	6,944,221	9,992,225	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,014,336	6,799,116	9,813,451	3,047,988	6,933,641	9,981,629	3,081,927	7,070,026	10,151,953	0.37%	0.60%	0.53%	0.74%	1.21%	1.06%	1.11%	1.81%	1.60%
2019	3,025,453	6,838,053	9,863,506	3,070,509	7,013,166	10,083,675	3,116,144	7,191,824	10,307,968	0.37%	0.57%	0.51%	0.74%	1.15%	1.02%	1.11%	1.72%	1.54%
2020	3,048,110	6,895,173	9,943,283	3,104,855	7,110,503	10,215,358	3,162,574	7,331,541	10,494,115	0.75%	0.84%	0.81%	1.12%	1.39%	1.31%	1.49%	1.94%	1.81%
2021	3,047,591	6,911,712	9,959,303	3,115,645	7,165,029	10,280,674	3,185,162	7,426,608	10,611,770	-0.02%	0.24%	0.16%	0.35%	0.77%	0.64%	0.71%	1.30%	1.12%
2022	3,058,619	6,946,973	10,005,592	3,138,273	7,238,407	10,376,680	3,219,987	7,541,108	10,761,095	0.36%	0.51%	0.46%	0.73%	1.02%	0.93%	1.09%	1.54%	1.41%
2023	3,069,596	6,981,509	10,051,105	3,160,894	7,310,713	10,471,607	3,254,952	7,654,620	10,909,572	0.36%	0.50%	0.45%	0.72%	1.00%	0.91%	1.09%	1.51%	1.38%
2024	3,092,282	7,035,602	10,127,884	3,195,688	7,403,576	10,599,264	3,302,673	7,790,191	11,092,864	0.74%	0.77%	0.76%	1.10%	1.27%	1.22%	1.47%	1.77%	1.68%
2025	3,091,378	7,048,823	10,140,201	3,206,070	7,452,923	10,658,994	3,325,233	7,879,898	11,205,131	-0.03%	0.19%	0.12%	0.32%	0.67%	0.56%	0.68%	1.15%	1.01%
2026	3,102,125	7,081,575	10,183,700	3,228,505	7,522,814	10,751,319	3,360,363	7,991,650	11,352,013	0.35%	0.46%	0.43%	0.70%	0.94%	0.87%	1.06%	1.42%	1.31%
2027	3,112,756	7,113,761	10,226,518	3,250,791	7,591,977	10,842,769	3,395,414	8,102,931	11,498,345	0.34%	0.45%	0.42%	0.69%	0.92%	0.85%	1.04%	1.39%	1.29%
2028	3,135,165	7,166,050	10,301,215	3,285,390	7,682,879	10,968,269	3,443,443	8,238,145	11,681,588	0.72%	0.74%	0.73%	1.06%	1.20%	1.16%	1.41%	1.67%	1.59%
2029	3,133,612	7,176,594	10,310,206	3,294,793	7,728,403	11,023,196	3,465,074	8,324,471	11,789,545	-0.05%	0.15%	0.09%	0.29%	0.59%	0.50%	0.63%	1.05%	0.92%
2030	3,143,840	7,207,116	10,350,956	3,316,511	7,795,439	11,111,950	3,499,682	8,434,371	11,934,053	0.33%	0.43%	0.40%	0.66%	0.87%	0.81%	1.00%	1.32%	1.23%
2031	3,153,748	7,237,063	10,390,811	3,337,642	7,861,672	11,199,314	3,533,508	8,543,618	12,077,126	0.32%	0.42%	0.39%	0.64%	0.85%	0.79%	0.97%	1.30%	1.20%
2032	3,175,404	7,287,378	10,462,782	3,371,016	7,950,105	11,321,122	3,580,197	8,677,471	12,257,667	0.69%	0.70%	0.69%	1.00%	1.12%	1.09%	1.32%	1.57%	1.49%
2033	3,172,597	7,294,963	10,467,560	3,378,110	7,990,919	11,369,029	3,598,734	8,758,661	12,357,395	-0.09%	0.10%	0.05%	0.21%	0.51%	0.42%	0.52%	0.94%	0.81%
2034	3,181,554	7,322,941	10,504,494	3,397,466	8,054,019	11,451,485	3,630,149	8,864,581	12,494,729	0.28%	0.38%	0.35%	0.57%	0.79%	0.73%	0.87%	1.21%	1.11%
2035	3,190,205	7,350,417	10,540,622	3,416,247	8,116,419	11,532,666	3,660,770	8,969,948	12,630,718	0.27%	0.38%	0.34%	0.55%	0.77%	0.71%	0.84%	1.19%	1.09%
2036	3,210,794	7,398,530	10,609,324	3,447,657	8,201,563	11,649,220	3,704,853	9,100,746	12,805,599	0.65%	0.65%	0.65%	0.92%	1.05%	1.01%	1.20%	1.46%	1.38%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	5,196	1,424	6,619	5,235	1,445	6,680	5,274	1,467	6,741	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	5,215	1,433	6,648	5,274	1,465	6,739	5,334	1,497	6,831	0.38%	0.68%	0.44%	0.75%	1.36%	0.88%	1.13%	2.04%	1.33%
2019	5,235	1,443	6,677	5,314	1,484	6,798	5,394	1,526	6,920	0.37%	0.65%	0.43%	0.75%	1.31%	0.87%	1.13%	1.96%	1.31%
2020	5,254	1,452	6,706	5,353	1,503	6,856	5,454	1,555	7,010	0.37%	0.63%	0.43%	0.74%	1.26%	0.86%	1.12%	1.90%	1.29%
2021	5,273	1,461	6,734	5,393	1,521	6,914	5,515	1,584	7,099	0.37%	0.61%	0.42%	0.74%	1.23%	0.85%	1.11%	1.84%	1.28%
2022	5,293	1,470	6,762	5,433	1,540	6,972	5,576	1,613	7,189	0.37%	0.60%	0.42%	0.74%	1.20%	0.84%	1.11%	1.81%	1.27%
2023	5,312	1,478	6,790	5,472	1,558	7,030	5,638	1,641	7,279	0.36%	0.59%	0.41%	0.73%	1.18%	0.83%	1.10%	1.78%	1.25%
2024	5,331	1,487	6,818	5,512	1,576	7,088	5,699	1,670	7,370	0.36%	0.58%	0.41%	0.73%	1.17%	0.82%	1.10%	1.76%	1.25%
2025	5,350	1,495	6,846	5,552	1,594	7,146	5,761	1,699	7,460	0.36%	0.57%	0.40%	0.72%	1.15%	0.81%	1.08%	1.73%	1.23%
2026	5,369	1,504	6,873	5,591	1,612	7,204	5,823	1,728	7,551	0.35%	0.57%	0.40%	0.71%	1.13%	0.81%	1.07%	1.71%	1.22%
2027	5,388	1,512	6,900	5,630	1,630	7,261	5,885	1,757	7,642	0.35%	0.56%	0.39%	0.70%	1.12%	0.79%	1.06%	1.68%	1.20%
2028	5,406	1,521	6,927	5,669	1,648	7,318	5,946	1,786	7,733	0.34%	0.55%	0.39%	0.69%	1.10%	0.78%	1.05%	1.66%	1.19%
2029	5,425	1,529	6,953	5,708	1,666	7,374	6,008	1,815	7,823	0.34%	0.54%	0.38%	0.68%	1.08%	0.77%	1.03%	1.63%	1.17%
2030	5,443	1,537	6,979	5,746	1,684	7,430	6,069	1,845	7,913	0.33%	0.53%	0.38%	0.67%	1.07%	0.76%	1.02%	1.60%	1.15%
2031	5,460	1,545	7,005	5,783	1,702	7,485	6,128	1,874	8,002	0.32%	0.52%	0.36%	0.65%	1.05%	0.74%	0.98%	1.58%	1.12%
2032	5,477	1,553	7,030	5,820	1,719	7,539	6,187	1,903	8,089	0.31%	0.51%	0.35%	0.63%	1.02%	0.72%	0.95%	1.54%	1.09%
2033	5,493	1,560	7,054	5,855	1,736	7,591	6,244	1,931	8,175	0.30%	0.50%	0.34%	0.61%	1.00%	0.70%	0.92%	1.51%	1.06%
2034	5,509	1,568	7,077	5,889	1,753	7,642	6,300	1,960	8,259	0.29%	0.49%	0.33%	0.58%	0.98%	0.67%	0.89%	1.48%	1.03%
2035	5,524	1,576	7,100	5,922	1,770	7,692	6,354	1,988	8,342	0.28%	0.48%	0.32%	0.56%	0.96%	0.66%	0.86%	1.45%	1.00%
2036	5,539	1,583	7,122	5,955	1,787	7,741	6,407	2,016	8,423	0.27%	0.46%	0.31%	0.55%	0.93%	0.64%	0.84%	1.41%	0.97%





20 Year Customer Growth Rate	
High:	24.95%
Medium:	15.89%
Low:	7.59%

20-Year Forecast Data

Cascade Natural Gas

2016 IRP Demand Forecast Summary Tables

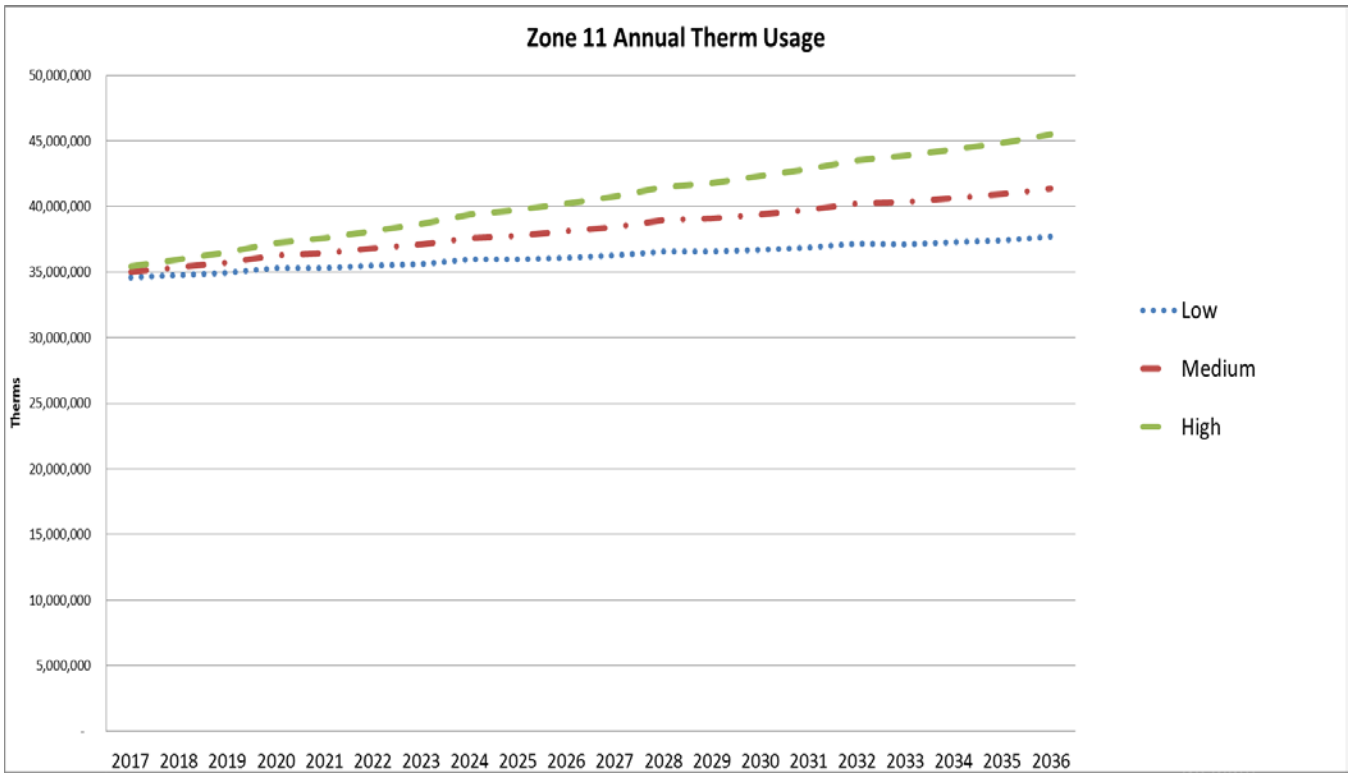
Zone 11

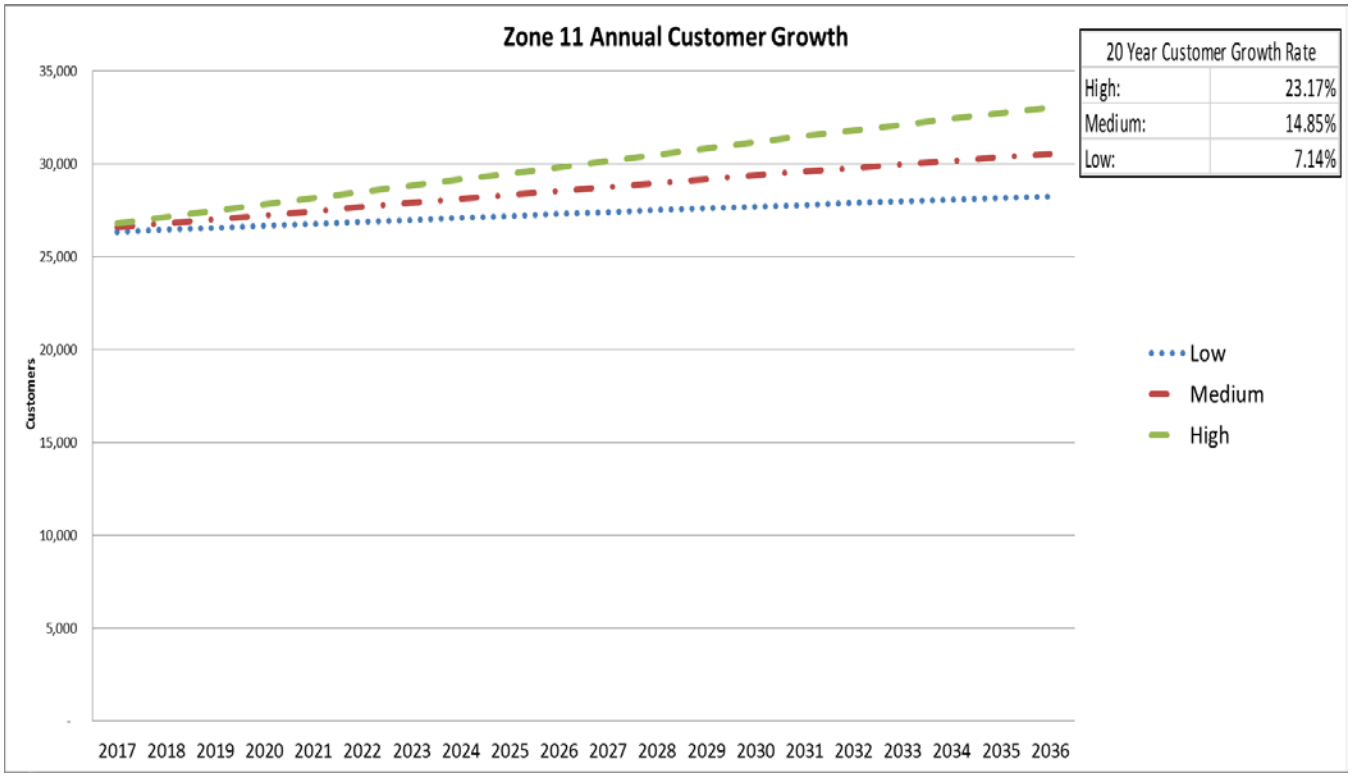
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	26,177,531	8,442,941	34,620,472	26,473,078	8,549,650	35,022,728	26,770,564	8,657,105	35,427,669	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	26,312,314	8,490,329	34,802,643	26,746,176	8,645,766	35,391,942	27,185,547	8,803,304	35,988,851	0.51%	0.56%	0.53%	1.03%	1.12%	1.05%	1.55%	1.69%	1.58%
2019	26,443,135	8,535,761	34,978,897	27,012,798	8,738,499	35,751,297	27,593,054	8,945,246	36,538,300	0.50%	0.54%	0.51%	1.00%	1.07%	1.02%	1.50%	1.61%	1.53%
2020	26,719,473	8,579,586	35,299,059	27,426,996	8,828,503	36,255,499	28,151,728	9,083,863	37,235,592	1.05%	0.51%	0.92%	1.53%	1.03%	1.41%	2.02%	1.55%	1.91%
2021	26,695,538	8,622,047	35,317,585	27,531,532	8,916,232	36,447,764	28,392,542	9,219,784	37,612,326	-0.09%	0.49%	0.05%	0.38%	0.99%	0.53%	0.86%	1.50%	1.01%
2022	26,818,595	8,663,554	35,482,149	27,786,512	9,002,502	36,789,014	28,788,744	9,354,242	38,142,987	0.46%	0.48%	0.47%	0.93%	0.97%	0.94%	1.40%	1.46%	1.41%
2023	26,940,004	8,704,263	35,644,267	28,039,422	9,087,616	37,127,038	29,183,836	9,487,684	38,671,520	0.45%	0.47%	0.46%	0.91%	0.95%	0.92%	1.37%	1.43%	1.39%
2024	27,211,659	8,744,302	35,955,961	28,449,444	9,171,818	37,621,262	29,744,608	9,620,469	39,365,077	1.01%	0.46%	0.87%	1.46%	0.93%	1.33%	1.92%	1.40%	1.79%
2025	27,178,990	8,783,768	35,962,757	28,541,200	9,255,298	37,796,498	29,973,916	9,752,883	39,726,799	-0.12%	0.45%	0.02%	0.32%	0.91%	0.47%	0.77%	1.38%	0.92%
2026	27,296,298	8,822,575	36,118,873	28,789,439	9,337,866	38,127,304	30,367,862	9,884,614	40,252,476	0.43%	0.44%	0.43%	0.87%	0.89%	0.88%	1.31%	1.35%	1.32%
2027	27,412,205	8,860,861	36,273,066	29,035,983	9,419,796	38,455,778	30,761,150	10,016,085	40,777,235	0.42%	0.43%	0.43%	0.86%	0.88%	0.86%	1.30%	1.33%	1.30%
2028	27,680,632	8,898,531	36,579,163	29,444,325	9,500,872	38,945,197	31,327,456	10,146,935	41,474,391	0.98%	0.43%	0.84%	1.41%	0.86%	1.27%	1.84%	1.31%	1.71%
2029	27,639,477	8,935,708	36,575,185	29,523,104	9,581,342	39,104,447	31,544,182	10,277,543	41,821,725	-0.15%	0.42%	-0.01%	0.27%	0.85%	0.41%	0.69%	1.29%	0.84%
2030	27,750,273	8,971,921	36,722,194	29,762,928	9,660,708	39,423,636	31,932,870	10,407,343	42,340,214	0.40%	0.41%	0.40%	0.81%	0.83%	0.82%	1.23%	1.26%	1.24%
2031	27,858,774	9,007,309	36,866,083	29,999,630	9,739,327	39,738,957	32,318,793	10,536,948	42,855,741	0.39%	0.39%	0.39%	0.80%	0.81%	0.80%	1.21%	1.25%	1.22%
2032	28,120,535	9,041,466	37,162,001	30,400,246	9,816,309	40,216,555	32,881,314	10,664,886	43,546,201	0.94%	0.38%	0.80%	1.34%	0.79%	1.20%	1.74%	1.21%	1.61%
2033	28,066,624	9,074,733	37,141,356	30,458,215	9,892,077	40,350,292	33,072,929	10,791,666	43,864,594	-0.19%	0.37%	-0.06%	0.19%	0.77%	0.33%	0.58%	1.19%	0.73%
2034	28,166,560	9,107,098	37,273,658	30,680,945	9,966,596	40,647,542	33,442,201	10,917,212	44,359,413	0.36%	0.36%	0.36%	0.73%	0.75%	0.74%	1.12%	1.16%	1.13%
2035	28,264,066	9,138,521	37,402,588	30,900,018	10,040,031	40,940,049	33,807,515	11,041,915	44,849,429	0.35%	0.35%	0.35%	0.71%	0.74%	0.72%	1.09%	1.14%	1.10%
2036	28,517,374	9,168,966	37,686,340	31,288,145	10,112,030	41,400,175	34,357,473	11,165,038	45,522,510	0.90%	0.33%	0.76%	1.26%	0.72%	1.12%	1.63%	1.12%	1.50%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	23,131	361,327	384,458	23,424	365,509	388,933	23,718	369,719	393,437	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	23,261	363,234	386,495	23,687	369,374	393,061	24,119	375,591	399,710	0.56%	0.53%	0.53%	1.12%	1.06%	1.06%	1.69%	1.59%	1.59%
2019	23,386	365,085	388,470	23,941	373,146	397,087	24,508	381,358	405,865	0.54%	0.51%	0.51%	1.07%	1.02%	1.02%	1.61%	1.54%	1.54%
2020	23,506	366,889	390,395	24,188	376,845	401,033	24,887	387,045	411,932	0.51%	0.49%	0.50%	1.03%	0.99%	0.99%	1.55%	1.49%	1.49%
2021	23,622	368,655	392,277	24,428	380,484	404,912	25,260	392,670	417,930	0.49%	0.48%	0.48%	0.99%	0.97%	0.97%	1.50%	1.45%	1.46%
2022	23,736	370,396	394,131	24,664	384,092	408,757	25,628	398,278	423,906	0.48%	0.47%	0.47%	0.97%	0.95%	0.95%	1.46%	1.43%	1.43%
2023	23,847	372,113	395,960	24,898	387,670	412,568	25,994	403,869	429,863	0.47%	0.46%	0.46%	0.95%	0.93%	0.93%	1.43%	1.40%	1.41%
2024	23,957	373,813	397,770	25,128	391,231	416,360	26,357	409,463	435,820	0.46%	0.46%	0.46%	0.93%	0.92%	0.92%	1.40%	1.39%	1.39%
2025	24,065	375,493	399,558	25,357	394,770	420,127	26,720	415,052	441,772	0.45%	0.45%	0.45%	0.91%	0.90%	0.90%	1.38%	1.36%	1.37%
2026	24,171	377,153	401,324	25,583	398,283	423,866	27,081	420,629	447,710	0.44%	0.44%	0.44%	0.89%	0.89%	0.89%	1.35%	1.34%	1.34%
2027	24,276	378,793	403,069	25,808	401,773	427,580	27,441	426,197	453,639	0.43%	0.43%	0.43%	0.88%	0.88%	0.88%	1.33%	1.32%	1.32%
2028	24,380	380,410	404,790	26,030	405,233	431,263	27,800	431,748	459,548	0.43%	0.43%	0.43%	0.86%	0.86%	0.86%	1.31%	1.30%	1.30%
2029	24,481	382,009	406,490	26,250	408,669	434,919	28,158	437,287	465,445	0.42%	0.42%	0.42%	0.85%	0.85%	0.85%	1.29%	1.28%	1.28%
2030	24,581	383,577	408,157	26,468	412,064	438,532	28,513	442,793	471,306	0.41%	0.41%	0.41%	0.83%	0.83%	0.83%	1.26%	1.26%	1.26%
2031	24,678	385,113	409,791	26,683	415,417	442,100	28,868	448,262	477,130	0.39%	0.40%	0.40%	0.81%	0.81%	0.81%	1.25%	1.24%	1.24%
2032	24,771	386,604	411,376	26,894	418,697	445,591	29,219	453,643	482,862	0.38%	0.39%	0.39%	0.79%	0.79%	0.79%	1.21%	1.20%	1.20%
2033	24,862	388,059	412,921	27,102	421,916	449,018	29,566	458,953	488,520	0.37%	0.38%	0.38%	0.77%	0.77%	0.77%	1.19%	1.17%	1.17%
2034	24,951	389,476	414,427	27,306	425,075	452,381	29,910	464,192	494,103	0.36%	0.37%	0.36%	0.75%	0.75%	0.75%	1.16%	1.14%	1.14%
2035	25,037	390,859	415,896	27,507	428,182	455,689	30,252	469,376	499,628	0.35%	0.36%	0.35%	0.74%	0.73%	0.73%	1.14%	1.12%	1.12%
2036	25,120	392,202	417,323	27,704	431,221	458,925	30,589	474,472	505,061	0.33%	0.34%	0.34%	0.72%	0.71%	0.71%	1.12%	1.09%	1.09%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	13,180,938	21,439,534	34,620,472	13,271,271	21,751,457	35,022,728	13,361,923	22,065,746	35,427,669	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	13,225,853	21,576,790	34,802,643	13,361,739	22,030,204	35,391,942	13,498,583	22,490,268	35,988,851	0.34%	0.64%	0.53%	0.68%	1.28%	1.05%	1.02%	1.92%	1.58%
2019	13,270,729	21,708,168	34,978,897	13,452,444	22,298,853	35,751,297	13,636,082	22,902,218	36,538,300	0.34%	0.61%	0.51%	0.68%	1.22%	1.02%	1.02%	1.83%	1.53%
2020	13,379,377	21,919,682	35,299,059	13,608,141	22,647,358	36,255,499	13,840,132	23,395,460	37,235,592	0.82%	0.97%	0.92%	1.16%	1.56%	1.41%	1.50%	2.15%	1.91%
2021	13,359,938	21,957,647	35,317,585	13,633,706	22,814,059	36,447,764	13,912,297	23,700,029	37,612,326	-0.15%	0.17%	0.05%	0.19%	0.74%	0.53%	0.52%	1.30%	1.01%
2022	13,404,302	22,077,847	35,482,149	13,724,319	23,064,695	36,789,014	14,051,094	24,091,892	38,142,987	0.33%	0.55%	0.47%	0.66%	1.10%	0.94%	1.00%	1.65%	1.41%
2023	13,448,408	22,195,859	35,644,267	13,814,713	23,312,324	37,127,038	14,190,035	24,481,484	38,671,520	0.33%	0.53%	0.46%	0.66%	1.07%	0.92%	0.99%	1.62%	1.39%
2024	13,557,114	22,398,847	35,955,961	13,971,781	23,649,481	37,621,262	14,398,096	24,966,981	39,365,077	0.81%	0.91%	0.87%	1.14%	1.45%	1.33%	1.47%	1.98%	1.79%
2025	13,535,742	22,427,015	35,962,757	13,994,624	23,801,874	37,796,498	14,467,981	25,258,818	39,726,799	-0.16%	0.13%	0.02%	0.16%	0.64%	0.47%	0.49%	1.17%	0.92%
2026	13,578,725	22,540,148	36,118,873	14,083,619	24,043,685	38,127,304	14,606,169	25,646,307	40,252,476	0.32%	0.50%	0.43%	0.64%	1.02%	0.88%	0.96%	1.53%	1.32%
2027	13,621,162	22,651,904	36,273,066	14,171,778	24,284,000	38,455,778	14,743,516	26,033,719	40,777,235	0.31%	0.50%	0.43%	0.63%	1.00%	0.86%	0.94%	1.51%	1.30%
2028	13,728,581	22,850,582	36,579,163	14,327,368	24,617,829	38,945,197	14,951,129	26,523,262	41,474,391	0.79%	0.88%	0.84%	1.10%	1.37%	1.27%	1.41%	1.88%	1.71%
2029	13,704,148	22,871,037	36,575,185	14,345,018	24,759,428	39,104,447	15,014,741	26,806,984	41,821,725	-0.18%	0.09%	-0.01%	0.12%	0.58%	0.41%	0.43%	1.07%	0.84%
2030	13,744,706	22,977,487	36,722,194	14,430,096	24,993,540	39,423,636	15,148,584	27,191,630	42,340,214	0.30%	0.47%	0.40%	0.59%	0.95%	0.82%	0.89%	1.43%	1.24%
2031	13,783,841	23,082,243	36,866,083	14,512,450	25,226,507	39,738,957	15,278,556	27,577,185	42,855,741	0.28%	0.46%	0.39%	0.57%	0.93%	0.80%	0.86%	1.42%	1.22%
2032	13,887,899	23,274,102	37,162,001	14,662,053	25,554,502	40,216,555	15,478,425	28,067,775	43,546,201	0.75%	0.83%	0.80%	1.03%	1.30%	1.20%	1.31%	1.78%	1.61%
2033	13,857,786	23,283,570	37,141,356	14,668,772	25,681,520	40,350,292	15,526,404	28,338,191	43,864,594	-0.22%	0.04%	-0.06%	0.05%	0.50%	0.33%	0.31%	0.96%	0.73%
2034	13,892,672	23,380,986	37,273,658	14,742,850	25,904,692	40,647,542	15,644,380	28,715,033	44,359,413	0.25%	0.42%	0.36%	0.51%	0.87%	0.74%	0.76%	1.33%	1.13%
2035	13,926,194	23,476,393	37,402,588	14,814,235	26,125,813	40,940,049	15,758,395	29,091,035	44,849,429	0.24%	0.41%	0.35%	0.48%	0.85%	0.72%	0.73%	1.31%	1.10%
2036	14,025,512	23,660,828	37,686,340	14,954,629	26,445,546	41,400,175	15,944,970	29,577,540	45,522,510	0.71%	0.79%	0.76%	0.95%	1.22%	1.12%	1.18%	1.67%	1.50%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	21,594	4,760	26,354	21,747	4,835	26,582	21,901	4,910	26,811	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	21,670	4,793	26,464	21,901	4,903	26,804	22,134	5,014	27,148	0.35%	0.70%	0.42%	0.71%	1.41%	0.83%	1.06%	2.11%	1.25%
2019	21,747	4,826	26,572	22,055	4,969	27,024	22,367	5,116	27,483	0.35%	0.68%	0.41%	0.70%	1.35%	0.82%	1.06%	2.03%	1.24%
2020	21,823	4,857	26,680	22,210	5,034	27,244	22,602	5,216	27,818	0.35%	0.65%	0.40%	0.70%	1.31%	0.81%	1.05%	1.96%	1.22%
2021	21,898	4,888	26,786	22,364	5,098	27,462	22,838	5,316	28,153	0.35%	0.63%	0.40%	0.69%	1.27%	0.80%	1.04%	1.91%	1.20%
2022	21,974	4,919	26,892	22,518	5,162	27,680	23,074	5,415	28,490	0.34%	0.62%	0.40%	0.69%	1.25%	0.79%	1.04%	1.87%	1.19%
2023	22,049	4,949	26,998	22,672	5,225	27,897	23,312	5,515	28,826	0.34%	0.61%	0.39%	0.68%	1.23%	0.79%	1.03%	1.84%	1.18%
2024	22,124	4,979	27,102	22,826	5,288	28,114	23,549	5,615	29,164	0.34%	0.60%	0.39%	0.68%	1.21%	0.78%	1.02%	1.82%	1.17%
2025	22,198	5,008	27,206	22,979	5,351	28,331	23,787	5,715	29,502	0.33%	0.59%	0.38%	0.67%	1.19%	0.77%	1.01%	1.79%	1.16%
2026	22,271	5,037	27,309	23,132	5,414	28,545	24,023	5,816	29,839	0.33%	0.59%	0.38%	0.66%	1.17%	0.76%	0.99%	1.76%	1.14%
2027	22,344	5,067	27,410	23,282	5,476	28,759	24,259	5,917	30,176	0.33%	0.58%	0.37%	0.65%	1.15%	0.75%	0.98%	1.73%	1.13%
2028	22,415	5,095	27,511	23,432	5,539	28,970	24,492	6,018	30,510	0.32%	0.57%	0.37%	0.64%	1.14%	0.74%	0.96%	1.71%	1.11%
2029	22,486	5,124	27,610	23,579	5,601	29,180	24,725	6,119	30,844	0.31%	0.56%	0.36%	0.63%	1.12%	0.72%	0.95%	1.68%	1.09%
2030	22,555	5,152	27,707	23,726	5,662	29,388	24,955	6,220	31,175	0.31%	0.55%	0.35%	0.62%	1.10%	0.71%	0.93%	1.65%	1.07%
2031	22,623	5,180	27,802	23,867	5,723	29,591	25,179	6,322	31,501	0.30%	0.54%	0.34%	0.60%	1.08%	0.69%	0.90%	1.63%	1.04%
2032	22,687	5,207	27,894	24,005	5,784	29,788	25,397	6,422	31,819	0.29%	0.53%	0.33%	0.57%	1.05%	0.67%	0.86%	1.59%	1.01%
2033	22,750	5,234	27,983	24,137	5,843	29,981	25,608	6,521	32,130	0.28%	0.51%	0.32%	0.55%	1.03%	0.65%	0.83%	1.55%	0.98%
2034	22,810	5,260	28,070	24,266	5,902	30,168	25,814	6,621	32,434	0.27%	0.50%	0.31%	0.53%	1.01%	0.63%	0.80%	1.52%	0.95%
2035	22,868	5,286	28,154	24,390	5,961	30,351	26,012	6,719	32,732	0.25%	0.49%	0.30%	0.51%	0.99%	0.61%	0.77%	1.49%	0.92%
2036	22,924	5,311	28,236	24,510	6,019	30,529	26,205	6,817	33,023	0.25%	0.48%	0.29%	0.49%	0.97%	0.59%	0.74%	1.46%	0.89%





20 Year Customer Growth Rate	
High:	23.17%
Medium:	14.85%
Low:	7.14%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Zone 20

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	23,529,122	10,825,247	34,354,369	23,957,870	11,023,936	34,981,807	24,390,659	11,224,541	35,615,200
2018	23,734,554	10,919,208	34,653,762	24,376,531	11,215,519	35,592,049	25,030,460	11,517,459	36,547,919
2019	23,938,431	11,011,958	34,950,388	24,795,756	11,406,363	36,202,119	25,676,833	11,811,902	37,488,734
2020	24,273,576	11,103,613	35,377,189	25,354,925	11,596,667	36,951,592	26,476,004	12,108,155	38,584,159
2021	24,343,686	11,194,753	35,538,439	25,640,110	11,787,582	37,427,692	26,995,833	12,407,988	39,403,821
2022	24,545,938	11,285,586	35,831,524	26,067,009	11,979,535	38,046,545	27,671,355	12,712,095	40,383,450
2023	24,748,135	11,375,981	36,124,116	26,497,470	12,172,250	38,669,720	28,358,344	13,020,092	41,378,436
2024	25,087,495	11,466,126	36,553,621	27,080,307	12,366,116	39,446,423	29,218,200	13,332,634	42,550,834
2025	25,153,216	11,556,408	36,709,624	27,370,911	12,561,936	39,932,847	29,770,106	13,651,018	43,421,124
2026	25,355,615	11,646,297	37,001,913	27,812,873	12,758,602	40,571,474	30,493,482	13,973,548	44,467,031
2027	25,558,220	11,736,171	37,294,391	28,259,006	12,956,919	41,215,926	31,229,806	14,301,567	45,531,373
2028	25,902,025	11,825,728	37,727,753	28,866,442	13,156,226	42,022,668	32,154,197	14,634,034	46,788,231
2029	25,962,719	11,915,369	37,878,089	29,160,861	13,357,380	42,518,241	32,736,871	14,972,374	47,709,245
2030	26,164,724	12,004,616	38,169,340	29,616,812	13,559,355	43,176,167	33,508,180	15,314,986	48,823,165
2031	26,365,724	12,093,355	38,459,079	30,074,202	13,761,875	43,836,077	34,288,233	15,661,407	49,949,640
2032	26,711,651	12,181,587	38,893,238	30,701,331	13,964,900	44,666,231	35,271,082	16,011,568	51,282,650
2033	26,764,155	12,269,396	39,033,550	30,991,892	14,168,600	45,160,492	35,872,329	16,365,760	52,238,089
2034	26,961,298	12,356,490	39,317,789	31,451,379	14,372,286	45,823,665	36,674,924	16,722,810	53,397,733
2035	27,157,672	12,443,283	39,600,955	31,912,689	14,576,917	46,489,605	37,487,059	17,084,434	54,571,493
2036	27,503,495	12,529,543	40,033,038	32,554,103	14,781,881	47,335,984	38,520,209	17,449,491	55,969,699

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.87%	0.87%	0.87%	1.75%	1.74%	1.74%	2.62%	2.61%	2.62%
2019	0.86%	0.85%	0.86%	1.72%	1.70%	1.71%	2.58%	2.56%	2.57%
2020	1.40%	0.83%	1.22%	2.26%	1.67%	2.07%	3.11%	2.51%	2.92%
2021	0.29%	0.82%	0.46%	1.12%	1.65%	1.29%	1.96%	2.48%	2.12%
2022	0.83%	0.81%	0.82%	1.66%	1.63%	1.65%	2.50%	2.45%	2.49%
2023	0.82%	0.80%	0.82%	1.65%	1.61%	1.64%	2.48%	2.42%	2.46%
2024	1.37%	0.79%	1.19%	2.20%	1.59%	2.01%	3.03%	2.40%	2.83%
2025	0.26%	0.79%	0.43%	1.07%	1.58%	1.23%	1.89%	2.39%	2.05%
2026	0.80%	0.78%	0.80%	1.61%	1.57%	1.60%	2.43%	2.36%	2.41%
2027	0.80%	0.77%	0.79%	1.60%	1.55%	1.59%	2.41%	2.35%	2.39%
2028	1.35%	0.76%	1.16%	2.15%	1.54%	1.96%	2.96%	2.32%	2.76%
2029	0.23%	0.76%	0.40%	1.02%	1.53%	1.18%	1.81%	2.31%	1.97%
2030	0.78%	0.75%	0.77%	1.56%	1.51%	1.55%	2.36%	2.29%	2.33%
2031	0.77%	0.74%	0.76%	1.54%	1.49%	1.53%	2.33%	2.26%	2.31%
2032	1.31%	0.73%	1.13%	2.09%	1.48%	1.89%	2.87%	2.24%	2.67%
2033	0.20%	0.72%	0.36%	0.95%	1.46%	1.11%	1.70%	2.21%	1.86%
2034	0.74%	0.71%	0.73%	1.48%	1.44%	1.47%	2.24%	2.18%	2.22%
2035	0.73%	0.70%	0.72%	1.47%	1.42%	1.45%	2.21%	2.16%	2.20%
2036	1.27%	0.69%	1.09%	2.01%	1.41%	1.82%	2.76%	2.14%	2.56%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	29,658	447,131	476,789	30,203	455,255	485,458	30,752	463,456	494,208
2018	29,916	451,029	480,944	30,727	463,199	493,926	31,555	475,595	507,149
2019	30,170	454,899	485,069	31,250	471,156	502,406	32,361	487,863	520,224
2020	30,421	458,749	489,170	31,772	479,142	510,914	33,173	500,284	533,457
2021	30,671	462,594	493,265	32,295	487,189	519,483	33,994	512,906	546,901
2022	30,919	466,437	497,357	32,821	495,299	528,120	34,828	525,740	560,568
2023	31,167	470,279	501,446	33,349	503,478	536,827	35,671	538,793	574,464
2024	31,414	474,125	505,539	33,880	511,735	545,614	36,528	552,081	588,609
2025	31,661	477,977	509,639	34,416	520,076	554,492	37,400	565,620	603,020
2026	31,908	481,824	513,732	34,955	528,477	563,432	38,284	579,369	617,653
2027	32,154	485,675	517,829	35,498	536,956	572,454	39,182	593,364	632,546
2028	32,399	489,519	521,918	36,044	545,491	581,536	40,093	607,568	647,661
2029	32,645	493,365	526,010	36,596	554,102	590,698	41,020	622,017	663,037
2030	32,889	497,206	530,095	37,149	562,771	599,920	41,959	636,682	678,641
2031	33,132	501,026	534,158	37,704	571,465	609,169	42,908	651,510	694,418
2032	33,374	504,823	538,197	38,260	580,177	618,437	43,867	666,490	710,357
2033	33,615	508,600	542,215	38,818	588,912	627,730	44,838	681,629	726,467
2034	33,853	512,348	546,201	39,376	597,648	637,024	45,816	696,891	742,707
2035	34,091	516,081	550,172	39,937	606,419	646,356	46,807	712,334	759,141
2036	34,328	519,791	554,118	40,498	615,202	655,700	47,807	727,918	775,725

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.87%	0.87%	0.87%	1.74%	1.74%	1.74%	2.61%	2.62%	2.62%
2019	0.85%	0.86%	0.86%	1.70%	1.72%	1.72%	2.56%	2.58%	2.58%
2020	0.83%	0.85%	0.85%	1.67%	1.70%	1.69%	2.51%	2.55%	2.54%
2021	0.82%	0.84%	0.84%	1.65%	1.68%	1.68%	2.48%	2.52%	2.52%
2022	0.81%	0.83%	0.83%	1.63%	1.66%	1.66%	2.45%	2.50%	2.50%
2023	0.80%	0.82%	0.82%	1.61%	1.65%	1.65%	2.42%	2.48%	2.48%
2024	0.79%	0.82%	0.82%	1.59%	1.64%	1.64%	2.40%	2.47%	2.46%
2025	0.79%	0.81%	0.81%	1.58%	1.63%	1.63%	2.39%	2.45%	2.45%
2026	0.78%	0.80%	0.80%	1.57%	1.62%	1.61%	2.36%	2.43%	2.43%
2027	0.77%	0.80%	0.80%	1.55%	1.60%	1.60%	2.35%	2.42%	2.41%
2028	0.76%	0.79%	0.79%	1.54%	1.59%	1.59%	2.32%	2.39%	2.39%
2029	0.76%	0.79%	0.78%	1.53%	1.58%	1.58%	2.31%	2.38%	2.37%
2030	0.75%	0.78%	0.78%	1.51%	1.56%	1.56%	2.29%	2.36%	2.35%
2031	0.74%	0.77%	0.77%	1.49%	1.54%	1.54%	2.26%	2.33%	2.32%
2032	0.73%	0.76%	0.76%	1.48%	1.52%	1.52%	2.24%	2.30%	2.30%
2033	0.72%	0.75%	0.75%	1.46%	1.51%	1.50%	2.21%	2.27%	2.27%
2034	0.71%	0.74%	0.74%	1.44%	1.48%	1.48%	2.18%	2.24%	2.24%
2035	0.70%	0.73%	0.73%	1.42%	1.47%	1.46%	2.16%	2.22%	2.21%
2036	0.69%	0.72%	0.72%	1.41%	1.45%	1.45%	2.14%	2.19%	2.18%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	15,524,038	18,830,332	34,354,369	15,769,957	19,211,850	34,981,807	16,017,870	19,597,330	35,615,200
2018	15,647,142	19,006,620	34,653,762	16,020,191	19,571,859	35,592,049	16,399,309	20,148,610	36,547,919
2019	15,771,044	19,179,344	34,950,388	16,274,093	19,928,026	36,202,119	16,789,458	20,699,276	37,488,734
2020	15,960,217	19,416,972	35,377,189	16,598,747	20,352,845	36,951,592	17,258,193	21,325,967	38,584,159
2021	16,020,805	19,517,634	35,538,439	16,792,148	20,635,544	37,427,692	17,595,165	21,808,656	39,403,821
2022	16,146,682	19,684,842	35,831,524	17,056,408	20,990,137	38,046,545	18,011,096	22,372,353	40,383,450
2023	16,273,102	19,851,015	36,124,116	17,323,945	21,345,775	38,669,720	18,435,557	22,942,879	41,378,436
2024	16,466,899	20,086,722	36,553,621	17,666,817	21,779,606	39,446,423	18,946,275	23,604,559	42,550,834
2025	16,527,527	20,182,097	36,709,624	17,868,872	22,063,975	39,932,847	19,310,490	24,110,634	43,421,124
2026	16,655,180	20,346,733	37,001,913	18,145,553	22,425,921	40,571,474	19,760,013	24,707,017	44,467,031
2027	16,783,042	20,511,349	37,294,391	18,424,890	22,791,036	41,215,926	20,217,433	25,313,939	45,531,373
2028	16,979,903	20,747,850	37,727,753	18,783,187	23,239,481	42,022,668	20,767,411	26,020,820	46,788,231
2029	17,039,021	20,839,068	37,878,089	18,990,736	23,527,505	42,518,241	21,154,947	26,554,298	47,709,245
2030	17,167,175	21,002,165	38,169,340	19,277,343	23,898,824	43,176,167	21,635,337	27,187,828	48,823,165
2031	17,294,355	21,164,724	38,459,079	19,563,979	24,272,097	43,836,077	22,119,488	27,830,152	49,949,640
2032	17,491,677	21,401,560	38,893,238	19,932,142	24,734,088	44,666,231	22,700,735	28,581,915	51,282,650
2033	17,545,807	21,487,743	39,033,550	20,137,197	25,023,295	45,160,492	23,098,764	29,139,325	52,238,089
2034	17,670,094	21,647,694	39,317,789	20,423,715	25,399,951	45,823,665	23,593,727	29,804,007	53,397,733
2035	17,793,494	21,807,461	39,600,955	20,710,280	25,779,326	46,489,605	24,092,400	30,479,092	54,571,493
2036	17,989,296	22,043,742	40,033,038	21,083,445	26,252,539	47,335,984	24,696,924	31,272,775	55,969,699

Annual Change

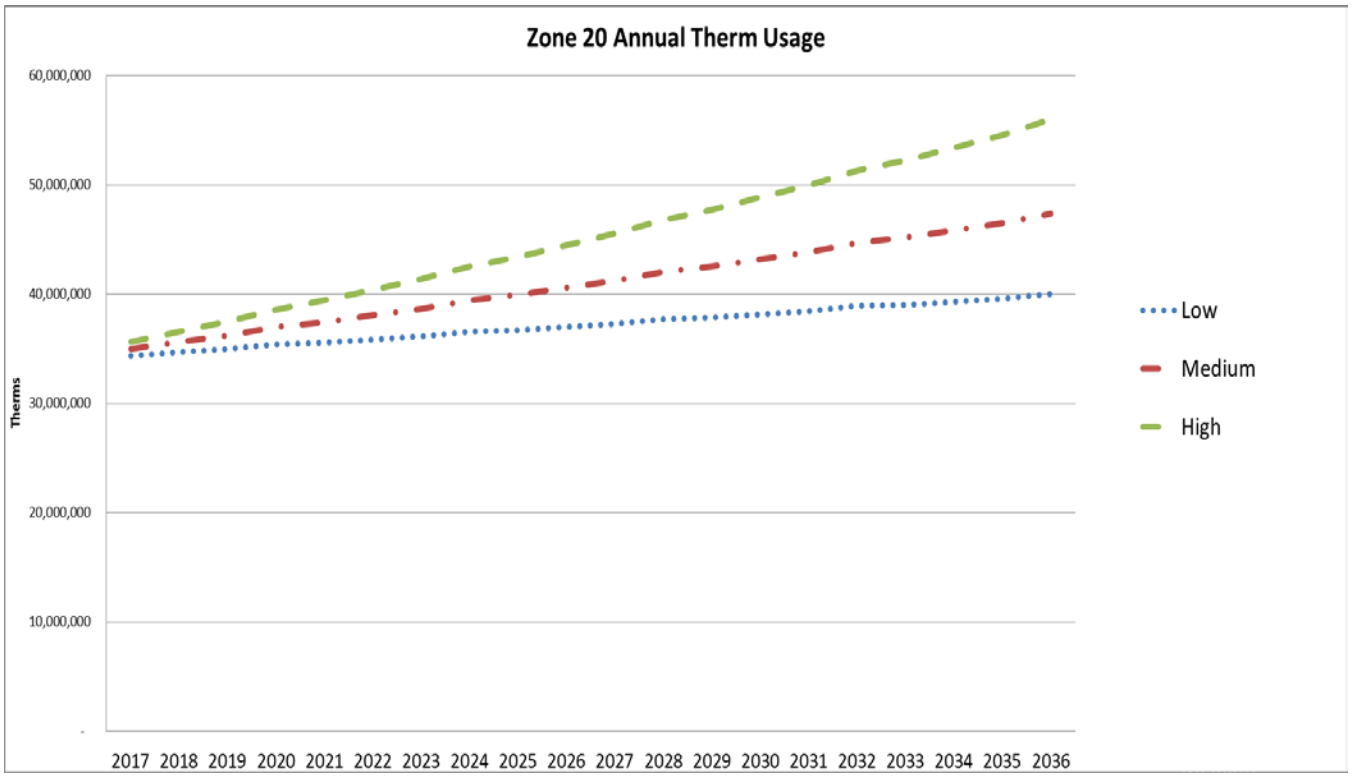
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.79%	0.94%	0.87%	1.59%	1.87%	1.74%	2.38%	2.81%	2.62%
2019	0.79%	0.91%	0.86%	1.58%	1.82%	1.71%	2.38%	2.73%	2.57%
2020	1.20%	1.24%	1.22%	1.99%	2.13%	2.07%	2.79%	3.03%	2.92%
2021	0.38%	0.52%	0.46%	1.17%	1.39%	1.29%	1.95%	2.26%	2.12%
2022	0.79%	0.86%	0.82%	1.57%	1.72%	1.65%	2.36%	2.58%	2.49%
2023	0.78%	0.84%	0.82%	1.57%	1.69%	1.64%	2.36%	2.55%	2.46%
2024	1.19%	1.19%	1.19%	1.98%	2.03%	2.01%	2.77%	2.88%	2.83%
2025	0.37%	0.47%	0.43%	1.14%	1.31%	1.23%	1.92%	2.14%	2.05%
2026	0.77%	0.82%	0.80%	1.55%	1.64%	1.60%	2.33%	2.47%	2.41%
2027	0.77%	0.81%	0.79%	1.54%	1.63%	1.59%	2.31%	2.46%	2.39%
2028	1.17%	1.15%	1.16%	1.94%	1.97%	1.96%	2.72%	2.79%	2.76%
2029	0.35%	0.44%	0.40%	1.10%	1.24%	1.18%	1.87%	2.05%	1.97%
2030	0.75%	0.78%	0.77%	1.51%	1.58%	1.55%	2.27%	2.39%	2.33%
2031	0.74%	0.77%	0.76%	1.49%	1.56%	1.53%	2.24%	2.36%	2.31%
2032	1.14%	1.12%	1.13%	1.88%	1.90%	1.89%	2.63%	2.70%	2.67%
2033	0.31%	0.40%	0.36%	1.03%	1.17%	1.11%	1.75%	1.95%	1.86%
2034	0.71%	0.74%	0.73%	1.42%	1.51%	1.47%	2.14%	2.28%	2.22%
2035	0.70%	0.74%	0.72%	1.40%	1.49%	1.45%	2.11%	2.27%	2.20%
2036	1.10%	1.08%	1.09%	1.80%	1.84%	1.82%	2.51%	2.60%	2.56%

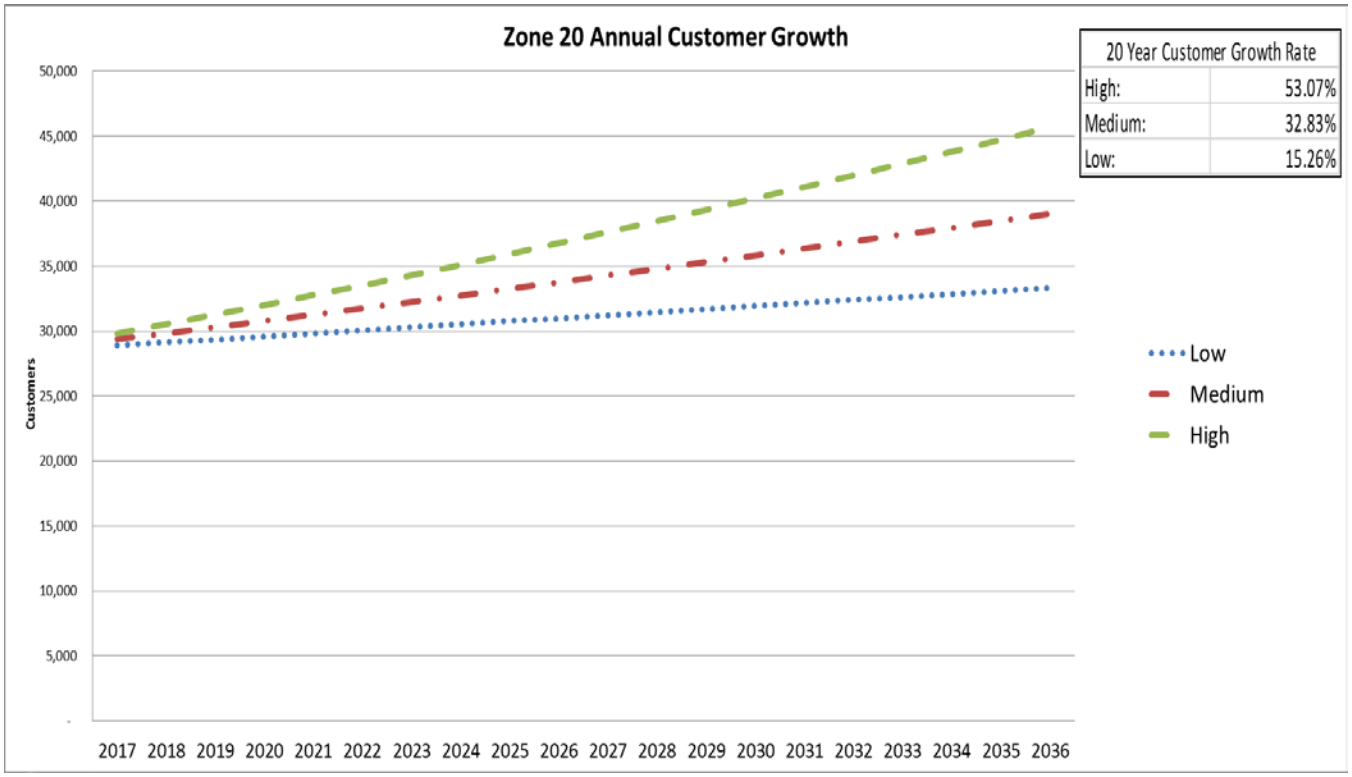
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	25,195	3,711	28,906	25,581	3,789	29,370	25,970	3,867	29,837
2018	25,388	3,747	29,135	25,974	3,862	29,836	26,569	3,980	30,549
2019	25,583	3,783	29,365	26,373	3,935	30,308	27,181	4,093	31,274
2020	25,778	3,818	29,596	26,776	4,008	30,785	27,806	4,207	32,013
2021	25,975	3,853	29,828	27,185	4,082	31,267	28,444	4,323	32,767
2022	26,173	3,887	30,060	27,600	4,156	31,756	29,096	4,440	33,536
2023	26,371	3,922	30,293	28,019	4,230	32,249	29,760	4,560	34,320
2024	26,571	3,957	30,527	28,444	4,305	32,749	30,438	4,682	35,120
2025	26,770	3,992	30,762	28,873	4,381	33,254	31,129	4,806	35,935
2026	26,971	4,026	30,997	29,306	4,458	33,764	31,831	4,932	36,764
2027	27,171	4,061	31,232	29,744	4,535	34,278	32,546	5,061	37,607
2028	27,372	4,096	31,468	30,184	4,613	34,797	33,271	5,192	38,463
2029	27,573	4,130	31,703	30,629	4,691	35,320	34,009	5,325	39,334
2030	27,774	4,165	31,939	31,077	4,770	35,847	34,758	5,460	40,218
2031	27,973	4,199	32,172	31,525	4,850	36,374	35,512	5,597	41,109
2032	28,171	4,234	32,404	31,972	4,929	36,902	36,272	5,736	42,008
2033	28,367	4,268	32,635	32,419	5,010	37,429	37,036	5,877	42,914
2034	28,561	4,302	32,863	32,866	5,090	37,957	37,806	6,020	43,826
2035	28,754	4,336	33,090	33,313	5,172	38,484	38,580	6,165	44,745
2036	28,946	4,370	33,316	33,759	5,253	39,012	39,360	6,312	45,671

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.77%	0.97%	0.79%	1.54%	1.94%	1.59%	2.31%	2.92%	2.38%
2019	0.77%	0.95%	0.79%	1.53%	1.89%	1.58%	2.30%	2.84%	2.37%
2020	0.76%	0.93%	0.79%	1.53%	1.86%	1.57%	2.30%	2.79%	2.36%
2021	0.76%	0.91%	0.78%	1.53%	1.83%	1.57%	2.29%	2.75%	2.35%
2022	0.76%	0.90%	0.78%	1.52%	1.81%	1.56%	2.29%	2.72%	2.35%
2023	0.76%	0.89%	0.78%	1.52%	1.79%	1.56%	2.28%	2.69%	2.34%
2024	0.76%	0.88%	0.77%	1.52%	1.77%	1.55%	2.28%	2.67%	2.33%
2025	0.75%	0.88%	0.77%	1.51%	1.76%	1.54%	2.27%	2.65%	2.32%
2026	0.75%	0.87%	0.76%	1.50%	1.75%	1.53%	2.26%	2.63%	2.31%
2027	0.74%	0.86%	0.76%	1.49%	1.73%	1.52%	2.24%	2.61%	2.29%
2028	0.74%	0.85%	0.75%	1.48%	1.71%	1.51%	2.23%	2.58%	2.28%
2029	0.73%	0.85%	0.75%	1.47%	1.70%	1.50%	2.22%	2.56%	2.26%
2030	0.73%	0.84%	0.74%	1.46%	1.68%	1.49%	2.20%	2.54%	2.25%
2031	0.72%	0.83%	0.73%	1.44%	1.67%	1.47%	2.17%	2.51%	2.22%
2032	0.71%	0.82%	0.72%	1.42%	1.65%	1.45%	2.14%	2.49%	2.19%
2033	0.70%	0.81%	0.71%	1.40%	1.63%	1.43%	2.11%	2.46%	2.16%
2034	0.69%	0.80%	0.70%	1.38%	1.61%	1.41%	2.08%	2.43%	2.13%
2035	0.68%	0.79%	0.69%	1.36%	1.60%	1.39%	2.05%	2.41%	2.10%
2036	0.67%	0.78%	0.68%	1.34%	1.57%	1.37%	2.02%	2.38%	2.07%





20 Year Customer Growth Rate	
High:	53.07%
Medium:	32.83%
Low:	15.26%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

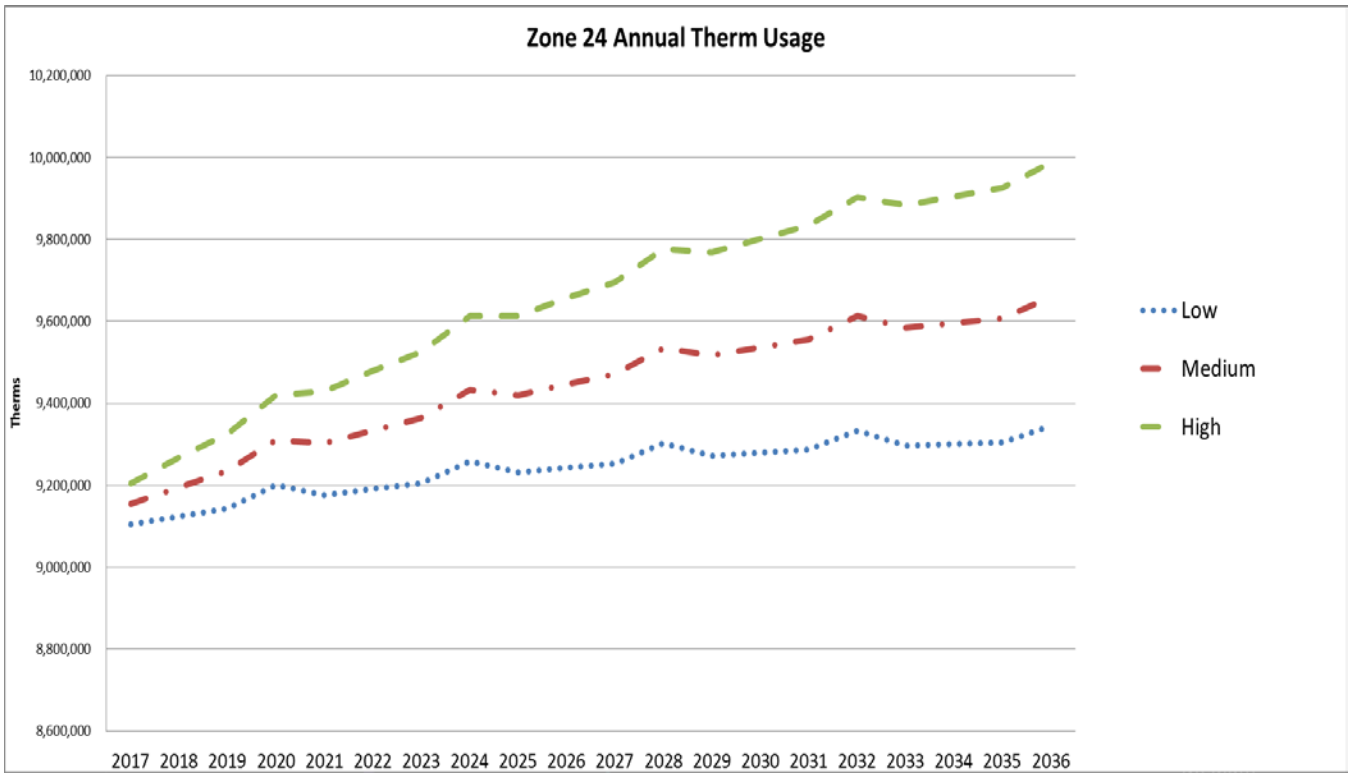
Zone 24

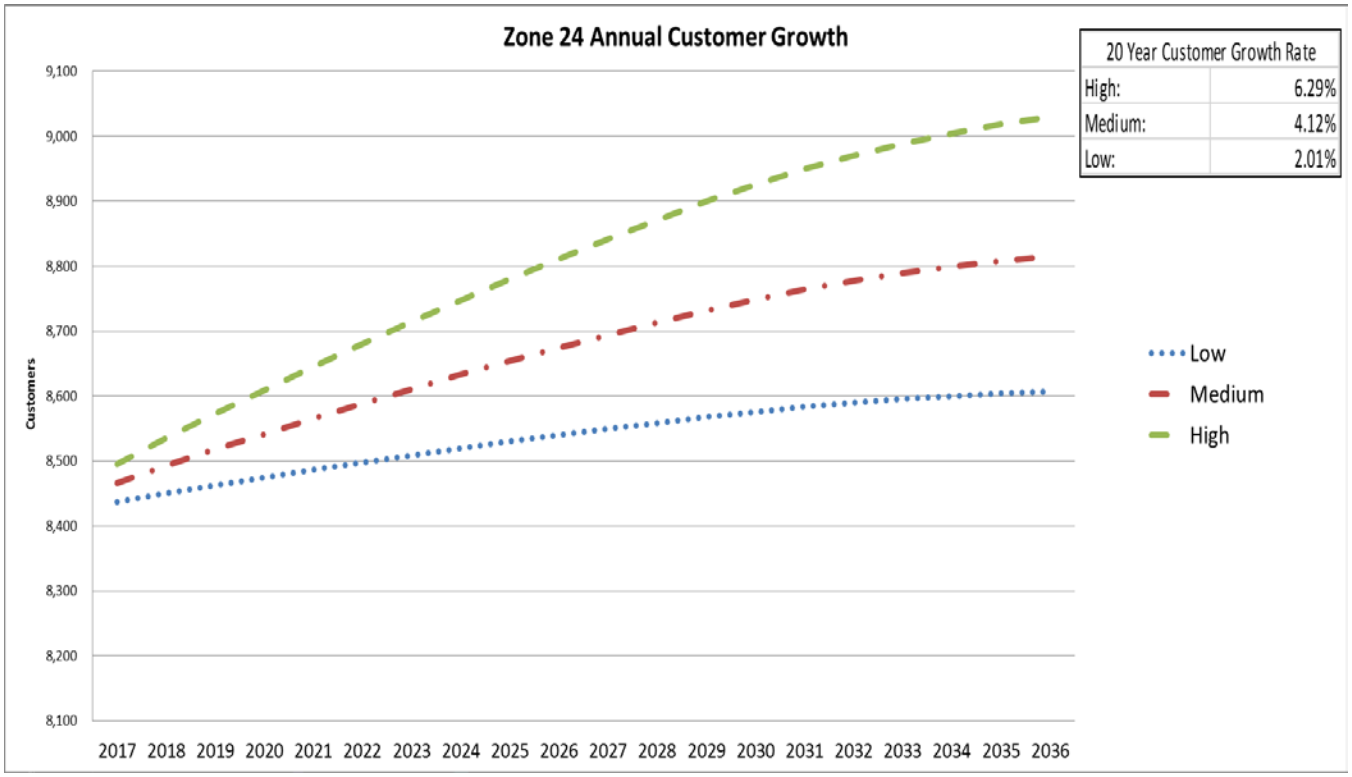
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	7,775,197	1,329,204	9,104,401	7,818,851	1,335,752	9,154,603	7,862,664	1,342,327	9,204,991	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	7,793,404	1,331,365	9,124,770	7,855,486	1,340,169	9,195,655	7,917,986	1,349,041	9,267,027	0.23%	0.16%	0.22%	0.47%	0.33%	0.45%	0.70%	0.50%	0.67%
2019	7,810,785	1,333,111	9,143,896	7,890,274	1,344,170	9,234,444	7,970,530	1,355,354	9,325,884	0.22%	0.13%	0.21%	0.44%	0.30%	0.42%	0.66%	0.47%	0.64%
2020	7,866,935	1,333,312	9,200,247	7,962,530	1,346,581	9,309,111	8,059,292	1,360,038	9,419,330	0.72%	0.02%	0.62%	0.92%	0.18%	0.81%	1.11%	0.35%	1.00%
2021	7,842,799	1,333,492	9,176,291	7,952,912	1,348,967	9,301,879	8,064,643	1,364,705	9,429,348	-0.31%	0.01%	-0.26%	-0.12%	0.18%	-0.08%	0.07%	0.34%	0.11%
2022	7,858,211	1,333,084	9,191,295	7,982,833	1,350,966	9,333,799	8,109,591	1,369,204	9,478,795	0.20%	-0.03%	0.16%	0.38%	0.15%	0.34%	0.56%	0.33%	0.52%
2023	7,873,016	1,332,109	9,205,125	8,011,276	1,352,343	9,363,619	8,152,211	1,373,027	9,525,238	0.19%	-0.07%	0.15%	0.36%	0.10%	0.32%	0.53%	0.28%	0.49%
2024	7,927,659	1,330,751	9,258,410	8,079,925	1,353,516	9,433,441	8,235,475	1,376,843	9,612,318	0.69%	-0.10%	0.58%	0.86%	0.09%	0.75%	1.02%	0.28%	0.91%
2025	7,901,799	1,328,785	9,230,584	8,065,779	1,354,207	9,419,986	8,233,647	1,380,313	9,613,960	-0.33%	-0.15%	-0.30%	-0.18%	0.05%	-0.14%	-0.02%	0.25%	0.02%
2026	7,915,842	1,326,263	9,242,106	8,091,959	1,354,572	9,446,531	8,272,637	1,383,708	9,656,345	0.18%	-0.19%	0.12%	0.32%	0.03%	0.28%	0.47%	0.25%	0.44%
2027	7,928,884	1,323,765	9,252,648	8,116,208	1,354,745	9,470,952	8,308,754	1,386,695	9,695,449	0.16%	-0.19%	0.11%	0.30%	0.01%	0.26%	0.44%	0.22%	0.40%
2028	7,981,978	1,320,629	9,302,606	8,180,965	1,354,480	9,535,444	8,385,888	1,389,463	9,775,351	0.67%	-0.24%	0.54%	0.80%	-0.02%	0.68%	0.93%	0.20%	0.82%
2029	7,954,286	1,317,150	9,271,437	8,162,462	1,353,956	9,516,418	8,377,255	1,392,073	9,769,328	-0.35%	-0.26%	-0.34%	-0.23%	-0.04%	-0.20%	-0.10%	0.19%	-0.06%
2030	7,965,931	1,313,175	9,279,106	8,183,060	1,352,920	9,535,980	8,407,475	1,394,160	9,801,634	0.15%	-0.30%	0.08%	0.25%	-0.08%	0.21%	0.36%	0.15%	0.33%
2031	7,977,309	1,309,652	9,286,961	8,203,378	1,352,347	9,555,724	8,437,477	1,396,745	9,834,222	0.14%	-0.27%	0.08%	0.25%	-0.04%	0.21%	0.36%	0.19%	0.33%
2032	8,027,627	1,305,299	9,332,925	8,261,796	1,350,907	9,612,703	8,504,679	1,398,427	9,903,106	0.63%	-0.33%	0.49%	0.71%	-0.11%	0.60%	0.80%	0.12%	0.70%
2033	7,996,344	1,300,751	9,297,096	8,235,420	1,349,270	9,584,690	8,483,781	1,399,922	9,883,703	-0.39%	-0.35%	-0.38%	-0.32%	-0.12%	-0.29%	-0.25%	0.11%	-0.20%
2034	8,004,411	1,295,698	9,300,110	8,249,229	1,347,267	9,596,497	8,503,961	1,401,215	9,905,176	0.10%	-0.39%	0.03%	0.17%	-0.15%	0.12%	0.24%	0.09%	0.22%
2035	8,012,643	1,290,848	9,303,491	8,262,770	1,345,428	9,608,198	8,523,464	1,402,649	9,926,113	0.10%	-0.37%	0.04%	0.16%	-0.14%	0.12%	0.23%	0.10%	0.21%
2036	8,057,876	1,286,003	9,343,879	8,314,810	1,343,459	9,658,269	8,583,025	1,403,821	9,986,847	0.56%	-0.38%	0.43%	0.63%	-0.15%	0.52%	0.70%	0.08%	0.61%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	3,642	111,054	114,695	3,660	111,659	115,318	3,678	112,266	115,944	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,648	111,304	114,951	3,672	112,163	115,834	3,696	113,027	116,723	0.16%	0.23%	0.22%	0.33%	0.45%	0.45%	0.50%	0.68%	0.67%
2019	3,652	111,539	115,191	3,683	112,638	116,320	3,713	113,747	117,460	0.13%	0.21%	0.21%	0.30%	0.42%	0.42%	0.47%	0.64%	0.63%
2020	3,653	111,753	115,406	3,689	113,069	116,758	3,726	114,401	118,127	0.02%	0.19%	0.19%	0.18%	0.38%	0.38%	0.35%	0.58%	0.57%
2021	3,653	111,955	115,608	3,696	113,479	117,175	3,739	115,025	118,764	0.01%	0.18%	0.18%	0.18%	0.36%	0.36%	0.34%	0.55%	0.54%
2022	3,652	112,151	115,803	3,701	113,877	117,578	3,751	115,632	119,383	-0.03%	0.18%	0.17%	0.15%	0.35%	0.34%	0.33%	0.53%	0.52%
2023	3,650	112,336	115,985	3,705	114,253	117,958	3,762	116,207	119,968	-0.07%	0.16%	0.16%	0.10%	0.33%	0.32%	0.28%	0.50%	0.49%
2024	3,646	112,516	116,162	3,708	114,620	118,328	3,772	116,768	120,541	-0.10%	0.16%	0.15%	0.09%	0.32%	0.31%	0.28%	0.48%	0.48%
2025	3,641	112,684	116,325	3,710	114,963	118,673	3,782	117,295	121,077	-0.15%	0.15%	0.14%	0.05%	0.30%	0.29%	0.25%	0.45%	0.44%
2026	3,634	112,848	116,482	3,711	115,299	119,010	3,791	117,812	121,603	-0.19%	0.15%	0.14%	0.03%	0.29%	0.28%	0.25%	0.44%	0.43%
2027	3,627	112,999	116,626	3,712	115,608	119,320	3,799	118,289	122,088	-0.19%	0.13%	0.12%	0.01%	0.27%	0.26%	0.22%	0.40%	0.40%
2028	3,618	113,143	116,761	3,711	115,905	119,616	3,807	118,749	122,555	-0.24%	0.13%	0.12%	-0.02%	0.26%	0.25%	0.20%	0.39%	0.38%
2029	3,609	113,280	116,889	3,709	116,187	119,896	3,814	119,184	122,998	-0.26%	0.12%	0.11%	-0.04%	0.24%	0.23%	0.19%	0.37%	0.36%
2030	3,598	113,402	117,000	3,707	116,439	120,146	3,820	119,575	123,395	-0.30%	0.11%	0.10%	-0.08%	0.22%	0.21%	0.15%	0.33%	0.32%
2031	3,588	113,521	117,109	3,705	116,686	120,391	3,827	119,960	123,787	-0.27%	0.10%	0.09%	-0.04%	0.21%	0.20%	0.19%	0.32%	0.32%
2032	3,576	113,617	117,193	3,701	116,884	120,585	3,831	120,269	124,100	-0.33%	0.08%	0.07%	-0.11%	0.17%	0.16%	0.12%	0.26%	0.25%
2033	3,564	113,700	117,263	3,697	117,057	120,754	3,835	120,541	124,377	-0.35%	0.07%	0.06%	-0.12%	0.15%	0.14%	0.11%	0.23%	0.22%
2034	3,550	113,766	117,316	3,691	117,210	120,901	3,839	120,789	124,628	-0.39%	0.06%	0.05%	-0.15%	0.13%	0.12%	0.09%	0.21%	0.20%
2035	3,537	113,834	117,370	3,686	117,358	121,044	3,843	121,027	124,870	-0.37%	0.06%	0.05%	-0.14%	0.13%	0.12%	0.10%	0.20%	0.19%
2036	3,523	113,854	117,377	3,681	117,462	121,143	3,846	121,224	125,070	-0.38%	0.02%	0.01%	-0.15%	0.09%	0.08%	0.08%	0.16%	0.16%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	4,054,806	5,049,595	9,104,401	4,065,131	5,089,472	9,154,603	4,075,470	5,129,521	9,204,991	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	4,059,955	5,064,815	9,124,770	4,075,456	5,120,199	9,195,655	4,090,998	5,176,030	9,267,027	0.13%	0.30%	0.22%	0.25%	0.60%	0.45%	0.38%	0.91%	0.67%
2019	4,065,031	5,078,865	9,143,896	4,085,646	5,148,798	9,234,444	4,106,341	5,219,543	9,325,884	0.13%	0.28%	0.21%	0.25%	0.56%	0.42%	0.38%	0.84%	0.64%
2020	4,090,638	5,109,609	9,200,247	4,116,510	5,192,601	9,309,111	4,142,514	5,276,816	9,419,330	0.63%	0.61%	0.62%	0.76%	0.85%	0.81%	0.88%	1.10%	1.00%
2021	4,075,040	5,101,251	9,176,291	4,105,780	5,196,099	9,301,879	4,136,715	5,292,633	9,429,348	-0.38%	-0.16%	-0.26%	-0.26%	0.07%	-0.08%	-0.14%	0.30%	0.11%
2022	4,079,974	5,111,321	9,191,295	4,115,724	5,218,075	9,333,799	4,151,745	5,327,050	9,478,795	0.12%	0.20%	0.16%	0.24%	0.42%	0.34%	0.36%	0.65%	0.52%
2023	4,084,805	5,120,320	9,205,125	4,125,471	5,238,148	9,363,619	4,166,495	5,358,743	9,525,238	0.12%	0.18%	0.15%	0.24%	0.38%	0.32%	0.36%	0.59%	0.49%
2024	4,110,230	5,148,180	9,258,410	4,156,016	5,277,425	9,433,441	4,202,260	5,410,057	9,612,318	0.62%	0.54%	0.58%	0.74%	0.75%	0.75%	0.86%	0.96%	0.91%
2025	4,094,231	5,136,354	9,230,584	4,144,524	5,275,462	9,419,986	4,195,378	5,418,582	9,613,960	-0.39%	-0.23%	-0.30%	-0.28%	-0.04%	-0.14%	-0.16%	0.16%	0.02%
2026	4,098,728	5,143,377	9,242,106	4,153,632	5,292,899	9,446,531	4,209,211	5,447,134	9,656,345	0.11%	0.14%	0.12%	0.22%	0.33%	0.28%	0.33%	0.53%	0.44%
2027	4,102,997	5,149,651	9,252,648	4,162,285	5,308,667	9,470,952	4,222,367	5,473,082	9,695,449	0.10%	0.12%	0.11%	0.21%	0.30%	0.26%	0.31%	0.48%	0.40%
2028	4,127,888	5,174,718	9,302,606	4,191,791	5,343,653	9,535,444	4,256,618	5,518,733	9,775,351	0.61%	0.49%	0.54%	0.71%	0.66%	0.68%	0.81%	0.83%	0.82%
2029	4,111,115	5,160,322	9,271,437	4,178,768	5,337,650	9,516,418	4,247,468	5,521,860	9,769,328	-0.41%	-0.28%	-0.34%	-0.31%	-0.11%	-0.20%	-0.21%	0.06%	-0.06%
2030	4,114,832	5,164,274	9,279,106	4,186,327	5,349,653	9,535,980	4,258,997	5,542,637	9,801,634	0.09%	0.08%	0.08%	0.18%	0.22%	0.21%	0.27%	0.38%	0.33%
2031	4,118,201	5,168,759	9,286,961	4,193,186	5,362,538	9,555,724	4,269,469	5,564,754	9,834,222	0.08%	0.09%	0.08%	0.16%	0.24%	0.21%	0.25%	0.40%	0.33%
2032	4,141,843	5,191,083	9,332,925	4,220,178	5,392,524	9,612,703	4,299,929	5,603,177	9,903,106	0.57%	0.43%	0.49%	0.64%	0.56%	0.60%	0.71%	0.69%	0.70%
2033	4,123,562	5,173,533	9,297,096	4,204,113	5,380,577	9,584,690	4,286,173	5,597,530	9,883,703	-0.44%	-0.34%	-0.38%	-0.38%	-0.22%	-0.29%	-0.32%	-0.10%	-0.20%
2034	4,125,658	5,174,452	9,300,110	4,208,390	5,388,106	9,596,497	4,292,720	5,612,456	9,905,176	0.05%	0.02%	0.03%	0.10%	0.14%	0.12%	0.15%	0.27%	0.22%
2035	4,127,306	5,176,184	9,303,491	4,211,758	5,396,440	9,608,198	4,297,880	5,628,233	9,926,113	0.04%	0.03%	0.04%	0.08%	0.15%	0.12%	0.12%	0.28%	0.21%
2036	4,149,497	5,194,382	9,343,879	4,235,804	5,422,466	9,658,269	4,323,852	5,662,995	9,986,847	0.54%	0.35%	0.43%	0.57%	0.48%	0.52%	0.60%	0.62%	0.61%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	6,995	1,442	8,437	7,013	1,453	8,466	7,030	1,465	8,495	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	7,004	1,446	8,450	7,030	1,462	8,492	7,057	1,478	8,535	0.13%	0.29%	0.15%	0.25%	0.58%	0.31%	0.38%	0.88%	0.46%
2019	7,013	1,450	8,463	7,048	1,470	8,518	7,083	1,490	8,573	0.12%	0.27%	0.15%	0.25%	0.54%	0.30%	0.37%	0.81%	0.45%
2020	7,021	1,454	8,475	7,065	1,477	8,542	7,109	1,500	8,610	0.12%	0.23%	0.14%	0.25%	0.46%	0.28%	0.37%	0.70%	0.43%
2021	7,030	1,457	8,486	7,082	1,483	8,565	7,135	1,510	8,645	0.12%	0.21%	0.14%	0.24%	0.43%	0.27%	0.36%	0.65%	0.41%
2022	7,038	1,460	8,498	7,099	1,489	8,588	7,161	1,520	8,680	0.12%	0.21%	0.13%	0.24%	0.42%	0.27%	0.36%	0.64%	0.41%
2023	7,046	1,462	8,509	7,116	1,495	8,611	7,186	1,528	8,714	0.12%	0.19%	0.13%	0.23%	0.39%	0.26%	0.35%	0.58%	0.39%
2024	7,055	1,465	8,520	7,132	1,501	8,633	7,211	1,537	8,748	0.12%	0.18%	0.13%	0.23%	0.38%	0.26%	0.35%	0.57%	0.39%
2025	7,062	1,468	8,530	7,148	1,506	8,654	7,235	1,546	8,780	0.11%	0.17%	0.12%	0.22%	0.36%	0.25%	0.33%	0.54%	0.37%
2026	7,070	1,470	8,540	7,164	1,511	8,675	7,258	1,554	8,812	0.11%	0.17%	0.12%	0.22%	0.35%	0.24%	0.32%	0.53%	0.36%
2027	7,077	1,472	8,550	7,178	1,516	8,694	7,281	1,562	8,842	0.10%	0.16%	0.11%	0.21%	0.33%	0.23%	0.31%	0.50%	0.34%
2028	7,084	1,475	8,559	7,193	1,521	8,713	7,302	1,569	8,871	0.10%	0.15%	0.11%	0.20%	0.31%	0.22%	0.30%	0.47%	0.33%
2029	7,091	1,477	8,568	7,206	1,526	8,732	7,323	1,576	8,899	0.09%	0.15%	0.10%	0.19%	0.31%	0.21%	0.28%	0.47%	0.32%
2030	7,097	1,479	8,576	7,219	1,530	8,749	7,343	1,583	8,925	0.09%	0.12%	0.09%	0.18%	0.26%	0.19%	0.27%	0.40%	0.29%
2031	7,103	1,481	8,583	7,230	1,534	8,764	7,360	1,590	8,950	0.08%	0.13%	0.09%	0.16%	0.29%	0.18%	0.24%	0.44%	0.28%
2032	7,108	1,482	8,590	7,240	1,537	8,778	7,375	1,595	8,970	0.07%	0.10%	0.07%	0.14%	0.23%	0.15%	0.20%	0.35%	0.23%
2033	7,112	1,483	8,595	7,249	1,541	8,789	7,388	1,600	8,989	0.06%	0.09%	0.06%	0.12%	0.20%	0.13%	0.18%	0.32%	0.20%
2034	7,115	1,485	8,600	7,256	1,544	8,799	7,399	1,606	9,005	0.05%	0.07%	0.05%	0.10%	0.19%	0.11%	0.15%	0.32%	0.18%
2035	7,118	1,486	8,604	7,261	1,547	8,808	7,407	1,611	9,018	0.04%	0.10%	0.05%	0.08%	0.21%	0.10%	0.11%	0.34%	0.15%
2036	7,120	1,486	8,607	7,266	1,549	8,815	7,414	1,616	9,030	0.03%	0.03%	0.03%	0.06%	0.16%	0.08%	0.09%	0.29%	0.13%





20 Year Customer Growth Rate	
High:	6.29%
Medium:	4.12%
Low:	2.01%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

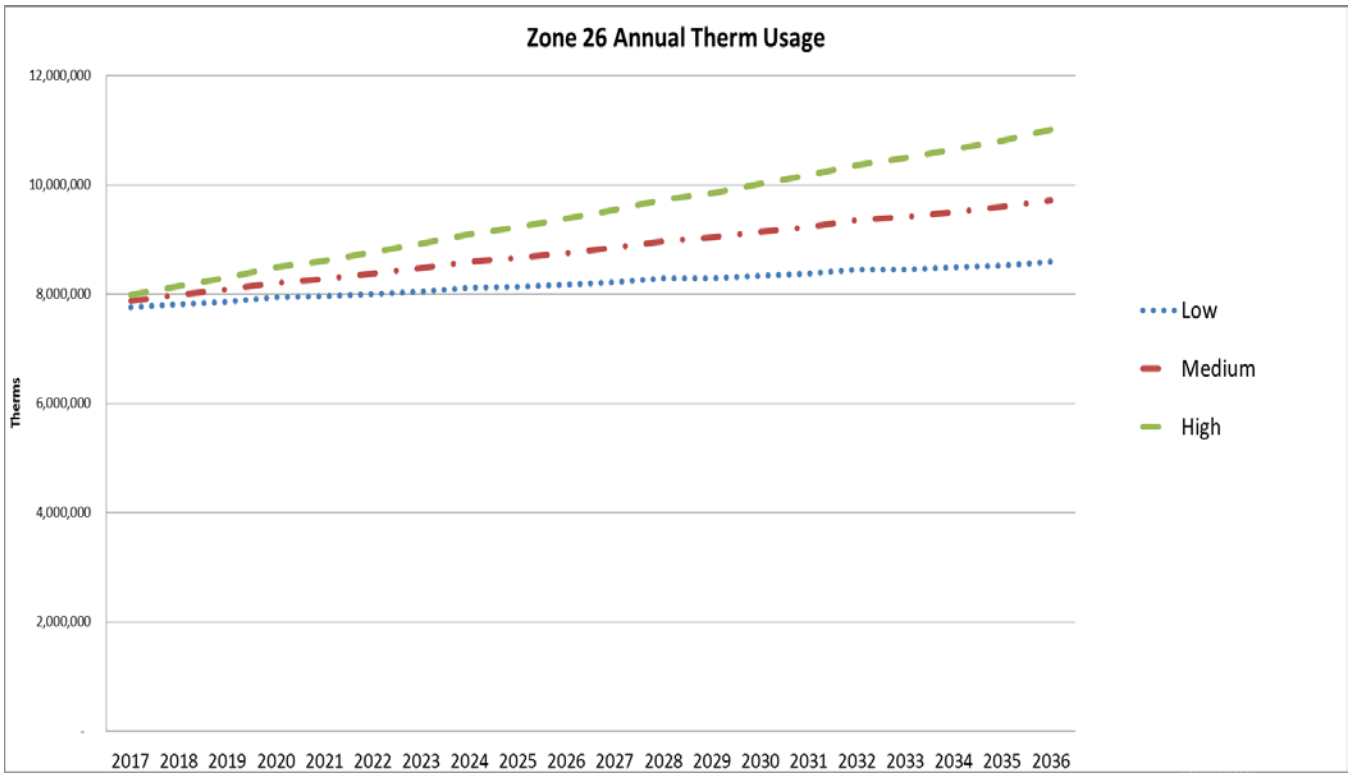
Zone 26

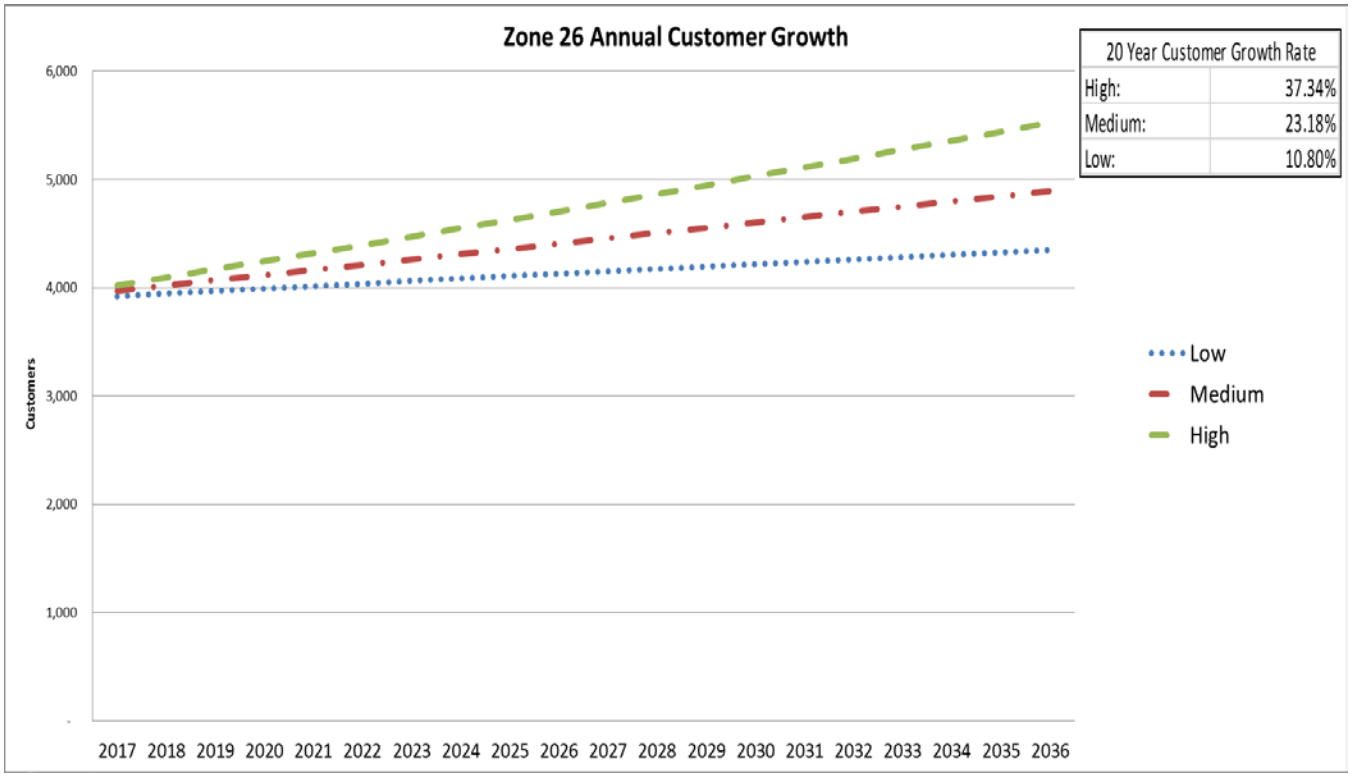
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	5,032,294	2,730,699	7,762,993	5,110,020	2,767,367	7,877,387	5,188,412	2,804,321	7,992,733	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	5,067,447	2,746,697	7,814,144	5,181,549	2,799,877	7,981,426	5,297,556	2,853,863	8,151,419	0.70%	0.59%	0.66%	1.40%	1.17%	1.32%	2.10%	1.77%	1.99%
2019	5,101,630	2,761,876	7,863,506	5,251,658	2,830,955	8,082,612	5,405,382	2,901,576	8,306,957	0.67%	0.55%	0.63%	1.35%	1.11%	1.27%	2.04%	1.67%	1.91%
2020	5,160,920	2,776,191	7,937,110	5,347,418	2,860,906	8,208,323	5,539,963	2,948,107	8,488,070	1.16%	0.52%	0.94%	1.82%	1.06%	1.56%	2.49%	1.60%	2.18%
2021	5,167,465	2,789,560	7,957,025	5,388,507	2,889,872	8,278,378	5,618,418	2,993,813	8,612,232	0.13%	0.48%	0.25%	0.77%	1.01%	0.85%	1.42%	1.55%	1.46%
2022	5,199,549	2,802,290	8,001,839	5,456,203	2,918,252	8,374,455	5,725,121	3,039,194	8,764,315	0.62%	0.46%	0.56%	1.26%	0.98%	1.16%	1.90%	1.52%	1.77%
2023	5,231,201	2,814,525	8,045,727	5,523,604	2,946,233	8,469,837	5,832,202	3,084,477	8,916,679	0.61%	0.44%	0.55%	1.24%	0.96%	1.14%	1.87%	1.49%	1.74%
2024	5,288,942	2,826,184	8,115,125	5,618,730	2,973,629	8,592,359	5,969,278	3,129,367	9,098,645	1.10%	0.41%	0.86%	1.72%	0.93%	1.45%	2.35%	1.46%	2.04%
2025	5,293,593	2,837,499	8,131,091	5,658,296	3,000,926	8,659,222	6,048,753	3,174,625	9,223,378	0.09%	0.40%	0.20%	0.70%	0.92%	0.78%	1.33%	1.45%	1.37%
2026	5,324,587	2,848,638	8,173,225	5,726,036	3,028,145	8,754,182	6,158,900	3,220,123	9,379,023	0.59%	0.39%	0.52%	1.20%	0.91%	1.10%	1.82%	1.43%	1.69%
2027	5,355,307	2,859,404	8,214,711	5,793,758	3,055,080	8,848,838	6,269,871	3,265,638	9,535,509	0.58%	0.38%	0.51%	1.18%	0.89%	1.08%	1.80%	1.41%	1.67%
2028	5,412,659	2,869,817	8,282,476	5,890,314	3,081,650	8,971,965	6,412,609	3,310,982	9,723,591	1.07%	0.36%	0.82%	1.67%	0.87%	1.39%	2.28%	1.39%	1.97%
2029	5,415,833	2,880,065	8,295,898	5,928,817	3,108,143	9,036,960	6,493,689	3,356,557	9,850,246	0.06%	0.36%	0.16%	0.65%	0.86%	0.72%	1.26%	1.38%	1.30%
2030	5,445,842	2,890,075	8,335,917	5,996,576	3,134,513	9,131,089	6,607,229	3,402,346	10,009,575	0.55%	0.35%	0.48%	1.14%	0.85%	1.04%	1.75%	1.36%	1.62%
2031	5,475,489	2,899,885	8,375,373	6,064,054	3,160,656	9,224,710	6,721,146	3,448,086	10,169,232	0.54%	0.34%	0.47%	1.13%	0.83%	1.03%	1.72%	1.34%	1.60%
2032	5,532,302	2,909,344	8,441,646	6,161,634	3,186,537	9,348,171	6,868,983	3,493,869	10,362,852	1.04%	0.33%	0.79%	1.61%	0.82%	1.34%	2.20%	1.33%	1.90%
2033	5,533,469	2,918,511	8,451,980	6,197,803	3,211,957	9,409,761	6,949,554	3,539,191	10,488,745	0.02%	0.32%	0.12%	0.59%	0.80%	0.66%	1.17%	1.30%	1.21%
2034	5,562,055	2,927,506	8,489,562	6,264,578	3,237,360	9,501,938	7,064,869	3,584,882	10,649,751	0.52%	0.31%	0.44%	1.08%	0.79%	0.98%	1.66%	1.29%	1.54%
2035	5,590,004	2,936,110	8,526,114	6,330,463	3,262,248	9,592,712	7,179,528	3,630,104	10,809,632	0.50%	0.29%	0.43%	1.05%	0.77%	0.96%	1.62%	1.26%	1.50%
2036	5,645,816	2,944,550	8,590,366	6,427,950	3,287,068	9,715,018	7,330,624	3,675,578	11,006,202	1.00%	0.29%	0.75%	1.54%	0.76%	1.27%	2.10%	1.25%	1.82%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	7,481	68,756	76,237	7,582	69,818	77,400	7,683	70,890	78,573	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	7,525	69,237	76,762	7,671	70,797	78,468	7,819	72,383	80,202	0.59%	0.70%	0.69%	1.17%	1.40%	1.38%	1.77%	2.11%	2.07%
2019	7,567	69,704	77,271	7,756	71,756	79,512	7,950	73,858	81,807	0.55%	0.68%	0.66%	1.11%	1.35%	1.33%	1.67%	2.04%	2.00%
2020	7,606	70,160	77,766	7,838	72,699	80,537	8,077	75,322	83,399	0.52%	0.65%	0.64%	1.06%	1.31%	1.29%	1.60%	1.98%	1.95%
2021	7,643	70,602	78,244	7,917	73,628	81,545	8,202	76,776	84,978	0.48%	0.63%	0.62%	1.01%	1.28%	1.25%	1.55%	1.93%	1.89%
2022	7,678	71,038	78,715	7,995	74,553	82,549	8,327	78,239	86,565	0.46%	0.62%	0.60%	0.98%	1.26%	1.23%	1.52%	1.91%	1.87%
2023	7,711	71,467	79,178	8,072	75,475	83,547	8,451	79,708	88,159	0.44%	0.60%	0.59%	0.96%	1.24%	1.21%	1.49%	1.88%	1.84%
2024	7,743	71,890	79,633	8,147	76,394	84,541	8,574	81,185	89,758	0.41%	0.59%	0.57%	0.93%	1.22%	1.19%	1.46%	1.85%	1.81%
2025	7,774	72,311	80,085	8,222	77,318	85,539	8,698	82,682	91,379	0.40%	0.59%	0.57%	0.92%	1.21%	1.18%	1.45%	1.84%	1.81%
2026	7,804	72,730	80,534	8,296	78,244	86,541	8,822	84,195	93,017	0.39%	0.58%	0.56%	0.91%	1.20%	1.17%	1.43%	1.83%	1.79%
2027	7,834	73,144	80,978	8,370	79,171	87,541	8,947	85,720	94,667	0.38%	0.57%	0.55%	0.89%	1.18%	1.16%	1.41%	1.81%	1.77%
2028	7,863	73,553	81,416	8,443	80,094	88,536	9,071	87,252	96,323	0.36%	0.56%	0.54%	0.87%	1.17%	1.14%	1.39%	1.79%	1.75%
2029	7,891	73,960	81,851	8,515	81,019	89,535	9,196	88,800	97,996	0.36%	0.55%	0.53%	0.86%	1.16%	1.13%	1.38%	1.77%	1.74%
2030	7,918	74,364	82,282	8,588	81,947	90,535	9,321	90,364	99,685	0.35%	0.55%	0.53%	0.85%	1.15%	1.12%	1.36%	1.76%	1.72%
2031	7,945	74,764	82,709	8,659	82,872	91,531	9,447	91,934	101,381	0.34%	0.54%	0.52%	0.83%	1.13%	1.10%	1.34%	1.74%	1.70%
2032	7,971	75,158	83,129	8,730	83,794	92,524	9,572	93,514	103,086	0.33%	0.53%	0.51%	0.82%	1.11%	1.09%	1.33%	1.72%	1.68%
2033	7,996	75,545	83,541	8,800	84,706	93,506	9,696	95,087	104,783	0.32%	0.51%	0.50%	0.80%	1.09%	1.06%	1.30%	1.68%	1.65%
2034	8,021	75,930	83,951	8,869	85,622	94,491	9,822	96,680	106,501	0.31%	0.51%	0.49%	0.79%	1.08%	1.05%	1.29%	1.68%	1.64%
2035	8,044	76,307	84,351	8,938	86,527	95,465	9,945	98,266	108,212	0.29%	0.50%	0.48%	0.77%	1.06%	1.03%	1.26%	1.64%	1.61%
2036	8,067	76,682	84,749	9,006	87,436	96,442	10,070	99,871	109,941	0.29%	0.49%	0.47%	0.76%	1.05%	1.02%	1.25%	1.63%	1.60%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,578,412	6,184,581	7,762,993	1,595,805	6,281,582	7,877,387	1,613,323	6,379,410	7,992,733	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1,587,092	6,227,052	7,814,144	1,613,418	6,368,008	7,981,426	1,640,126	6,511,293	8,151,419	0.55%	0.69%	0.66%	1.10%	1.38%	1.32%	1.66%	2.07%	1.99%
2019	1,595,805	6,267,701	7,863,506	1,631,228	6,451,385	8,082,612	1,667,426	6,639,531	8,306,957	0.55%	0.65%	0.63%	1.10%	1.31%	1.27%	1.66%	1.97%	1.91%
2020	1,609,012	6,328,098	7,937,110	1,653,775	6,554,549	8,208,323	1,699,851	6,788,219	8,488,070	0.83%	0.96%	0.94%	1.38%	1.60%	1.56%	1.94%	2.24%	2.18%
2021	1,613,301	6,343,723	7,957,025	1,667,385	6,610,993	8,278,378	1,723,469	6,888,763	8,612,232	0.27%	0.25%	0.25%	0.82%	0.86%	0.85%	1.39%	1.48%	1.46%
2022	1,622,073	6,379,766	8,001,839	1,685,715	6,688,740	8,374,455	1,752,198	7,012,118	8,764,315	0.54%	0.57%	0.56%	1.10%	1.18%	1.16%	1.67%	1.79%	1.77%
2023	1,630,862	6,414,865	8,045,727	1,704,218	6,765,619	8,469,837	1,781,417	7,135,262	8,916,679	0.54%	0.55%	0.55%	1.10%	1.15%	1.14%	1.67%	1.76%	1.74%
2024	1,644,200	6,470,925	8,115,125	1,727,580	6,864,778	8,592,359	1,815,978	7,282,666	9,098,645	0.82%	0.87%	0.86%	1.37%	1.47%	1.45%	1.94%	2.07%	2.04%
2025	1,648,453	6,482,638	8,131,091	1,741,670	6,917,552	8,659,222	1,841,242	7,382,135	9,223,378	0.26%	0.18%	0.20%	0.82%	0.77%	0.78%	1.39%	1.37%	1.37%
2026	1,657,225	6,516,001	8,173,225	1,760,558	6,993,624	8,754,182	1,871,765	7,507,258	9,379,023	0.53%	0.51%	0.52%	1.08%	1.10%	1.10%	1.66%	1.69%	1.69%
2027	1,665,973	6,548,738	8,214,711	1,779,541	7,069,297	8,848,838	1,902,682	7,632,827	9,535,509	0.53%	0.50%	0.51%	1.08%	1.08%	1.08%	1.65%	1.67%	1.67%
2028	1,679,279	6,603,197	8,282,476	1,803,402	7,168,562	8,971,965	1,938,994	7,784,597	9,723,591	0.80%	0.83%	0.82%	1.34%	1.40%	1.39%	1.91%	1.99%	1.97%
2029	1,683,357	6,612,541	8,295,898	1,817,698	7,219,262	9,036,960	1,965,572	7,884,674	9,850,246	0.24%	0.14%	0.16%	0.79%	0.71%	0.72%	1.37%	1.29%	1.30%
2030	1,691,999	6,643,918	8,335,917	1,836,888	7,294,201	9,131,089	1,997,581	8,011,994	10,009,575	0.51%	0.47%	0.48%	1.06%	1.04%	1.04%	1.63%	1.61%	1.62%
2031	1,700,497	6,674,876	8,375,373	1,855,912	7,368,797	9,224,710	2,029,584	8,139,648	10,169,232	0.50%	0.47%	0.47%	1.04%	1.02%	1.03%	1.60%	1.59%	1.60%
2032	1,713,517	6,728,129	8,441,646	1,879,734	7,468,437	9,348,171	2,066,857	8,295,995	10,362,852	0.77%	0.80%	0.79%	1.28%	1.35%	1.34%	1.84%	1.92%	1.90%
2033	1,717,088	6,734,891	8,451,980	1,893,512	7,516,249	9,409,761	2,093,641	8,395,104	10,488,745	0.21%	0.10%	0.12%	0.73%	0.64%	0.66%	1.30%	1.19%	1.21%
2034	1,725,185	6,764,377	8,489,562	1,912,088	7,589,850	9,501,938	2,125,696	8,524,055	10,649,751	0.47%	0.44%	0.44%	0.98%	0.98%	0.98%	1.53%	1.54%	1.54%
2035	1,733,147	6,792,966	8,526,114	1,930,510	7,662,202	9,592,712	2,157,762	8,651,870	10,809,632	0.46%	0.42%	0.43%	0.96%	0.95%	0.96%	1.51%	1.50%	1.50%
2036	1,745,698	6,844,668	8,590,366	1,953,860	7,761,158	9,715,018	2,195,311	8,810,891	11,006,202	0.72%	0.76%	0.75%	1.21%	1.29%	1.27%	1.74%	1.84%	1.82%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,708	1,214	3,922	2,738	1,235	3,973	2,768	1,256	4,023	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	2,723	1,223	3,946	2,768	1,253	4,021	2,813	1,284	4,097	0.55%	0.74%	0.61%	1.10%	1.49%	1.22%	1.65%	2.24%	1.84%
2019	2,738	1,232	3,970	2,798	1,271	4,069	2,860	1,311	4,171	0.55%	0.71%	0.60%	1.10%	1.42%	1.20%	1.66%	2.13%	1.81%
2020	2,753	1,240	3,993	2,829	1,288	4,117	2,907	1,338	4,245	0.54%	0.68%	0.59%	1.10%	1.36%	1.18%	1.66%	2.05%	1.78%
2021	2,768	1,249	4,016	2,860	1,305	4,165	2,956	1,364	4,320	0.54%	0.66%	0.58%	1.10%	1.32%	1.17%	1.66%	1.98%	1.76%
2022	2,783	1,257	4,039	2,891	1,322	4,213	3,005	1,391	4,395	0.54%	0.64%	0.57%	1.09%	1.29%	1.15%	1.66%	1.94%	1.75%
2023	2,798	1,265	4,062	2,923	1,339	4,262	3,054	1,417	4,472	0.54%	0.63%	0.57%	1.09%	1.27%	1.15%	1.66%	1.91%	1.74%
2024	2,813	1,272	4,085	2,955	1,355	4,310	3,105	1,444	4,549	0.54%	0.61%	0.56%	1.09%	1.23%	1.14%	1.66%	1.86%	1.72%
2025	2,828	1,280	4,108	2,987	1,372	4,359	3,156	1,471	4,627	0.53%	0.61%	0.56%	1.08%	1.23%	1.13%	1.65%	1.85%	1.72%
2026	2,843	1,288	4,130	3,019	1,389	4,408	3,208	1,498	4,706	0.53%	0.60%	0.55%	1.08%	1.22%	1.12%	1.65%	1.84%	1.71%
2027	2,857	1,295	4,153	3,051	1,405	4,457	3,261	1,525	4,786	0.53%	0.59%	0.55%	1.07%	1.20%	1.11%	1.64%	1.81%	1.70%
2028	2,872	1,303	4,175	3,084	1,422	4,506	3,314	1,552	4,866	0.52%	0.58%	0.54%	1.06%	1.18%	1.10%	1.63%	1.78%	1.68%
2029	2,887	1,310	4,197	3,116	1,439	4,555	3,368	1,579	4,948	0.52%	0.57%	0.53%	1.06%	1.17%	1.09%	1.63%	1.77%	1.67%
2030	2,902	1,318	4,219	3,149	1,455	4,604	3,423	1,607	5,030	0.51%	0.57%	0.53%	1.05%	1.16%	1.08%	1.62%	1.75%	1.66%
2031	2,916	1,325	4,241	3,181	1,472	4,653	3,477	1,635	5,112	0.50%	0.56%	0.52%	1.03%	1.14%	1.06%	1.59%	1.73%	1.64%
2032	2,931	1,332	4,263	3,214	1,488	4,702	3,532	1,663	5,195	0.49%	0.55%	0.51%	1.01%	1.13%	1.05%	1.57%	1.71%	1.61%
2033	2,945	1,339	4,284	3,245	1,505	4,750	3,586	1,691	5,277	0.48%	0.54%	0.50%	0.99%	1.10%	1.03%	1.54%	1.67%	1.59%
2034	2,958	1,347	4,305	3,277	1,521	4,798	3,641	1,719	5,360	0.47%	0.54%	0.49%	0.97%	1.10%	1.01%	1.52%	1.67%	1.57%
2035	2,972	1,354	4,326	3,308	1,538	4,846	3,696	1,747	5,442	0.46%	0.52%	0.48%	0.96%	1.07%	0.99%	1.50%	1.63%	1.54%
2036	2,985	1,361	4,346	3,340	1,554	4,893	3,750	1,775	5,525	0.45%	0.52%	0.47%	0.94%	1.06%	0.98%	1.48%	1.62%	1.52%





20 Year Customer Growth Rate	
High:	37.34%
Medium:	23.18%
Low:	10.80%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Zone 30-S

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	28,964,446	11,945,013	40,909,459	29,341,579	12,114,621	41,456,200	29,721,360	12,285,526	42,006,887
2018	29,144,791	12,025,146	41,169,937	29,707,332	12,277,349	41,984,681	30,277,640	12,533,342	42,810,982
2019	29,323,386	12,103,956	41,427,342	30,071,902	12,438,719	42,510,621	30,835,739	12,780,932	43,616,671
2020	29,675,803	12,181,941	41,857,744	30,617,350	12,599,882	43,217,232	31,584,389	13,030,112	44,614,501
2021	29,677,198	12,258,875	41,936,073	30,801,500	12,760,285	43,561,785	31,963,576	13,279,973	45,243,549
2022	29,853,166	12,335,396	42,188,562	31,168,030	12,921,198	44,089,228	32,535,630	13,532,469	46,068,099
2023	30,028,924	12,411,529	42,440,453	31,536,626	13,082,719	44,619,345	33,114,599	13,787,785	46,902,384
2024	30,382,843	12,486,937	42,869,779	32,095,016	13,243,926	45,338,941	33,898,053	14,044,365	47,942,418
2025	30,378,816	12,562,159	42,940,974	32,277,510	13,405,991	45,683,501	34,289,250	14,304,109	48,593,359
2026	30,552,814	12,636,632	43,189,446	32,649,559	13,567,813	46,217,371	34,884,629	14,565,295	49,449,924
2027	30,726,694	12,710,964	43,437,658	33,023,657	13,730,399	46,754,056	35,486,942	14,829,422	50,316,365
2028	31,082,129	12,784,435	43,866,564	33,594,736	13,892,189	47,486,925	36,305,325	15,093,952	51,399,277
2029	31,071,218	12,857,603	43,928,821	33,771,722	14,054,463	47,826,185	36,702,241	15,361,008	52,063,248
2030	31,241,684	12,929,710	44,171,394	34,145,220	14,215,555	48,360,775	37,314,397	15,627,837	52,942,233
2031	31,410,490	13,001,103	44,411,593	34,517,362	14,376,119	48,893,481	37,928,004	15,895,488	53,823,492
2032	31,763,860	13,071,476	44,835,336	35,092,851	14,535,367	49,628,218	38,767,988	16,162,554	54,930,543
2033	31,740,783	13,140,522	44,881,305	35,251,906	14,692,773	49,944,679	39,149,648	16,428,229	55,577,877
2034	31,902,344	13,208,604	45,110,948	35,614,251	14,848,766	50,463,016	39,757,363	16,692,988	56,450,351
2035	32,061,876	13,275,699	45,337,574	35,974,124	15,003,583	50,977,707	40,364,314	16,957,364	57,321,678
2036	32,409,937	13,341,704	45,751,641	36,546,004	15,156,814	51,702,818	41,211,890	17,220,565	58,432,455

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.62%	0.67%	0.64%	1.25%	1.34%	1.27%	1.87%	2.02%	1.91%
2019	0.61%	0.66%	0.63%	1.23%	1.31%	1.25%	1.84%	1.98%	1.88%
2020	1.20%	0.64%	1.04%	1.81%	1.30%	1.66%	2.43%	1.95%	2.29%
2021	0.00%	0.63%	0.19%	0.60%	1.27%	0.80%	1.20%	1.92%	1.41%
2022	0.59%	0.62%	0.60%	1.19%	1.26%	1.21%	1.79%	1.90%	1.82%
2023	0.59%	0.62%	0.60%	1.18%	1.25%	1.20%	1.78%	1.89%	1.81%
2024	1.18%	0.61%	1.01%	1.77%	1.23%	1.61%	2.37%	1.86%	2.22%
2025	-0.01%	0.60%	0.17%	0.57%	1.22%	0.76%	1.15%	1.85%	1.36%
2026	0.57%	0.59%	0.58%	1.15%	1.21%	1.17%	1.74%	1.83%	1.76%
2027	0.57%	0.59%	0.57%	1.15%	1.20%	1.16%	1.73%	1.81%	1.75%
2028	1.16%	0.58%	0.99%	1.73%	1.18%	1.57%	2.31%	1.78%	2.15%
2029	-0.04%	0.57%	0.14%	0.53%	1.17%	0.71%	1.09%	1.77%	1.29%
2030	0.55%	0.56%	0.55%	1.11%	1.15%	1.12%	1.67%	1.74%	1.69%
2031	0.54%	0.55%	0.54%	1.09%	1.13%	1.10%	1.64%	1.71%	1.66%
2032	1.13%	0.54%	0.95%	1.67%	1.11%	1.50%	2.21%	1.68%	2.06%
2033	-0.07%	0.53%	0.10%	0.45%	1.08%	0.64%	0.98%	1.64%	1.18%
2034	0.51%	0.52%	0.51%	1.03%	1.06%	1.04%	1.55%	1.61%	1.57%
2035	0.50%	0.51%	0.50%	1.01%	1.04%	1.02%	1.53%	1.58%	1.54%
2036	1.09%	0.50%	0.91%	1.59%	1.02%	1.42%	2.10%	1.55%	1.94%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	32,726	368,907	401,633	33,191	373,743	406,934	33,659	378,613	412,272
2018	32,946	371,221	404,167	33,637	378,438	412,074	34,338	385,755	420,093
2019	33,162	373,513	406,675	34,079	383,118	417,197	35,016	392,922	427,938
2020	33,375	375,794	409,169	34,520	387,807	422,328	35,699	400,149	435,848
2021	33,586	378,054	411,640	34,960	392,488	427,448	36,383	407,412	443,795
2022	33,796	380,312	414,108	35,401	397,196	432,597	37,075	414,764	451,840
2023	34,004	382,567	416,571	35,843	401,930	437,773	37,775	422,205	459,980
2024	34,211	384,812	419,023	36,285	406,675	442,960	38,478	429,710	468,188
2025	34,417	387,054	421,471	36,729	411,446	448,175	39,189	437,305	476,495
2026	34,621	389,285	423,906	37,172	416,224	453,396	39,905	444,958	484,863
2027	34,825	391,514	426,338	37,618	421,027	458,645	40,629	452,700	493,328
2028	35,026	393,724	428,750	38,061	425,820	463,881	41,353	460,471	501,825
2029	35,226	395,929	431,155	38,505	430,630	469,136	42,085	468,318	510,403
2030	35,424	398,112	433,536	38,947	435,424	474,371	42,816	476,185	519,001
2031	35,619	400,274	435,893	39,387	440,200	479,587	43,549	484,069	527,618
2032	35,812	402,404	438,217	39,823	444,934	484,757	44,281	491,929	536,210
2033	36,001	404,503	440,504	40,254	449,624	489,878	45,009	499,763	544,772
2034	36,188	406,570	442,758	40,682	454,272	494,953	45,734	507,568	553,302
2035	36,372	408,611	444,983	41,106	458,886	499,992	46,459	515,362	561,820
2036	36,553	410,624	447,176	41,526	463,462	504,987	47,180	523,131	570,311

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.67%	0.63%	0.63%	1.34%	1.26%	1.26%	2.02%	1.89%	1.90%
2019	0.66%	0.62%	0.62%	1.31%	1.24%	1.24%	1.98%	1.86%	1.87%
2020	0.64%	0.61%	0.61%	1.30%	1.22%	1.23%	1.95%	1.84%	1.85%
2021	0.63%	0.60%	0.60%	1.27%	1.21%	1.21%	1.92%	1.81%	1.82%
2022	0.62%	0.60%	0.60%	1.26%	1.20%	1.20%	1.90%	1.80%	1.81%
2023	0.62%	0.59%	0.59%	1.25%	1.19%	1.20%	1.89%	1.79%	1.80%
2024	0.61%	0.59%	0.59%	1.23%	1.18%	1.18%	1.86%	1.78%	1.78%
2025	0.60%	0.58%	0.58%	1.22%	1.17%	1.18%	1.85%	1.77%	1.77%
2026	0.59%	0.58%	0.58%	1.21%	1.16%	1.16%	1.83%	1.75%	1.76%
2027	0.59%	0.57%	0.57%	1.20%	1.15%	1.16%	1.81%	1.74%	1.75%
2028	0.58%	0.56%	0.57%	1.18%	1.14%	1.14%	1.78%	1.72%	1.72%
2029	0.57%	0.56%	0.56%	1.17%	1.13%	1.13%	1.77%	1.70%	1.71%
2030	0.56%	0.55%	0.55%	1.15%	1.11%	1.12%	1.74%	1.68%	1.68%
2031	0.55%	0.54%	0.54%	1.13%	1.10%	1.10%	1.71%	1.66%	1.66%
2032	0.54%	0.53%	0.53%	1.11%	1.08%	1.08%	1.68%	1.62%	1.63%
2033	0.53%	0.52%	0.52%	1.08%	1.05%	1.06%	1.64%	1.59%	1.60%
2034	0.52%	0.51%	0.51%	1.06%	1.03%	1.04%	1.61%	1.56%	1.57%
2035	0.51%	0.50%	0.50%	1.04%	1.02%	1.02%	1.58%	1.54%	1.54%
2036	0.50%	0.49%	0.49%	1.02%	1.00%	1.00%	1.55%	1.51%	1.51%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	23,803,593	17,105,866	40,909,459	24,059,903	17,396,297	41,456,200	24,317,631	17,689,255	42,006,887
2018	23,931,959	17,237,978	41,169,937	24,319,493	17,665,189	41,984,681	24,711,325	18,099,656	42,810,982
2019	24,060,861	17,366,481	41,427,342	24,581,610	17,929,011	42,510,621	25,111,046	18,505,626	43,616,671
2020	24,300,039	17,557,704	41,857,744	24,958,944	18,258,288	43,217,232	25,632,537	18,981,964	44,614,501
2021	24,320,025	17,616,048	41,936,073	25,113,002	18,448,783	43,561,785	25,928,121	19,315,428	45,243,549
2022	24,450,196	17,738,366	42,188,562	25,382,117	18,707,112	44,089,228	26,345,327	19,722,772	46,068,099
2023	24,580,706	17,859,746	42,440,453	25,653,421	18,965,924	44,619,345	26,768,235	20,134,149	46,902,384
2024	24,823,658	18,046,122	42,869,779	26,044,485	19,294,456	45,338,941	27,320,167	20,622,251	47,942,418
2025	24,842,283	18,098,692	42,940,974	26,201,675	19,481,826	45,683,501	27,629,883	20,963,476	48,593,359
2026	24,972,853	18,216,593	43,189,446	26,477,592	19,739,780	46,217,371	28,067,063	21,382,861	49,449,924
2027	25,103,254	18,334,404	43,437,658	26,754,649	19,999,408	46,754,056	28,508,425	21,807,939	50,316,365
2028	25,347,660	18,518,904	43,866,564	27,154,785	20,332,140	47,486,925	29,084,196	22,315,081	51,399,277
2029	25,362,754	18,566,067	43,928,821	27,310,456	20,515,729	47,826,185	29,400,990	22,662,258	52,063,248
2030	25,491,848	18,679,547	44,171,394	27,589,171	20,771,604	48,360,775	29,852,148	23,090,086	52,942,233
2031	25,619,071	18,792,522	44,411,593	27,865,307	21,028,174	48,893,481	30,301,496	23,521,996	53,823,492
2032	25,861,086	18,974,251	44,835,336	28,266,120	21,362,098	49,628,218	30,887,779	24,042,764	54,930,543
2033	25,867,640	19,013,664	44,881,305	28,409,020	21,535,659	49,944,679	31,193,131	24,384,746	55,577,877
2034	25,989,074	19,121,874	45,110,948	28,676,669	21,786,347	50,463,016	31,635,388	24,814,963	56,450,351
2035	26,108,705	19,228,869	45,337,574	28,941,649	22,036,058	50,977,707	32,075,393	25,246,285	57,321,678
2036	26,345,655	19,405,987	45,751,641	29,336,653	22,366,165	51,702,818	32,660,894	25,771,561	58,432,455

Annual Change

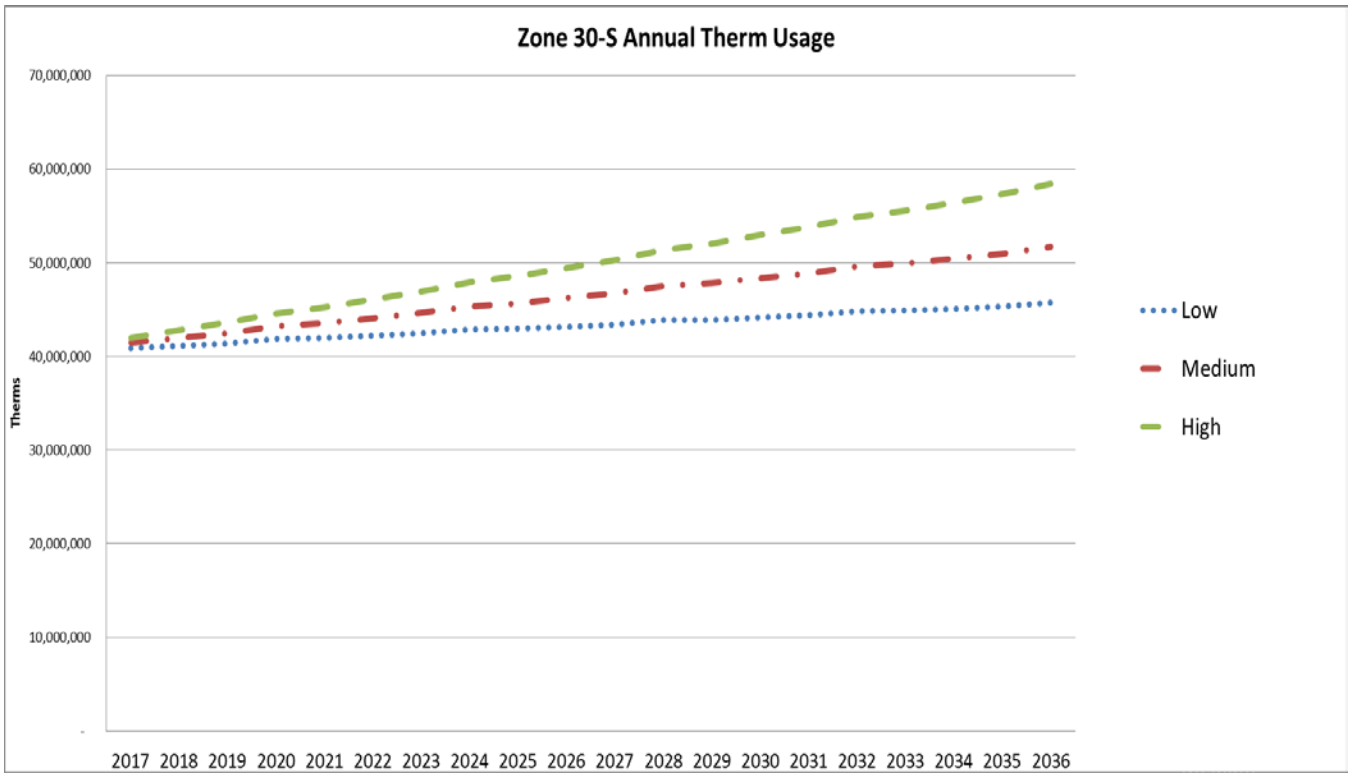
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.54%	0.77%	0.64%	1.08%	1.55%	1.27%	1.62%	2.32%	1.91%
2019	0.54%	0.75%	0.63%	1.08%	1.49%	1.25%	1.62%	2.24%	1.88%
2020	0.99%	1.10%	1.04%	1.54%	1.84%	1.66%	2.08%	2.57%	2.29%
2021	0.08%	0.33%	0.19%	0.62%	1.04%	0.80%	1.15%	1.76%	1.41%
2022	0.54%	0.69%	0.60%	1.07%	1.40%	1.21%	1.61%	2.11%	1.82%
2023	0.53%	0.68%	0.60%	1.07%	1.38%	1.20%	1.61%	2.09%	1.81%
2024	0.99%	1.04%	1.01%	1.52%	1.73%	1.61%	2.06%	2.42%	2.22%
2025	0.08%	0.29%	0.17%	0.60%	0.97%	0.76%	1.13%	1.65%	1.36%
2026	0.53%	0.65%	0.58%	1.05%	1.32%	1.17%	1.58%	2.00%	1.76%
2027	0.52%	0.65%	0.57%	1.05%	1.32%	1.16%	1.57%	1.99%	1.75%
2028	0.97%	1.01%	0.99%	1.50%	1.66%	1.57%	2.02%	2.33%	2.15%
2029	0.06%	0.25%	0.14%	0.57%	0.90%	0.71%	1.09%	1.56%	1.29%
2030	0.51%	0.61%	0.55%	1.02%	1.25%	1.12%	1.53%	1.89%	1.69%
2031	0.50%	0.60%	0.54%	1.00%	1.24%	1.10%	1.51%	1.87%	1.66%
2032	0.94%	0.97%	0.95%	1.44%	1.59%	1.50%	1.93%	2.21%	2.06%
2033	0.03%	0.21%	0.10%	0.51%	0.81%	0.64%	0.99%	1.42%	1.18%
2034	0.47%	0.57%	0.51%	0.94%	1.16%	1.04%	1.42%	1.76%	1.57%
2035	0.46%	0.56%	0.50%	0.92%	1.15%	1.02%	1.39%	1.74%	1.54%
2036	0.91%	0.92%	0.91%	1.36%	1.50%	1.42%	1.83%	2.08%	1.94%

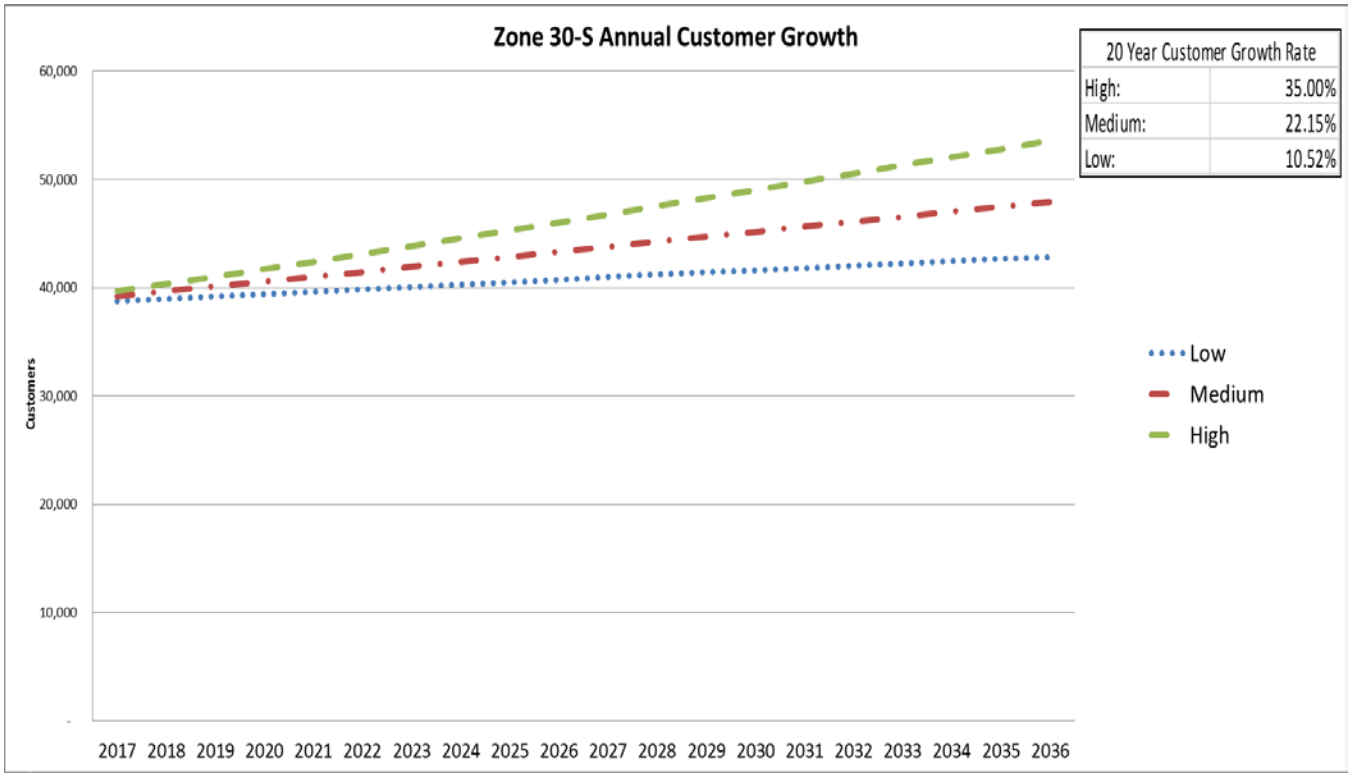
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	35,019	3,771	38,790	35,398	3,835	39,233	35,778	3,900	39,679
2018	35,209	3,800	39,009	35,781	3,894	39,676	36,360	3,990	40,350
2019	35,399	3,828	39,227	36,168	3,952	40,120	36,950	4,079	41,030
2020	35,590	3,856	39,446	36,559	4,010	40,569	37,549	4,168	41,718
2021	35,782	3,883	39,665	36,953	4,066	41,019	38,157	4,257	42,414
2022	35,974	3,910	39,884	37,351	4,123	41,473	38,773	4,346	43,119
2023	36,167	3,937	40,104	37,751	4,180	41,931	39,398	4,436	43,834
2024	36,360	3,963	40,324	38,155	4,236	42,392	40,031	4,527	44,558
2025	36,553	3,990	40,543	38,561	4,294	42,855	40,671	4,619	45,289
2026	36,746	4,017	40,763	38,969	4,351	43,320	41,317	4,711	46,028
2027	36,939	4,043	40,982	39,378	4,409	43,787	41,969	4,806	46,774
2028	37,131	4,069	41,200	39,788	4,466	44,254	42,625	4,900	47,526
2029	37,322	4,096	41,418	40,199	4,524	44,724	43,288	4,996	48,284
2030	37,513	4,121	41,634	40,611	4,582	45,193	43,954	5,092	49,046
2031	37,701	4,147	41,848	41,019	4,640	45,659	44,618	5,189	49,807
2032	37,886	4,173	42,059	41,423	4,697	46,120	45,279	5,286	50,564
2033	38,068	4,198	42,266	41,823	4,755	46,577	45,936	5,383	51,319
2034	38,248	4,223	42,471	42,218	4,812	47,030	46,590	5,481	52,070
2035	38,424	4,248	42,672	42,610	4,869	47,479	47,240	5,579	52,819
2036	38,599	4,273	42,871	42,998	4,926	47,923	47,888	5,677	53,565

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.54%	0.77%	0.56%	1.08%	1.54%	1.13%	1.63%	2.31%	1.69%
2019	0.54%	0.74%	0.56%	1.08%	1.48%	1.12%	1.62%	2.23%	1.68%
2020	0.54%	0.73%	0.56%	1.08%	1.45%	1.12%	1.62%	2.18%	1.68%
2021	0.54%	0.70%	0.55%	1.08%	1.41%	1.11%	1.62%	2.12%	1.67%
2022	0.54%	0.69%	0.55%	1.08%	1.39%	1.11%	1.62%	2.09%	1.66%
2023	0.54%	0.69%	0.55%	1.07%	1.38%	1.10%	1.61%	2.08%	1.66%
2024	0.53%	0.68%	0.55%	1.07%	1.36%	1.10%	1.61%	2.04%	1.65%
2025	0.53%	0.67%	0.55%	1.06%	1.35%	1.09%	1.60%	2.03%	1.64%
2026	0.53%	0.66%	0.54%	1.06%	1.34%	1.08%	1.59%	2.01%	1.63%
2027	0.52%	0.66%	0.54%	1.05%	1.33%	1.08%	1.58%	2.00%	1.62%
2028	0.52%	0.65%	0.53%	1.04%	1.31%	1.07%	1.56%	1.97%	1.61%
2029	0.52%	0.65%	0.53%	1.03%	1.30%	1.06%	1.55%	1.96%	1.60%
2030	0.51%	0.63%	0.52%	1.02%	1.27%	1.05%	1.54%	1.92%	1.58%
2031	0.50%	0.63%	0.51%	1.00%	1.26%	1.03%	1.51%	1.90%	1.55%
2032	0.49%	0.62%	0.50%	0.98%	1.24%	1.01%	1.48%	1.87%	1.52%
2033	0.48%	0.61%	0.49%	0.97%	1.22%	0.99%	1.45%	1.84%	1.49%
2034	0.47%	0.60%	0.48%	0.95%	1.20%	0.97%	1.42%	1.81%	1.46%
2035	0.46%	0.59%	0.47%	0.93%	1.19%	0.95%	1.40%	1.79%	1.44%
2036	0.45%	0.58%	0.47%	0.91%	1.17%	0.94%	1.37%	1.76%	1.41%





20 Year Customer Growth Rate	
High:	35.00%
Medium:	22.15%
Low:	10.52%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Zone 30-W

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	65,159,625	24,016,576	89,176,201	66,135,292	24,389,832	90,525,124	67,118,604	24,766,124	91,884,728
2018	65,629,935	24,193,346	89,823,281	67,090,657	24,749,137	91,839,794	68,573,946	25,313,805	93,887,751
2019	66,096,613	24,367,498	90,464,111	68,045,658	25,105,817	93,151,475	70,039,441	25,861,596	95,901,037
2020	66,965,146	24,539,726	91,504,871	69,421,666	25,461,182	94,882,848	71,952,838	26,411,412	98,364,250
2021	67,023,936	24,710,809	91,734,745	69,963,992	25,816,780	95,780,772	73,015,165	26,965,611	99,980,776
2022	67,487,306	24,881,432	92,368,738	70,932,863	26,174,004	97,106,868	74,534,149	27,526,382	102,060,531
2023	67,949,992	25,051,293	93,001,285	71,907,164	26,532,206	98,439,369	76,072,430	28,092,738	104,165,168
2024	68,829,271	25,221,118	94,050,388	73,333,264	26,892,912	100,226,175	78,107,494	28,667,148	106,774,642
2025	68,876,481	25,390,289	94,266,770	73,878,778	27,254,797	101,133,574	79,218,227	29,247,538	108,465,765
2026	69,339,256	25,559,259	94,898,515	74,873,931	27,618,819	102,492,751	80,822,652	29,835,498	110,658,150
2027	69,801,736	25,727,980	95,529,716	75,875,357	27,984,883	103,860,240	82,448,376	30,430,932	112,879,307
2028	70,690,376	25,896,269	96,586,644	77,349,285	28,352,575	105,701,860	84,605,101	31,033,212	115,638,313
2029	70,724,905	26,064,321	96,789,226	77,895,030	28,722,314	106,617,344	85,761,067	31,643,068	117,404,135
2030	71,185,404	26,231,905	97,417,308	78,912,794	29,093,576	108,006,371	87,447,448	32,259,673	119,707,121
2031	71,642,583	26,398,462	98,041,045	79,930,121	29,465,125	109,395,247	89,144,611	32,881,032	122,025,644
2032	72,533,987	26,563,671	99,097,658	81,437,691	29,836,208	111,273,899	91,402,667	33,505,891	124,908,558
2033	72,545,867	26,727,627	99,273,494	81,960,397	30,206,967	112,167,364	92,565,827	34,134,424	126,700,251
2034	72,991,906	26,890,366	99,882,272	82,972,876	30,577,434	113,550,310	94,288,861	34,766,671	129,055,532
2035	73,435,086	27,052,218	100,487,304	83,985,442	30,948,355	114,933,797	96,023,332	35,403,941	131,427,273
2036	74,323,648	27,212,946	101,536,594	85,513,056	31,319,101	116,832,157	98,360,660	36,045,069	134,405,729

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.72%	0.74%	0.73%	1.44%	1.47%	1.45%	2.17%	2.21%	2.18%
2019	0.71%	0.72%	0.71%	1.42%	1.44%	1.43%	2.14%	2.16%	2.14%
2020	1.31%	0.71%	1.15%	2.02%	1.42%	1.86%	2.73%	2.13%	2.57%
2021	0.09%	0.70%	0.25%	0.78%	1.40%	0.95%	1.48%	2.10%	1.64%
2022	0.69%	0.69%	0.69%	1.38%	1.38%	1.38%	2.08%	2.08%	2.08%
2023	0.69%	0.68%	0.68%	1.37%	1.37%	1.37%	2.06%	2.06%	2.06%
2024	1.29%	0.68%	1.13%	1.98%	1.36%	1.82%	2.68%	2.04%	2.51%
2025	0.07%	0.67%	0.23%	0.74%	1.35%	0.91%	1.42%	2.02%	1.58%
2026	0.67%	0.67%	0.67%	1.35%	1.34%	1.34%	2.03%	2.01%	2.02%
2027	0.67%	0.66%	0.67%	1.34%	1.33%	1.33%	2.01%	2.00%	2.01%
2028	1.27%	0.65%	1.11%	1.94%	1.31%	1.77%	2.62%	1.98%	2.44%
2029	0.05%	0.65%	0.21%	0.71%	1.30%	0.87%	1.37%	1.97%	1.53%
2030	0.65%	0.64%	0.65%	1.31%	1.29%	1.30%	1.97%	1.95%	1.96%
2031	0.64%	0.63%	0.64%	1.29%	1.28%	1.29%	1.94%	1.93%	1.94%
2032	1.24%	0.63%	1.08%	1.89%	1.26%	1.72%	2.53%	1.90%	2.36%
2033	0.02%	0.62%	0.18%	0.64%	1.24%	0.80%	1.27%	1.88%	1.43%
2034	0.61%	0.61%	0.61%	1.24%	1.23%	1.23%	1.86%	1.85%	1.86%
2035	0.61%	0.60%	0.61%	1.22%	1.21%	1.22%	1.84%	1.83%	1.84%
2036	1.21%	0.59%	1.04%	1.82%	1.20%	1.65%	2.43%	1.81%	2.27%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	65,799	861,184	926,982	66,821	874,090	940,911	67,852	887,097	954,950
2018	66,283	867,400	933,683	67,806	886,718	954,524	69,353	906,334	975,687
2019	66,760	873,567	940,327	68,783	899,337	968,120	70,854	925,699	996,553
2020	67,232	879,698	946,931	69,757	911,976	981,733	72,360	945,235	1,017,595
2021	67,701	885,816	953,517	70,731	924,677	995,408	73,878	965,006	1,038,885
2022	68,168	891,935	960,104	71,710	937,472	1,009,182	75,415	985,066	1,060,481
2023	68,634	898,045	966,679	72,691	950,338	1,023,029	76,966	1,005,378	1,082,345
2024	69,099	904,167	973,266	73,679	963,319	1,036,999	78,540	1,026,019	1,104,559
2025	69,562	910,278	979,840	74,671	976,369	1,051,039	80,130	1,046,911	1,127,041
2026	70,025	916,388	986,413	75,668	989,507	1,065,175	81,741	1,068,093	1,149,834
2027	70,488	922,494	992,982	76,671	1,002,728	1,079,399	83,372	1,089,555	1,172,927
2028	70,949	928,590	999,539	77,678	1,016,019	1,093,697	85,022	1,111,279	1,196,301
2029	71,409	934,681	1,006,090	78,691	1,029,390	1,108,081	86,693	1,133,284	1,219,977
2030	71,868	940,761	1,012,629	79,708	1,042,825	1,122,534	88,383	1,155,544	1,243,927
2031	72,325	946,796	1,019,121	80,726	1,056,255	1,136,981	90,085	1,177,946	1,268,032
2032	72,777	952,782	1,025,559	81,743	1,069,664	1,151,407	91,797	1,200,465	1,292,262
2033	73,226	958,721	1,031,947	82,759	1,083,055	1,165,814	93,519	1,223,104	1,316,623
2034	73,672	964,609	1,038,282	83,774	1,096,421	1,180,195	95,251	1,245,848	1,341,099
2035	74,116	970,460	1,044,576	84,790	1,109,788	1,194,578	96,997	1,268,742	1,365,739
2036	74,556	976,267	1,050,823	85,806	1,123,137	1,208,943	98,754	1,291,753	1,390,507

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.74%	0.72%	0.72%	1.47%	1.44%	1.45%	2.21%	2.17%	2.17%
2019	0.72%	0.71%	0.71%	1.44%	1.42%	1.42%	2.16%	2.14%	2.14%
2020	0.71%	0.70%	0.70%	1.42%	1.41%	1.41%	2.13%	2.11%	2.11%
2021	0.70%	0.70%	0.70%	1.40%	1.39%	1.39%	2.10%	2.09%	2.09%
2022	0.69%	0.69%	0.69%	1.38%	1.38%	1.38%	2.08%	2.08%	2.08%
2023	0.68%	0.69%	0.68%	1.37%	1.37%	1.37%	2.06%	2.06%	2.06%
2024	0.68%	0.68%	0.68%	1.36%	1.37%	1.37%	2.04%	2.05%	2.05%
2025	0.67%	0.68%	0.68%	1.35%	1.35%	1.35%	2.02%	2.04%	2.04%
2026	0.67%	0.67%	0.67%	1.34%	1.35%	1.34%	2.01%	2.02%	2.02%
2027	0.66%	0.67%	0.67%	1.33%	1.34%	1.34%	2.00%	2.01%	2.01%
2028	0.65%	0.66%	0.66%	1.31%	1.33%	1.32%	1.98%	1.99%	1.99%
2029	0.65%	0.66%	0.66%	1.30%	1.32%	1.32%	1.97%	1.98%	1.98%
2030	0.64%	0.65%	0.65%	1.29%	1.31%	1.30%	1.95%	1.96%	1.96%
2031	0.63%	0.64%	0.64%	1.28%	1.29%	1.29%	1.93%	1.94%	1.94%
2032	0.63%	0.63%	0.63%	1.26%	1.27%	1.27%	1.90%	1.91%	1.91%
2033	0.62%	0.62%	0.62%	1.24%	1.25%	1.25%	1.88%	1.89%	1.89%
2034	0.61%	0.61%	0.61%	1.23%	1.23%	1.23%	1.85%	1.86%	1.86%
2035	0.60%	0.61%	0.61%	1.21%	1.22%	1.22%	1.83%	1.84%	1.84%
2036	0.59%	0.60%	0.60%	1.20%	1.20%	1.20%	1.81%	1.81%	1.81%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	56,132,149	33,044,052	89,176,201	56,849,923	33,675,202	90,525,124	57,572,264	34,312,464	91,884,728
2018	56,491,943	33,331,339	89,823,281	57,578,726	34,261,068	91,839,794	58,679,379	35,208,372	93,887,751
2019	56,853,692	33,610,419	90,464,111	58,316,163	34,835,311	93,151,475	59,806,711	36,094,326	95,901,037
2020	57,477,270	34,027,601	91,504,871	59,330,315	35,552,533	94,882,848	61,230,918	37,133,332	98,364,250
2021	57,582,234	34,152,510	91,734,745	59,815,551	35,965,221	95,780,772	62,120,694	37,860,082	99,980,776
2022	57,948,968	34,419,770	92,368,738	60,577,508	36,529,360	97,106,868	63,307,741	38,752,790	102,060,531
2023	58,317,015	34,684,270	93,001,285	61,347,041	37,092,328	98,439,369	64,514,144	39,651,024	104,165,168
2024	58,953,377	35,097,011	94,050,388	62,407,059	37,819,116	100,226,175	66,039,703	40,734,939	106,774,642
2025	59,056,631	35,210,140	94,266,770	62,908,159	38,225,416	101,133,574	66,984,642	41,481,123	108,465,765
2026	59,426,978	35,471,537	94,898,515	63,697,233	38,795,518	102,492,751	68,245,070	42,413,080	110,658,150
2027	59,797,469	35,732,247	95,529,716	64,491,544	39,368,696	103,860,240	69,521,737	43,357,570	112,879,307
2028	60,441,008	36,145,637	96,586,644	65,586,560	40,115,300	105,701,860	71,134,492	44,503,821	115,638,313
2029	60,537,413	36,251,813	96,789,226	66,092,703	40,524,641	106,617,344	72,119,052	45,285,083	117,404,135
2030	60,906,956	36,510,352	97,417,308	66,899,722	41,106,649	108,006,371	73,440,133	46,266,988	119,707,121
2031	61,272,417	36,768,627	98,041,045	67,702,679	41,692,568	109,395,247	74,762,512	47,263,131	122,025,644
2032	61,914,037	37,183,621	99,097,658	68,812,930	42,460,968	111,273,899	76,431,820	48,476,738	124,908,558
2033	61,991,541	37,281,953	99,273,494	69,296,768	42,870,596	112,167,364	77,411,105	49,289,146	126,700,251
2034	62,345,220	37,537,052	99,882,272	70,087,628	43,462,681	113,550,310	78,736,548	50,318,984	129,055,532
2035	62,695,147	37,792,157	100,487,304	70,874,550	44,059,247	114,933,797	80,062,853	51,364,420	131,427,273
2036	63,328,287	38,208,307	101,536,594	71,983,996	44,848,161	116,832,157	81,761,059	52,644,671	134,405,729

Annual Change

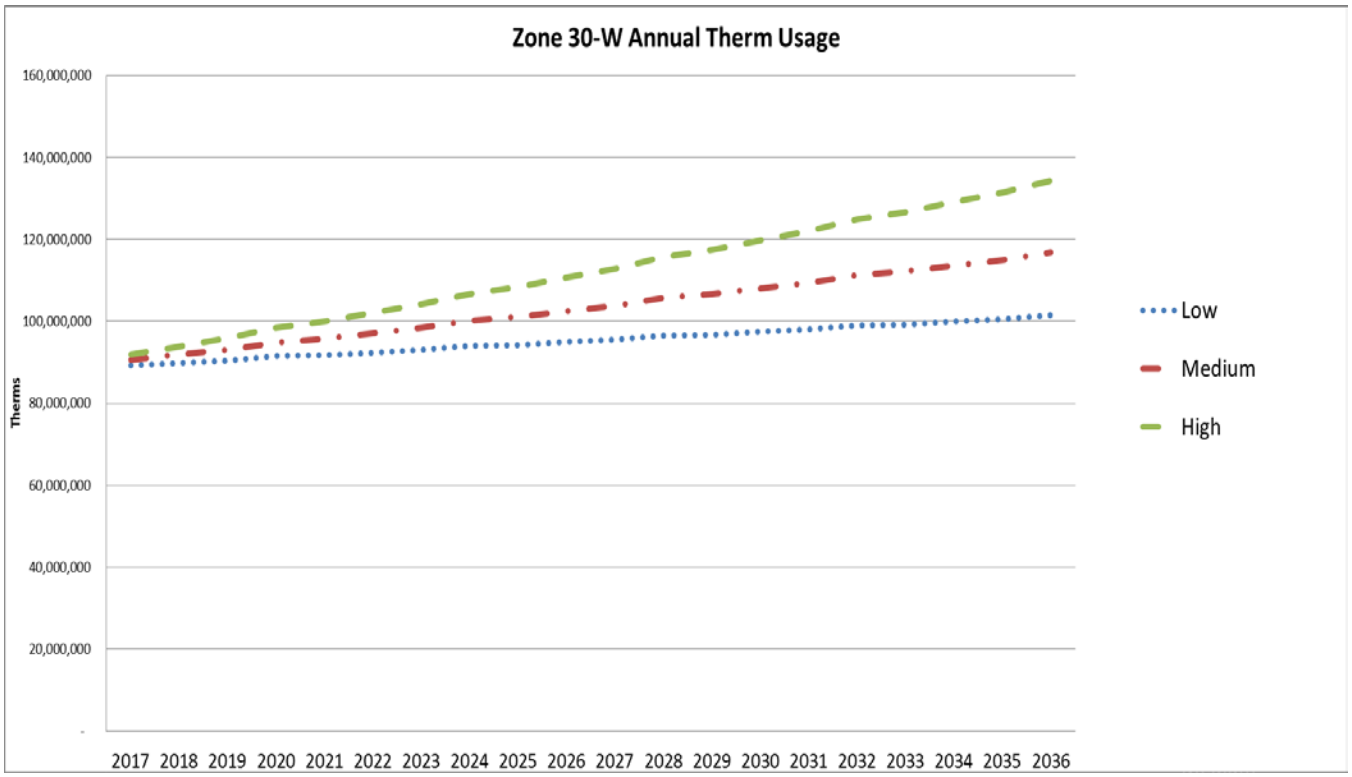
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.64%	0.87%	0.73%	1.28%	1.74%	1.45%	1.92%	2.61%	2.18%
2019	0.64%	0.84%	0.71%	1.28%	1.68%	1.43%	1.92%	2.52%	2.14%
2020	1.10%	1.24%	1.15%	1.74%	2.06%	1.86%	2.38%	2.88%	2.57%
2021	0.18%	0.37%	0.25%	0.82%	1.16%	0.95%	1.45%	1.96%	1.64%
2022	0.64%	0.78%	0.69%	1.27%	1.57%	1.38%	1.91%	2.36%	2.08%
2023	0.64%	0.77%	0.68%	1.27%	1.54%	1.37%	1.91%	2.32%	2.06%
2024	1.09%	1.19%	1.13%	1.73%	1.96%	1.82%	2.36%	2.73%	2.51%
2025	0.18%	0.32%	0.23%	0.80%	1.07%	0.91%	1.43%	1.83%	1.58%
2026	0.63%	0.74%	0.67%	1.25%	1.49%	1.34%	1.88%	2.25%	2.02%
2027	0.62%	0.73%	0.67%	1.25%	1.48%	1.33%	1.87%	2.23%	2.01%
2028	1.08%	1.16%	1.11%	1.70%	1.90%	1.77%	2.32%	2.64%	2.44%
2029	0.16%	0.29%	0.21%	0.77%	1.02%	0.87%	1.38%	1.76%	1.53%
2030	0.61%	0.71%	0.65%	1.22%	1.44%	1.30%	1.83%	2.17%	1.96%
2031	0.60%	0.71%	0.64%	1.20%	1.43%	1.29%	1.80%	2.15%	1.94%
2032	1.05%	1.13%	1.08%	1.64%	1.84%	1.72%	2.23%	2.57%	2.36%
2033	0.13%	0.26%	0.18%	0.70%	0.96%	0.80%	1.28%	1.68%	1.43%
2034	0.57%	0.68%	0.61%	1.14%	1.38%	1.23%	1.71%	2.09%	1.86%
2035	0.56%	0.68%	0.61%	1.12%	1.37%	1.22%	1.68%	2.08%	1.84%
2036	1.01%	1.10%	1.04%	1.57%	1.79%	1.65%	2.12%	2.49%	2.27%

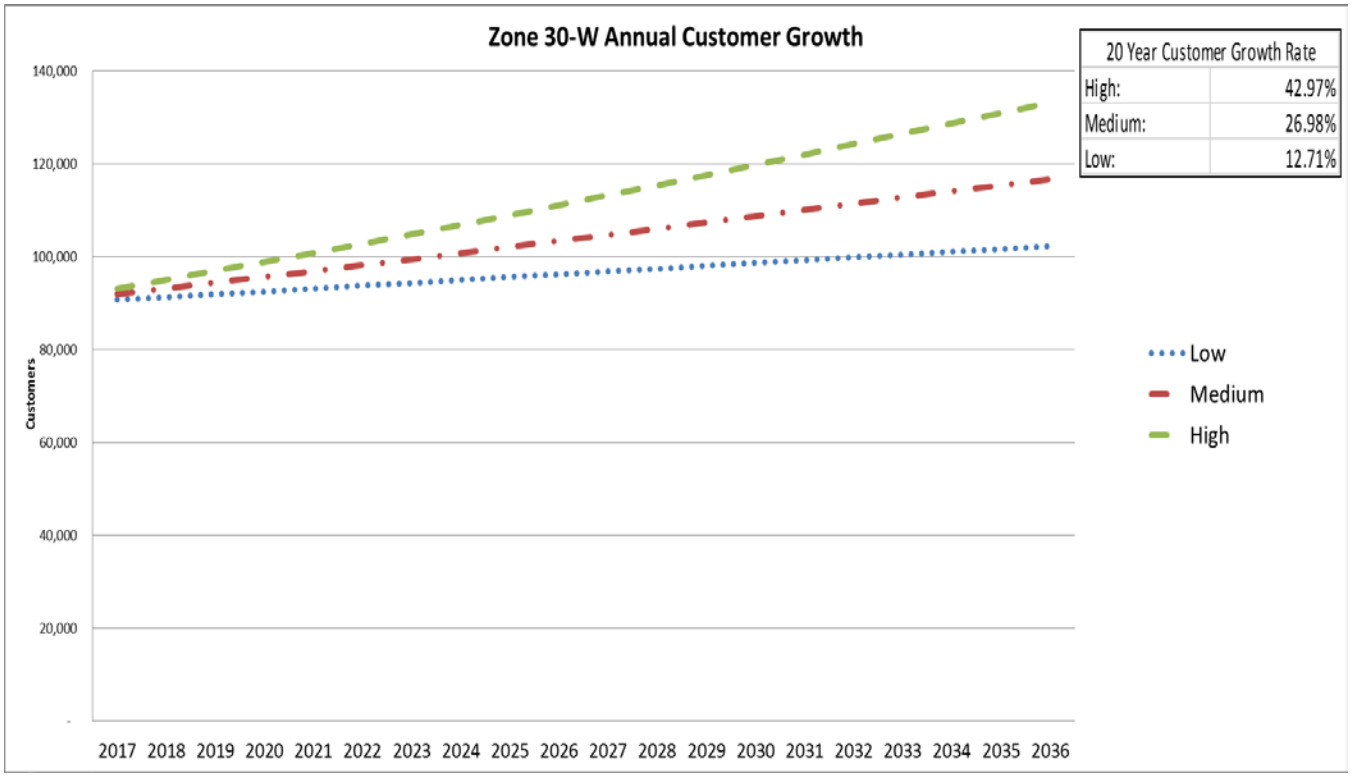
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	80,723	10,014	90,737	81,754	10,213	91,967	82,792	10,414	93,206
2018	81,240	10,105	91,345	82,801	10,399	93,200	84,382	10,698	95,080
2019	81,760	10,194	91,953	83,860	10,582	94,442	86,001	10,980	96,982
2020	82,282	10,281	92,562	84,931	10,762	95,694	87,649	11,262	98,911
2021	82,806	10,367	93,173	86,014	10,943	96,956	89,325	11,545	100,870
2022	83,333	10,453	93,785	87,108	11,124	98,232	91,030	11,831	102,861
2023	83,861	10,537	94,399	88,214	11,305	99,518	92,762	12,120	104,883
2024	84,392	10,623	95,015	89,330	11,487	100,817	94,524	12,414	106,938
2025	84,924	10,707	95,631	90,456	11,670	102,126	96,310	12,711	109,021
2026	85,456	10,791	96,247	91,589	11,854	103,443	98,121	13,012	111,132
2027	85,988	10,876	96,863	92,730	12,039	104,769	99,954	13,317	113,271
2028	86,519	10,960	97,479	93,876	12,226	106,102	101,808	13,627	115,435
2029	87,051	11,044	98,094	95,029	12,414	107,443	103,684	13,942	117,626
2030	87,581	11,128	98,709	96,188	12,602	108,791	105,581	14,260	119,841
2031	88,106	11,211	99,318	97,341	12,792	110,134	107,479	14,583	122,063
2032	88,625	11,295	99,920	98,488	12,983	111,472	109,380	14,910	124,290
2033	89,139	11,378	100,517	99,630	13,175	112,805	111,282	15,241	126,523
2034	89,647	11,461	101,108	100,766	13,367	114,133	113,185	15,575	128,761
2035	90,149	11,544	101,693	101,896	13,561	115,457	115,089	15,915	131,004
2036	90,647	11,626	102,273	103,021	13,756	116,777	116,996	16,258	133,254

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.64%	0.91%	0.67%	1.28%	1.82%	1.34%	1.92%	2.73%	2.01%
2019	0.64%	0.88%	0.67%	1.28%	1.76%	1.33%	1.92%	2.64%	2.00%
2020	0.64%	0.85%	0.66%	1.28%	1.71%	1.33%	1.92%	2.56%	1.99%
2021	0.64%	0.84%	0.66%	1.27%	1.68%	1.32%	1.91%	2.51%	1.98%
2022	0.64%	0.83%	0.66%	1.27%	1.65%	1.32%	1.91%	2.48%	1.97%
2023	0.63%	0.81%	0.65%	1.27%	1.63%	1.31%	1.90%	2.44%	1.97%
2024	0.63%	0.81%	0.65%	1.27%	1.61%	1.31%	1.90%	2.42%	1.96%
2025	0.63%	0.80%	0.65%	1.26%	1.59%	1.30%	1.89%	2.39%	1.95%
2026	0.63%	0.79%	0.64%	1.25%	1.58%	1.29%	1.88%	2.37%	1.94%
2027	0.62%	0.78%	0.64%	1.25%	1.56%	1.28%	1.87%	2.35%	1.92%
2028	0.62%	0.77%	0.64%	1.24%	1.55%	1.27%	1.85%	2.33%	1.91%
2029	0.61%	0.77%	0.63%	1.23%	1.54%	1.26%	1.84%	2.31%	1.90%
2030	0.61%	0.76%	0.63%	1.22%	1.52%	1.25%	1.83%	2.28%	1.88%
2031	0.60%	0.75%	0.62%	1.20%	1.51%	1.23%	1.80%	2.27%	1.85%
2032	0.59%	0.74%	0.61%	1.18%	1.49%	1.21%	1.77%	2.24%	1.82%
2033	0.58%	0.74%	0.60%	1.16%	1.48%	1.20%	1.74%	2.22%	1.80%
2034	0.57%	0.73%	0.59%	1.14%	1.46%	1.18%	1.71%	2.19%	1.77%
2035	0.56%	0.72%	0.58%	1.12%	1.45%	1.16%	1.68%	2.18%	1.74%
2036	0.55%	0.72%	0.57%	1.10%	1.43%	1.14%	1.66%	2.16%	1.72%





20 Year Customer Growth Rate	
High:	42.97%
Medium:	26.98%
Low:	12.71%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Zone GTN

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	40,747,080	12,660,324	53,407,404	41,638,120	12,946,152	54,584,273	42,539,285	13,235,307	55,774,591
2018	41,177,795	12,797,192	53,974,987	42,519,344	13,226,334	55,745,678	43,891,158	13,665,364	57,556,521
2019	41,608,058	12,933,385	54,541,443	43,409,309	13,508,248	56,917,557	45,271,288	14,102,863	59,374,151
2020	42,278,529	13,069,254	55,347,783	44,562,295	13,792,602	58,354,897	46,948,563	14,548,987	61,497,550
2021	42,469,162	13,205,163	55,674,325	45,219,899	14,080,169	59,300,068	48,124,897	15,005,046	63,129,943
2022	42,901,696	13,341,383	56,243,079	46,144,201	14,371,518	60,515,718	49,605,021	15,472,075	65,077,095
2023	43,333,628	13,477,130	56,810,757	47,077,655	14,665,031	61,742,687	51,115,923	15,947,633	67,063,555
2024	44,017,052	13,613,114	57,630,166	48,298,282	14,962,162	63,260,444	52,964,363	16,434,115	69,398,477
2025	44,199,943	13,748,858	57,948,801	48,979,293	15,261,928	64,241,220	54,242,355	16,930,079	71,172,435
2026	44,633,366	13,884,540	58,517,906	49,946,052	15,564,700	65,510,752	55,856,667	17,436,216	73,292,883
2027	45,066,927	14,020,167	59,087,094	50,923,163	15,870,508	66,793,672	57,505,089	17,952,720	75,457,809
2028	45,761,557	14,155,951	59,917,508	52,209,444	16,179,795	68,389,239	59,529,857	18,480,400	78,010,257
2029	45,936,769	14,292,044	60,228,814	52,913,654	16,492,948	69,406,602	60,914,462	19,020,090	79,934,552
2030	46,372,158	14,428,008	60,800,166	53,925,508	16,809,019	70,734,527	62,674,008	19,570,344	82,244,353
2031	46,807,736	14,564,152	61,371,887	54,947,621	17,128,633	72,076,253	64,468,922	20,132,259	84,601,181
2032	47,512,364	14,699,938	62,212,302	56,298,066	17,450,599	73,748,665	66,675,587	20,703,914	87,379,501
2033	47,675,369	14,835,427	62,510,796	57,014,669	17,775,047	74,789,715	68,153,157	21,285,663	89,438,819
2034	48,108,044	14,970,788	63,078,832	58,060,707	18,102,358	76,163,065	70,044,911	21,878,252	91,923,163
2035	48,539,991	15,106,147	63,646,138	59,115,222	18,432,836	77,548,058	71,970,558	22,482,340	94,452,898
2036	49,252,069	15,241,343	64,493,412	60,524,423	18,766,071	79,290,494	74,356,710	23,097,267	97,453,976

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.06%	1.08%	1.06%	2.12%	2.16%	2.13%	3.18%	3.25%	3.19%
2019	1.04%	1.06%	1.05%	2.09%	2.13%	2.10%	3.14%	3.20%	3.16%
2020	1.61%	1.05%	1.48%	2.66%	2.11%	2.53%	3.70%	3.16%	3.58%
2021	0.45%	1.04%	0.59%	1.48%	2.08%	1.62%	2.51%	3.13%	2.65%
2022	1.02%	1.03%	1.02%	2.04%	2.07%	2.05%	3.08%	3.11%	3.08%
2023	1.01%	1.02%	1.01%	2.02%	2.04%	2.03%	3.05%	3.07%	3.05%
2024	1.58%	1.01%	1.44%	2.59%	2.03%	2.46%	3.62%	3.05%	3.48%
2025	0.42%	1.00%	0.55%	1.41%	2.00%	1.55%	2.41%	3.02%	2.56%
2026	0.98%	0.99%	0.98%	1.97%	1.98%	1.98%	2.98%	2.99%	2.98%
2027	0.97%	0.98%	0.97%	1.96%	1.96%	1.96%	2.95%	2.96%	2.95%
2028	1.54%	0.97%	1.41%	2.53%	1.95%	2.39%	3.52%	2.94%	3.38%
2029	0.38%	0.96%	0.52%	1.35%	1.94%	1.49%	2.33%	2.92%	2.47%
2030	0.95%	0.95%	0.95%	1.91%	1.92%	1.91%	2.89%	2.89%	2.89%
2031	0.94%	0.94%	0.94%	1.90%	1.90%	1.90%	2.86%	2.87%	2.87%
2032	1.51%	0.93%	1.37%	2.46%	1.88%	2.32%	3.42%	2.84%	3.28%
2033	0.34%	0.92%	0.48%	1.27%	1.86%	1.41%	2.22%	2.81%	2.36%
2034	0.91%	0.91%	0.91%	1.83%	1.84%	1.84%	2.78%	2.78%	2.78%
2035	0.90%	0.90%	0.90%	1.82%	1.83%	1.82%	2.75%	2.76%	2.75%
2036	1.47%	0.89%	1.33%	2.38%	1.81%	2.25%	3.32%	2.74%	3.18%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	34,686	630,086	664,771	35,469	643,827	679,296	36,261	657,724	693,985
2018	35,061	636,727	671,788	36,237	657,414	693,651	37,439	678,567	716,006
2019	35,434	643,361	678,794	37,009	671,135	708,144	38,638	699,844	738,481
2020	35,806	649,993	685,799	37,788	685,002	722,790	39,860	721,580	761,440
2021	36,179	656,634	692,813	38,576	699,042	737,618	41,110	743,824	784,934
2022	36,552	663,301	699,853	39,374	713,287	752,661	42,389	766,634	809,023
2023	36,924	669,958	706,881	40,178	727,672	767,850	43,692	789,914	833,606
2024	37,296	676,634	713,931	40,992	742,247	783,239	45,025	813,748	858,773
2025	37,668	683,309	720,977	41,814	756,975	798,788	46,384	838,085	884,469
2026	38,040	689,988	728,028	42,643	771,870	814,513	47,770	862,954	910,725
2027	38,411	696,669	735,081	43,481	786,926	830,407	49,186	888,349	937,535
2028	38,783	703,363	742,147	44,328	802,163	846,491	50,631	914,311	964,943
2029	39,156	710,074	749,230	45,186	817,593	862,779	52,110	940,869	992,979
2030	39,529	716,782	756,311	46,052	833,181	879,234	53,617	967,971	1,021,589
2031	39,902	723,494	763,396	46,928	848,928	895,856	55,157	995,619	1,050,776
2032	40,274	730,187	770,460	47,810	864,790	912,599	56,723	1,023,745	1,080,468
2033	40,645	736,863	777,508	48,699	880,771	929,470	58,317	1,052,364	1,110,681
2034	41,016	743,530	784,546	49,596	896,884	946,480	59,940	1,081,498	1,141,438
2035	41,387	750,185	791,572	50,501	913,128	963,629	61,595	1,111,154	1,172,749
2036	41,757	756,837	798,594	51,414	929,517	980,931	63,280	1,141,357	1,204,637

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.08%	1.05%	1.06%	2.16%	2.11%	2.11%	3.25%	3.17%	3.17%
2019	1.06%	1.04%	1.04%	2.13%	2.09%	2.09%	3.20%	3.14%	3.14%
2020	1.05%	1.03%	1.03%	2.11%	2.07%	2.07%	3.16%	3.11%	3.11%
2021	1.04%	1.02%	1.02%	2.08%	2.05%	2.05%	3.13%	3.08%	3.09%
2022	1.03%	1.02%	1.02%	2.07%	2.04%	2.04%	3.11%	3.07%	3.07%
2023	1.02%	1.00%	1.00%	2.04%	2.02%	2.02%	3.07%	3.04%	3.04%
2024	1.01%	1.00%	1.00%	2.03%	2.00%	2.00%	3.05%	3.02%	3.02%
2025	1.00%	0.99%	0.99%	2.00%	1.98%	1.99%	3.02%	2.99%	2.99%
2026	0.99%	0.98%	0.98%	1.98%	1.97%	1.97%	2.99%	2.97%	2.97%
2027	0.98%	0.97%	0.97%	1.96%	1.95%	1.95%	2.96%	2.94%	2.94%
2028	0.97%	0.96%	0.96%	1.95%	1.94%	1.94%	2.94%	2.92%	2.92%
2029	0.96%	0.95%	0.95%	1.94%	1.92%	1.92%	2.92%	2.90%	2.91%
2030	0.95%	0.94%	0.95%	1.92%	1.91%	1.91%	2.89%	2.88%	2.88%
2031	0.94%	0.94%	0.94%	1.90%	1.89%	1.89%	2.87%	2.86%	2.86%
2032	0.93%	0.92%	0.93%	1.88%	1.87%	1.87%	2.84%	2.82%	2.83%
2033	0.92%	0.91%	0.91%	1.86%	1.85%	1.85%	2.81%	2.80%	2.80%
2034	0.91%	0.90%	0.91%	1.84%	1.83%	1.83%	2.78%	2.77%	2.77%
2035	0.90%	0.90%	0.90%	1.83%	1.81%	1.81%	2.76%	2.74%	2.74%
2036	0.89%	0.89%	0.89%	1.81%	1.79%	1.80%	2.74%	2.72%	2.72%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	31,524,030	21,883,374	53,407,404	32,167,472	22,416,801	54,584,273	32,817,598	22,956,993	55,774,591
2018	31,846,339	22,128,648	53,974,987	32,825,624	22,920,054	55,745,678	33,825,340	23,731,181	57,556,521
2019	32,171,356	22,370,086	54,541,443	33,496,219	23,421,337	56,917,557	34,862,723	24,511,428	59,374,151
2020	32,645,098	22,702,685	55,347,783	34,332,690	24,022,207	58,354,897	36,091,297	25,406,252	61,497,550
2021	32,828,688	22,845,637	55,674,325	34,873,700	24,426,368	59,300,068	37,026,723	26,103,220	63,129,943
2022	33,161,073	23,082,006	56,243,079	35,581,057	24,934,661	60,515,718	38,155,046	26,922,050	65,077,095
2023	33,495,600	23,315,157	56,810,757	36,300,324	25,442,363	61,742,687	39,314,102	27,749,454	67,063,555
2024	33,984,920	23,645,246	57,630,166	37,199,090	26,061,354	63,260,444	40,688,132	28,710,345	69,398,477
2025	34,171,434	23,777,367	57,948,801	37,775,945	26,465,275	64,241,220	41,728,539	29,443,895	71,172,435
2026	34,512,072	24,005,834	58,517,906	38,531,123	26,979,629	65,510,752	42,982,960	30,309,923	73,292,883
2027	34,854,143	24,232,951	59,087,094	39,297,209	27,496,463	66,793,672	44,268,356	31,189,453	75,457,809
2028	35,356,072	24,561,435	59,917,508	40,254,620	28,134,619	68,389,239	45,790,366	32,219,892	78,010,257
2029	35,542,450	24,686,364	60,228,814	40,862,169	28,544,433	69,406,602	46,933,861	33,000,691	79,934,552
2030	35,888,676	24,911,490	60,800,166	41,661,237	29,073,291	70,734,527	48,315,187	33,929,166	82,244,353
2031	36,234,030	25,137,857	61,371,887	42,466,252	29,610,001	72,076,253	49,720,578	34,880,603	84,601,181
2032	36,743,119	25,469,183	62,212,302	43,471,836	30,276,829	73,748,665	51,380,127	35,999,375	87,379,501
2033	36,922,126	25,588,670	62,510,796	44,093,956	30,695,759	74,789,715	52,604,028	36,834,791	89,438,819
2034	37,264,967	25,813,865	63,078,832	44,916,788	31,246,278	76,163,065	54,082,719	37,840,444	91,923,163
2035	37,606,961	26,039,177	63,646,138	45,745,427	31,802,631	77,548,058	55,585,964	38,866,934	94,452,898
2036	38,119,133	26,374,279	64,493,412	46,789,987	32,500,507	79,290,494	57,371,836	40,082,141	97,453,976

Annual Change

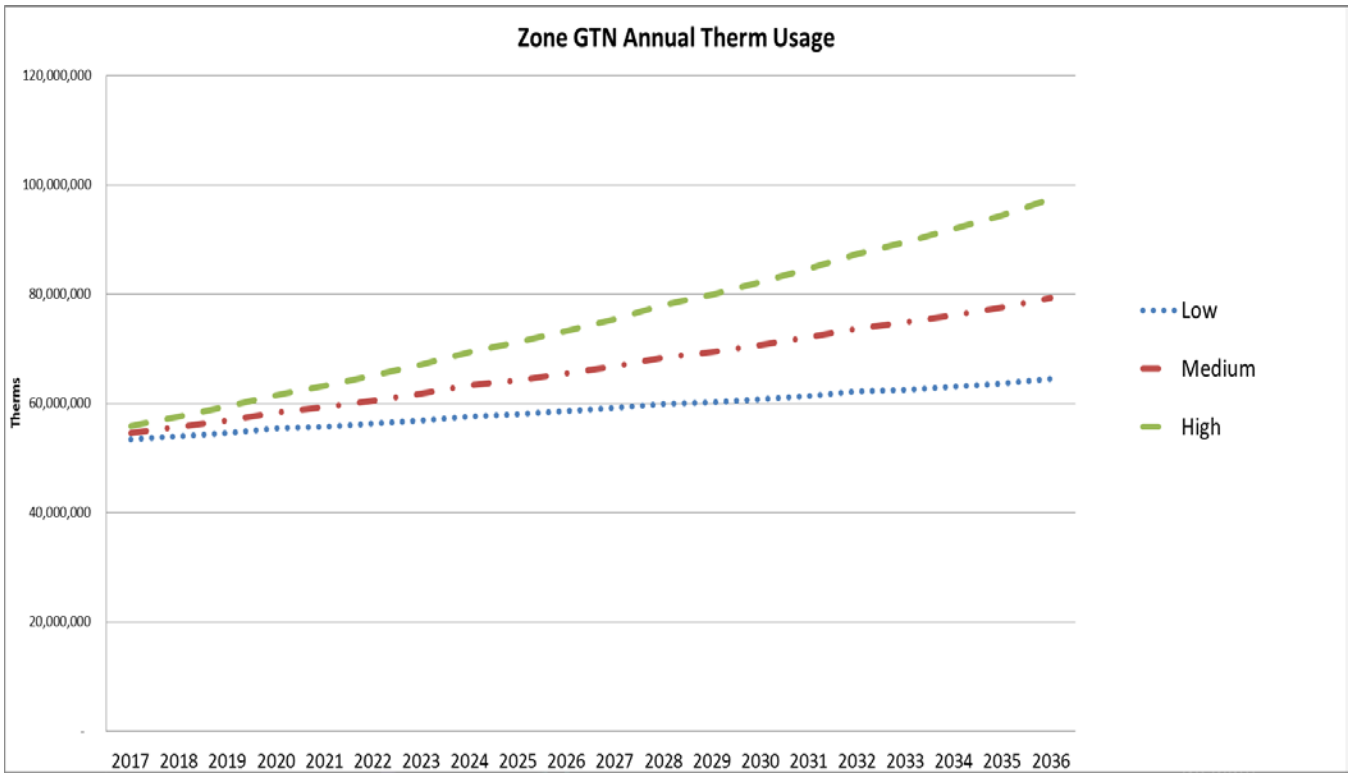
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.02%	1.12%	1.06%	2.05%	2.24%	2.13%	3.07%	3.37%	3.19%
2019	1.02%	1.09%	1.05%	2.04%	2.19%	2.10%	3.07%	3.29%	3.16%
2020	1.47%	1.49%	1.48%	2.50%	2.57%	2.53%	3.52%	3.65%	3.58%
2021	0.56%	0.63%	0.59%	1.58%	1.68%	1.62%	2.59%	2.74%	2.65%
2022	1.01%	1.03%	1.02%	2.03%	2.08%	2.05%	3.05%	3.14%	3.08%
2023	1.01%	1.01%	1.01%	2.02%	2.04%	2.03%	3.04%	3.07%	3.05%
2024	1.46%	1.42%	1.44%	2.48%	2.43%	2.46%	3.50%	3.46%	3.48%
2025	0.55%	0.56%	0.55%	1.55%	1.55%	1.55%	2.56%	2.56%	2.56%
2026	1.00%	0.96%	0.98%	2.00%	1.94%	1.98%	3.01%	2.94%	2.98%
2027	0.99%	0.95%	0.97%	1.99%	1.92%	1.96%	2.99%	2.90%	2.95%
2028	1.44%	1.36%	1.41%	2.44%	2.32%	2.39%	3.44%	3.30%	3.38%
2029	0.53%	0.51%	0.52%	1.51%	1.46%	1.49%	2.50%	2.42%	2.47%
2030	0.97%	0.91%	0.95%	1.96%	1.85%	1.91%	2.94%	2.81%	2.89%
2031	0.96%	0.91%	0.94%	1.93%	1.85%	1.90%	2.91%	2.80%	2.87%
2032	1.41%	1.32%	1.37%	2.37%	2.25%	2.32%	3.34%	3.21%	3.28%
2033	0.49%	0.47%	0.48%	1.43%	1.38%	1.41%	2.38%	2.32%	2.36%
2034	0.93%	0.88%	0.91%	1.87%	1.79%	1.84%	2.81%	2.73%	2.78%
2035	0.92%	0.87%	0.90%	1.84%	1.78%	1.82%	2.78%	2.71%	2.75%
2036	1.36%	1.29%	1.33%	2.28%	2.19%	2.25%	3.21%	3.13%	3.18%

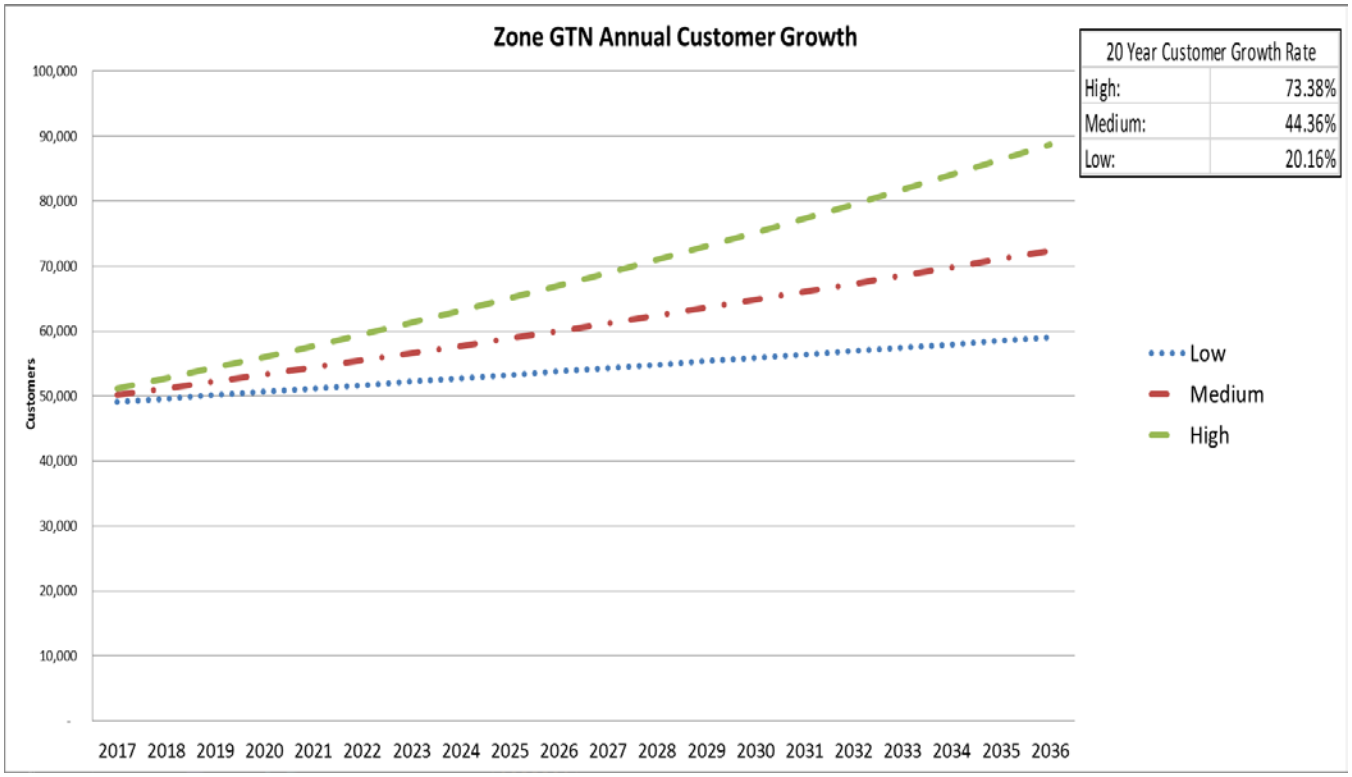
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	42,406	6,732	49,138	43,253	6,905	50,158	44,108	7,081	51,189
2018	42,830	6,812	49,642	44,119	7,070	51,189	45,434	7,334	52,768
2019	43,258	6,891	50,149	45,001	7,235	52,235	46,798	7,591	54,389
2020	43,688	6,970	50,658	45,898	7,400	53,298	48,201	7,852	56,053
2021	44,122	7,048	51,171	46,812	7,567	54,379	49,643	8,118	57,761
2022	44,559	7,127	51,686	47,742	7,736	55,478	51,126	8,390	59,516
2023	44,999	7,204	52,204	48,688	7,905	56,592	52,649	8,666	61,315
2024	45,443	7,282	52,724	49,650	8,075	57,725	54,214	8,947	63,161
2025	45,888	7,359	53,247	50,627	8,246	58,873	55,820	9,233	65,052
2026	46,336	7,435	53,771	51,619	8,419	60,037	57,467	9,523	66,990
2027	46,785	7,511	54,297	52,625	8,592	61,217	59,153	9,818	68,972
2028	47,237	7,588	54,824	53,645	8,767	62,412	60,881	10,120	71,001
2029	47,690	7,664	55,353	54,679	8,944	63,623	62,650	10,428	73,078
2030	48,144	7,740	55,884	55,728	9,122	64,850	64,462	10,741	75,203
2031	48,598	7,816	56,414	56,784	9,303	66,087	66,304	11,062	77,366
2032	49,050	7,892	56,942	57,847	9,485	67,332	68,177	11,389	79,566
2033	49,501	7,968	57,469	58,918	9,669	68,587	70,081	11,722	81,804
2034	49,951	8,044	57,994	59,997	9,854	69,851	72,018	12,063	84,080
2035	50,399	8,120	58,519	61,082	10,042	71,125	73,986	12,410	86,396
2036	50,847	8,196	59,042	62,176	10,232	72,408	75,986	12,765	88,751

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.00%	1.19%	1.03%	2.00%	2.39%	2.06%	3.01%	3.58%	3.09%
2019	1.00%	1.16%	1.02%	2.00%	2.33%	2.04%	3.00%	3.49%	3.07%
2020	1.00%	1.14%	1.02%	2.00%	2.29%	2.04%	3.00%	3.44%	3.06%
2021	0.99%	1.12%	1.01%	1.99%	2.25%	2.03%	2.99%	3.39%	3.05%
2022	0.99%	1.11%	1.01%	1.99%	2.23%	2.02%	2.99%	3.35%	3.04%
2023	0.99%	1.09%	1.00%	1.98%	2.19%	2.01%	2.98%	3.29%	3.02%
2024	0.98%	1.07%	1.00%	1.98%	2.15%	2.00%	2.97%	3.24%	3.01%
2025	0.98%	1.06%	0.99%	1.97%	2.12%	1.99%	2.96%	3.19%	2.99%
2026	0.98%	1.04%	0.98%	1.96%	2.09%	1.98%	2.95%	3.15%	2.98%
2027	0.97%	1.02%	0.98%	1.95%	2.06%	1.96%	2.94%	3.10%	2.96%
2028	0.96%	1.01%	0.97%	1.94%	2.04%	1.95%	2.92%	3.07%	2.94%
2029	0.96%	1.00%	0.97%	1.93%	2.02%	1.94%	2.91%	3.05%	2.93%
2030	0.95%	0.99%	0.96%	1.92%	1.99%	1.93%	2.89%	3.00%	2.91%
2031	0.94%	0.98%	0.95%	1.90%	1.98%	1.91%	2.86%	2.99%	2.88%
2032	0.93%	0.97%	0.94%	1.87%	1.96%	1.88%	2.82%	2.96%	2.84%
2033	0.92%	0.96%	0.93%	1.85%	1.94%	1.86%	2.79%	2.93%	2.81%
2034	0.91%	0.95%	0.91%	1.83%	1.92%	1.84%	2.76%	2.90%	2.78%
2035	0.90%	0.95%	0.90%	1.81%	1.91%	1.82%	2.73%	2.88%	2.75%
2036	0.89%	0.94%	0.89%	1.79%	1.89%	1.80%	2.70%	2.86%	2.73%





20 Year Customer Growth Rate	
High:	73.38%
Medium:	44.36%
Low:	20.16%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Zone ME-OR

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	8,816,140	3,516,839	12,332,979	8,919,594	3,563,728	12,483,322	9,023,763	3,610,974	12,634,737
2018	8,864,226	3,538,299	12,402,525	9,017,094	3,607,302	12,624,396	9,172,021	3,677,325	12,849,346
2019	8,911,187	3,559,262	12,470,449	9,112,910	3,650,162	12,763,072	9,318,629	3,743,036	13,061,664
2020	9,002,744	3,579,735	12,582,479	9,254,130	3,692,299	12,946,429	9,512,050	3,808,068	13,320,118
2021	9,002,241	3,599,943	12,602,184	9,300,376	3,734,162	13,034,539	9,608,073	3,873,100	13,481,173
2022	9,047,245	3,619,989	12,667,234	9,393,855	3,775,956	13,169,811	9,753,680	3,938,441	13,692,122
2023	9,091,026	3,639,610	12,730,636	9,485,320	3,817,120	13,302,441	9,896,977	4,003,200	13,900,177
2024	9,181,591	3,659,150	12,840,742	9,626,655	3,858,370	13,485,026	10,093,966	4,068,498	14,162,464
2025	9,178,094	3,678,557	12,856,651	9,668,774	3,899,591	13,568,365	10,186,862	4,134,154	14,321,016
2026	9,220,771	3,697,674	12,918,445	9,759,584	3,940,450	13,700,034	10,331,641	4,199,632	14,531,272
2027	9,263,148	3,716,772	12,979,920	9,850,395	3,981,521	13,831,916	10,477,311	4,265,851	14,743,161
2028	9,351,950	3,735,402	13,087,352	9,990,534	4,021,836	14,012,370	10,675,925	4,331,242	15,007,167
2029	9,345,595	3,754,061	13,099,656	10,029,048	4,062,452	14,091,500	10,766,520	4,397,513	15,164,033
2030	9,385,913	3,772,440	13,158,352	10,117,141	4,102,687	14,219,828	10,910,312	4,463,540	15,373,851
2031	9,425,734	3,790,595	13,216,329	10,204,903	4,142,685	14,347,588	11,054,496	4,529,580	15,584,076
2032	9,513,009	3,808,395	13,321,404	10,343,947	4,182,129	14,526,076	11,254,671	4,595,085	15,849,755
2033	9,502,838	3,825,986	13,328,823	10,376,423	4,221,343	14,597,766	11,338,740	4,660,593	15,999,333
2034	9,539,675	3,843,039	13,382,714	10,459,271	4,259,580	14,718,851	11,477,277	4,724,833	16,202,110
2035	9,575,612	3,859,847	13,435,459	10,540,565	4,297,478	14,838,044	11,613,979	4,788,861	16,402,840
2036	9,660,805	3,876,494	13,537,299	10,677,098	4,335,245	15,012,343	11,813,172	4,853,034	16,666,206

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.55%	0.61%	0.56%	1.09%	1.22%	1.13%	1.64%	1.84%	1.70%
2019	0.53%	0.59%	0.55%	1.06%	1.19%	1.10%	1.60%	1.79%	1.65%
2020	1.03%	0.58%	0.90%	1.55%	1.15%	1.44%	2.08%	1.74%	1.98%
2021	-0.01%	0.56%	0.16%	0.50%	1.13%	0.68%	1.01%	1.71%	1.21%
2022	0.50%	0.56%	0.52%	1.01%	1.12%	1.04%	1.52%	1.69%	1.56%
2023	0.48%	0.54%	0.50%	0.97%	1.09%	1.01%	1.47%	1.64%	1.52%
2024	1.00%	0.54%	0.86%	1.49%	1.08%	1.37%	1.99%	1.63%	1.89%
2025	-0.04%	0.53%	0.12%	0.44%	1.07%	0.62%	0.92%	1.61%	1.12%
2026	0.46%	0.52%	0.48%	0.94%	1.05%	0.97%	1.42%	1.58%	1.47%
2027	0.46%	0.52%	0.48%	0.93%	1.04%	0.96%	1.41%	1.58%	1.46%
2028	0.96%	0.50%	0.83%	1.42%	1.01%	1.30%	1.90%	1.53%	1.79%
2029	-0.07%	0.50%	0.09%	0.39%	1.01%	0.56%	0.85%	1.53%	1.05%
2030	0.43%	0.49%	0.45%	0.88%	0.99%	0.91%	1.34%	1.50%	1.38%
2031	0.42%	0.48%	0.44%	0.87%	0.97%	0.90%	1.32%	1.48%	1.37%
2032	0.93%	0.47%	0.80%	1.36%	0.95%	1.24%	1.81%	1.45%	1.70%
2033	-0.11%	0.46%	0.06%	0.31%	0.94%	0.49%	0.75%	1.43%	0.94%
2034	0.39%	0.45%	0.40%	0.80%	0.91%	0.83%	1.22%	1.38%	1.27%
2035	0.38%	0.44%	0.39%	0.78%	0.89%	0.81%	1.19%	1.36%	1.24%
2036	0.89%	0.43%	0.76%	1.30%	0.88%	1.17%	1.72%	1.34%	1.61%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	9,635	174,618	184,253	9,764	176,580	186,344	9,893	178,556	188,449
2018	9,694	175,534	185,228	9,883	178,438	188,321	10,075	181,380	191,455
2019	9,751	176,432	186,183	10,000	180,268	190,268	10,255	184,179	194,434
2020	9,807	177,310	187,117	10,116	182,069	192,185	10,433	186,950	197,383
2021	9,863	178,176	188,039	10,231	183,857	194,088	10,611	189,717	200,328
2022	9,918	179,038	188,956	10,345	185,647	195,992	10,790	192,503	203,293
2023	9,972	179,879	189,851	10,458	187,402	197,860	10,968	195,250	206,217
2024	10,025	180,721	190,746	10,571	189,168	199,739	11,147	198,029	209,175
2025	10,078	181,551	191,629	10,684	190,919	201,603	11,326	200,801	212,128
2026	10,131	182,369	192,500	10,796	192,659	203,455	11,506	203,571	215,076
2027	10,183	183,182	193,365	10,908	194,398	205,306	11,687	206,355	218,043
2028	10,234	183,972	194,206	11,019	196,102	207,121	11,866	209,102	220,969
2029	10,285	184,764	195,049	11,130	197,818	208,948	12,048	211,883	223,931
2030	10,335	185,538	195,873	11,240	199,506	210,746	12,229	214,632	226,861
2031	10,385	186,300	196,685	11,350	201,181	212,531	12,410	217,378	229,788
2032	10,434	187,040	197,474	11,458	202,818	214,276	12,589	220,077	232,667
2033	10,482	187,773	198,255	11,565	204,448	216,014	12,769	222,781	235,550
2034	10,529	188,476	199,005	11,670	206,025	217,695	12,945	225,411	238,355
2035	10,575	189,163	199,738	11,774	207,572	219,346	13,120	228,006	241,126
2036	10,621	189,842	200,463	11,877	209,113	220,990	13,296	230,603	243,899

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.61%	0.52%	0.53%	1.22%	1.05%	1.06%	1.84%	1.58%	1.60%
2019	0.59%	0.51%	0.52%	1.19%	1.03%	1.03%	1.79%	1.54%	1.56%
2020	0.58%	0.50%	0.50%	1.15%	1.00%	1.01%	1.74%	1.50%	1.52%
2021	0.56%	0.49%	0.49%	1.13%	0.98%	0.99%	1.71%	1.48%	1.49%
2022	0.56%	0.48%	0.49%	1.12%	0.97%	0.98%	1.69%	1.47%	1.48%
2023	0.54%	0.47%	0.47%	1.09%	0.95%	0.95%	1.64%	1.43%	1.44%
2024	0.54%	0.47%	0.47%	1.08%	0.94%	0.95%	1.63%	1.42%	1.43%
2025	0.53%	0.46%	0.46%	1.07%	0.93%	0.93%	1.61%	1.40%	1.41%
2026	0.52%	0.45%	0.45%	1.05%	0.91%	0.92%	1.58%	1.38%	1.39%
2027	0.52%	0.45%	0.45%	1.04%	0.90%	0.91%	1.58%	1.37%	1.38%
2028	0.50%	0.43%	0.44%	1.01%	0.88%	0.88%	1.53%	1.33%	1.34%
2029	0.50%	0.43%	0.43%	1.01%	0.88%	0.88%	1.53%	1.33%	1.34%
2030	0.49%	0.42%	0.42%	0.99%	0.85%	0.86%	1.50%	1.30%	1.31%
2031	0.48%	0.41%	0.41%	0.97%	0.84%	0.85%	1.48%	1.28%	1.29%
2032	0.47%	0.40%	0.40%	0.95%	0.81%	0.82%	1.45%	1.24%	1.25%
2033	0.46%	0.39%	0.40%	0.94%	0.80%	0.81%	1.43%	1.23%	1.24%
2034	0.45%	0.37%	0.38%	0.91%	0.77%	0.78%	1.38%	1.18%	1.19%
2035	0.44%	0.36%	0.37%	0.89%	0.75%	0.76%	1.36%	1.15%	1.16%
2036	0.43%	0.36%	0.36%	0.88%	0.74%	0.75%	1.34%	1.14%	1.15%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	4,800,846	7,532,133	12,332,979	4,830,844	7,652,477	12,483,322	4,860,937	7,773,801	12,634,737
2018	4,815,821	7,586,704	12,402,525	4,860,982	7,763,414	12,624,396	4,906,425	7,942,921	12,849,346
2019	4,830,841	7,639,608	12,470,449	4,891,304	7,871,768	12,763,072	4,952,333	8,109,331	13,061,664
2020	4,861,252	7,721,227	12,582,479	4,937,337	8,009,092	12,946,429	5,014,372	8,305,746	13,320,118
2021	4,860,804	7,741,380	12,602,184	4,952,074	8,082,465	13,034,539	5,044,767	8,436,405	13,481,173
2022	4,875,778	7,791,456	12,667,234	4,982,583	8,187,228	13,169,811	5,091,388	8,600,734	13,692,122
2023	4,890,705	7,839,931	12,730,636	5,013,092	8,289,348	13,302,441	5,138,151	8,762,026	13,900,177
2024	4,921,212	7,919,529	12,840,742	5,059,697	8,425,329	13,485,026	5,201,635	8,960,830	14,162,464
2025	4,920,425	7,936,226	12,856,651	5,074,111	8,494,254	13,568,365	5,232,104	9,088,912	14,321,016
2026	4,935,068	7,983,377	12,918,445	5,104,313	8,595,721	13,700,034	5,278,818	9,252,454	14,531,272
2027	4,949,578	8,030,341	12,979,920	5,134,328	8,697,588	13,831,916	5,325,380	9,417,782	14,743,161
2028	4,979,706	8,107,645	13,087,352	5,180,511	8,831,859	14,012,370	5,388,767	9,618,399	15,007,167
2029	4,978,114	8,121,542	13,099,656	5,193,615	8,897,885	14,091,500	5,417,752	9,746,281	15,164,033
2030	4,992,085	8,166,267	13,158,352	5,222,767	8,997,061	14,219,828	5,463,367	9,910,484	15,373,851
2031	5,005,632	8,210,698	13,216,329	5,251,112	9,096,476	14,347,588	5,507,843	10,076,234	15,584,076
2032	5,034,625	8,286,779	13,321,404	5,295,248	9,230,828	14,526,076	5,568,530	10,281,226	15,849,755
2033	5,031,263	8,297,560	13,328,823	5,304,958	9,292,808	14,597,766	5,592,668	10,406,665	15,999,333
2034	5,043,414	8,339,299	13,382,714	5,330,582	9,388,269	14,718,851	5,633,189	10,568,921	16,202,110
2035	5,055,125	8,380,334	13,435,459	5,355,337	9,482,707	14,838,044	5,672,430	10,730,411	16,402,840
2036	5,082,537	8,454,762	13,537,299	5,396,392	9,615,950	15,012,343	5,728,642	10,937,564	16,666,206

Annual Change

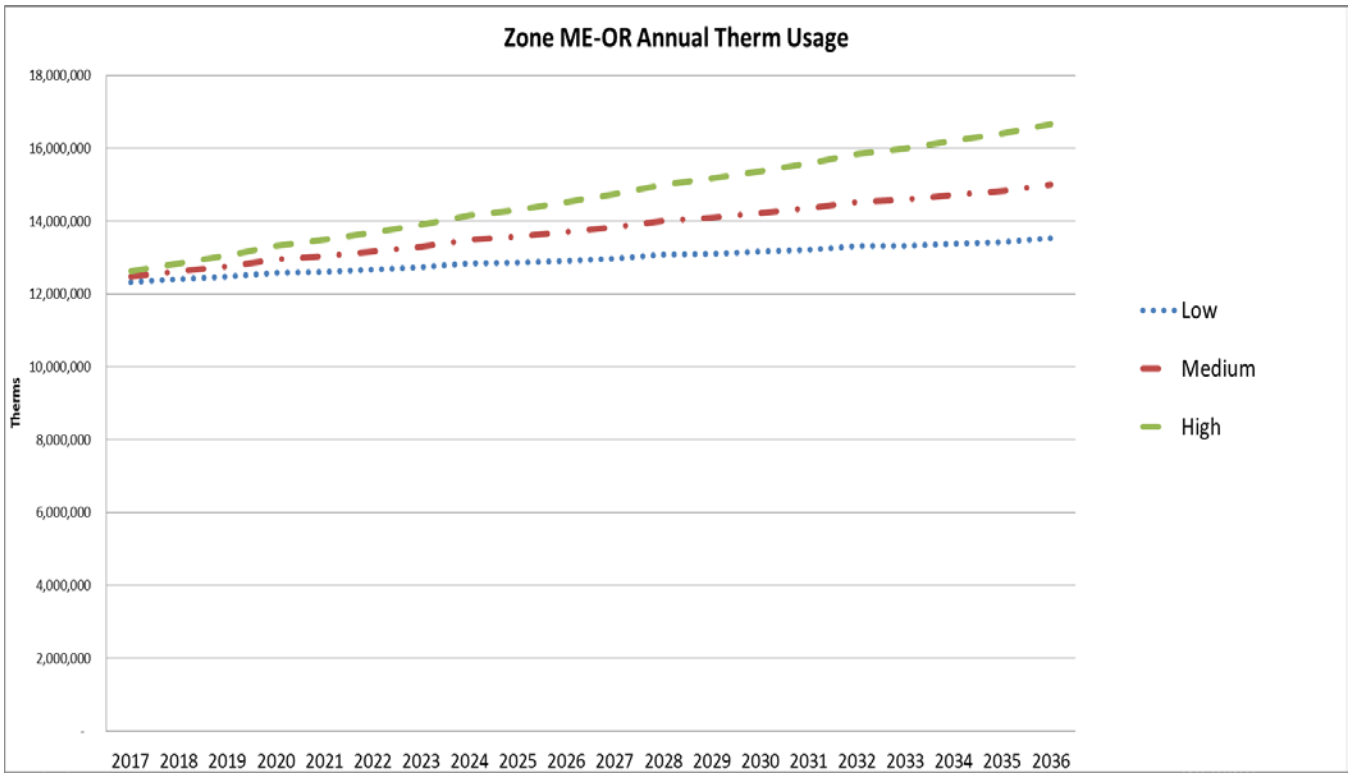
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.72%	0.56%	0.62%	1.45%	1.13%	0.94%	2.18%	1.70%
2019	0.31%	0.70%	0.55%	0.62%	1.40%	1.10%	0.94%	2.10%	1.65%
2020	0.63%	1.07%	0.90%	0.94%	1.74%	1.44%	1.25%	2.42%	1.98%
2021	-0.01%	0.26%	0.16%	0.30%	0.92%	0.68%	0.61%	1.57%	1.21%
2022	0.31%	0.65%	0.52%	0.62%	1.30%	1.04%	0.92%	1.95%	1.56%
2023	0.31%	0.62%	0.50%	0.61%	1.25%	1.01%	0.92%	1.88%	1.52%
2024	0.62%	1.02%	0.86%	0.93%	1.64%	1.37%	1.24%	2.27%	1.89%
2025	-0.02%	0.21%	0.12%	0.28%	0.82%	0.62%	0.59%	1.43%	1.12%
2026	0.30%	0.59%	0.48%	0.60%	1.19%	0.97%	0.89%	1.80%	1.47%
2027	0.29%	0.59%	0.48%	0.59%	1.19%	0.96%	0.88%	1.79%	1.46%
2028	0.61%	0.96%	0.83%	0.90%	1.54%	1.30%	1.19%	2.13%	1.79%
2029	-0.03%	0.17%	0.09%	0.25%	0.75%	0.56%	0.54%	1.33%	1.05%
2030	0.28%	0.55%	0.45%	0.56%	1.11%	0.91%	0.84%	1.68%	1.38%
2031	0.27%	0.54%	0.44%	0.54%	1.10%	0.90%	0.81%	1.67%	1.37%
2032	0.58%	0.93%	0.80%	0.84%	1.48%	1.24%	1.10%	2.03%	1.70%
2033	-0.07%	0.13%	0.06%	0.18%	0.67%	0.49%	0.43%	1.22%	0.94%
2034	0.24%	0.50%	0.40%	0.48%	1.03%	0.83%	0.72%	1.56%	1.27%
2035	0.23%	0.49%	0.39%	0.46%	1.01%	0.81%	0.70%	1.53%	1.24%
2036	0.54%	0.89%	0.76%	0.77%	1.41%	1.17%	0.99%	1.93%	1.61%

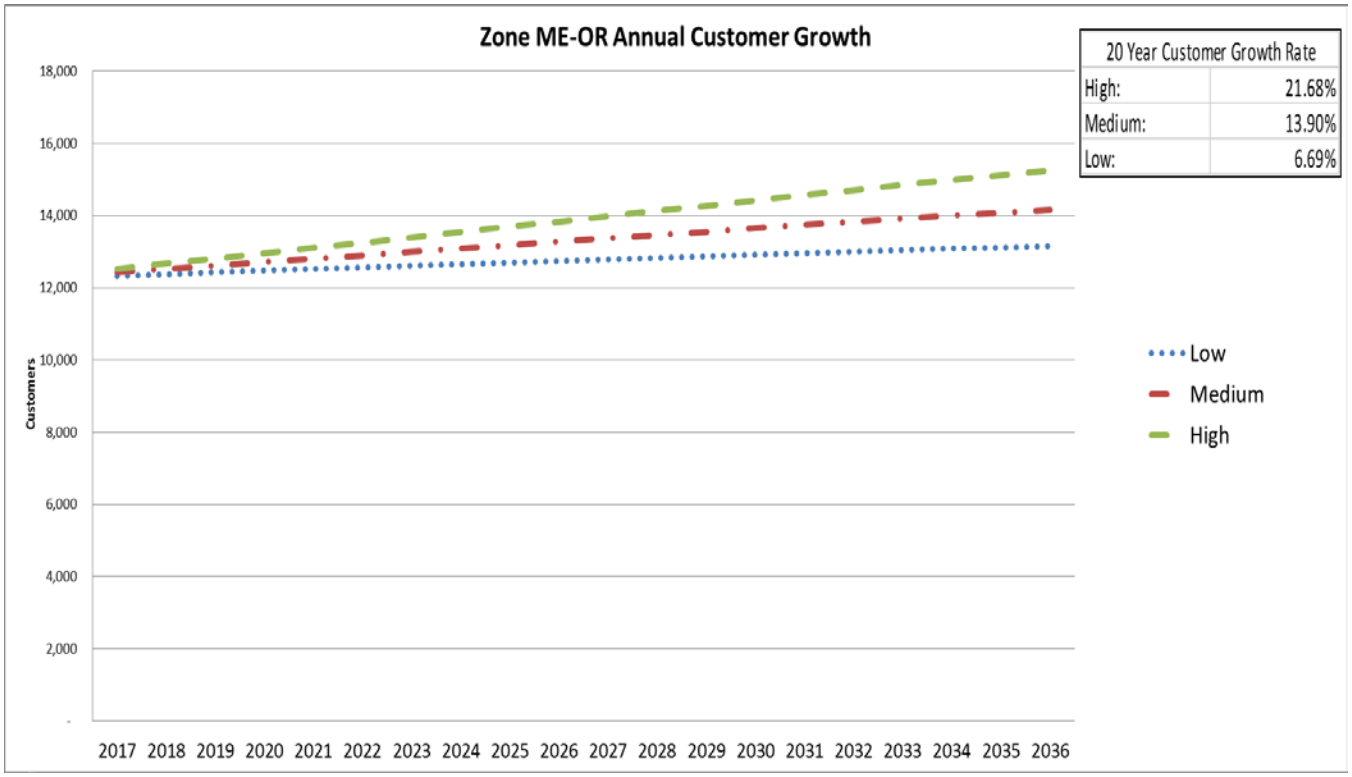
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	10,461	1,872	12,333	10,526	1,903	12,430	10,592	1,935	12,527
2018	10,494	1,886	12,380	10,592	1,933	12,525	10,691	1,980	12,671
2019	10,526	1,900	12,427	10,658	1,961	12,620	10,791	2,024	12,815
2020	10,559	1,914	12,473	10,724	1,990	12,714	10,892	2,068	12,960
2021	10,592	1,927	12,519	10,791	2,018	12,808	10,993	2,112	13,105
2022	10,624	1,941	12,565	10,857	2,046	12,903	11,094	2,156	13,250
2023	10,657	1,954	12,611	10,924	2,074	12,997	11,196	2,200	13,396
2024	10,689	1,967	12,657	10,990	2,102	13,092	11,299	2,245	13,543
2025	10,722	1,980	12,702	11,057	2,130	13,187	11,401	2,290	13,691
2026	10,754	1,993	12,747	11,122	2,158	13,280	11,503	2,335	13,838
2027	10,785	2,006	12,791	11,188	2,186	13,374	11,604	2,381	13,985
2028	10,816	2,019	12,835	11,253	2,214	13,467	11,705	2,426	14,131
2029	10,847	2,032	12,879	11,317	2,242	13,559	11,806	2,473	14,278
2030	10,878	2,044	12,922	11,381	2,270	13,651	11,905	2,519	14,424
2031	10,907	2,057	12,964	11,442	2,298	13,740	12,002	2,566	14,568
2032	10,936	2,069	13,005	11,502	2,326	13,828	12,096	2,612	14,708
2033	10,963	2,082	13,045	11,560	2,354	13,914	12,187	2,660	14,847
2034	10,990	2,094	13,084	11,616	2,381	13,997	12,275	2,706	14,981
2035	11,015	2,106	13,121	11,670	2,408	14,078	12,361	2,752	15,113
2036	11,040	2,118	13,158	11,722	2,436	14,158	12,444	2,800	15,243

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.77%	0.38%	0.62%	1.54%	0.76%	0.94%	2.31%	1.15%
2019	0.31%	0.74%	0.38%	0.62%	1.49%	0.76%	0.94%	2.23%	1.14%
2020	0.31%	0.72%	0.37%	0.62%	1.44%	0.75%	0.93%	2.16%	1.13%
2021	0.31%	0.71%	0.37%	0.62%	1.42%	0.74%	0.93%	2.13%	1.12%
2022	0.31%	0.70%	0.37%	0.62%	1.40%	0.74%	0.92%	2.10%	1.11%
2023	0.31%	0.68%	0.36%	0.61%	1.36%	0.73%	0.92%	2.04%	1.10%
2024	0.30%	0.68%	0.36%	0.61%	1.35%	0.73%	0.91%	2.03%	1.10%
2025	0.30%	0.67%	0.36%	0.60%	1.33%	0.72%	0.91%	2.00%	1.09%
2026	0.30%	0.66%	0.35%	0.60%	1.31%	0.71%	0.89%	1.97%	1.07%
2027	0.29%	0.65%	0.35%	0.59%	1.31%	0.71%	0.88%	1.97%	1.07%
2028	0.29%	0.63%	0.34%	0.58%	1.27%	0.69%	0.87%	1.91%	1.05%
2029	0.29%	0.64%	0.34%	0.57%	1.27%	0.69%	0.86%	1.91%	1.04%
2030	0.28%	0.62%	0.33%	0.56%	1.24%	0.67%	0.84%	1.86%	1.02%
2031	0.27%	0.62%	0.33%	0.54%	1.24%	0.66%	0.81%	1.86%	1.00%
2032	0.26%	0.60%	0.32%	0.52%	1.21%	0.64%	0.78%	1.82%	0.96%
2033	0.25%	0.60%	0.31%	0.50%	1.20%	0.62%	0.75%	1.81%	0.94%
2034	0.24%	0.58%	0.30%	0.48%	1.16%	0.60%	0.72%	1.75%	0.91%
2035	0.23%	0.57%	0.29%	0.46%	1.14%	0.58%	0.70%	1.71%	0.88%
2036	0.22%	0.57%	0.28%	0.45%	1.14%	0.57%	0.67%	1.72%	0.86%





20 Year Customer Growth Rate	
High:	21.68%
Medium:	13.90%
Low:	6.69%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Zone ME-WA

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	7,817,990	4,720,808	12,538,799	7,895,857	4,779,318	12,675,175	7,974,196	4,838,251	12,812,447
2018	7,854,938	4,748,279	12,603,217	7,970,648	4,835,057	12,805,705	8,087,738	4,923,066	13,010,803
2019	7,891,583	4,775,013	12,666,597	8,045,244	4,889,670	12,934,914	8,201,616	5,006,726	13,208,343
2020	7,987,325	4,801,091	12,788,415	8,180,253	4,943,287	13,123,541	8,377,669	5,089,398	13,467,067
2021	7,963,365	4,826,573	12,789,937	8,192,552	4,996,011	13,188,564	8,428,332	5,171,204	13,599,537
2022	7,998,741	4,851,578	12,850,319	8,265,724	5,048,066	13,313,790	8,541,839	5,252,468	13,794,307
2023	8,033,775	4,875,946	12,909,722	8,338,557	5,099,100	13,437,657	8,655,395	5,332,621	13,988,017
2024	8,129,174	4,899,862	13,029,036	8,474,364	5,149,472	13,623,836	8,835,031	5,412,187	14,247,218
2025	8,102,645	4,923,174	13,025,819	8,482,781	5,198,853	13,681,635	8,881,928	5,490,638	14,372,566
2026	8,136,451	4,946,176	13,082,627	8,554,094	5,247,848	13,801,942	8,994,764	5,568,906	14,563,670
2027	8,169,742	4,968,713	13,138,455	8,624,650	5,296,110	13,920,760	9,106,930	5,646,424	14,753,354
2028	8,264,291	4,990,589	13,254,879	8,760,019	5,343,205	14,103,224	9,288,034	5,722,474	15,010,508
2029	8,234,589	5,011,976	13,246,565	8,763,011	5,389,478	14,152,489	9,328,390	5,797,572	15,125,962
2030	8,266,297	5,032,868	13,299,164	8,831,114	5,434,909	14,266,023	9,438,130	5,871,681	15,309,811
2031	8,296,848	5,053,139	13,349,987	8,897,022	5,479,208	14,376,230	9,544,807	5,944,302	15,489,109
2032	8,389,477	5,072,837	13,462,314	9,029,473	5,522,471	14,551,944	9,723,170	6,015,591	15,738,761
2033	8,355,438	5,092,015	13,447,453	9,024,266	5,564,796	14,589,062	9,752,153	6,085,672	15,837,825
2034	8,383,279	5,110,353	13,493,632	9,085,108	5,605,454	14,690,562	9,851,928	6,153,307	16,005,235
2035	8,410,453	5,128,179	13,538,632	9,144,742	5,645,161	14,789,903	9,950,133	6,219,674	16,169,807
2036	8,499,920	5,145,408	13,645,328	9,271,289	5,683,712	14,955,001	10,120,495	6,284,402	16,404,896

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.47%	0.58%	0.51%	0.95%	1.17%	1.03%	1.42%	1.75%	1.55%
2019	0.47%	0.56%	0.50%	0.94%	1.13%	1.01%	1.41%	1.70%	1.52%
2020	1.21%	0.55%	0.96%	1.68%	1.10%	1.46%	2.15%	1.65%	1.96%
2021	-0.30%	0.53%	0.01%	0.15%	1.07%	0.50%	0.60%	1.61%	0.98%
2022	0.44%	0.52%	0.47%	0.89%	1.04%	0.95%	1.35%	1.57%	1.43%
2023	0.44%	0.50%	0.46%	0.88%	1.01%	0.93%	1.33%	1.53%	1.40%
2024	1.19%	0.49%	0.92%	1.63%	0.99%	1.39%	2.08%	1.49%	1.85%
2025	-0.33%	0.48%	-0.02%	0.10%	0.96%	0.42%	0.53%	1.45%	0.88%
2026	0.42%	0.47%	0.44%	0.84%	0.94%	0.88%	1.27%	1.43%	1.33%
2027	0.41%	0.46%	0.43%	0.82%	0.92%	0.86%	1.25%	1.39%	1.30%
2028	1.16%	0.44%	0.89%	1.57%	0.89%	1.31%	1.99%	1.35%	1.74%
2029	-0.36%	0.43%	-0.06%	0.03%	0.87%	0.35%	0.43%	1.31%	0.77%
2030	0.39%	0.42%	0.40%	0.78%	0.84%	0.80%	1.18%	1.28%	1.22%
2031	0.37%	0.40%	0.38%	0.75%	0.82%	0.77%	1.13%	1.24%	1.17%
2032	1.12%	0.39%	0.84%	1.49%	0.79%	1.22%	1.87%	1.20%	1.61%
2033	-0.41%	0.38%	-0.11%	-0.06%	0.77%	0.26%	0.30%	1.16%	0.63%
2034	0.33%	0.36%	0.34%	0.67%	0.73%	0.70%	1.02%	1.11%	1.06%
2035	0.32%	0.35%	0.33%	0.66%	0.71%	0.68%	1.00%	1.08%	1.03%
2036	1.06%	0.34%	0.79%	1.38%	0.68%	1.12%	1.71%	1.04%	1.45%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	12,934	159,185	172,119	13,094	160,795	173,889	13,255	162,415	175,670
2018	13,009	159,945	172,954	13,247	162,334	175,581	13,488	164,751	178,239
2019	13,082	160,695	173,777	13,396	163,859	177,256	13,717	167,080	180,797
2020	13,154	161,429	174,583	13,543	165,362	178,906	13,944	169,387	183,331
2021	13,223	162,154	175,377	13,688	166,854	180,542	14,168	171,689	185,857
2022	13,292	162,870	176,162	13,830	168,335	182,166	14,390	173,987	188,377
2023	13,359	163,575	176,934	13,970	169,802	183,772	14,610	176,273	190,883
2024	13,424	164,272	177,696	14,108	171,257	185,365	14,828	178,553	193,381
2025	13,488	164,958	178,446	14,243	172,696	186,940	15,043	180,819	195,862
2026	13,551	165,635	179,186	14,378	174,124	188,502	15,257	183,078	198,336
2027	13,613	166,300	179,913	14,510	175,535	190,044	15,470	185,320	200,789
2028	13,673	166,953	180,626	14,639	176,923	191,562	15,678	187,537	203,215
2029	13,731	167,592	181,324	14,766	178,291	193,056	15,884	189,730	205,614
2030	13,789	168,222	182,011	14,890	179,642	194,532	16,087	191,907	207,994
2031	13,844	168,830	182,674	15,012	180,953	195,964	16,286	194,028	210,313
2032	13,898	169,422	183,320	15,130	182,236	197,366	16,481	196,113	212,594
2033	13,951	169,992	183,943	15,246	183,478	198,724	16,673	198,140	214,813
2034	14,001	170,544	184,545	15,357	184,682	200,039	16,858	200,115	216,973
2035	14,050	171,080	185,130	15,466	185,859	201,325	17,040	202,052	219,092
2036	14,097	171,593	185,690	15,572	186,988	202,559	17,218	203,917	221,135

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.58%	0.48%	0.49%	1.17%	0.96%	0.97%	1.75%	1.44%	1.46%
2019	0.56%	0.47%	0.48%	1.13%	0.94%	0.95%	1.70%	1.41%	1.44%
2020	0.55%	0.46%	0.46%	1.10%	0.92%	0.93%	1.65%	1.38%	1.40%
2021	0.53%	0.45%	0.46%	1.07%	0.90%	0.91%	1.61%	1.36%	1.38%
2022	0.52%	0.44%	0.45%	1.04%	0.89%	0.90%	1.57%	1.34%	1.36%
2023	0.50%	0.43%	0.44%	1.01%	0.87%	0.88%	1.53%	1.31%	1.33%
2024	0.49%	0.43%	0.43%	0.99%	0.86%	0.87%	1.49%	1.29%	1.31%
2025	0.48%	0.42%	0.42%	0.96%	0.84%	0.85%	1.45%	1.27%	1.28%
2026	0.47%	0.41%	0.41%	0.94%	0.83%	0.84%	1.43%	1.25%	1.26%
2027	0.46%	0.40%	0.41%	0.92%	0.81%	0.82%	1.39%	1.22%	1.24%
2028	0.44%	0.39%	0.40%	0.89%	0.79%	0.80%	1.35%	1.20%	1.21%
2029	0.43%	0.38%	0.39%	0.87%	0.77%	0.78%	1.31%	1.17%	1.18%
2030	0.42%	0.38%	0.38%	0.84%	0.76%	0.76%	1.28%	1.15%	1.16%
2031	0.40%	0.36%	0.36%	0.82%	0.73%	0.74%	1.24%	1.10%	1.12%
2032	0.39%	0.35%	0.35%	0.79%	0.71%	0.72%	1.20%	1.07%	1.08%
2033	0.38%	0.34%	0.34%	0.77%	0.68%	0.69%	1.16%	1.03%	1.04%
2034	0.36%	0.32%	0.33%	0.73%	0.66%	0.66%	1.11%	1.00%	1.01%
2035	0.35%	0.31%	0.32%	0.71%	0.64%	0.64%	1.08%	0.97%	0.98%
2036	0.34%	0.30%	0.30%	0.68%	0.61%	0.61%	1.04%	0.92%	0.93%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	6,496,930	6,041,868	12,538,799	6,537,816	6,137,358	12,675,175	6,578,831	6,233,616	12,812,447
2018	6,517,187	6,086,030	12,603,217	6,578,585	6,227,121	12,805,705	6,640,366	6,370,437	13,010,803
2019	6,537,434	6,129,163	12,666,597	6,619,460	6,315,454	12,934,914	6,702,255	6,506,087	13,208,343
2020	6,590,206	6,198,209	12,788,415	6,693,433	6,430,107	13,123,541	6,797,950	6,669,117	13,467,067
2021	6,577,635	6,212,302	12,789,937	6,700,996	6,487,567	13,188,564	6,826,279	6,773,257	13,599,537
2022	6,597,539	6,252,780	12,850,319	6,741,550	6,572,240	13,313,790	6,888,247	6,906,060	13,794,307
2023	6,617,330	6,292,392	12,909,722	6,781,996	6,655,661	13,437,657	6,950,236	7,037,780	13,988,017
2024	6,669,992	6,359,044	13,029,036	6,856,238	6,767,598	13,623,836	7,047,093	7,200,125	14,247,218
2025	6,656,475	6,369,344	13,025,819	6,862,352	6,819,282	13,681,635	7,073,943	7,298,623	14,372,566
2026	6,675,623	6,407,004	13,082,627	6,901,833	6,900,109	13,801,942	7,134,990	7,428,680	14,563,670
2027	6,694,509	6,443,946	13,138,455	6,940,885	6,979,875	13,920,760	7,195,546	7,557,808	14,753,354
2028	6,746,391	6,508,488	13,254,879	7,013,976	7,089,248	14,103,224	7,291,326	7,719,182	15,010,508
2029	6,731,296	6,515,269	13,246,565	7,017,271	7,135,218	14,152,489	7,314,492	7,811,470	15,125,962
2030	6,749,203	6,549,961	13,299,164	7,054,606	7,211,417	14,266,023	7,372,867	7,936,944	15,309,811
2031	6,766,395	6,583,592	13,349,987	7,090,547	7,285,683	14,376,230	7,429,209	8,059,900	15,489,109
2032	6,816,534	6,645,780	13,462,314	7,160,392	7,391,552	14,551,944	7,520,522	8,218,238	15,738,761
2033	6,798,555	6,648,898	13,447,453	7,158,029	7,431,033	14,589,062	7,535,393	8,302,432	15,837,825
2034	6,813,585	6,680,047	13,493,632	7,189,678	7,500,884	14,690,562	7,585,369	8,419,866	16,005,235
2035	6,827,921	6,710,711	13,538,632	7,219,932	7,569,971	14,789,903	7,633,248	8,536,559	16,169,807
2036	6,875,617	6,769,711	13,645,328	7,284,922	7,670,079	14,955,001	7,717,347	8,687,550	16,404,896

Annual Change

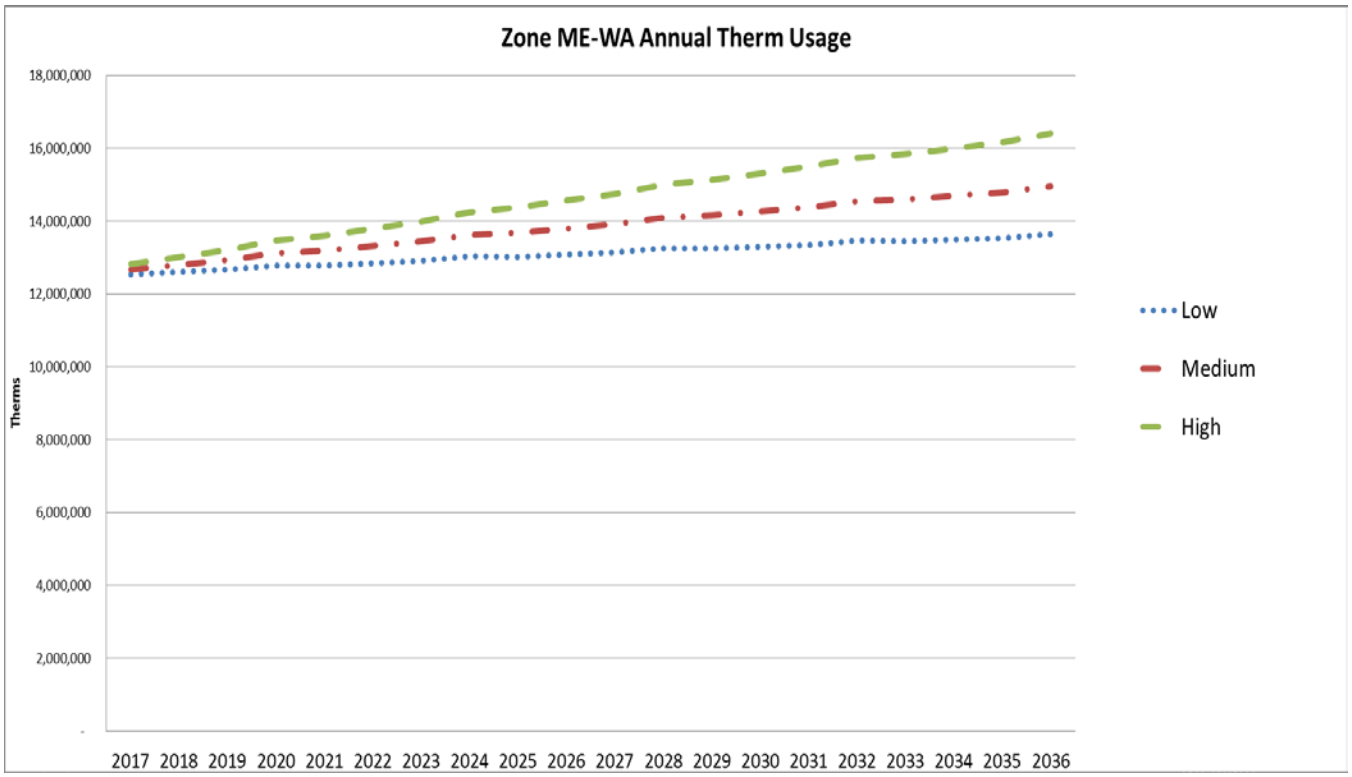
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.73%	0.51%	0.62%	1.46%	1.03%	0.94%	2.19%	1.55%
2019	0.31%	0.71%	0.50%	0.62%	1.42%	1.01%	0.93%	2.13%	1.52%
2020	0.81%	1.13%	0.96%	1.12%	1.82%	1.46%	1.43%	2.51%	1.96%
2021	-0.19%	0.23%	0.01%	0.11%	0.89%	0.50%	0.42%	1.56%	0.98%
2022	0.30%	0.65%	0.47%	0.61%	1.31%	0.95%	0.91%	1.96%	1.43%
2023	0.30%	0.63%	0.46%	0.60%	1.27%	0.93%	0.90%	1.91%	1.40%
2024	0.80%	1.06%	0.92%	1.09%	1.68%	1.39%	1.39%	2.31%	1.85%
2025	-0.20%	0.16%	-0.02%	0.09%	0.76%	0.42%	0.38%	1.37%	0.88%
2026	0.29%	0.59%	0.44%	0.58%	1.19%	0.88%	0.86%	1.78%	1.33%
2027	0.28%	0.58%	0.43%	0.57%	1.16%	0.86%	0.85%	1.74%	1.30%
2028	0.77%	1.00%	0.89%	1.05%	1.57%	1.31%	1.33%	2.14%	1.74%
2029	-0.22%	0.10%	-0.06%	0.05%	0.65%	0.35%	0.32%	1.20%	0.77%
2030	0.27%	0.53%	0.40%	0.53%	1.07%	0.80%	0.80%	1.61%	1.22%
2031	0.25%	0.51%	0.38%	0.51%	1.03%	0.77%	0.76%	1.55%	1.17%
2032	0.74%	0.94%	0.84%	0.99%	1.45%	1.22%	1.23%	1.96%	1.61%
2033	-0.26%	0.05%	-0.11%	-0.03%	0.53%	0.26%	0.20%	1.02%	0.63%
2034	0.22%	0.47%	0.34%	0.44%	0.94%	0.70%	0.66%	1.41%	1.06%
2035	0.21%	0.46%	0.33%	0.42%	0.92%	0.68%	0.63%	1.39%	1.03%
2036	0.70%	0.88%	0.79%	0.90%	1.32%	1.12%	1.10%	1.77%	1.45%

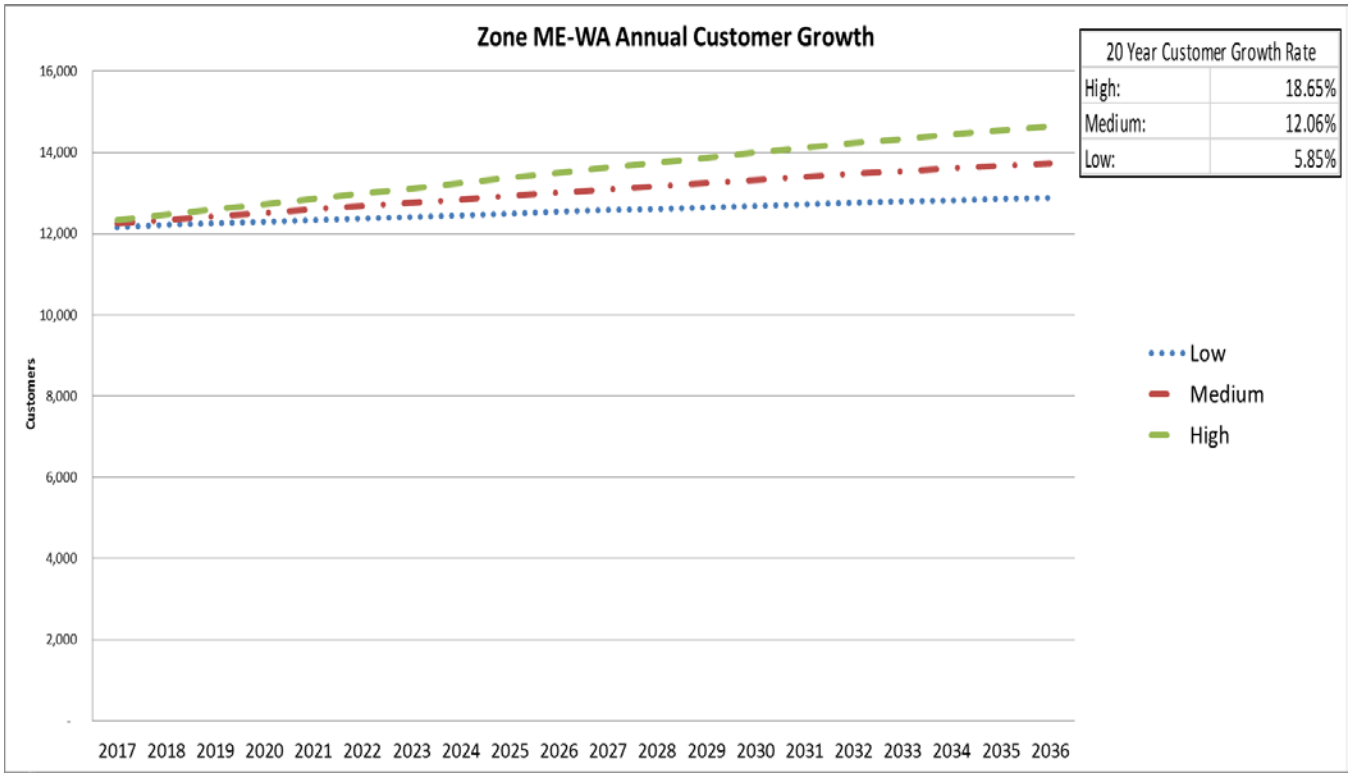
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	10,864	1,305	12,168	10,932	1,324	12,256	11,001	1,343	12,343
2018	10,898	1,313	12,211	11,000	1,341	12,341	11,103	1,369	12,472
2019	10,931	1,322	12,253	11,069	1,358	12,426	11,207	1,395	12,602
2020	10,965	1,330	12,295	11,137	1,374	12,511	11,311	1,420	12,731
2021	10,999	1,337	12,336	11,205	1,391	12,595	11,414	1,446	12,860
2022	11,032	1,345	12,377	11,273	1,407	12,679	11,518	1,471	12,989
2023	11,065	1,353	12,418	11,340	1,423	12,763	11,622	1,496	13,117
2024	11,098	1,360	12,458	11,408	1,439	12,846	11,725	1,521	13,246
2025	11,130	1,368	12,498	11,475	1,454	12,929	11,828	1,545	13,374
2026	11,162	1,375	12,537	11,541	1,470	13,010	11,931	1,570	13,501
2027	11,194	1,382	12,576	11,606	1,485	13,091	12,032	1,595	13,627
2028	11,225	1,389	12,614	11,670	1,500	13,170	12,132	1,619	13,751
2029	11,256	1,396	12,652	11,734	1,515	13,249	12,231	1,643	13,874
2030	11,285	1,403	12,688	11,796	1,530	13,326	12,328	1,667	13,996
2031	11,314	1,410	12,724	11,856	1,544	13,401	12,423	1,691	14,114
2032	11,342	1,416	12,758	11,914	1,559	13,472	12,513	1,715	14,228
2033	11,368	1,422	12,790	11,969	1,573	13,542	12,600	1,738	14,338
2034	11,393	1,429	12,822	12,022	1,586	13,608	12,684	1,760	14,444
2035	11,417	1,435	12,852	12,073	1,600	13,672	12,764	1,783	14,547
2036	11,440	1,440	12,880	12,121	1,613	13,734	12,841	1,804	14,645

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.65%	0.35%	0.62%	1.31%	0.70%	0.94%	1.96%	1.05%
2019	0.31%	0.63%	0.35%	0.62%	1.27%	0.69%	0.93%	1.90%	1.04%
2020	0.31%	0.61%	0.34%	0.62%	1.21%	0.68%	0.93%	1.82%	1.02%
2021	0.31%	0.59%	0.34%	0.61%	1.19%	0.67%	0.92%	1.78%	1.01%
2022	0.30%	0.58%	0.33%	0.61%	1.16%	0.67%	0.91%	1.75%	1.00%
2023	0.30%	0.57%	0.33%	0.60%	1.13%	0.66%	0.90%	1.70%	0.99%
2024	0.30%	0.56%	0.33%	0.59%	1.11%	0.65%	0.89%	1.67%	0.98%
2025	0.29%	0.54%	0.32%	0.59%	1.08%	0.64%	0.88%	1.62%	0.97%
2026	0.29%	0.53%	0.31%	0.58%	1.07%	0.63%	0.86%	1.61%	0.95%
2027	0.28%	0.52%	0.31%	0.57%	1.04%	0.62%	0.85%	1.56%	0.93%
2028	0.28%	0.51%	0.30%	0.55%	1.02%	0.61%	0.83%	1.53%	0.91%
2029	0.27%	0.50%	0.30%	0.54%	0.99%	0.60%	0.82%	1.49%	0.90%
2030	0.27%	0.49%	0.29%	0.53%	0.98%	0.58%	0.80%	1.47%	0.88%
2031	0.25%	0.47%	0.28%	0.51%	0.94%	0.56%	0.76%	1.42%	0.84%
2032	0.24%	0.46%	0.27%	0.49%	0.93%	0.54%	0.73%	1.39%	0.81%
2033	0.23%	0.45%	0.26%	0.46%	0.89%	0.51%	0.70%	1.34%	0.77%
2034	0.22%	0.43%	0.24%	0.44%	0.87%	0.49%	0.66%	1.30%	0.74%
2035	0.21%	0.43%	0.23%	0.42%	0.85%	0.47%	0.63%	1.28%	0.71%
2036	0.20%	0.40%	0.22%	0.40%	0.81%	0.45%	0.60%	1.21%	0.68%





20 Year Customer Growth Rate	
High:	18.65%
Medium:	12.06%
Low:	5.85%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Aberdeen District

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	3,959,668	2,191,951	6,151,619	3,992,002	2,213,539	6,205,541	4,024,490	2,235,249	6,259,739
2018	3,973,984	2,201,474	6,175,458	4,020,904	2,232,803	6,253,707	4,068,252	2,264,475	6,332,726
2019	3,987,993	2,210,548	6,198,540	4,049,289	2,251,434	6,300,723	4,111,398	2,292,978	6,404,376
2020	4,028,182	2,219,070	6,247,252	4,104,190	2,269,386	6,373,576	4,181,513	2,320,759	6,502,272
2021	4,014,850	2,227,236	6,242,086	4,104,408	2,286,998	6,391,406	4,195,866	2,348,306	6,544,171
2022	4,027,846	2,234,993	6,262,839	4,131,455	2,304,126	6,435,580	4,237,659	2,375,371	6,613,030
2023	4,040,609	2,242,396	6,283,005	4,158,332	2,320,932	6,479,264	4,279,451	2,402,226	6,681,677
2024	4,080,179	2,249,508	6,329,687	4,212,979	2,337,351	6,550,330	4,350,111	2,428,668	6,778,779
2025	4,065,451	2,256,282	6,321,733	4,211,239	2,353,313	6,564,552	4,362,310	2,454,598	6,816,908
2026	4,077,631	2,262,794	6,340,425	4,237,563	2,369,092	6,606,655	4,403,877	2,480,499	6,884,376
2027	4,089,615	2,269,132	6,358,747	4,263,604	2,384,588	6,648,192	4,445,166	2,506,070	6,951,236
2028	4,128,584	2,275,235	6,403,818	4,317,785	2,399,682	6,717,467	4,515,895	2,531,125	7,047,020
2029	4,112,866	2,281,158	6,394,024	4,314,607	2,414,574	6,729,181	4,526,552	2,556,019	7,082,571
2030	4,124,243	2,286,798	6,411,041	4,339,812	2,429,060	6,768,872	4,567,036	2,580,429	7,147,465
2031	4,135,112	2,292,124	6,427,236	4,364,084	2,442,960	6,807,045	4,606,207	2,604,011	7,210,218
2032	4,173,390	2,297,403	6,470,794	4,417,350	2,456,799	6,874,149	4,676,146	2,627,579	7,303,725
2033	4,155,989	2,302,209	6,458,199	4,411,117	2,469,823	6,880,940	4,682,579	2,649,994	7,332,573
2034	4,165,946	2,306,995	6,472,941	4,433,702	2,482,698	6,916,400	4,719,457	2,672,171	7,391,628
2035	4,175,596	2,311,522	6,487,118	4,455,790	2,495,204	6,950,993	4,755,703	2,693,905	7,449,607
2036	4,212,606	2,315,689	6,528,295	4,506,802	2,506,964	7,013,767	4,822,602	2,714,492	7,537,093

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.36%	0.43%	0.39%	0.72%	0.87%	0.78%	1.09%	1.31%	1.17%
2019	0.35%	0.41%	0.37%	0.71%	0.83%	0.75%	1.06%	1.26%	1.13%
2020	1.01%	0.39%	0.79%	1.36%	0.80%	1.16%	1.71%	1.21%	1.53%
2021	-0.33%	0.37%	-0.08%	0.01%	0.78%	0.28%	0.34%	1.19%	0.64%
2022	0.32%	0.35%	0.33%	0.66%	0.75%	0.69%	1.00%	1.15%	1.05%
2023	0.32%	0.33%	0.32%	0.65%	0.73%	0.68%	0.99%	1.13%	1.04%
2024	0.98%	0.32%	0.74%	1.31%	0.71%	1.10%	1.65%	1.10%	1.45%
2025	-0.36%	0.30%	-0.13%	-0.04%	0.68%	0.22%	0.28%	1.07%	0.56%
2026	0.30%	0.29%	0.30%	0.63%	0.67%	0.64%	0.95%	1.06%	0.99%
2027	0.29%	0.28%	0.29%	0.61%	0.65%	0.63%	0.94%	1.03%	0.97%
2028	0.95%	0.27%	0.71%	1.27%	0.63%	1.04%	1.59%	1.00%	1.38%
2029	-0.38%	0.26%	-0.15%	-0.07%	0.62%	0.17%	0.24%	0.98%	0.50%
2030	0.28%	0.25%	0.27%	0.58%	0.60%	0.59%	0.89%	0.95%	0.92%
2031	0.26%	0.23%	0.25%	0.56%	0.57%	0.56%	0.86%	0.91%	0.88%
2032	0.93%	0.23%	0.68%	1.22%	0.57%	0.99%	1.52%	0.91%	1.30%
2033	-0.42%	0.21%	-0.19%	-0.14%	0.53%	0.10%	0.14%	0.85%	0.39%
2034	0.24%	0.21%	0.23%	0.51%	0.52%	0.52%	0.79%	0.84%	0.81%
2035	0.23%	0.20%	0.22%	0.50%	0.50%	0.50%	0.77%	0.81%	0.78%
2036	0.89%	0.18%	0.63%	1.14%	0.47%	0.90%	1.41%	0.76%	1.17%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	6,005	48,794	54,799	6,064	49,184	55,249	6,124	49,577	55,701
2018	6,031	48,966	54,997	6,117	49,532	55,649	6,204	50,102	56,307
2019	6,056	49,134	55,190	6,168	49,872	56,040	6,282	50,620	56,902
2020	6,080	49,296	55,376	6,217	50,205	56,423	6,358	51,130	57,488
2021	6,102	49,453	55,555	6,266	50,532	56,798	6,434	51,633	58,067
2022	6,123	49,607	55,731	6,313	50,856	57,168	6,508	52,135	58,642
2023	6,144	49,758	55,902	6,359	51,177	57,536	6,581	52,636	59,217
2024	6,163	49,907	56,070	6,404	51,497	57,901	6,654	53,139	59,792
2025	6,182	50,051	56,233	6,447	51,810	58,257	6,725	53,631	60,356
2026	6,199	50,194	56,394	6,491	52,125	58,615	6,796	54,131	60,927
2027	6,217	50,335	56,552	6,533	52,436	58,970	6,866	54,628	61,494
2028	6,234	50,473	56,706	6,574	52,743	59,317	6,935	55,118	62,053
2029	6,250	50,608	56,858	6,615	53,047	59,662	7,003	55,607	62,610
2030	6,265	50,742	57,007	6,655	53,349	60,004	7,070	56,095	63,165
2031	6,280	50,869	57,149	6,693	53,640	60,333	7,134	56,567	63,702
2032	6,294	50,994	57,288	6,731	53,927	60,658	7,199	57,036	64,235
2033	6,307	51,113	57,420	6,767	54,203	60,970	7,260	57,488	64,748
2034	6,321	51,229	57,550	6,802	54,474	61,276	7,321	57,933	65,254
2035	6,333	51,342	57,675	6,836	54,738	61,575	7,381	58,370	65,751
2036	6,344	51,449	57,793	6,868	54,992	61,860	7,437	58,791	66,228

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.43%	0.35%	0.36%	0.87%	0.71%	0.72%	1.31%	1.06%	1.09%
2019	0.41%	0.34%	0.35%	0.83%	0.69%	0.70%	1.26%	1.03%	1.06%
2020	0.39%	0.33%	0.34%	0.80%	0.67%	0.68%	1.21%	1.01%	1.03%
2021	0.37%	0.32%	0.32%	0.78%	0.65%	0.67%	1.19%	0.98%	1.01%
2022	0.35%	0.31%	0.32%	0.75%	0.64%	0.65%	1.15%	0.97%	0.99%
2023	0.33%	0.30%	0.31%	0.73%	0.63%	0.64%	1.13%	0.96%	0.98%
2024	0.32%	0.30%	0.30%	0.71%	0.63%	0.64%	1.10%	0.95%	0.97%
2025	0.30%	0.29%	0.29%	0.68%	0.61%	0.62%	1.07%	0.93%	0.94%
2026	0.29%	0.29%	0.29%	0.67%	0.61%	0.61%	1.06%	0.93%	0.95%
2027	0.28%	0.28%	0.28%	0.65%	0.60%	0.60%	1.03%	0.92%	0.93%
2028	0.27%	0.27%	0.27%	0.63%	0.58%	0.59%	1.00%	0.90%	0.91%
2029	0.26%	0.27%	0.27%	0.62%	0.58%	0.58%	0.98%	0.89%	0.90%
2030	0.25%	0.26%	0.26%	0.60%	0.57%	0.57%	0.95%	0.88%	0.89%
2031	0.23%	0.25%	0.25%	0.57%	0.55%	0.55%	0.91%	0.84%	0.85%
2032	0.23%	0.25%	0.24%	0.57%	0.54%	0.54%	0.91%	0.83%	0.84%
2033	0.21%	0.23%	0.23%	0.53%	0.51%	0.51%	0.85%	0.79%	0.80%
2034	0.21%	0.23%	0.23%	0.52%	0.50%	0.50%	0.84%	0.77%	0.78%
2035	0.20%	0.22%	0.22%	0.50%	0.49%	0.49%	0.81%	0.75%	0.76%
2036	0.18%	0.21%	0.21%	0.47%	0.46%	0.46%	0.76%	0.72%	0.73%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,534,796	3,616,823	6,151,619	2,547,649	3,657,892	6,205,541	2,560,533	3,699,206	6,259,739
2018	2,541,199	3,634,258	6,175,458	2,560,520	3,693,187	6,253,707	2,579,938	3,752,788	6,332,726
2019	2,547,622	3,650,918	6,198,540	2,573,463	3,727,260	6,300,723	2,599,499	3,804,877	6,404,376
2020	2,565,816	3,681,436	6,247,252	2,598,342	3,775,234	6,373,576	2,631,197	3,871,075	6,502,272
2021	2,560,418	3,681,668	6,242,086	2,599,348	3,792,058	6,391,406	2,638,769	3,905,403	6,544,171
2022	2,566,793	3,696,046	6,262,839	2,612,290	3,823,290	6,435,580	2,658,477	3,954,553	6,613,030
2023	2,573,151	3,709,854	6,283,005	2,625,233	3,854,031	6,479,264	2,678,234	4,003,443	6,681,677
2024	2,591,382	3,738,305	6,329,687	2,650,315	3,900,015	6,550,330	2,710,437	4,068,342	6,778,779
2025	2,585,735	3,735,998	6,321,733	2,650,940	3,913,612	6,564,552	2,717,622	4,099,287	6,816,908
2026	2,591,926	3,748,499	6,340,425	2,663,634	3,943,020	6,606,655	2,737,142	4,147,234	6,884,376
2027	2,598,033	3,760,714	6,358,747	2,676,187	3,972,005	6,648,192	2,756,490	4,194,746	6,951,236
2028	2,616,058	3,787,760	6,403,818	2,700,970	4,016,496	6,717,467	2,788,420	4,258,599	7,047,020
2029	2,609,964	3,784,060	6,394,024	2,700,795	4,028,386	6,729,181	2,794,554	4,288,017	7,082,571
2030	2,615,772	3,795,269	6,411,041	2,712,816	4,056,056	6,768,872	2,813,211	4,334,254	7,147,465
2031	2,621,328	3,805,907	6,427,236	2,724,340	4,082,705	6,807,045	2,831,137	4,379,081	7,210,218
2032	2,638,756	3,832,037	6,470,794	2,747,992	4,126,157	6,874,149	2,861,473	4,442,252	7,303,725
2033	2,631,707	3,826,491	6,458,199	2,745,935	4,135,006	6,880,940	2,864,832	4,467,741	7,332,573
2034	2,636,516	3,836,425	6,472,941	2,755,969	4,160,430	6,916,400	2,880,536	4,511,092	7,391,628
2035	2,641,112	3,846,006	6,487,118	2,765,579	4,185,415	6,950,993	2,895,601	4,554,006	7,449,607
2036	2,657,690	3,870,605	6,528,295	2,787,533	4,226,234	7,013,767	2,923,399	4,613,694	7,537,093

Annual Change

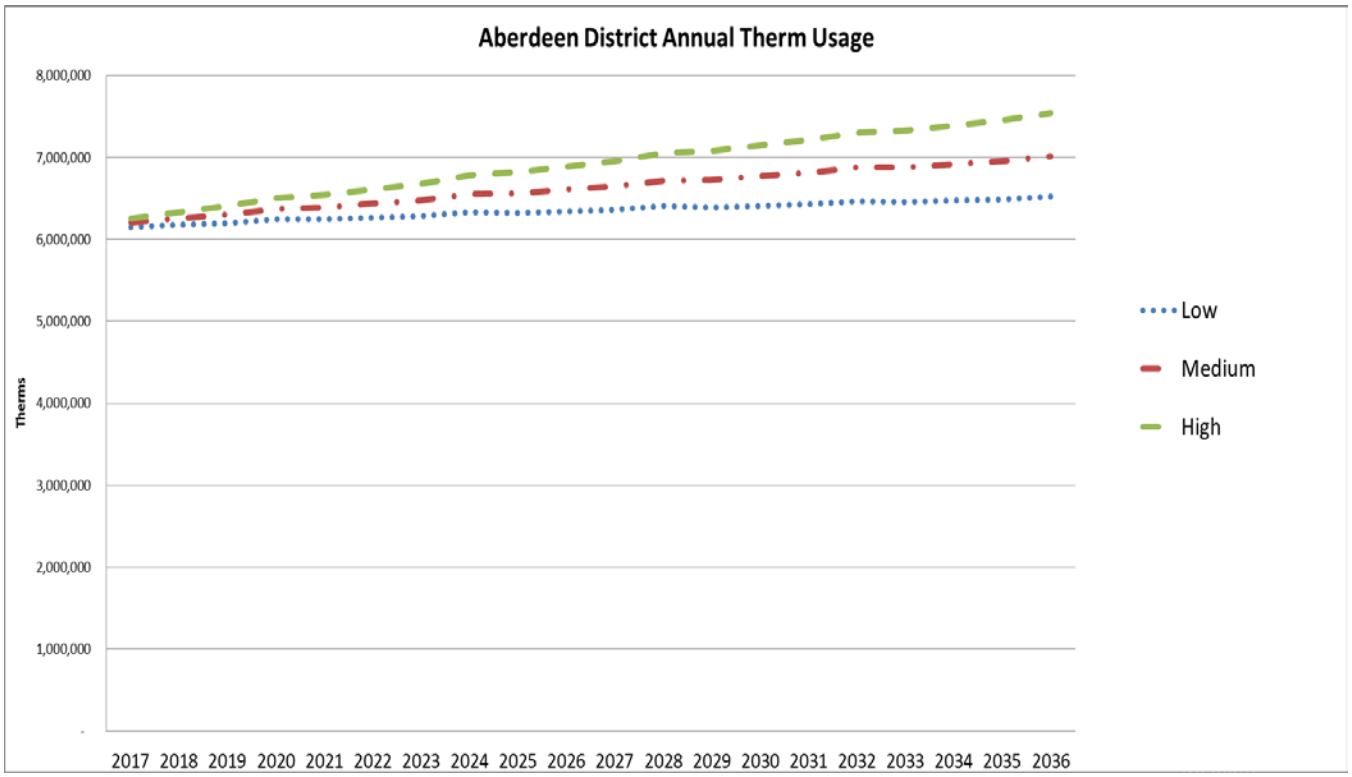
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.25%	0.48%	0.39%	0.51%	0.96%	0.78%	0.76%	1.45%	1.17%
2019	0.25%	0.46%	0.37%	0.51%	0.92%	0.75%	0.76%	1.39%	1.13%
2020	0.71%	0.84%	0.79%	0.97%	1.29%	1.16%	1.22%	1.74%	1.53%
2021	-0.21%	0.01%	-0.08%	0.04%	0.45%	0.28%	0.29%	0.89%	0.64%
2022	0.25%	0.39%	0.33%	0.50%	0.82%	0.69%	0.75%	1.26%	1.05%
2023	0.25%	0.37%	0.32%	0.50%	0.80%	0.68%	0.74%	1.24%	1.04%
2024	0.71%	0.77%	0.74%	0.96%	1.19%	1.10%	1.20%	1.62%	1.45%
2025	-0.22%	-0.06%	-0.13%	0.02%	0.35%	0.22%	0.27%	0.76%	0.56%
2026	0.24%	0.33%	0.30%	0.48%	0.75%	0.64%	0.72%	1.17%	0.99%
2027	0.24%	0.33%	0.29%	0.47%	0.74%	0.63%	0.71%	1.15%	0.97%
2028	0.69%	0.72%	0.71%	0.93%	1.12%	1.04%	1.16%	1.52%	1.38%
2029	-0.23%	-0.10%	-0.15%	-0.01%	0.30%	0.17%	0.22%	0.69%	0.50%
2030	0.22%	0.30%	0.27%	0.45%	0.69%	0.59%	0.67%	1.08%	0.92%
2031	0.21%	0.28%	0.25%	0.42%	0.66%	0.56%	0.64%	1.03%	0.88%
2032	0.66%	0.69%	0.68%	0.87%	1.06%	0.99%	1.07%	1.44%	1.30%
2033	-0.27%	-0.14%	-0.19%	-0.07%	0.21%	0.10%	0.12%	0.57%	0.39%
2034	0.18%	0.26%	0.23%	0.37%	0.61%	0.52%	0.55%	0.97%	0.81%
2035	0.17%	0.25%	0.22%	0.35%	0.60%	0.50%	0.52%	0.95%	0.78%
2036	0.63%	0.64%	0.63%	0.79%	0.98%	0.90%	0.96%	1.31%	1.17%

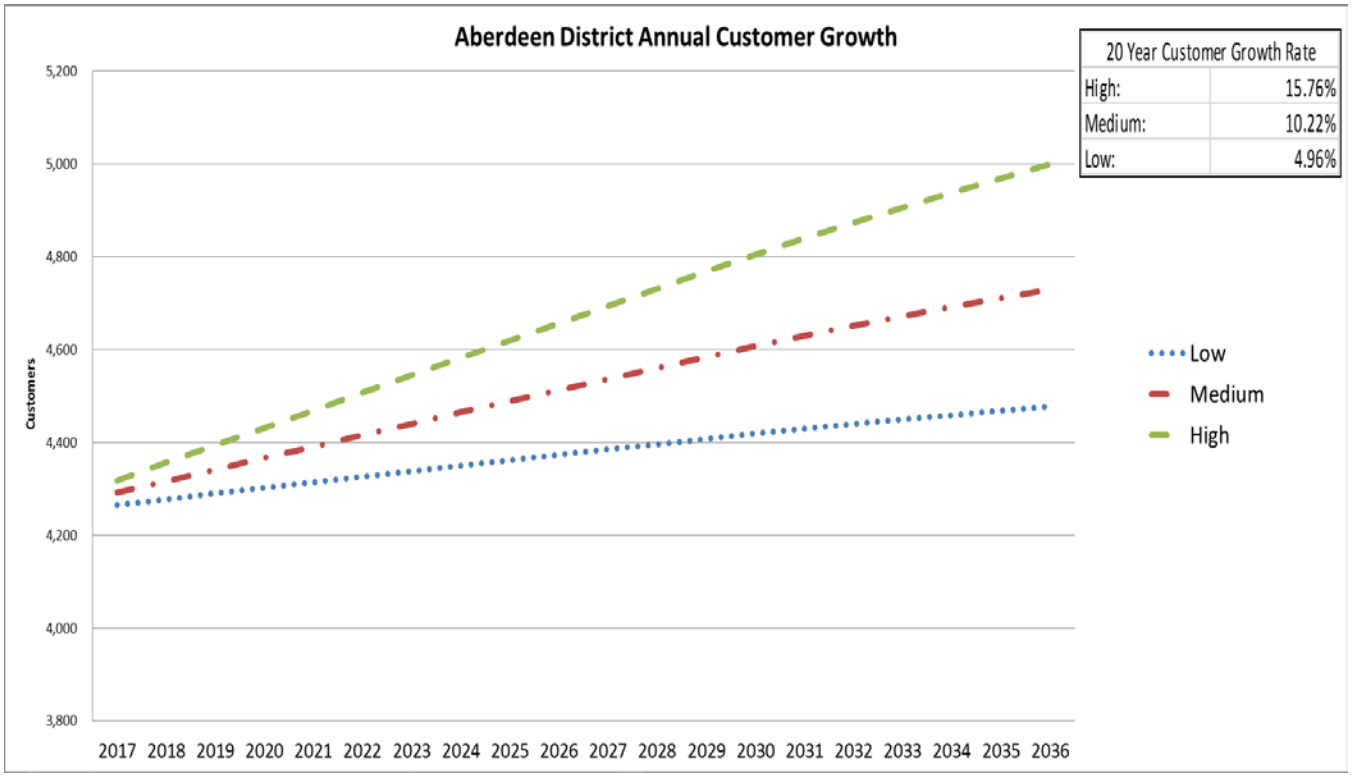
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	3,503	762	4,265	3,521	771	4,292	3,539	780	4,318
2018	3,512	766	4,278	3,539	778	4,317	3,566	791	4,356
2019	3,521	769	4,290	3,557	785	4,342	3,593	802	4,394
2020	3,530	773	4,302	3,575	792	4,367	3,620	812	4,432
2021	3,539	776	4,314	3,592	799	4,391	3,647	823	4,470
2022	3,547	779	4,327	3,610	806	4,416	3,674	833	4,507
2023	3,556	782	4,338	3,628	812	4,441	3,701	843	4,545
2024	3,565	785	4,350	3,646	819	4,465	3,729	854	4,583
2025	3,574	788	4,362	3,664	825	4,489	3,756	864	4,620
2026	3,582	792	4,374	3,681	832	4,513	3,783	875	4,657
2027	3,591	795	4,385	3,699	839	4,537	3,810	885	4,695
2028	3,599	798	4,397	3,716	845	4,561	3,836	896	4,732
2029	3,607	801	4,408	3,733	852	4,584	3,862	906	4,768
2030	3,615	804	4,419	3,749	858	4,608	3,888	917	4,805
2031	3,623	807	4,429	3,765	865	4,630	3,913	927	4,840
2032	3,630	810	4,440	3,780	871	4,652	3,937	937	4,874
2033	3,637	812	4,450	3,795	877	4,672	3,959	947	4,907
2034	3,644	815	4,459	3,809	884	4,692	3,981	957	4,938
2035	3,650	818	4,468	3,822	890	4,712	4,002	968	4,969
2036	3,656	821	4,477	3,835	896	4,731	4,022	977	4,999

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.25%	0.47%	0.29%	0.51%	0.95%	0.59%	0.76%	1.42%	0.88%
2019	0.25%	0.46%	0.29%	0.51%	0.92%	0.58%	0.76%	1.38%	0.87%
2020	0.25%	0.44%	0.29%	0.50%	0.88%	0.57%	0.75%	1.33%	0.86%
2021	0.25%	0.42%	0.28%	0.50%	0.85%	0.56%	0.75%	1.28%	0.85%
2022	0.25%	0.41%	0.28%	0.50%	0.84%	0.56%	0.75%	1.26%	0.84%
2023	0.25%	0.41%	0.28%	0.50%	0.83%	0.56%	0.74%	1.25%	0.84%
2024	0.25%	0.41%	0.27%	0.49%	0.82%	0.55%	0.74%	1.24%	0.83%
2025	0.24%	0.39%	0.27%	0.49%	0.79%	0.54%	0.73%	1.19%	0.81%
2026	0.24%	0.40%	0.27%	0.48%	0.81%	0.54%	0.72%	1.22%	0.81%
2027	0.24%	0.39%	0.26%	0.47%	0.80%	0.53%	0.71%	1.20%	0.80%
2028	0.23%	0.38%	0.26%	0.46%	0.78%	0.52%	0.69%	1.17%	0.78%
2029	0.23%	0.38%	0.25%	0.46%	0.77%	0.51%	0.68%	1.16%	0.77%
2030	0.22%	0.38%	0.25%	0.45%	0.77%	0.51%	0.67%	1.16%	0.76%
2031	0.21%	0.36%	0.24%	0.42%	0.74%	0.48%	0.64%	1.12%	0.73%
2032	0.20%	0.36%	0.23%	0.40%	0.74%	0.47%	0.61%	1.12%	0.71%
2033	0.19%	0.35%	0.22%	0.39%	0.71%	0.45%	0.58%	1.08%	0.68%
2034	0.18%	0.34%	0.21%	0.37%	0.71%	0.43%	0.55%	1.07%	0.65%
2035	0.17%	0.34%	0.20%	0.35%	0.70%	0.41%	0.52%	1.06%	0.63%
2036	0.17%	0.33%	0.19%	0.33%	0.67%	0.39%	0.50%	1.02%	0.60%





20 Year Customer Growth Rate	
High:	15.76%
Medium:	10.22%
Low:	4.96%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

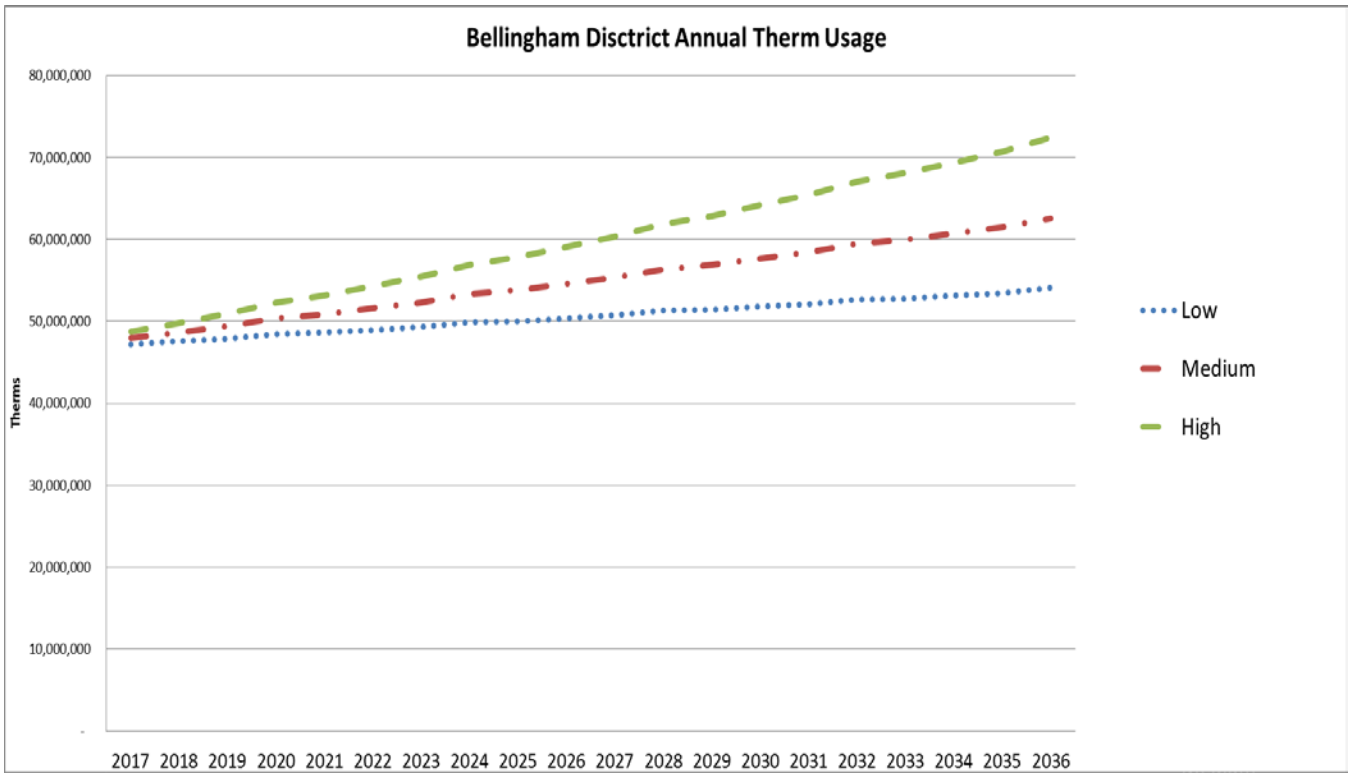
Bellingham Disctrict

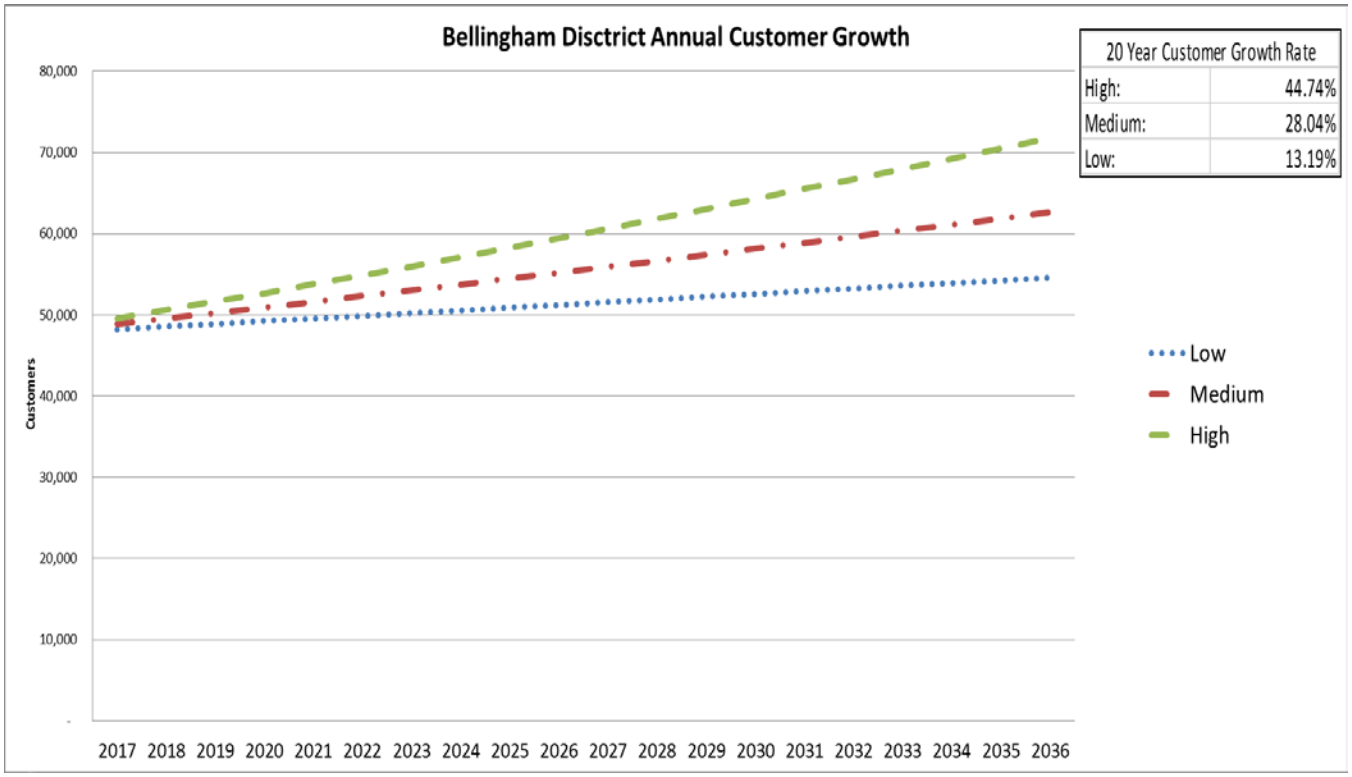
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	34,795,734	12,418,058	47,213,792	35,332,758	12,617,596	47,950,354	35,874,103	12,818,807	48,692,910	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	35,055,354	12,513,074	47,568,428	35,860,360	12,810,824	48,671,184	36,678,155	13,113,486	49,791,641	0.75%	0.77%	0.75%	1.49%	1.53%	1.50%	2.24%	2.30%	2.26%
2019	35,313,664	12,607,097	47,920,762	36,389,306	13,003,541	49,392,847	37,490,368	13,409,687	50,900,055	0.74%	0.75%	0.74%	1.48%	1.50%	1.48%	2.21%	2.26%	2.23%
2020	35,786,565	12,700,296	48,486,861	37,143,935	13,196,046	50,339,981	38,543,818	13,707,838	52,251,656	1.34%	0.74%	1.18%	2.07%	1.48%	1.92%	2.81%	2.22%	2.66%
2021	35,828,074	12,793,142	48,621,215	37,454,535	13,389,287	50,843,822	39,144,409	14,009,406	53,153,814	0.12%	0.73%	0.28%	0.84%	1.46%	1.00%	1.56%	2.20%	1.73%
2022	36,085,541	12,885,884	48,971,425	37,993,621	13,583,776	51,577,397	39,990,730	14,315,207	54,305,937	0.72%	0.72%	0.72%	1.44%	1.45%	1.44%	2.16%	2.18%	2.17%
2023	36,343,059	12,978,402	49,321,461	38,536,772	13,779,254	52,316,026	40,849,666	14,624,868	55,474,533	0.71%	0.72%	0.71%	1.43%	1.44%	1.43%	2.15%	2.16%	2.15%
2024	36,823,149	13,071,027	49,894,176	39,322,351	13,976,424	53,298,775	41,976,558	14,939,537	56,916,096	1.32%	0.71%	1.16%	2.04%	1.43%	1.88%	2.76%	2.15%	2.60%
2025	36,859,253	13,163,429	50,022,683	39,637,451	14,174,582	53,812,034	42,609,311	15,258,127	57,867,438	0.10%	0.71%	0.26%	0.80%	1.42%	0.96%	1.51%	2.13%	1.67%
2026	37,117,249	13,255,722	50,372,971	40,193,556	14,373,970	54,567,526	43,507,975	15,581,055	59,089,029	0.70%	0.70%	0.70%	1.40%	1.41%	1.40%	2.11%	2.12%	2.11%
2027	37,375,554	13,348,092	50,723,646	40,754,328	14,574,992	55,329,320	44,420,679	15,909,018	60,329,697	0.70%	0.70%	0.70%	1.40%	1.40%	1.40%	2.10%	2.10%	2.10%
2028	37,861,804	13,440,337	51,302,142	41,569,230	14,777,213	56,346,442	45,620,821	16,241,347	61,862,168	1.30%	0.69%	1.14%	2.00%	1.39%	1.84%	2.70%	2.09%	2.54%
2029	37,891,460	13,532,390	51,423,850	41,886,361	14,980,475	56,866,836	46,282,915	16,577,803	62,860,718	0.08%	0.68%	0.24%	0.76%	1.38%	0.92%	1.45%	2.07%	1.61%
2030	38,149,146	13,624,376	51,773,523	42,457,783	15,185,054	57,642,837	47,232,861	16,918,873	64,151,734	0.68%	0.68%	0.68%	1.36%	1.37%	1.36%	2.05%	2.06%	2.05%
2031	38,405,175	13,715,854	52,121,029	43,029,552	15,389,976	58,419,528	48,190,113	17,262,986	65,453,099	0.67%	0.67%	0.67%	1.35%	1.35%	1.35%	2.03%	2.03%	2.03%
2032	38,893,717	13,806,717	52,700,434	43,865,548	15,594,977	59,460,525	49,451,929	17,609,693	67,061,622	1.27%	0.66%	1.11%	1.94%	1.33%	1.78%	2.62%	2.01%	2.46%
2033	38,911,618	13,896,955	52,808,573	44,172,357	15,799,999	59,972,356	50,123,392	17,958,873	68,082,266	0.05%	0.65%	0.21%	0.70%	1.31%	0.86%	1.36%	1.98%	1.52%
2034	39,161,889	13,986,524	53,148,413	44,742,903	16,004,927	60,747,830	51,098,497	18,310,334	69,408,831	0.64%	0.64%	0.64%	1.29%	1.30%	1.29%	1.95%	1.96%	1.95%
2035	39,410,900	14,075,764	53,486,664	45,314,415	16,210,518	61,524,933	52,081,872	18,665,381	70,747,253	0.64%	0.64%	0.64%	1.28%	1.28%	1.28%	1.92%	1.94%	1.93%
2036	39,898,544	14,164,383	54,062,928	46,163,849	16,416,071	62,579,920	53,393,153	19,022,784	72,415,937	1.24%	0.63%	1.08%	1.87%	1.27%	1.71%	2.52%	1.91%	2.36%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	34,022	457,430	491,452	34,569	464,488	499,057	35,120	471,602	506,722	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	34,282	460,842	495,124	35,098	471,421	506,519	35,927	482,169	518,096	0.77%	0.75%	0.75%	1.53%	1.49%	1.50%	2.30%	2.24%	2.24%
2019	34,540	464,236	498,776	35,626	478,372	513,998	36,739	492,841	529,580	0.75%	0.74%	0.74%	1.50%	1.47%	1.48%	2.26%	2.21%	2.22%
2020	34,795	467,617	502,412	36,154	485,347	521,500	37,556	503,631	541,187	0.74%	0.73%	0.73%	1.48%	1.46%	1.46%	2.22%	2.19%	2.19%
2021	35,050	470,996	506,046	36,683	492,369	529,052	38,382	514,575	552,957	0.73%	0.72%	0.72%	1.46%	1.45%	1.45%	2.20%	2.17%	2.17%
2022	35,304	474,379	509,683	37,216	499,452	536,668	39,220	525,694	564,914	0.72%	0.72%	0.72%	1.45%	1.44%	1.44%	2.18%	2.16%	2.16%
2023	35,557	477,762	513,320	37,751	506,588	544,340	40,068	536,979	577,047	0.72%	0.71%	0.71%	1.44%	1.43%	1.43%	2.16%	2.15%	2.15%
2024	35,811	481,155	516,966	38,292	513,795	552,087	40,930	548,459	589,389	0.71%	0.71%	0.71%	1.43%	1.42%	1.42%	2.15%	2.14%	2.14%
2025	36,064	484,544	520,609	38,834	521,049	559,883	41,803	560,096	601,899	0.71%	0.70%	0.70%	1.42%	1.41%	1.41%	2.13%	2.12%	2.12%
2026	36,317	487,934	524,251	39,381	528,355	567,735	42,688	571,902	614,590	0.70%	0.70%	0.70%	1.41%	1.40%	1.40%	2.12%	2.11%	2.11%
2027	36,570	491,327	527,897	39,931	535,721	575,653	43,586	583,891	627,478	0.70%	0.70%	0.70%	1.40%	1.39%	1.39%	2.10%	2.10%	2.10%
2028	36,823	494,718	531,541	40,486	543,135	583,620	44,497	596,043	640,540	0.69%	0.69%	0.69%	1.39%	1.38%	1.38%	2.09%	2.08%	2.08%
2029	37,075	498,105	535,180	41,042	550,592	591,635	45,419	608,353	653,772	0.68%	0.68%	0.68%	1.38%	1.37%	1.37%	2.07%	2.07%	2.07%
2030	37,327	501,490	538,817	41,603	558,099	599,701	46,353	620,831	667,184	0.68%	0.68%	0.68%	1.37%	1.36%	1.36%	2.06%	2.05%	2.05%
2031	37,578	504,853	542,431	42,164	565,609	607,773	47,296	633,404	680,700	0.67%	0.67%	0.67%	1.35%	1.35%	1.35%	2.03%	2.03%	2.03%
2032	37,827	508,192	546,019	42,726	573,117	615,843	48,246	646,060	694,306	0.66%	0.66%	0.66%	1.33%	1.33%	1.33%	2.01%	2.00%	2.00%
2033	38,074	511,506	549,580	43,288	580,620	623,908	49,202	658,796	707,998	0.65%	0.65%	0.65%	1.31%	1.31%	1.31%	1.98%	1.97%	1.97%
2034	38,319	514,794	553,113	43,849	588,114	631,963	50,165	671,602	721,767	0.64%	0.64%	0.64%	1.30%	1.29%	1.29%	1.96%	1.94%	1.94%
2035	38,564	518,065	556,628	44,412	595,621	640,033	51,138	684,517	735,655	0.64%	0.64%	0.64%	1.28%	1.28%	1.28%	1.94%	1.92%	1.92%
2036	38,807	521,312	560,118	44,976	603,122	648,097	52,117	697,509	749,626	0.63%	0.63%	0.63%	1.27%	1.26%	1.26%	1.91%	1.90%	1.90%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	30,701,401	16,512,390	47,213,792	31,107,461	16,842,892	47,950,354	31,516,189	17,176,721	48,692,910	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	30,904,950	16,663,477	47,568,428	31,519,943	17,151,241	48,671,184	32,143,041	17,648,600	49,791,641	0.66%	0.91%	0.75%	1.33%	1.83%	1.50%	1.99%	2.75%	2.26%
2019	31,109,702	16,811,060	47,920,762	31,937,595	17,455,252	49,392,847	32,781,903	18,118,151	50,900,055	0.66%	0.89%	0.74%	1.33%	1.77%	1.48%	1.99%	2.66%	2.23%
2020	31,458,280	17,028,581	48,486,861	32,507,609	17,832,372	50,339,981	33,584,754	18,666,902	52,251,656	1.12%	1.29%	1.18%	1.78%	2.16%	1.92%	2.45%	3.03%	2.66%
2021	31,522,095	17,099,121	48,621,215	32,787,117	18,056,705	50,843,822	34,094,166	19,059,648	53,153,814	0.20%	0.41%	0.28%	0.86%	1.26%	1.00%	1.52%	2.10%	1.73%
2022	31,729,767	17,241,657	48,971,425	33,219,132	18,358,265	51,577,397	34,768,021	19,537,916	54,305,937	0.66%	0.83%	0.72%	1.32%	1.67%	1.44%	1.98%	2.51%	2.17%
2023	31,938,285	17,383,176	49,321,461	33,655,742	18,660,284	52,316,026	35,453,472	20,021,061	55,474,533	0.66%	0.82%	0.71%	1.31%	1.65%	1.43%	1.97%	2.47%	2.15%
2024	32,294,352	17,599,824	49,894,176	34,252,638	19,046,137	53,298,775	36,315,774	20,600,321	56,916,096	1.11%	1.25%	1.16%	1.77%	2.07%	1.88%	2.43%	2.89%	2.60%
2025	32,357,450	17,665,233	50,022,683	34,542,031	19,270,002	53,812,034	36,858,469	21,008,969	57,867,438	0.20%	0.37%	0.26%	0.84%	1.18%	0.96%	1.49%	1.98%	1.67%
2026	32,567,464	17,805,507	50,372,971	34,990,418	19,577,107	54,567,526	37,576,154	21,512,876	59,089,029	0.65%	0.79%	0.70%	1.30%	1.59%	1.40%	1.95%	2.40%	2.11%
2027	32,777,670	17,945,976	50,723,646	35,442,109	19,887,211	55,329,320	38,303,758	22,025,939	60,329,697	0.65%	0.79%	0.70%	1.29%	1.58%	1.40%	1.94%	2.38%	2.10%
2028	33,138,152	18,163,990	51,302,142	36,059,995	20,286,448	56,346,442	39,218,052	22,644,116	61,862,168	1.10%	1.21%	1.14%	1.74%	2.01%	1.84%	2.39%	2.81%	2.54%
2029	33,197,719	18,226,131	51,423,850	36,353,389	20,513,447	56,866,836	39,785,733	23,074,985	62,860,718	0.18%	0.34%	0.24%	0.81%	1.12%	0.92%	1.45%	1.90%	1.61%
2030	33,407,632	18,365,890	51,773,523	36,813,122	20,829,715	57,642,837	40,540,442	23,611,292	64,151,734	0.63%	0.77%	0.68%	1.26%	1.54%	1.36%	1.90%	2.32%	2.05%
2031	33,615,387	18,505,642	52,121,029	37,270,988	21,148,540	58,419,528	41,296,779	24,156,320	65,453,099	0.62%	0.76%	0.67%	1.24%	1.53%	1.35%	1.87%	2.31%	2.03%
2032	33,975,311	18,725,122	52,700,434	37,899,093	21,561,433	59,460,525	42,246,507	24,815,115	67,061,622	1.07%	1.19%	1.11%	1.69%	1.95%	1.78%	2.30%	2.73%	2.46%
2033	34,024,710	18,783,862	52,808,573	38,181,406	21,790,950	59,972,356	42,814,478	25,267,788	68,082,266	0.15%	0.31%	0.21%	0.74%	1.06%	0.86%	1.34%	1.82%	1.52%
2034	34,226,224	18,922,188	53,148,413	38,633,671	22,114,159	60,747,830	43,575,194	25,833,637	69,408,831	0.59%	0.74%	0.64%	1.18%	1.48%	1.29%	1.78%	2.24%	1.95%
2035	34,425,796	19,060,868	53,486,664	39,084,212	22,440,721	61,524,933	44,337,447	26,409,805	70,747,253	0.58%	0.73%	0.64%	1.17%	1.48%	1.28%	1.75%	2.23%	1.93%
2036	34,781,532	19,281,395	54,062,928	39,713,663	22,866,257	62,579,920	45,307,398	27,108,539	72,415,937	1.03%	1.16%	1.08%	1.61%	1.90%	1.71%	2.19%	2.65%	2.36%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	43,080	5,133	48,213	43,650	5,237	48,887	44,224	5,342	49,566	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	43,366	5,180	48,546	44,229	5,334	49,563	45,103	5,491	50,595	0.66%	0.93%	0.69%	1.33%	1.86%	1.38%	1.99%	2.79%	2.08%
2019	43,653	5,227	48,880	44,815	5,431	50,246	46,000	5,640	51,640	0.66%	0.90%	0.69%	1.33%	1.81%	1.38%	1.99%	2.71%	2.07%
2020	43,942	5,273	49,215	45,408	5,526	50,934	46,912	5,789	52,701	0.66%	0.88%	0.68%	1.32%	1.76%	1.37%	1.98%	2.64%	2.06%
2021	44,232	5,319	49,550	46,007	5,622	51,629	47,841	5,939	53,780	0.66%	0.86%	0.68%	1.32%	1.73%	1.36%	1.98%	2.59%	2.05%
2022	44,523	5,364	49,887	46,613	5,717	52,331	48,786	6,091	54,877	0.66%	0.85%	0.68%	1.32%	1.71%	1.36%	1.98%	2.56%	2.04%
2023	44,816	5,409	50,225	47,226	5,814	53,039	49,748	6,244	55,993	0.66%	0.84%	0.68%	1.31%	1.68%	1.35%	1.97%	2.52%	2.03%
2024	45,110	5,454	50,564	47,845	5,910	53,755	50,727	6,400	57,127	0.66%	0.83%	0.67%	1.31%	1.67%	1.35%	1.97%	2.50%	2.03%
2025	45,404	5,499	50,903	48,469	6,008	54,477	51,720	6,558	58,278	0.65%	0.82%	0.67%	1.30%	1.64%	1.34%	1.96%	2.47%	2.01%
2026	45,699	5,544	51,242	49,099	6,105	55,204	52,727	6,719	59,445	0.65%	0.81%	0.67%	1.30%	1.63%	1.33%	1.95%	2.44%	2.00%
2027	45,994	5,588	51,582	49,732	6,204	55,937	53,748	6,882	60,630	0.65%	0.81%	0.66%	1.29%	1.62%	1.33%	1.94%	2.43%	1.99%
2028	46,288	5,633	51,922	50,370	6,304	56,673	54,781	7,047	61,828	0.64%	0.80%	0.66%	1.28%	1.60%	1.32%	1.92%	2.41%	1.98%
2029	46,583	5,678	52,261	51,011	6,403	57,415	55,827	7,215	63,042	0.64%	0.79%	0.65%	1.27%	1.58%	1.31%	1.91%	2.38%	1.96%
2030	46,878	5,722	52,600	51,656	6,504	58,160	56,886	7,385	64,271	0.63%	0.79%	0.65%	1.26%	1.57%	1.30%	1.90%	2.36%	1.95%
2031	47,169	5,767	52,936	52,299	6,606	58,904	57,948	7,558	65,506	0.62%	0.78%	0.64%	1.24%	1.56%	1.28%	1.87%	2.34%	1.92%
2032	47,458	5,811	53,269	52,939	6,707	59,646	59,011	7,733	66,744	0.61%	0.77%	0.63%	1.22%	1.54%	1.26%	1.84%	2.32%	1.89%
2033	47,743	5,856	53,599	53,576	6,810	60,386	60,077	7,910	67,987	0.60%	0.76%	0.62%	1.20%	1.53%	1.24%	1.81%	2.29%	1.86%
2034	48,026	5,900	53,926	54,211	6,912	61,123	61,145	8,089	69,234	0.59%	0.75%	0.61%	1.18%	1.51%	1.22%	1.78%	2.27%	1.83%
2035	48,306	5,944	54,250	54,843	7,016	61,859	62,214	8,272	70,486	0.58%	0.75%	0.60%	1.17%	1.50%	1.20%	1.75%	2.25%	1.81%
2036	48,584	5,988	54,572	55,473	7,120	62,593	63,287	8,456	71,742	0.57%	0.74%	0.59%	1.15%	1.48%	1.19%	1.72%	2.23%	1.78%





20 Year Customer Growth Rate	
High:	44.74%
Medium:	28.04%
Low:	13.19%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Bremerton District

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	25,004,778	9,753,062	34,757,840	25,349,577	9,901,082	35,250,659	25,696,871	10,050,277	35,747,148
2018	25,170,807	9,823,672	34,994,480	25,686,428	10,044,547	35,730,974	26,209,388	10,268,867	36,478,255
2019	25,335,393	9,893,408	35,228,802	26,022,613	10,187,285	36,209,898	26,724,342	10,487,954	37,212,295
2020	25,647,621	9,962,871	35,610,492	26,513,160	10,330,496	36,843,656	27,402,877	10,709,352	38,112,229
2021	25,662,348	10,031,639	35,693,987	26,697,093	10,473,287	37,170,379	27,767,711	10,931,667	38,699,378
2022	25,825,319	10,100,404	35,925,723	27,036,575	10,617,073	37,653,648	28,297,971	11,157,098	39,455,070
2023	25,988,314	10,169,133	36,157,448	27,378,294	10,761,787	38,140,081	28,835,149	11,385,559	40,220,707
2024	26,302,664	10,237,429	36,540,093	27,882,037	10,906,574	38,788,611	29,547,942	11,615,697	41,163,639
2025	26,313,365	10,305,876	36,619,241	28,066,271	11,052,678	39,118,949	29,926,940	11,849,511	41,776,451
2026	26,475,183	10,373,838	36,849,021	28,411,996	11,198,721	39,610,717	30,480,752	12,084,796	42,565,548
2027	26,637,079	10,441,832	37,078,911	28,760,053	11,345,812	40,105,865	31,041,776	12,323,352	43,365,128
2028	26,953,545	10,509,200	37,462,745	29,276,951	11,492,507	40,769,458	31,789,431	12,562,827	44,352,257
2029	26,958,352	10,576,444	37,534,797	29,457,115	11,639,889	41,097,004	32,175,689	12,804,988	44,980,677
2030	27,117,441	10,642,912	37,760,353	29,805,408	11,786,496	41,591,903	32,747,361	13,047,408	45,794,768
2031	27,275,378	10,708,979	37,984,357	30,153,277	11,933,159	42,086,436	33,321,798	13,291,476	46,613,274
2032	27,590,470	10,774,073	38,364,543	30,675,501	12,078,568	42,754,069	34,091,842	13,534,975	47,626,818
2033	27,584,793	10,838,313	38,423,106	30,840,790	12,222,950	43,063,739	34,467,069	13,778,236	48,245,305
2034	27,736,398	10,901,609	38,638,007	31,180,549	12,366,068	43,546,617	35,037,906	14,020,817	49,058,723
2035	27,886,280	10,964,177	38,850,456	31,518,335	12,508,379	44,026,713	35,608,611	14,263,459	49,872,071
2036	28,197,332	11,026,015	39,223,346	32,039,202	12,649,850	44,689,051	36,389,289	14,506,073	50,895,362

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.66%	0.72%	0.68%	1.33%	1.45%	1.36%	1.99%	2.17%	2.05%
2019	0.65%	0.71%	0.67%	1.31%	1.42%	1.34%	1.96%	2.13%	2.01%
2020	1.23%	0.70%	1.08%	1.89%	1.41%	1.75%	2.54%	2.11%	2.42%
2021	0.06%	0.69%	0.23%	0.69%	1.38%	0.89%	1.33%	2.08%	1.54%
2022	0.64%	0.69%	0.65%	1.27%	1.37%	1.30%	1.91%	2.06%	1.95%
2023	0.63%	0.68%	0.65%	1.26%	1.36%	1.29%	1.90%	2.05%	1.94%
2024	1.21%	0.67%	1.06%	1.84%	1.35%	1.70%	2.47%	2.02%	2.34%
2025	0.04%	0.67%	0.22%	0.66%	1.34%	0.85%	1.28%	2.01%	1.49%
2026	0.61%	0.66%	0.63%	1.23%	1.32%	1.26%	1.85%	1.99%	1.89%
2027	0.61%	0.66%	0.62%	1.23%	1.31%	1.25%	1.84%	1.97%	1.88%
2028	1.19%	0.65%	1.04%	1.80%	1.29%	1.65%	2.41%	1.94%	2.28%
2029	0.02%	0.64%	0.19%	0.62%	1.28%	0.80%	1.22%	1.93%	1.42%
2030	0.59%	0.63%	0.60%	1.18%	1.26%	1.20%	1.78%	1.89%	1.81%
2031	0.58%	0.62%	0.59%	1.17%	1.24%	1.19%	1.75%	1.87%	1.79%
2032	1.16%	0.61%	1.00%	1.73%	1.22%	1.59%	2.31%	1.83%	2.17%
2033	-0.02%	0.60%	0.15%	0.54%	1.20%	0.72%	1.10%	1.80%	1.30%
2034	0.55%	0.58%	0.56%	1.10%	1.17%	1.12%	1.66%	1.76%	1.69%
2035	0.54%	0.57%	0.55%	1.08%	1.15%	1.10%	1.63%	1.73%	1.66%
2036	1.12%	0.56%	0.96%	1.65%	1.13%	1.50%	2.19%	1.70%	2.05%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	26,721	320,113	346,834	27,126	324,559	351,685	27,535	329,037	356,572
2018	26,914	322,256	349,170	27,519	328,906	356,425	28,134	335,652	363,786
2019	27,105	324,380	351,485	27,910	333,246	361,157	28,734	342,301	371,035
2020	27,296	326,498	353,793	28,303	337,602	365,905	29,341	349,020	378,360
2021	27,484	328,601	356,085	28,694	341,956	370,650	29,950	355,778	385,728
2022	27,672	330,705	358,377	29,088	346,341	375,428	30,567	362,630	393,197
2023	27,861	332,809	360,669	29,484	350,753	380,238	31,193	369,569	400,763
2024	28,048	334,905	362,952	29,881	355,178	385,059	31,824	376,572	408,396
2025	28,235	337,003	365,239	30,281	359,636	389,918	32,464	383,674	416,138
2026	28,421	339,091	367,512	30,681	364,099	394,780	33,109	390,827	423,936
2027	28,608	341,179	369,787	31,084	368,591	399,675	33,763	398,072	431,835
2028	28,792	343,251	372,044	31,486	373,077	404,564	34,419	405,353	439,772
2029	28,977	345,320	374,297	31,890	377,583	409,473	35,082	412,711	447,793
2030	29,159	347,371	376,529	32,292	382,075	414,367	35,746	420,089	455,836
2031	29,340	349,405	378,745	32,694	386,560	419,254	36,415	427,501	463,916
2032	29,518	351,410	380,928	33,092	391,006	424,098	37,082	434,893	471,975
2033	29,694	353,390	383,084	33,488	395,421	428,908	37,749	442,274	480,023
2034	29,867	355,341	385,208	33,880	399,798	433,678	38,413	449,635	488,048
2035	30,039	357,269	387,308	34,270	404,148	438,418	39,078	456,991	496,069
2036	30,208	359,175	389,383	34,657	408,470	443,127	39,743	464,340	504,083

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.72%	0.67%	0.67%	1.45%	1.34%	1.35%	2.17%	2.01%	2.02%
2019	0.71%	0.66%	0.66%	1.42%	1.32%	1.33%	2.13%	1.98%	1.99%
2020	0.70%	0.65%	0.66%	1.41%	1.31%	1.31%	2.11%	1.96%	1.97%
2021	0.69%	0.64%	0.65%	1.38%	1.29%	1.30%	2.08%	1.94%	1.95%
2022	0.69%	0.64%	0.64%	1.37%	1.28%	1.29%	2.06%	1.93%	1.94%
2023	0.68%	0.64%	0.64%	1.36%	1.27%	1.28%	2.05%	1.91%	1.92%
2024	0.67%	0.63%	0.63%	1.35%	1.26%	1.27%	2.02%	1.89%	1.90%
2025	0.67%	0.63%	0.63%	1.34%	1.26%	1.26%	2.01%	1.89%	1.90%
2026	0.66%	0.62%	0.62%	1.32%	1.24%	1.25%	1.99%	1.86%	1.87%
2027	0.66%	0.62%	0.62%	1.31%	1.23%	1.24%	1.97%	1.85%	1.86%
2028	0.65%	0.61%	0.61%	1.29%	1.22%	1.22%	1.94%	1.83%	1.84%
2029	0.64%	0.60%	0.61%	1.28%	1.21%	1.21%	1.93%	1.82%	1.82%
2030	0.63%	0.59%	0.60%	1.26%	1.19%	1.20%	1.89%	1.79%	1.80%
2031	0.62%	0.59%	0.59%	1.24%	1.17%	1.18%	1.87%	1.76%	1.77%
2032	0.61%	0.57%	0.58%	1.22%	1.15%	1.16%	1.83%	1.73%	1.74%
2033	0.60%	0.56%	0.57%	1.20%	1.13%	1.13%	1.80%	1.70%	1.71%
2034	0.58%	0.55%	0.55%	1.17%	1.11%	1.11%	1.76%	1.66%	1.67%
2035	0.57%	0.54%	0.55%	1.15%	1.09%	1.09%	1.73%	1.64%	1.64%
2036	0.56%	0.53%	0.54%	1.13%	1.07%	1.07%	1.70%	1.61%	1.62%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	21,268,797	13,489,043	34,757,840	21,512,255	13,738,405	35,250,659	21,757,098	13,990,050	35,747,148
2018	21,390,760	13,603,720	34,994,480	21,758,972	13,972,002	35,730,974	22,131,387	14,346,869	36,478,255
2019	21,513,239	13,715,563	35,228,802	22,008,147	14,201,751	36,209,898	22,511,546	14,700,749	37,212,295
2020	21,734,224	13,876,268	35,610,492	22,360,602	14,483,054	36,843,656	23,001,339	15,110,889	38,112,229
2021	21,759,607	13,934,380	35,693,987	22,513,654	14,656,725	37,170,379	23,289,352	15,410,025	38,699,378
2022	21,883,403	14,042,320	35,925,723	22,769,826	14,883,822	37,653,648	23,686,850	15,768,220	39,455,070
2023	22,007,555	14,149,892	36,157,448	23,028,188	15,111,893	38,140,081	24,090,001	16,130,707	40,220,707
2024	22,232,276	14,307,817	36,540,093	23,394,170	15,394,441	38,788,611	24,609,730	16,553,909	41,163,639
2025	22,256,548	14,362,693	36,619,241	23,550,735	15,568,214	39,118,949	24,912,261	16,864,190	41,776,451
2026	22,380,927	14,468,094	36,849,021	23,813,957	15,796,760	39,610,717	25,329,921	17,235,627	42,565,548
2027	22,505,221	14,573,690	37,078,911	24,078,462	16,027,403	40,105,865	25,751,935	17,613,193	43,365,128
2028	22,731,602	14,731,143	37,462,745	24,453,815	16,315,643	40,769,458	26,295,776	18,056,482	44,352,257
2029	22,752,789	14,782,007	37,534,797	24,609,661	16,487,343	41,097,004	26,606,436	18,374,241	44,980,677
2030	22,876,075	14,884,278	37,760,353	24,876,355	16,715,548	41,591,903	27,038,937	18,755,832	45,794,768
2031	22,997,742	14,986,615	37,984,357	25,140,967	16,945,469	42,086,436	27,470,359	19,142,915	46,613,274
2032	23,222,329	15,142,214	38,364,543	25,518,128	17,235,941	42,754,069	28,026,306	19,600,512	47,626,818
2033	23,235,933	15,187,173	38,423,106	25,663,086	17,400,654	43,063,739	28,328,300	19,917,005	48,245,305
2034	23,352,558	15,285,449	38,638,007	25,920,700	17,625,917	43,546,617	28,754,852	20,303,871	49,058,723
2035	23,467,593	15,382,864	38,850,456	26,176,071	17,850,643	44,026,713	29,179,792	20,692,279	49,872,071
2036	23,687,964	15,535,382	39,223,346	26,549,120	18,139,931	44,689,051	29,737,495	21,157,867	50,895,362

Annual Change

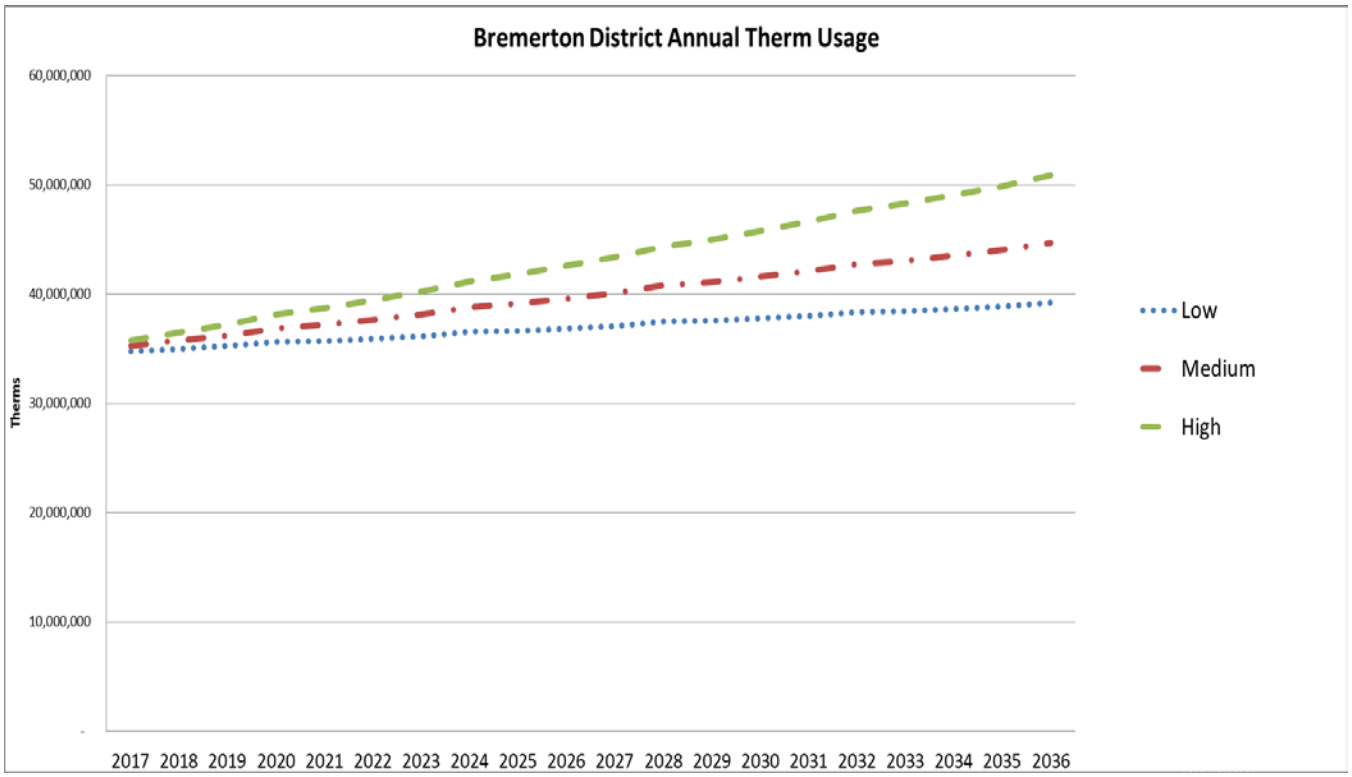
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.57%	0.85%	0.68%	1.15%	1.70%	1.36%	1.72%	2.55%	2.05%
2019	0.57%	0.82%	0.67%	1.15%	1.64%	1.34%	1.72%	2.47%	2.01%
2020	1.03%	1.17%	1.08%	1.60%	1.98%	1.75%	2.18%	2.79%	2.42%
2021	0.12%	0.42%	0.23%	0.68%	1.20%	0.89%	1.25%	1.98%	1.54%
2022	0.57%	0.77%	0.65%	1.14%	1.55%	1.30%	1.71%	2.32%	1.95%
2023	0.57%	0.77%	0.65%	1.13%	1.53%	1.29%	1.70%	2.30%	1.94%
2024	1.02%	1.12%	1.06%	1.59%	1.87%	1.70%	2.16%	2.62%	2.34%
2025	0.11%	0.38%	0.22%	0.67%	1.13%	0.85%	1.23%	1.87%	1.49%
2026	0.56%	0.73%	0.63%	1.12%	1.47%	1.26%	1.68%	2.20%	1.89%
2027	0.56%	0.73%	0.62%	1.11%	1.46%	1.25%	1.67%	2.19%	1.88%
2028	1.01%	1.08%	1.04%	1.56%	1.80%	1.65%	2.11%	2.52%	2.28%
2029	0.09%	0.35%	0.19%	0.64%	1.05%	0.80%	1.18%	1.76%	1.42%
2030	0.54%	0.69%	0.60%	1.08%	1.38%	1.20%	1.63%	2.08%	1.81%
2031	0.53%	0.69%	0.59%	1.06%	1.38%	1.19%	1.60%	2.06%	1.79%
2032	0.98%	1.04%	1.00%	1.50%	1.71%	1.59%	2.02%	2.39%	2.17%
2033	0.06%	0.30%	0.15%	0.57%	0.96%	0.72%	1.08%	1.61%	1.30%
2034	0.50%	0.65%	0.56%	1.00%	1.29%	1.12%	1.51%	1.94%	1.69%
2035	0.49%	0.64%	0.55%	0.99%	1.27%	1.10%	1.48%	1.91%	1.66%
2036	0.94%	0.99%	0.96%	1.43%	1.62%	1.50%	1.91%	2.25%	2.05%

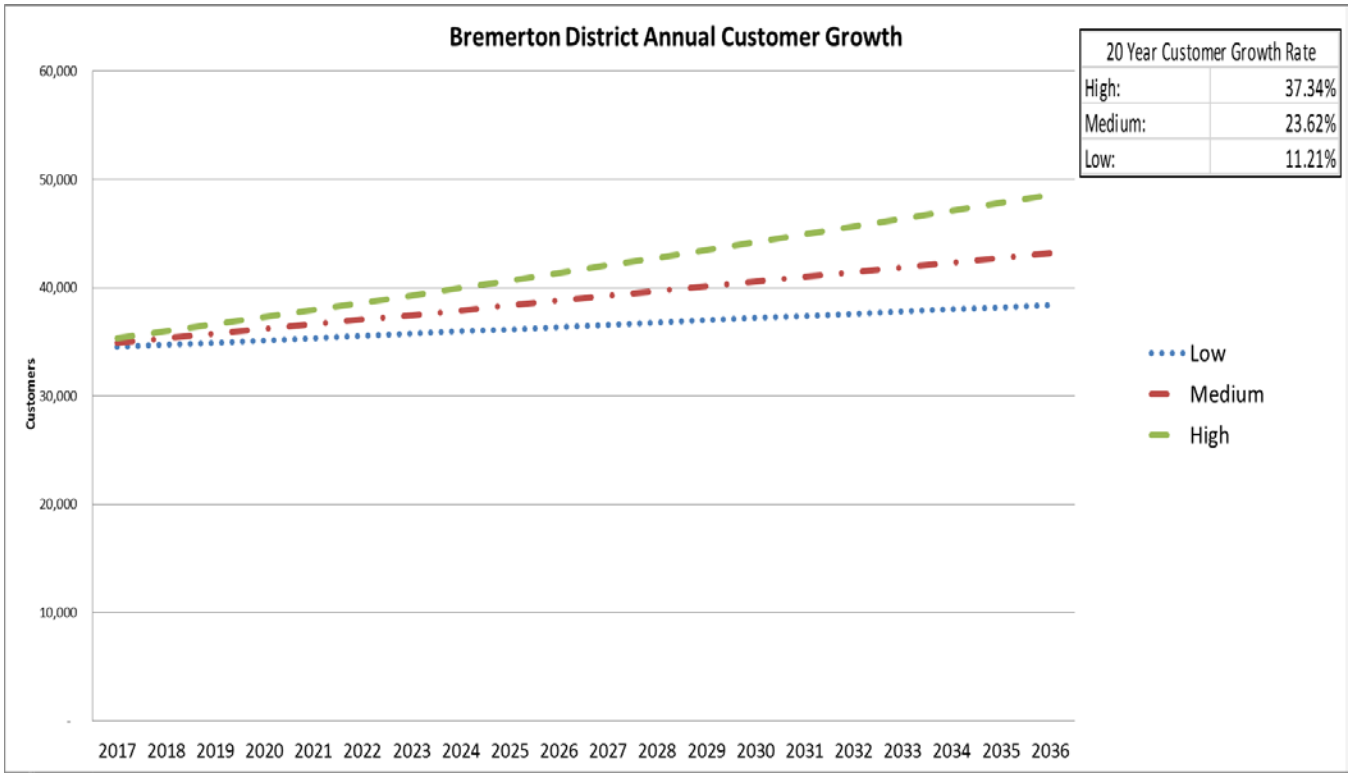
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	31,516	3,009	34,525	31,877	3,065	34,941	32,240	3,121	35,360
2018	31,697	3,034	34,731	32,242	3,116	35,359	32,794	3,200	35,994
2019	31,878	3,059	34,937	32,612	3,167	35,778	33,358	3,278	36,635
2020	32,060	3,083	35,144	32,984	3,217	36,202	33,930	3,356	37,286
2021	32,243	3,107	35,350	33,361	3,267	36,628	34,510	3,434	37,944
2022	32,427	3,131	35,558	33,740	3,317	37,057	35,099	3,513	38,612
2023	32,611	3,155	35,765	34,123	3,367	37,490	35,696	3,593	39,289
2024	32,795	3,178	35,973	34,509	3,417	37,927	36,302	3,673	39,975
2025	32,980	3,202	36,181	34,897	3,468	38,366	36,915	3,755	40,669
2026	33,164	3,225	36,389	35,287	3,519	38,806	37,534	3,837	41,371
2027	33,348	3,248	36,597	35,679	3,570	39,249	38,159	3,921	42,080
2028	33,532	3,272	36,803	36,072	3,621	39,693	38,789	4,005	42,794
2029	33,715	3,295	37,010	36,467	3,673	40,139	39,425	4,090	43,515
2030	33,898	3,318	37,215	36,862	3,724	40,585	40,066	4,175	44,241
2031	34,078	3,341	37,419	37,254	3,775	41,029	40,705	4,262	44,967
2032	34,256	3,363	37,619	37,642	3,826	41,468	41,342	4,349	45,691
2033	34,431	3,386	37,817	38,027	3,877	41,905	41,977	4,436	46,413
2034	34,604	3,408	38,012	38,409	3,928	42,337	42,609	4,523	47,132
2035	34,774	3,430	38,204	38,788	3,979	42,767	43,239	4,611	47,850
2036	34,942	3,452	38,395	39,163	4,030	43,193	43,866	4,699	48,565

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.57%	0.84%	0.60%	1.15%	1.69%	1.19%	1.72%	2.53%	1.79%
2019	0.57%	0.81%	0.59%	1.15%	1.62%	1.19%	1.72%	2.44%	1.78%
2020	0.57%	0.80%	0.59%	1.14%	1.60%	1.18%	1.72%	2.39%	1.78%
2021	0.57%	0.77%	0.59%	1.14%	1.54%	1.18%	1.71%	2.32%	1.77%
2022	0.57%	0.76%	0.59%	1.14%	1.53%	1.17%	1.71%	2.29%	1.76%
2023	0.57%	0.76%	0.58%	1.13%	1.52%	1.17%	1.70%	2.28%	1.75%
2024	0.57%	0.74%	0.58%	1.13%	1.49%	1.16%	1.70%	2.23%	1.75%
2025	0.56%	0.74%	0.58%	1.13%	1.48%	1.16%	1.69%	2.23%	1.74%
2026	0.56%	0.73%	0.57%	1.12%	1.46%	1.15%	1.68%	2.19%	1.72%
2027	0.56%	0.73%	0.57%	1.11%	1.46%	1.14%	1.67%	2.18%	1.71%
2028	0.55%	0.71%	0.57%	1.10%	1.43%	1.13%	1.65%	2.14%	1.70%
2029	0.55%	0.71%	0.56%	1.09%	1.42%	1.12%	1.64%	2.13%	1.69%
2030	0.54%	0.69%	0.56%	1.08%	1.39%	1.11%	1.63%	2.08%	1.67%
2031	0.53%	0.69%	0.55%	1.06%	1.38%	1.09%	1.60%	2.08%	1.64%
2032	0.52%	0.68%	0.54%	1.04%	1.36%	1.07%	1.56%	2.04%	1.61%
2033	0.51%	0.67%	0.53%	1.02%	1.34%	1.05%	1.54%	2.00%	1.58%
2034	0.50%	0.66%	0.52%	1.00%	1.31%	1.03%	1.51%	1.97%	1.55%
2035	0.49%	0.65%	0.51%	0.99%	1.30%	1.01%	1.48%	1.94%	1.52%
2036	0.48%	0.64%	0.50%	0.97%	1.28%	1.00%	1.45%	1.91%	1.50%





20 Year Customer Growth Rate	
High:	37.34%
Medium:	23.62%
Low:	11.21%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Central Oregon (Bend) District

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	40,747,080	12,660,324	53,407,404	41,638,120	12,946,152	54,584,273	42,539,285	13,235,307	55,774,591
2018	41,177,795	12,797,192	53,974,987	42,519,344	13,226,334	55,745,678	43,891,158	13,665,364	57,556,521
2019	41,608,058	12,933,385	54,541,443	43,409,309	13,508,248	56,917,557	45,271,288	14,102,863	59,374,151
2020	42,278,529	13,069,254	55,347,783	44,562,295	13,792,602	58,354,897	46,948,563	14,548,987	61,497,550
2021	42,469,162	13,205,163	55,674,325	45,219,899	14,080,169	59,300,068	48,124,897	15,005,046	63,129,943
2022	42,901,696	13,341,383	56,243,079	46,144,201	14,371,518	60,515,718	49,605,021	15,472,075	65,077,095
2023	43,333,628	13,477,130	56,810,757	47,077,655	14,665,031	61,742,687	51,115,923	15,947,633	67,063,555
2024	44,017,052	13,613,114	57,630,166	48,298,282	14,962,162	63,260,444	52,964,363	16,434,115	69,398,477
2025	44,199,943	13,748,858	57,948,801	48,979,293	15,261,928	64,241,220	54,242,355	16,930,079	71,172,435
2026	44,633,366	13,884,540	58,517,906	49,946,052	15,564,700	65,510,752	55,856,667	17,436,216	73,292,883
2027	45,066,927	14,020,167	59,087,094	50,923,163	15,870,508	66,793,672	57,505,089	17,952,720	75,457,809
2028	45,761,557	14,155,951	59,917,508	52,209,444	16,179,795	68,389,239	59,529,857	18,480,400	78,010,257
2029	45,936,769	14,292,044	60,228,814	52,913,654	16,492,948	69,406,602	60,914,462	19,020,090	79,934,552
2030	46,372,158	14,428,008	60,800,166	53,925,508	16,809,019	70,734,527	62,674,008	19,570,344	82,244,353
2031	46,807,736	14,564,152	61,371,887	54,947,621	17,128,633	72,076,253	64,468,922	20,132,259	84,601,181
2032	47,512,364	14,699,938	62,212,302	56,298,066	17,450,599	73,748,665	66,675,587	20,703,914	87,379,501
2033	47,675,369	14,835,427	62,510,796	57,014,669	17,775,047	74,789,715	68,153,157	21,285,663	89,438,819
2034	48,108,044	14,970,788	63,078,832	58,060,707	18,102,358	76,163,065	70,044,911	21,878,252	91,923,163
2035	48,539,991	15,106,147	63,646,138	59,115,222	18,432,836	77,548,058	71,970,558	22,482,340	94,452,898
2036	49,252,069	15,241,343	64,493,412	60,524,423	18,766,071	79,290,494	74,356,710	23,097,267	97,453,976

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.06%	1.08%	1.06%	2.12%	2.16%	2.13%	3.18%	3.25%	3.19%
2019	1.04%	1.06%	1.05%	2.09%	2.13%	2.10%	3.14%	3.20%	3.16%
2020	1.61%	1.05%	1.48%	2.66%	2.11%	2.53%	3.70%	3.16%	3.58%
2021	0.45%	1.04%	0.59%	1.48%	2.08%	1.62%	2.51%	3.13%	2.65%
2022	1.02%	1.03%	1.02%	2.04%	2.07%	2.05%	3.08%	3.11%	3.08%
2023	1.01%	1.02%	1.01%	2.02%	2.04%	2.03%	3.05%	3.07%	3.05%
2024	1.58%	1.01%	1.44%	2.59%	2.03%	2.46%	3.62%	3.05%	3.48%
2025	0.42%	1.00%	0.55%	1.41%	2.00%	1.55%	2.41%	3.02%	2.56%
2026	0.98%	0.99%	0.98%	1.97%	1.98%	1.98%	2.98%	2.99%	2.98%
2027	0.97%	0.98%	0.97%	1.96%	1.96%	1.96%	2.95%	2.96%	2.95%
2028	1.54%	0.97%	1.41%	2.53%	1.95%	2.39%	3.52%	2.94%	3.38%
2029	0.38%	0.96%	0.52%	1.35%	1.94%	1.49%	2.33%	2.92%	2.47%
2030	0.95%	0.95%	0.95%	1.91%	1.92%	1.91%	2.89%	2.89%	2.89%
2031	0.94%	0.94%	0.94%	1.90%	1.90%	1.90%	2.86%	2.87%	2.87%
2032	1.51%	0.93%	1.37%	2.46%	1.88%	2.32%	3.42%	2.84%	3.28%
2033	0.34%	0.92%	0.48%	1.27%	1.86%	1.41%	2.22%	2.81%	2.36%
2034	0.91%	0.91%	0.91%	1.83%	1.84%	1.84%	2.78%	2.78%	2.78%
2035	0.90%	0.90%	0.90%	1.82%	1.83%	1.82%	2.75%	2.76%	2.75%
2036	1.47%	0.89%	1.33%	2.38%	1.81%	2.25%	3.32%	2.74%	3.18%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	34,686	630,086	664,771	35,469	643,827	679,296	36,261	657,724	693,985
2018	35,061	636,727	671,788	36,237	657,414	693,651	37,439	678,567	716,006
2019	35,434	643,361	678,794	37,009	671,135	708,144	38,638	699,844	738,481
2020	35,806	649,993	685,799	37,788	685,002	722,790	39,860	721,580	761,440
2021	36,179	656,634	692,813	38,576	699,042	737,618	41,110	743,824	784,934
2022	36,552	663,301	699,853	39,374	713,287	752,661	42,389	766,634	809,023
2023	36,924	669,958	706,881	40,178	727,672	767,850	43,692	789,914	833,606
2024	37,296	676,634	713,931	40,992	742,247	783,239	45,025	813,748	858,773
2025	37,668	683,309	720,977	41,814	756,975	798,788	46,384	838,085	884,469
2026	38,040	689,988	728,028	42,643	771,870	814,513	47,770	862,954	910,725
2027	38,411	696,669	735,081	43,481	786,926	830,407	49,186	888,349	937,535
2028	38,783	703,363	742,147	44,328	802,163	846,491	50,631	914,311	964,943
2029	39,156	710,074	749,230	45,186	817,593	862,779	52,110	940,869	992,979
2030	39,529	716,782	756,311	46,052	833,181	879,234	53,617	967,971	1,021,589
2031	39,902	723,494	763,396	46,928	848,928	895,856	55,157	995,619	1,050,776
2032	40,274	730,187	770,460	47,810	864,790	912,599	56,723	1,023,745	1,080,468
2033	40,645	736,863	777,508	48,699	880,771	929,470	58,317	1,052,364	1,110,681
2034	41,016	743,530	784,546	49,596	896,884	946,480	59,940	1,081,498	1,141,438
2035	41,387	750,185	791,572	50,501	913,128	963,629	61,595	1,111,154	1,172,749
2036	41,757	756,837	798,594	51,414	929,517	980,931	63,280	1,141,357	1,204,637

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.08%	1.05%	1.06%	2.16%	2.11%	2.11%	3.25%	3.17%	3.17%
2019	1.06%	1.04%	1.04%	2.13%	2.09%	2.09%	3.20%	3.14%	3.14%
2020	1.05%	1.03%	1.03%	2.11%	2.07%	2.07%	3.16%	3.11%	3.11%
2021	1.04%	1.02%	1.02%	2.08%	2.05%	2.05%	3.13%	3.08%	3.09%
2022	1.03%	1.02%	1.02%	2.07%	2.04%	2.04%	3.11%	3.07%	3.07%
2023	1.02%	1.00%	1.00%	2.04%	2.02%	2.02%	3.07%	3.04%	3.04%
2024	1.01%	1.00%	1.00%	2.03%	2.00%	2.00%	3.05%	3.02%	3.02%
2025	1.00%	0.99%	0.99%	2.00%	1.98%	1.99%	3.02%	2.99%	2.99%
2026	0.99%	0.98%	0.98%	1.98%	1.97%	1.97%	2.99%	2.97%	2.97%
2027	0.98%	0.97%	0.97%	1.96%	1.95%	1.95%	2.96%	2.94%	2.94%
2028	0.97%	0.96%	0.96%	1.95%	1.94%	1.94%	2.94%	2.92%	2.92%
2029	0.96%	0.95%	0.95%	1.94%	1.92%	1.92%	2.92%	2.90%	2.91%
2030	0.95%	0.94%	0.95%	1.92%	1.91%	1.91%	2.89%	2.88%	2.88%
2031	0.94%	0.94%	0.94%	1.90%	1.89%	1.89%	2.87%	2.86%	2.86%
2032	0.93%	0.92%	0.93%	1.88%	1.87%	1.87%	2.84%	2.82%	2.83%
2033	0.92%	0.91%	0.91%	1.86%	1.85%	1.85%	2.81%	2.80%	2.80%
2034	0.91%	0.90%	0.91%	1.84%	1.83%	1.83%	2.78%	2.77%	2.77%
2035	0.90%	0.90%	0.90%	1.83%	1.81%	1.81%	2.76%	2.74%	2.74%
2036	0.89%	0.89%	0.89%	1.81%	1.79%	1.80%	2.74%	2.72%	2.72%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	31,524,030	21,883,374	53,407,404	32,167,472	22,416,801	54,584,273	32,817,598	22,956,993	55,774,591
2018	31,846,339	22,128,648	53,974,987	32,825,624	22,920,054	55,745,678	33,825,340	23,731,181	57,556,521
2019	32,171,356	22,370,086	54,541,443	33,496,219	23,421,337	56,917,557	34,862,723	24,511,428	59,374,151
2020	32,645,098	22,702,685	55,347,783	34,332,690	24,022,207	58,354,897	36,091,297	25,406,252	61,497,550
2021	32,828,688	22,845,637	55,674,325	34,873,700	24,426,368	59,300,068	37,026,723	26,103,220	63,129,943
2022	33,161,073	23,082,006	56,243,079	35,581,057	24,934,661	60,515,718	38,155,046	26,922,050	65,077,095
2023	33,495,600	23,315,157	56,810,757	36,300,324	25,442,363	61,742,687	39,314,102	27,749,454	67,063,555
2024	33,984,920	23,645,246	57,630,166	37,199,090	26,061,354	63,260,444	40,688,132	28,710,345	69,398,477
2025	34,171,434	23,777,367	57,948,801	37,775,945	26,465,275	64,241,220	41,728,539	29,443,895	71,172,435
2026	34,512,072	24,005,834	58,517,906	38,531,123	26,979,629	65,510,752	42,982,960	30,309,923	73,292,883
2027	34,854,143	24,232,951	59,087,094	39,297,209	27,496,463	66,793,672	44,268,356	31,189,453	75,457,809
2028	35,356,072	24,561,435	59,917,508	40,254,620	28,134,619	68,389,239	45,790,366	32,219,892	78,010,257
2029	35,542,450	24,686,364	60,228,814	40,862,169	28,544,433	69,406,602	46,933,861	33,000,691	79,934,552
2030	35,888,676	24,911,490	60,800,166	41,661,237	29,073,291	70,734,527	48,315,187	33,929,166	82,244,353
2031	36,234,030	25,137,857	61,371,887	42,466,252	29,610,001	72,076,253	49,720,578	34,880,603	84,601,181
2032	36,743,119	25,469,183	62,212,302	43,471,836	30,276,829	73,748,665	51,380,127	35,999,375	87,379,501
2033	36,922,126	25,588,670	62,510,796	44,093,956	30,695,759	74,789,715	52,604,028	36,834,791	89,438,819
2034	37,264,967	25,813,865	63,078,832	44,916,788	31,246,278	76,163,065	54,082,719	37,840,444	91,923,163
2035	37,606,961	26,039,177	63,646,138	45,745,427	31,802,631	77,548,058	55,585,964	38,866,934	94,452,898
2036	38,119,133	26,374,279	64,493,412	46,789,987	32,500,507	79,290,494	57,371,836	40,082,141	97,453,976

Annual Change

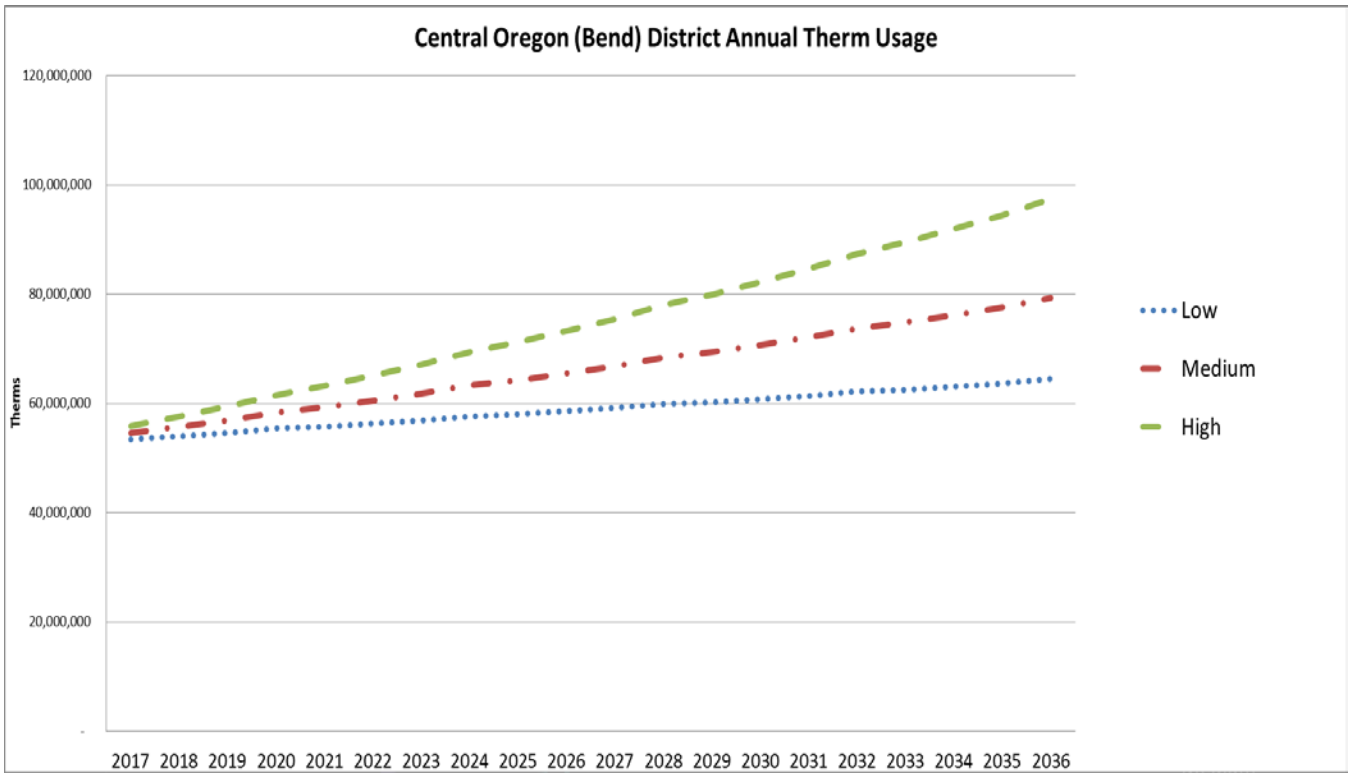
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.02%	1.12%	1.06%	2.05%	2.24%	2.13%	3.07%	3.37%	3.19%
2019	1.02%	1.09%	1.05%	2.04%	2.19%	2.10%	3.07%	3.29%	3.16%
2020	1.47%	1.49%	1.48%	2.50%	2.57%	2.53%	3.52%	3.65%	3.58%
2021	0.56%	0.63%	0.59%	1.58%	1.68%	1.62%	2.59%	2.74%	2.65%
2022	1.01%	1.03%	1.02%	2.03%	2.08%	2.05%	3.05%	3.14%	3.08%
2023	1.01%	1.01%	1.01%	2.02%	2.04%	2.03%	3.04%	3.07%	3.05%
2024	1.46%	1.42%	1.44%	2.48%	2.43%	2.46%	3.50%	3.46%	3.48%
2025	0.55%	0.56%	0.55%	1.55%	1.55%	1.55%	2.56%	2.56%	2.56%
2026	1.00%	0.96%	0.98%	2.00%	1.94%	1.98%	3.01%	2.94%	2.98%
2027	0.99%	0.95%	0.97%	1.99%	1.92%	1.96%	2.99%	2.90%	2.95%
2028	1.44%	1.36%	1.41%	2.44%	2.32%	2.39%	3.44%	3.30%	3.38%
2029	0.53%	0.51%	0.52%	1.51%	1.46%	1.49%	2.50%	2.42%	2.47%
2030	0.97%	0.91%	0.95%	1.96%	1.85%	1.91%	2.94%	2.81%	2.89%
2031	0.96%	0.91%	0.94%	1.93%	1.85%	1.90%	2.91%	2.80%	2.87%
2032	1.41%	1.32%	1.37%	2.37%	2.25%	2.32%	3.34%	3.21%	3.28%
2033	0.49%	0.47%	0.48%	1.43%	1.38%	1.41%	2.38%	2.32%	2.36%
2034	0.93%	0.88%	0.91%	1.87%	1.79%	1.84%	2.81%	2.73%	2.78%
2035	0.92%	0.87%	0.90%	1.84%	1.78%	1.82%	2.78%	2.71%	2.75%
2036	1.36%	1.29%	1.33%	2.28%	2.19%	2.25%	3.21%	3.13%	3.18%

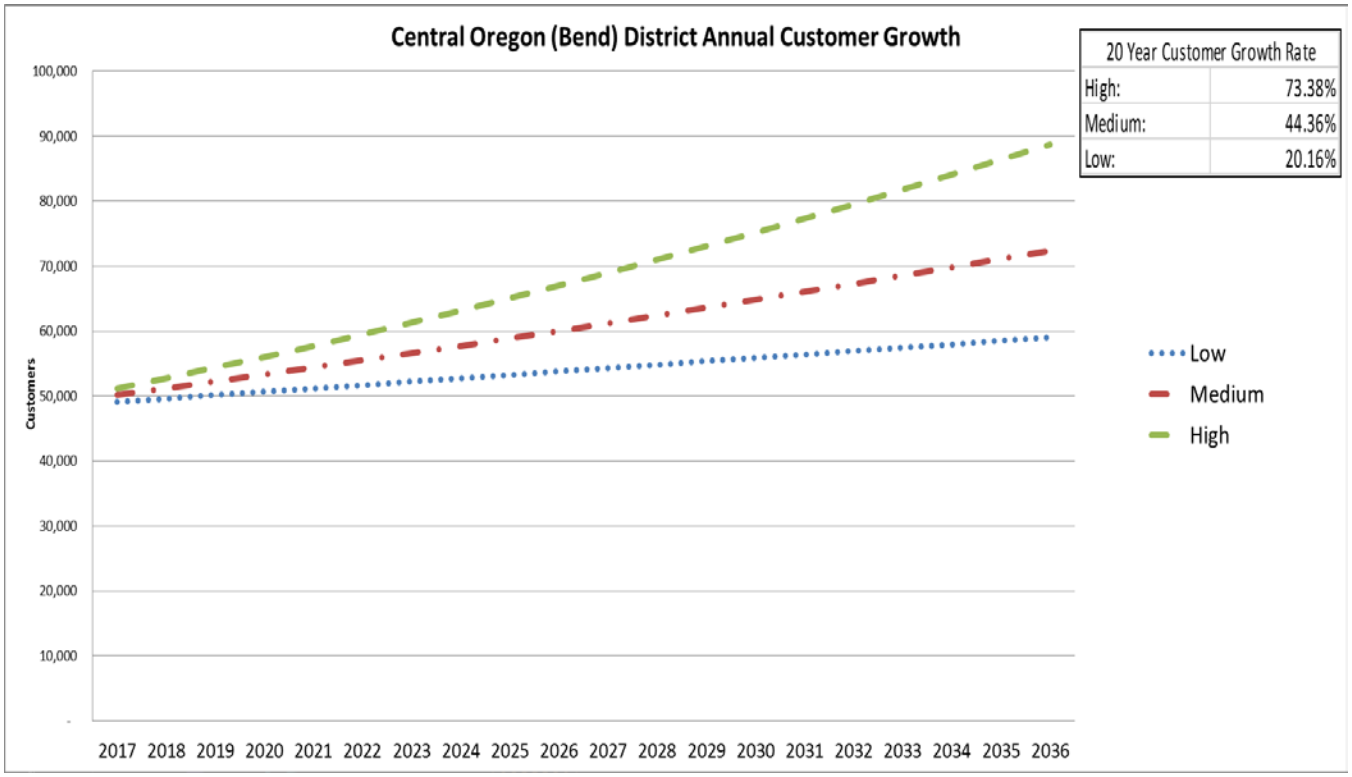
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	42,406	6,732	49,138	43,253	6,905	50,158	44,108	7,081	51,189
2018	42,830	6,812	49,642	44,119	7,070	51,189	45,434	7,334	52,768
2019	43,258	6,891	50,149	45,001	7,235	52,235	46,798	7,591	54,389
2020	43,688	6,970	50,658	45,898	7,400	53,298	48,201	7,852	56,053
2021	44,122	7,048	51,171	46,812	7,567	54,379	49,643	8,118	57,761
2022	44,559	7,127	51,686	47,742	7,736	55,478	51,126	8,390	59,516
2023	44,999	7,204	52,204	48,688	7,905	56,592	52,649	8,666	61,315
2024	45,443	7,282	52,724	49,650	8,075	57,725	54,214	8,947	63,161
2025	45,888	7,359	53,247	50,627	8,246	58,873	55,820	9,233	65,052
2026	46,336	7,435	53,771	51,619	8,419	60,037	57,467	9,523	66,990
2027	46,785	7,511	54,297	52,625	8,592	61,217	59,153	9,818	68,972
2028	47,237	7,588	54,824	53,645	8,767	62,412	60,881	10,120	71,001
2029	47,690	7,664	55,353	54,679	8,944	63,623	62,650	10,428	73,078
2030	48,144	7,740	55,884	55,728	9,122	64,850	64,462	10,741	75,203
2031	48,598	7,816	56,414	56,784	9,303	66,087	66,304	11,062	77,366
2032	49,050	7,892	56,942	57,847	9,485	67,332	68,177	11,389	79,566
2033	49,501	7,968	57,469	58,918	9,669	68,587	70,081	11,722	81,804
2034	49,951	8,044	57,994	59,997	9,854	69,851	72,018	12,063	84,080
2035	50,399	8,120	58,519	61,082	10,042	71,125	73,986	12,410	86,396
2036	50,847	8,196	59,042	62,176	10,232	72,408	75,986	12,765	88,751

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	1.00%	1.19%	1.03%	2.00%	2.39%	2.06%	3.01%	3.58%	3.09%
2019	1.00%	1.16%	1.02%	2.00%	2.33%	2.04%	3.00%	3.49%	3.07%
2020	1.00%	1.14%	1.02%	2.00%	2.29%	2.04%	3.00%	3.44%	3.06%
2021	0.99%	1.12%	1.01%	1.99%	2.25%	2.03%	2.99%	3.39%	3.05%
2022	0.99%	1.11%	1.01%	1.99%	2.23%	2.02%	2.99%	3.35%	3.04%
2023	0.99%	1.09%	1.00%	1.98%	2.19%	2.01%	2.98%	3.29%	3.02%
2024	0.98%	1.07%	1.00%	1.98%	2.15%	2.00%	2.97%	3.24%	3.01%
2025	0.98%	1.06%	0.99%	1.97%	2.12%	1.99%	2.96%	3.19%	2.99%
2026	0.98%	1.04%	0.98%	1.96%	2.09%	1.98%	2.95%	3.15%	2.98%
2027	0.97%	1.02%	0.98%	1.95%	2.06%	1.96%	2.94%	3.10%	2.96%
2028	0.96%	1.01%	0.97%	1.94%	2.04%	1.95%	2.92%	3.07%	2.94%
2029	0.96%	1.00%	0.97%	1.93%	2.02%	1.94%	2.91%	3.05%	2.93%
2030	0.95%	0.99%	0.96%	1.92%	1.99%	1.93%	2.89%	3.00%	2.91%
2031	0.94%	0.98%	0.95%	1.90%	1.98%	1.91%	2.86%	2.99%	2.88%
2032	0.93%	0.97%	0.94%	1.87%	1.96%	1.88%	2.82%	2.96%	2.84%
2033	0.92%	0.96%	0.93%	1.85%	1.94%	1.86%	2.79%	2.93%	2.81%
2034	0.91%	0.95%	0.91%	1.83%	1.92%	1.84%	2.76%	2.90%	2.78%
2035	0.90%	0.95%	0.90%	1.81%	1.91%	1.82%	2.73%	2.88%	2.75%
2036	0.89%	0.94%	0.89%	1.79%	1.89%	1.80%	2.70%	2.86%	2.73%





20 Year Customer Growth Rate	
High:	73.38%
Medium:	44.36%
Low:	20.16%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

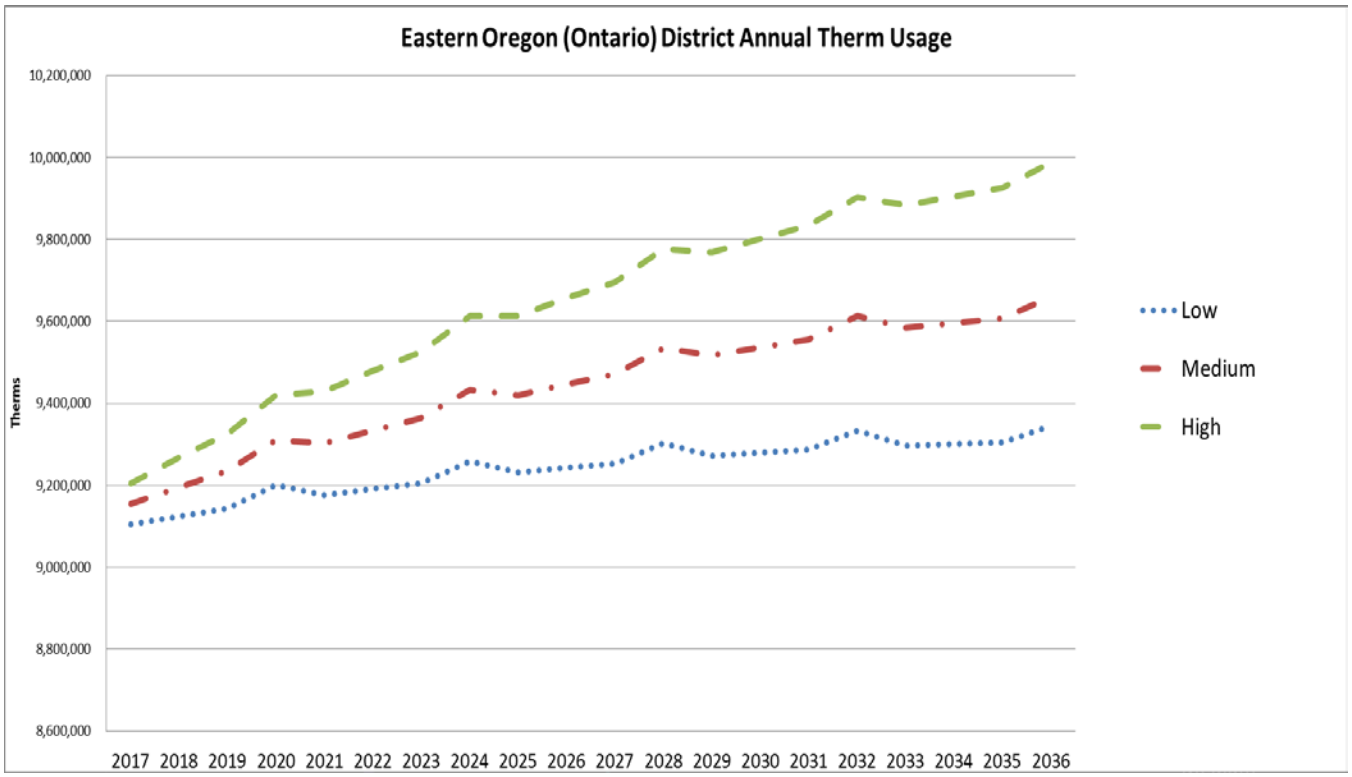
Eastern Oregon (Ontario) District

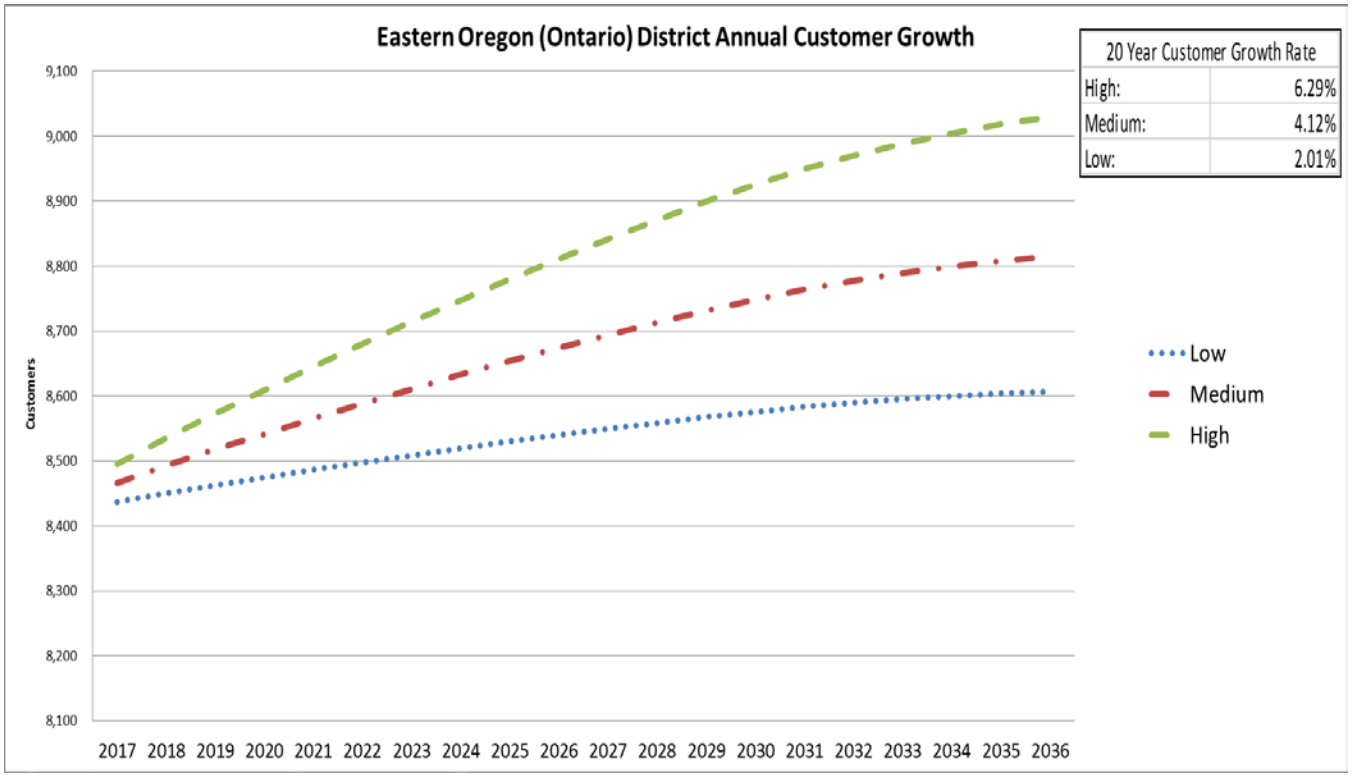
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	7,775,197	1,329,204	9,104,401	7,818,851	1,335,752	9,154,603	7,862,664	1,342,327	9,204,991	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	7,793,404	1,331,365	9,124,770	7,855,486	1,340,169	9,195,655	7,917,986	1,349,041	9,267,027	0.23%	0.16%	0.22%	0.47%	0.33%	0.45%	0.70%	0.50%	0.67%
2019	7,810,785	1,333,111	9,143,896	7,890,274	1,344,170	9,234,444	7,970,530	1,355,354	9,325,884	0.22%	0.13%	0.21%	0.44%	0.30%	0.42%	0.66%	0.47%	0.64%
2020	7,866,935	1,333,312	9,200,247	7,962,530	1,346,581	9,309,111	8,059,292	1,360,038	9,419,330	0.72%	0.02%	0.62%	0.92%	0.18%	0.81%	1.11%	0.35%	1.00%
2021	7,842,799	1,333,492	9,176,291	7,952,912	1,348,967	9,301,879	8,064,643	1,364,705	9,429,348	-0.31%	0.01%	-0.26%	-0.12%	0.18%	-0.08%	0.07%	0.34%	0.11%
2022	7,858,211	1,333,084	9,191,295	7,982,833	1,350,966	9,333,799	8,109,591	1,369,204	9,478,795	0.20%	-0.03%	0.16%	0.38%	0.15%	0.34%	0.56%	0.33%	0.52%
2023	7,873,016	1,332,109	9,205,125	8,011,276	1,352,343	9,363,619	8,152,211	1,373,027	9,525,238	0.19%	-0.07%	0.15%	0.36%	0.10%	0.32%	0.53%	0.28%	0.49%
2024	7,927,659	1,330,751	9,258,410	8,079,925	1,353,516	9,433,441	8,235,475	1,376,843	9,612,318	0.69%	-0.10%	0.58%	0.86%	0.09%	0.75%	1.02%	0.28%	0.91%
2025	7,901,799	1,328,785	9,230,584	8,065,779	1,354,207	9,419,986	8,233,647	1,380,313	9,613,960	-0.33%	-0.15%	-0.30%	-0.18%	0.05%	-0.14%	-0.02%	0.25%	0.02%
2026	7,915,842	1,326,263	9,242,106	8,091,959	1,354,572	9,446,531	8,272,637	1,383,708	9,656,345	0.18%	-0.19%	0.12%	0.32%	0.03%	0.28%	0.47%	0.25%	0.44%
2027	7,928,884	1,323,765	9,252,648	8,116,208	1,354,745	9,470,952	8,308,754	1,386,695	9,695,449	0.16%	-0.19%	0.11%	0.30%	0.01%	0.26%	0.44%	0.22%	0.40%
2028	7,981,978	1,320,629	9,302,606	8,180,965	1,354,480	9,535,444	8,385,888	1,389,463	9,775,351	0.67%	-0.24%	0.54%	0.80%	-0.02%	0.68%	0.93%	0.20%	0.82%
2029	7,954,286	1,317,150	9,271,437	8,162,462	1,353,956	9,516,418	8,377,255	1,392,073	9,769,328	-0.35%	-0.26%	-0.34%	-0.23%	-0.04%	-0.20%	-0.10%	0.19%	-0.06%
2030	7,965,931	1,313,175	9,279,106	8,183,060	1,352,920	9,535,980	8,407,475	1,394,160	9,801,634	0.15%	-0.30%	0.08%	0.25%	-0.08%	0.21%	0.36%	0.15%	0.33%
2031	7,977,309	1,309,652	9,286,961	8,203,378	1,352,347	9,555,724	8,437,477	1,396,745	9,834,222	0.14%	-0.27%	0.08%	0.25%	-0.04%	0.21%	0.36%	0.19%	0.33%
2032	8,027,627	1,305,299	9,332,925	8,261,796	1,350,907	9,612,703	8,504,679	1,398,427	9,903,106	0.63%	-0.33%	0.49%	0.71%	-0.11%	0.60%	0.80%	0.12%	0.70%
2033	7,996,344	1,300,751	9,297,096	8,235,420	1,349,270	9,584,690	8,483,781	1,399,922	9,883,703	-0.39%	-0.35%	-0.38%	-0.32%	-0.12%	-0.29%	-0.25%	0.11%	-0.20%
2034	8,004,411	1,295,698	9,300,110	8,249,229	1,347,267	9,596,497	8,503,961	1,401,215	9,905,176	0.10%	-0.39%	0.03%	0.17%	-0.15%	0.12%	0.24%	0.09%	0.22%
2035	8,012,643	1,290,848	9,303,491	8,262,770	1,345,428	9,608,198	8,523,464	1,402,649	9,926,113	0.10%	-0.37%	0.04%	0.16%	-0.14%	0.12%	0.23%	0.10%	0.21%
2036	8,057,876	1,286,003	9,343,879	8,314,810	1,343,459	9,658,269	8,583,025	1,403,821	9,986,847	0.56%	-0.38%	0.43%	0.63%	-0.15%	0.52%	0.70%	0.08%	0.61%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	3,642	111,054	114,695	3,660	111,659	115,318	3,678	112,266	115,944	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	3,648	111,304	114,951	3,672	112,163	115,834	3,696	113,027	116,723	0.16%	0.23%	0.22%	0.33%	0.45%	0.45%	0.50%	0.68%	0.67%
2019	3,652	111,539	115,191	3,683	112,638	116,320	3,713	113,747	117,460	0.13%	0.21%	0.21%	0.30%	0.42%	0.42%	0.47%	0.64%	0.63%
2020	3,653	111,753	115,406	3,689	113,069	116,758	3,726	114,401	118,127	0.02%	0.19%	0.19%	0.18%	0.38%	0.38%	0.35%	0.58%	0.57%
2021	3,653	111,955	115,608	3,696	113,479	117,175	3,739	115,025	118,764	0.01%	0.18%	0.18%	0.18%	0.36%	0.36%	0.34%	0.55%	0.54%
2022	3,652	112,151	115,803	3,701	113,877	117,578	3,751	115,632	119,383	-0.03%	0.18%	0.17%	0.15%	0.35%	0.34%	0.33%	0.53%	0.52%
2023	3,650	112,336	115,985	3,705	114,253	117,958	3,762	116,207	119,968	-0.07%	0.16%	0.16%	0.10%	0.33%	0.32%	0.28%	0.50%	0.49%
2024	3,646	112,516	116,162	3,708	114,620	118,328	3,772	116,768	120,541	-0.10%	0.16%	0.15%	0.09%	0.32%	0.31%	0.28%	0.48%	0.48%
2025	3,641	112,684	116,325	3,710	114,963	118,673	3,782	117,295	121,077	-0.15%	0.15%	0.14%	0.05%	0.30%	0.29%	0.25%	0.45%	0.44%
2026	3,634	112,848	116,482	3,711	115,299	119,010	3,791	117,812	121,603	-0.19%	0.15%	0.14%	0.03%	0.29%	0.28%	0.25%	0.44%	0.43%
2027	3,627	112,999	116,626	3,712	115,608	119,320	3,799	118,289	122,088	-0.19%	0.13%	0.12%	0.01%	0.27%	0.26%	0.22%	0.40%	0.40%
2028	3,618	113,143	116,761	3,711	115,905	119,616	3,807	118,749	122,555	-0.24%	0.13%	0.12%	-0.02%	0.26%	0.25%	0.20%	0.39%	0.38%
2029	3,609	113,280	116,889	3,709	116,187	119,896	3,814	119,184	122,998	-0.26%	0.12%	0.11%	-0.04%	0.24%	0.23%	0.19%	0.37%	0.36%
2030	3,598	113,402	117,000	3,707	116,439	120,146	3,820	119,575	123,395	-0.30%	0.11%	0.10%	-0.08%	0.22%	0.21%	0.15%	0.33%	0.32%
2031	3,588	113,521	117,109	3,705	116,686	120,391	3,827	119,960	123,787	-0.27%	0.10%	0.09%	-0.04%	0.21%	0.20%	0.19%	0.32%	0.32%
2032	3,576	113,617	117,193	3,701	116,884	120,585	3,831	120,269	124,100	-0.33%	0.08%	0.07%	-0.11%	0.17%	0.16%	0.12%	0.26%	0.25%
2033	3,564	113,700	117,263	3,697	117,057	120,754	3,835	120,541	124,377	-0.35%	0.07%	0.06%	-0.12%	0.15%	0.14%	0.11%	0.23%	0.22%
2034	3,550	113,766	117,316	3,691	117,210	120,901	3,839	120,789	124,628	-0.39%	0.06%	0.05%	-0.15%	0.13%	0.12%	0.09%	0.21%	0.20%
2035	3,537	113,834	117,370	3,686	117,358	121,044	3,843	121,027	124,870	-0.37%	0.06%	0.05%	-0.14%	0.13%	0.12%	0.10%	0.20%	0.19%
2036	3,523	113,854	117,377	3,681	117,462	121,143	3,846	121,224	125,070	-0.38%	0.02%	0.01%	-0.15%	0.09%	0.08%	0.08%	0.16%	0.16%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	4,054,806	5,049,595	9,104,401	4,065,131	5,089,472	9,154,603	4,075,470	5,129,521	9,204,991	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	4,059,955	5,064,815	9,124,770	4,075,456	5,120,199	9,195,655	4,090,998	5,176,030	9,267,027	0.13%	0.30%	0.22%	0.25%	0.60%	0.45%	0.38%	0.91%	0.67%
2019	4,065,031	5,078,865	9,143,896	4,085,646	5,148,798	9,234,444	4,106,341	5,219,543	9,325,884	0.13%	0.28%	0.21%	0.25%	0.56%	0.42%	0.38%	0.84%	0.64%
2020	4,090,638	5,109,609	9,200,247	4,116,510	5,192,601	9,309,111	4,142,514	5,276,816	9,419,330	0.63%	0.61%	0.62%	0.76%	0.85%	0.81%	0.88%	1.10%	1.00%
2021	4,075,040	5,101,251	9,176,291	4,105,780	5,196,099	9,301,879	4,136,715	5,292,633	9,429,348	-0.38%	-0.16%	-0.26%	-0.26%	0.07%	-0.08%	-0.14%	0.30%	0.11%
2022	4,079,974	5,111,321	9,191,295	4,115,724	5,218,075	9,333,799	4,151,745	5,327,050	9,478,795	0.12%	0.20%	0.16%	0.24%	0.42%	0.34%	0.36%	0.65%	0.52%
2023	4,084,805	5,120,320	9,205,125	4,125,471	5,238,148	9,363,619	4,166,495	5,358,743	9,525,238	0.12%	0.18%	0.15%	0.24%	0.38%	0.32%	0.36%	0.59%	0.49%
2024	4,110,230	5,148,180	9,258,410	4,156,016	5,277,425	9,433,441	4,202,260	5,410,057	9,612,318	0.62%	0.54%	0.58%	0.74%	0.75%	0.75%	0.86%	0.96%	0.91%
2025	4,094,231	5,136,354	9,230,584	4,144,524	5,275,462	9,419,986	4,195,378	5,418,582	9,613,960	-0.39%	-0.23%	-0.30%	-0.28%	-0.04%	-0.14%	-0.16%	0.16%	0.02%
2026	4,098,728	5,143,377	9,242,106	4,153,632	5,292,899	9,446,531	4,209,211	5,447,134	9,656,345	0.11%	0.14%	0.12%	0.22%	0.33%	0.28%	0.33%	0.53%	0.44%
2027	4,102,997	5,149,651	9,252,648	4,162,285	5,308,667	9,470,952	4,222,367	5,473,082	9,695,449	0.10%	0.12%	0.11%	0.21%	0.30%	0.26%	0.31%	0.48%	0.40%
2028	4,127,888	5,174,718	9,302,606	4,191,791	5,343,653	9,535,444	4,256,618	5,518,733	9,775,351	0.61%	0.49%	0.54%	0.71%	0.66%	0.68%	0.81%	0.83%	0.82%
2029	4,111,115	5,160,322	9,271,437	4,178,768	5,337,650	9,516,418	4,247,468	5,521,860	9,769,328	-0.41%	-0.28%	-0.34%	-0.31%	-0.11%	-0.20%	-0.21%	0.06%	-0.06%
2030	4,114,832	5,164,274	9,279,106	4,186,327	5,349,653	9,535,980	4,258,997	5,542,637	9,801,634	0.09%	0.08%	0.08%	0.18%	0.22%	0.21%	0.27%	0.38%	0.33%
2031	4,118,201	5,168,759	9,286,961	4,193,186	5,362,538	9,555,724	4,269,469	5,564,754	9,834,222	0.08%	0.09%	0.08%	0.16%	0.24%	0.21%	0.25%	0.40%	0.33%
2032	4,141,843	5,191,083	9,332,925	4,220,178	5,392,524	9,612,703	4,299,929	5,603,177	9,903,106	0.57%	0.43%	0.49%	0.64%	0.56%	0.60%	0.71%	0.69%	0.70%
2033	4,123,562	5,173,533	9,297,096	4,204,113	5,380,577	9,584,690	4,286,173	5,597,530	9,883,703	-0.44%	-0.34%	-0.38%	-0.38%	-0.22%	-0.29%	-0.32%	-0.10%	-0.20%
2034	4,125,658	5,174,452	9,300,110	4,208,390	5,388,106	9,596,497	4,292,720	5,612,456	9,905,176	0.05%	0.02%	0.03%	0.10%	0.14%	0.12%	0.15%	0.27%	0.22%
2035	4,127,306	5,176,184	9,303,491	4,211,758	5,396,440	9,608,198	4,297,880	5,628,233	9,926,113	0.04%	0.03%	0.04%	0.08%	0.15%	0.12%	0.12%	0.28%	0.21%
2036	4,149,497	5,194,382	9,343,879	4,235,804	5,422,466	9,658,269	4,323,852	5,662,995	9,986,847	0.54%	0.35%	0.43%	0.57%	0.48%	0.52%	0.60%	0.62%	0.61%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	6,995	1,442	8,437	7,013	1,453	8,466	7,030	1,465	8,495	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	7,004	1,446	8,450	7,030	1,462	8,492	7,057	1,478	8,535	0.13%	0.29%	0.15%	0.25%	0.58%	0.31%	0.38%	0.88%	0.46%
2019	7,013	1,450	8,463	7,048	1,470	8,518	7,083	1,490	8,573	0.12%	0.27%	0.15%	0.25%	0.54%	0.30%	0.37%	0.81%	0.45%
2020	7,021	1,454	8,475	7,065	1,477	8,542	7,109	1,500	8,610	0.12%	0.23%	0.14%	0.25%	0.46%	0.28%	0.37%	0.70%	0.43%
2021	7,030	1,457	8,486	7,082	1,483	8,565	7,135	1,510	8,645	0.12%	0.21%	0.14%	0.24%	0.43%	0.27%	0.36%	0.65%	0.41%
2022	7,038	1,460	8,498	7,099	1,489	8,588	7,161	1,520	8,680	0.12%	0.21%	0.13%	0.24%	0.42%	0.27%	0.36%	0.64%	0.41%
2023	7,046	1,462	8,509	7,116	1,495	8,611	7,186	1,528	8,714	0.12%	0.19%	0.13%	0.23%	0.39%	0.26%	0.35%	0.58%	0.39%
2024	7,055	1,465	8,520	7,132	1,501	8,633	7,211	1,537	8,748	0.12%	0.18%	0.13%	0.23%	0.38%	0.26%	0.35%	0.57%	0.39%
2025	7,062	1,468	8,530	7,148	1,506	8,654	7,235	1,546	8,780	0.11%	0.17%	0.12%	0.22%	0.36%	0.25%	0.33%	0.54%	0.37%
2026	7,070	1,470	8,540	7,164	1,511	8,675	7,258	1,554	8,812	0.11%	0.17%	0.12%	0.22%	0.35%	0.24%	0.32%	0.53%	0.36%
2027	7,077	1,472	8,550	7,178	1,516	8,694	7,281	1,562	8,842	0.10%	0.16%	0.11%	0.21%	0.33%	0.23%	0.31%	0.50%	0.34%
2028	7,084	1,475	8,559	7,193	1,521	8,713	7,302	1,569	8,871	0.10%	0.15%	0.11%	0.20%	0.31%	0.22%	0.30%	0.47%	0.33%
2029	7,091	1,477	8,568	7,206	1,526	8,732	7,323	1,576	8,899	0.09%	0.15%	0.10%	0.19%	0.31%	0.21%	0.28%	0.47%	0.32%
2030	7,097	1,479	8,576	7,219	1,530	8,749	7,343	1,583	8,925	0.09%	0.12%	0.09%	0.18%	0.26%	0.19%	0.27%	0.40%	0.29%
2031	7,103	1,481	8,583	7,230	1,534	8,764	7,360	1,590	8,950	0.08%	0.13%	0.09%	0.16%	0.29%	0.18%	0.24%	0.44%	0.28%
2032	7,108	1,482	8,590	7,240	1,537	8,778	7,375	1,595	8,970	0.07%	0.10%	0.07%	0.14%	0.23%	0.15%	0.20%	0.35%	0.23%
2033	7,112	1,483	8,595	7,249	1,541	8,789	7,388	1,600	8,989	0.06%	0.09%	0.06%	0.12%	0.20%	0.13%	0.18%	0.32%	0.20%
2034	7,115	1,485	8,600	7,256	1,544	8,799	7,399	1,606	9,005	0.05%	0.07%	0.05%	0.10%	0.19%	0.11%	0.15%	0.32%	0.18%
2035	7,118	1,486	8,604	7,261	1,547	8,808	7,407	1,611	9,018	0.04%	0.10%	0.05%	0.08%	0.21%	0.10%	0.11%	0.34%	0.15%
2036	7,120	1,486	8,607	7,266	1,549	8,815	7,414	1,616	9,030	0.03%	0.03%	0.03%	0.06%	0.16%	0.08%	0.09%	0.29%	0.13%





20 Year Customer Growth Rate	
High:	6.29%
Medium:	4.12%
Low:	2.01%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Kennewick District

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	21,022,720	8,887,408	29,910,128	21,416,318	9,060,421	30,476,739	21,813,688	9,235,162	31,048,849
2018	21,212,575	8,970,074	30,182,648	21,803,345	9,229,078	31,032,423	22,405,311	9,493,189	31,898,500
2019	21,401,527	9,052,058	30,453,585	22,192,055	9,397,933	31,589,988	23,004,898	9,753,947	32,758,846
2020	21,707,430	9,133,782	30,841,212	22,706,505	9,567,820	32,274,325	23,743,017	10,018,727	33,761,744
2021	21,778,835	9,215,325	30,994,160	22,978,741	9,738,890	32,717,631	24,234,665	10,287,786	34,522,451
2022	21,967,818	9,296,911	31,264,729	23,378,020	9,911,614	33,289,633	24,867,073	10,561,907	35,428,980
2023	22,157,243	9,378,587	31,535,830	23,781,747	10,086,092	33,867,840	25,512,106	10,841,305	36,353,410
2024	22,468,718	9,460,381	31,929,098	24,322,067	10,262,394	34,584,461	26,313,378	11,126,143	37,439,521
2025	22,537,481	9,542,296	32,079,777	24,602,786	10,440,533	35,043,319	26,840,985	11,416,505	38,257,489
2026	22,727,846	9,624,201	32,352,047	25,019,179	10,620,234	35,639,413	27,523,622	11,712,002	39,235,624
2027	22,918,687	9,706,276	32,624,963	25,440,188	10,801,895	36,242,083	28,219,708	12,013,340	40,233,049
2028	23,235,329	9,788,276	33,023,605	26,006,138	10,984,979	36,991,117	29,086,358	12,319,687	41,406,045
2029	23,300,356	9,870,360	33,170,716	26,292,943	11,169,843	37,462,786	29,647,584	12,631,687	42,279,271
2030	23,491,264	9,952,393	33,443,657	26,724,868	11,356,183	38,081,051	30,379,883	12,948,875	43,328,759
2031	23,681,305	10,034,107	33,715,413	27,158,422	11,543,389	38,701,811	31,121,052	13,270,259	44,391,311
2032	24,000,717	10,115,502	34,116,219	27,745,035	11,731,450	39,476,485	32,047,024	13,595,845	45,642,869
2033	24,058,644	10,196,546	34,255,190	28,029,928	11,920,271	39,950,200	32,629,299	13,925,485	46,554,784
2034	24,245,545	10,277,096	34,522,641	28,466,852	12,109,499	40,576,352	33,394,610	14,258,568	47,653,177
2035	24,431,960	10,357,536	34,789,496	28,906,120	12,300,024	41,206,144	34,170,151	14,596,685	48,766,836
2036	24,751,842	10,437,507	35,189,349	29,507,898	12,490,967	41,998,864	35,147,232	14,938,277	50,085,510

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.90%	0.93%	0.91%	1.81%	1.86%	1.82%	2.71%	2.79%	2.74%
2019	0.89%	0.91%	0.90%	1.78%	1.83%	1.80%	2.68%	2.75%	2.70%
2020	1.43%	0.90%	1.27%	2.32%	1.81%	2.17%	3.21%	2.71%	3.06%
2021	0.33%	0.89%	0.50%	1.20%	1.79%	1.37%	2.07%	2.69%	2.25%
2022	0.87%	0.89%	0.87%	1.74%	1.77%	1.75%	2.61%	2.66%	2.63%
2023	0.86%	0.88%	0.87%	1.73%	1.76%	1.74%	2.59%	2.65%	2.61%
2024	1.41%	0.87%	1.25%	2.27%	1.75%	2.12%	3.14%	2.63%	2.99%
2025	0.31%	0.87%	0.47%	1.15%	1.74%	1.33%	2.01%	2.61%	2.18%
2026	0.84%	0.86%	0.85%	1.69%	1.72%	1.70%	2.54%	2.59%	2.56%
2027	0.84%	0.85%	0.84%	1.68%	1.71%	1.69%	2.53%	2.57%	2.54%
2028	1.38%	0.84%	1.22%	2.22%	1.69%	2.07%	3.07%	2.55%	2.92%
2029	0.28%	0.84%	0.45%	1.10%	1.68%	1.28%	1.93%	2.53%	2.11%
2030	0.82%	0.83%	0.82%	1.64%	1.67%	1.65%	2.47%	2.51%	2.48%
2031	0.81%	0.82%	0.81%	1.62%	1.65%	1.63%	2.44%	2.48%	2.45%
2032	1.35%	0.81%	1.19%	2.16%	1.63%	2.00%	2.98%	2.45%	2.82%
2033	0.24%	0.80%	0.41%	1.03%	1.61%	1.20%	1.82%	2.42%	2.00%
2034	0.78%	0.79%	0.78%	1.56%	1.59%	1.57%	2.35%	2.39%	2.36%
2035	0.77%	0.78%	0.77%	1.54%	1.57%	1.55%	2.32%	2.37%	2.34%
2036	1.31%	0.77%	1.15%	2.08%	1.55%	1.92%	2.86%	2.34%	2.70%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	24,349	405,270	429,619	24,823	412,844	437,667	25,302	420,490	445,792
2018	24,576	408,923	433,499	25,285	420,291	445,576	26,009	431,873	457,882
2019	24,800	412,559	437,359	25,748	427,769	453,517	26,723	443,407	470,131
2020	25,024	416,188	441,212	26,213	435,301	461,514	27,449	455,128	482,576
2021	25,247	419,818	445,065	26,682	442,902	469,584	28,186	467,061	495,247
2022	25,471	423,453	448,924	27,155	450,581	477,737	28,937	479,222	508,159
2023	25,695	427,096	452,791	27,633	458,345	485,978	29,702	491,625	521,327
2024	25,919	430,748	456,667	28,116	466,194	494,311	30,483	504,272	534,754
2025	26,143	434,408	460,552	28,604	474,131	502,735	31,278	517,169	548,447
2026	26,368	438,068	464,436	29,097	482,134	511,231	32,088	530,287	562,375
2027	26,593	441,737	468,330	29,594	490,226	519,820	32,913	543,662	576,576
2028	26,817	445,403	472,220	30,096	498,380	528,476	33,753	557,254	591,007
2029	27,042	449,073	476,115	30,602	506,612	537,215	34,607	571,093	605,700
2030	27,267	452,742	480,009	31,113	514,911	546,024	35,476	585,158	620,635
2031	27,491	456,395	483,885	31,626	523,241	554,866	36,357	599,393	635,750
2032	27,714	460,029	487,743	32,141	531,598	563,739	37,249	613,793	651,042
2033	27,936	463,646	491,581	32,658	539,981	572,639	38,152	628,354	666,506
2034	28,156	467,237	495,393	33,177	548,373	581,549	39,065	643,047	682,112
2035	28,377	470,818	499,195	33,699	556,809	590,507	39,991	657,935	697,926
2036	28,596	474,379	502,975	34,222	565,261	599,483	40,927	672,968	713,895

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.93%	0.90%	0.90%	1.86%	1.80%	1.81%	2.79%	2.71%	2.71%
2019	0.91%	0.89%	0.89%	1.83%	1.78%	1.78%	2.75%	2.67%	2.68%
2020	0.90%	0.88%	0.88%	1.81%	1.76%	1.76%	2.71%	2.64%	2.65%
2021	0.89%	0.87%	0.87%	1.79%	1.75%	1.75%	2.69%	2.62%	2.63%
2022	0.89%	0.87%	0.87%	1.77%	1.73%	1.74%	2.66%	2.60%	2.61%
2023	0.88%	0.86%	0.86%	1.76%	1.72%	1.73%	2.65%	2.59%	2.59%
2024	0.87%	0.85%	0.86%	1.75%	1.71%	1.71%	2.63%	2.57%	2.58%
2025	0.87%	0.85%	0.85%	1.74%	1.70%	1.70%	2.61%	2.56%	2.56%
2026	0.86%	0.84%	0.84%	1.72%	1.69%	1.69%	2.59%	2.54%	2.54%
2027	0.85%	0.84%	0.84%	1.71%	1.68%	1.68%	2.57%	2.52%	2.53%
2028	0.84%	0.83%	0.83%	1.69%	1.66%	1.67%	2.55%	2.50%	2.50%
2029	0.84%	0.82%	0.82%	1.68%	1.65%	1.65%	2.53%	2.48%	2.49%
2030	0.83%	0.82%	0.82%	1.67%	1.64%	1.64%	2.51%	2.46%	2.47%
2031	0.82%	0.81%	0.81%	1.65%	1.62%	1.62%	2.48%	2.43%	2.44%
2032	0.81%	0.80%	0.80%	1.63%	1.60%	1.60%	2.45%	2.40%	2.41%
2033	0.80%	0.79%	0.79%	1.61%	1.58%	1.58%	2.42%	2.37%	2.38%
2034	0.79%	0.77%	0.78%	1.59%	1.55%	1.56%	2.39%	2.34%	2.34%
2035	0.78%	0.77%	0.77%	1.57%	1.54%	1.54%	2.37%	2.32%	2.32%
2036	0.77%	0.76%	0.76%	1.55%	1.52%	1.52%	2.34%	2.28%	2.29%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	14,911,986	14,998,142	29,910,128	15,154,545	15,322,194	30,476,739	15,399,089	15,649,760	31,048,849
2018	15,033,414	15,149,234	30,182,648	15,401,408	15,631,015	31,032,423	15,775,443	16,123,057	31,898,500
2019	15,155,631	15,297,954	30,453,585	15,651,909	15,938,078	31,589,988	16,160,448	16,598,397	32,758,846
2020	15,340,024	15,501,188	30,841,212	15,970,021	16,304,304	32,274,325	16,620,837	17,140,906	33,761,744
2021	15,402,048	15,592,112	30,994,160	16,163,193	16,554,438	32,717,631	16,955,868	17,566,583	34,522,451
2022	15,526,253	15,738,476	31,264,729	16,424,052	16,865,581	33,289,633	17,366,612	18,062,368	35,428,980
2023	15,651,020	15,884,810	31,535,830	16,688,219	17,179,621	33,867,840	17,785,917	18,567,493	36,353,410
2024	15,840,037	16,089,061	31,929,098	17,024,508	17,559,952	34,584,461	18,288,172	19,151,349	37,439,521
2025	15,902,169	16,177,608	32,079,777	17,226,435	17,816,884	35,043,319	18,650,544	19,606,946	38,257,489
2026	16,028,197	16,323,850	32,352,047	17,499,777	18,139,636	35,639,413	19,094,917	20,140,706	39,235,624
2027	16,154,470	16,470,493	32,624,963	17,775,835	18,466,248	36,242,083	19,547,268	20,685,781	40,233,049
2028	16,346,594	16,677,011	33,023,605	18,127,604	18,863,513	36,991,117	20,088,813	21,317,232	41,406,045
2029	16,407,340	16,763,377	33,170,716	18,335,247	19,127,539	37,462,786	20,474,794	21,804,477	42,279,271
2030	16,533,974	16,909,683	33,443,657	18,618,697	19,462,354	38,081,051	20,950,268	22,378,491	43,328,759
2031	16,659,683	17,055,729	33,715,413	18,902,270	19,799,541	38,701,811	21,429,633	22,961,678	44,391,311
2032	16,852,416	17,263,804	34,116,219	19,264,178	20,212,306	39,476,485	22,002,825	23,640,044	45,642,869
2033	16,908,409	17,346,781	34,255,190	19,469,788	20,480,411	39,950,200	22,399,976	24,154,808	46,554,784
2034	17,031,410	17,491,231	34,522,641	19,753,610	20,822,742	40,576,352	22,890,699	24,762,479	47,653,177
2035	17,153,585	17,635,911	34,789,496	20,037,601	21,168,543	41,206,144	23,385,317	25,381,519	48,766,836
2036	17,345,001	17,844,348	35,189,349	20,404,917	21,593,947	41,998,864	23,982,388	26,103,122	50,085,510

Annual Change

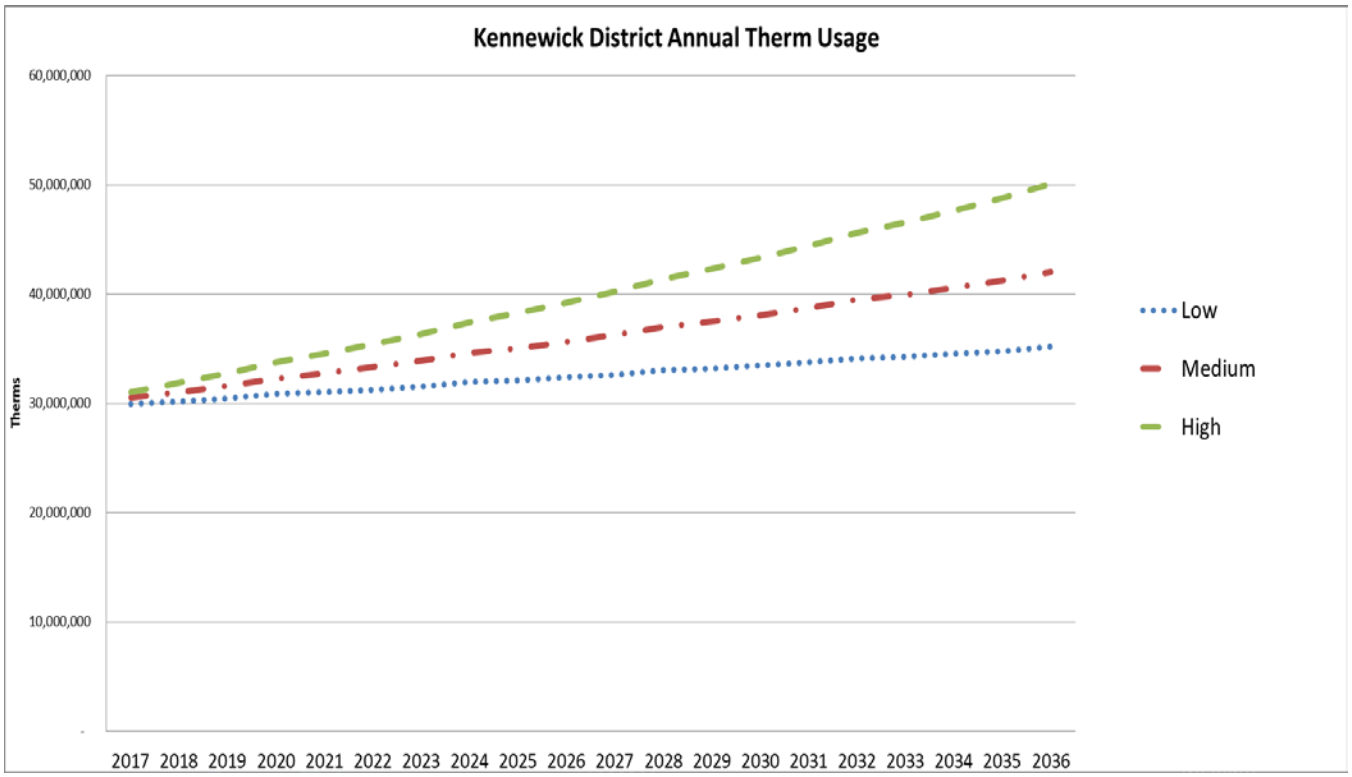
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.81%	1.01%	0.91%	1.63%	2.02%	1.82%	2.44%	3.02%	2.74%
2019	0.81%	0.98%	0.90%	1.63%	1.96%	1.80%	2.44%	2.95%	2.70%
2020	1.22%	1.33%	1.27%	2.03%	2.30%	2.17%	2.85%	3.27%	3.06%
2021	0.40%	0.59%	0.50%	1.21%	1.53%	1.37%	2.02%	2.48%	2.25%
2022	0.81%	0.94%	0.87%	1.61%	1.88%	1.75%	2.42%	2.82%	2.63%
2023	0.80%	0.93%	0.87%	1.61%	1.86%	1.74%	2.41%	2.80%	2.61%
2024	1.21%	1.29%	1.25%	2.02%	2.21%	2.12%	2.82%	3.14%	2.99%
2025	0.39%	0.55%	0.47%	1.19%	1.46%	1.33%	1.98%	2.38%	2.18%
2026	0.79%	0.90%	0.85%	1.59%	1.81%	1.70%	2.38%	2.72%	2.56%
2027	0.79%	0.90%	0.84%	1.58%	1.80%	1.69%	2.37%	2.71%	2.54%
2028	1.19%	1.25%	1.22%	1.98%	2.15%	2.07%	2.77%	3.05%	2.92%
2029	0.37%	0.52%	0.45%	1.15%	1.40%	1.28%	1.92%	2.29%	2.11%
2030	0.77%	0.87%	0.82%	1.55%	1.75%	1.65%	2.32%	2.63%	2.48%
2031	0.76%	0.86%	0.81%	1.52%	1.73%	1.63%	2.29%	2.61%	2.45%
2032	1.16%	1.22%	1.19%	1.91%	2.08%	2.00%	2.67%	2.95%	2.82%
2033	0.33%	0.48%	0.41%	1.07%	1.33%	1.20%	1.81%	2.18%	2.00%
2034	0.73%	0.83%	0.78%	1.46%	1.67%	1.57%	2.19%	2.52%	2.36%
2035	0.72%	0.83%	0.77%	1.44%	1.66%	1.55%	2.16%	2.50%	2.34%
2036	1.12%	1.18%	1.15%	1.83%	2.01%	1.92%	2.55%	2.84%	2.70%

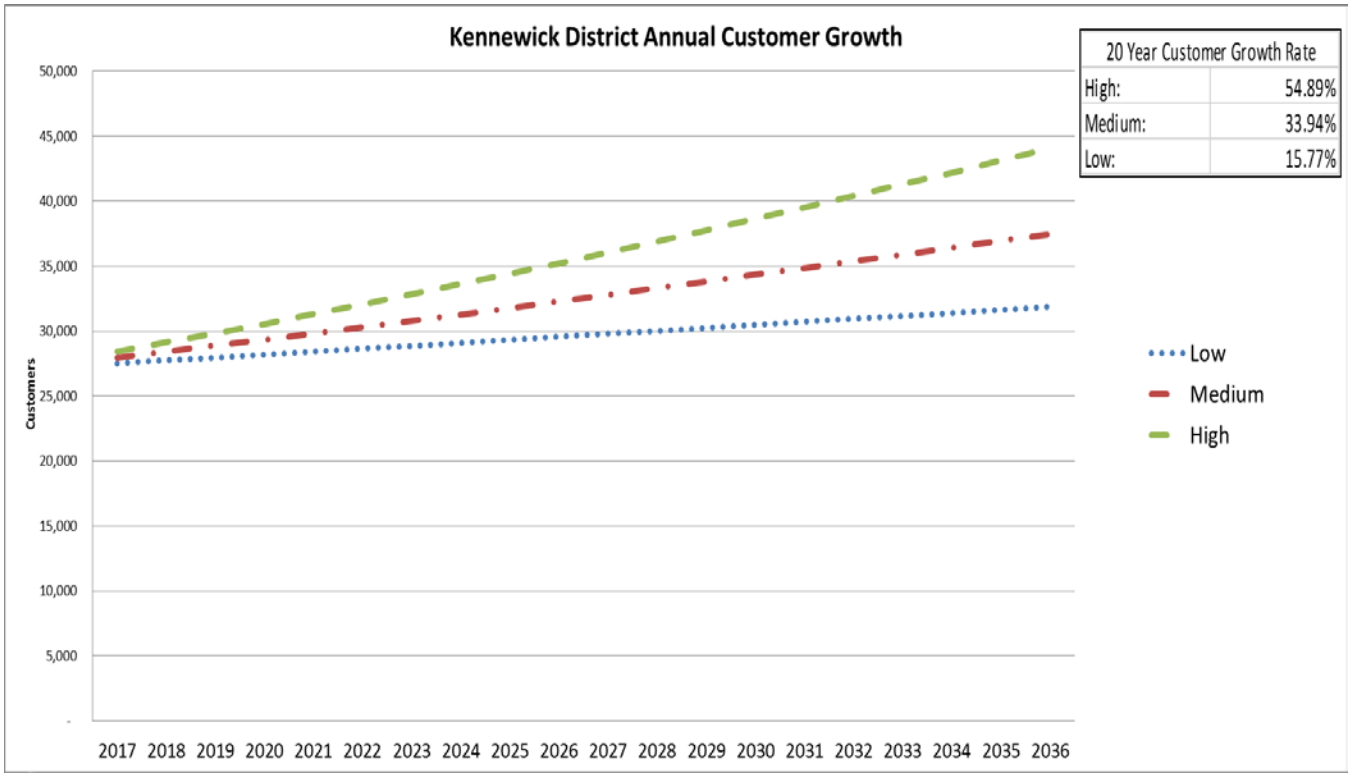
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	24,107	3,409	27,516	24,487	3,483	27,970	24,870	3,558	28,429
2018	24,297	3,444	27,741	24,874	3,554	28,428	25,460	3,667	29,127
2019	24,489	3,478	27,967	25,266	3,625	28,891	26,062	3,776	29,838
2020	24,681	3,512	28,193	25,664	3,695	29,359	26,678	3,887	30,565
2021	24,875	3,545	28,420	26,067	3,766	29,833	27,306	3,999	31,305
2022	25,070	3,579	28,649	26,475	3,838	30,313	27,948	4,113	32,061
2023	25,265	3,613	28,878	26,888	3,910	30,798	28,603	4,229	32,833
2024	25,461	3,646	29,108	27,307	3,983	31,290	29,272	4,348	33,620
2025	25,658	3,680	29,338	27,730	4,057	31,787	29,953	4,469	34,422
2026	25,856	3,714	29,569	28,157	4,131	32,288	30,646	4,591	35,238
2027	26,053	3,748	29,801	28,588	4,207	32,795	31,352	4,717	36,069
2028	26,251	3,781	30,032	29,023	4,282	33,305	32,068	4,845	36,913
2029	26,449	3,815	30,264	29,461	4,359	33,820	32,796	4,975	37,771
2030	26,647	3,849	30,496	29,904	4,436	34,340	33,537	5,107	38,643
2031	26,844	3,882	30,726	30,346	4,514	34,860	34,282	5,241	39,523
2032	27,039	3,916	30,955	30,788	4,592	35,380	35,033	5,377	40,411
2033	27,232	3,949	31,182	31,230	4,670	35,901	35,790	5,516	41,305
2034	27,425	3,983	31,407	31,672	4,749	36,421	36,551	5,656	42,207
2035	27,615	4,016	31,631	32,114	4,829	36,943	37,318	5,798	43,116
2036	27,805	4,049	31,854	32,556	4,909	37,464	38,091	5,942	44,033

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.79%	1.02%	0.82%	1.58%	2.04%	1.64%	2.37%	3.05%	2.46%
2019	0.79%	0.99%	0.81%	1.58%	1.99%	1.63%	2.37%	2.98%	2.44%
2020	0.79%	0.97%	0.81%	1.57%	1.95%	1.62%	2.36%	2.93%	2.43%
2021	0.78%	0.96%	0.81%	1.57%	1.92%	1.61%	2.36%	2.89%	2.42%
2022	0.78%	0.95%	0.80%	1.57%	1.90%	1.61%	2.35%	2.85%	2.42%
2023	0.78%	0.94%	0.80%	1.56%	1.88%	1.60%	2.34%	2.83%	2.41%
2024	0.78%	0.93%	0.80%	1.56%	1.87%	1.60%	2.34%	2.80%	2.40%
2025	0.77%	0.93%	0.79%	1.55%	1.85%	1.59%	2.33%	2.78%	2.39%
2026	0.77%	0.91%	0.79%	1.54%	1.83%	1.58%	2.31%	2.75%	2.37%
2027	0.76%	0.91%	0.78%	1.53%	1.82%	1.57%	2.30%	2.73%	2.36%
2028	0.76%	0.90%	0.78%	1.52%	1.80%	1.56%	2.29%	2.70%	2.34%
2029	0.75%	0.89%	0.77%	1.51%	1.79%	1.55%	2.27%	2.68%	2.33%
2030	0.75%	0.88%	0.77%	1.50%	1.77%	1.54%	2.26%	2.66%	2.31%
2031	0.74%	0.87%	0.75%	1.48%	1.75%	1.51%	2.22%	2.63%	2.28%
2032	0.73%	0.86%	0.74%	1.46%	1.73%	1.49%	2.19%	2.60%	2.25%
2033	0.72%	0.85%	0.73%	1.44%	1.71%	1.47%	2.16%	2.57%	2.21%
2034	0.71%	0.84%	0.72%	1.41%	1.69%	1.45%	2.13%	2.54%	2.18%
2035	0.70%	0.84%	0.71%	1.40%	1.68%	1.43%	2.10%	2.52%	2.15%
2036	0.69%	0.83%	0.70%	1.38%	1.65%	1.41%	2.07%	2.49%	2.13%





20 Year Customer Growth Rate	
High:	54.89%
Medium:	33.94%
Low:	15.77%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Longview District

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	4,913,338	2,636,171	7,549,509	4,990,307	2,671,902	7,662,209	5,067,938	2,707,914	7,775,852
2018	4,948,129	2,651,716	7,599,845	5,061,104	2,703,496	7,764,600	5,175,973	2,756,069	7,932,042
2019	4,981,959	2,666,453	7,648,413	5,130,498	2,733,678	7,864,176	5,282,712	2,802,418	8,085,130
2020	5,040,900	2,680,328	7,721,229	5,225,547	2,762,732	7,988,279	5,416,206	2,847,578	8,263,784
2021	5,047,106	2,693,269	7,740,376	5,265,942	2,790,821	8,056,763	5,493,595	2,891,938	8,385,533
2022	5,078,862	2,705,583	7,784,445	5,332,962	2,818,344	8,151,306	5,599,254	2,935,995	8,535,250
2023	5,110,188	2,717,403	7,827,590	5,399,688	2,845,467	8,245,155	5,705,290	2,979,949	8,685,239
2024	5,167,611	2,728,657	7,896,268	5,494,155	2,872,025	8,366,181	5,841,342	3,023,535	8,864,877
2025	5,171,947	2,739,570	7,911,516	5,533,065	2,898,484	8,431,549	5,919,791	3,067,483	8,987,275
2026	5,202,635	2,750,318	7,952,953	5,600,165	2,924,884	8,525,050	6,028,934	3,111,697	9,140,631
2027	5,233,057	2,760,703	7,993,760	5,667,263	2,951,019	8,618,282	6,138,922	3,155,953	9,294,875
2028	5,290,113	2,770,737	8,060,850	5,763,195	2,976,791	8,739,986	6,280,675	3,200,033	9,480,708
2029	5,293,007	2,780,625	8,073,632	5,801,104	3,002,523	8,803,627	6,360,813	3,244,401	9,605,214
2030	5,322,736	2,790,278	8,113,015	5,868,271	3,028,132	8,896,403	6,473,410	3,288,979	9,762,389
2031	5,352,106	2,799,731	8,151,837	5,935,158	3,053,515	8,988,672	6,586,383	3,333,503	9,919,886
2032	5,408,657	2,808,853	8,217,509	6,032,177	3,078,674	9,110,851	6,733,320	3,378,129	10,111,449
2033	5,409,562	2,817,683	8,227,245	6,067,785	3,103,373	9,171,158	6,812,989	3,422,290	10,235,279
2034	5,437,895	2,826,353	8,264,248	6,134,014	3,128,074	9,262,088	6,927,424	3,466,847	10,394,272
2035	5,465,592	2,834,632	8,300,224	6,199,356	3,152,260	9,351,616	7,041,204	3,510,932	10,552,136
2036	5,521,167	2,842,766	8,363,933	6,296,329	3,176,417	9,472,745	7,191,465	3,555,328	10,746,794

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.71%	0.59%	0.67%	1.42%	1.18%	1.34%	2.13%	1.78%	2.01%
2019	0.68%	0.56%	0.64%	1.37%	1.12%	1.28%	2.06%	1.68%	1.93%
2020	1.18%	0.52%	0.95%	1.85%	1.06%	1.58%	2.53%	1.61%	2.21%
2021	0.12%	0.48%	0.25%	0.77%	1.02%	0.86%	1.43%	1.56%	1.47%
2022	0.63%	0.46%	0.57%	1.27%	0.99%	1.17%	1.92%	1.52%	1.79%
2023	0.62%	0.44%	0.55%	1.25%	0.96%	1.15%	1.89%	1.50%	1.76%
2024	1.12%	0.41%	0.88%	1.75%	0.93%	1.47%	2.38%	1.46%	2.07%
2025	0.08%	0.40%	0.19%	0.71%	0.92%	0.78%	1.34%	1.45%	1.38%
2026	0.59%	0.39%	0.52%	1.21%	0.91%	1.11%	1.84%	1.44%	1.71%
2027	0.58%	0.38%	0.51%	1.20%	0.89%	1.09%	1.82%	1.42%	1.69%
2028	1.09%	0.36%	0.84%	1.69%	0.87%	1.41%	2.31%	1.40%	2.00%
2029	0.05%	0.36%	0.16%	0.66%	0.86%	0.73%	1.28%	1.39%	1.31%
2030	0.56%	0.35%	0.49%	1.16%	0.85%	1.05%	1.77%	1.37%	1.64%
2031	0.55%	0.34%	0.48%	1.14%	0.84%	1.04%	1.75%	1.35%	1.61%
2032	1.06%	0.33%	0.81%	1.63%	0.82%	1.36%	2.23%	1.34%	1.93%
2033	0.02%	0.31%	0.12%	0.59%	0.80%	0.66%	1.18%	1.31%	1.22%
2034	0.52%	0.31%	0.45%	1.09%	0.80%	0.99%	1.68%	1.30%	1.55%
2035	0.51%	0.29%	0.44%	1.07%	0.77%	0.97%	1.64%	1.27%	1.52%
2036	1.02%	0.29%	0.77%	1.56%	0.77%	1.30%	2.13%	1.26%	1.84%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	7,222	66,550	73,772	7,320	67,590	74,911	7,419	68,640	76,059
2018	7,265	67,020	74,285	7,407	68,548	75,954	7,551	70,101	77,652
2019	7,305	67,477	74,783	7,490	69,486	76,975	7,678	71,544	79,222
2020	7,343	67,923	75,266	7,569	70,408	77,978	7,802	72,976	80,778
2021	7,379	68,355	75,734	7,646	71,317	78,963	7,923	74,400	82,323
2022	7,413	68,781	76,194	7,721	72,223	79,944	8,044	75,832	83,876
2023	7,445	69,201	76,646	7,796	73,125	80,921	8,164	77,271	85,435
2024	7,476	69,615	77,091	7,869	74,025	81,893	8,284	78,718	87,001
2025	7,506	70,027	77,532	7,941	74,929	82,870	8,404	80,185	88,589
2026	7,535	70,437	77,972	8,013	75,837	83,851	8,525	81,669	90,194
2027	7,564	70,842	78,406	8,085	76,745	84,830	8,646	83,165	91,812
2028	7,591	71,243	78,834	8,156	77,650	85,806	8,767	84,668	93,436
2029	7,618	71,642	79,260	8,226	78,558	86,785	8,889	86,189	95,078
2030	7,645	72,038	79,682	8,296	79,469	87,765	9,011	87,725	96,736
2031	7,670	72,429	80,100	8,366	80,376	88,742	9,133	89,268	98,401
2032	7,695	72,816	80,512	8,435	81,283	89,717	9,255	90,822	100,077
2033	7,720	73,195	80,915	8,502	82,178	90,680	9,376	92,368	101,744
2034	7,743	73,573	81,316	8,570	83,078	91,648	9,498	93,936	103,434
2035	7,766	73,942	81,708	8,636	83,968	92,604	9,619	95,497	105,116
2036	7,788	74,310	82,099	8,703	84,862	93,564	9,741	97,077	106,818

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.59%	0.71%	0.70%	1.18%	1.42%	1.39%	1.78%	2.13%	2.09%
2019	0.56%	0.68%	0.67%	1.12%	1.37%	1.34%	1.68%	2.06%	2.02%
2020	0.52%	0.66%	0.65%	1.06%	1.33%	1.30%	1.61%	2.00%	1.96%
2021	0.48%	0.64%	0.62%	1.02%	1.29%	1.26%	1.56%	1.95%	1.91%
2022	0.46%	0.62%	0.61%	0.99%	1.27%	1.24%	1.52%	1.93%	1.89%
2023	0.44%	0.61%	0.59%	0.96%	1.25%	1.22%	1.50%	1.90%	1.86%
2024	0.41%	0.60%	0.58%	0.93%	1.23%	1.20%	1.46%	1.87%	1.83%
2025	0.40%	0.59%	0.57%	0.92%	1.22%	1.19%	1.45%	1.86%	1.82%
2026	0.39%	0.59%	0.57%	0.91%	1.21%	1.18%	1.44%	1.85%	1.81%
2027	0.38%	0.58%	0.56%	0.89%	1.20%	1.17%	1.42%	1.83%	1.79%
2028	0.36%	0.57%	0.55%	0.87%	1.18%	1.15%	1.40%	1.81%	1.77%
2029	0.36%	0.56%	0.54%	0.86%	1.17%	1.14%	1.39%	1.80%	1.76%
2030	0.35%	0.55%	0.53%	0.85%	1.16%	1.13%	1.37%	1.78%	1.74%
2031	0.34%	0.54%	0.52%	0.84%	1.14%	1.11%	1.35%	1.76%	1.72%
2032	0.33%	0.53%	0.51%	0.82%	1.13%	1.10%	1.34%	1.74%	1.70%
2033	0.31%	0.52%	0.50%	0.80%	1.10%	1.07%	1.31%	1.70%	1.67%
2034	0.31%	0.52%	0.50%	0.80%	1.10%	1.07%	1.30%	1.70%	1.66%
2035	0.29%	0.50%	0.48%	0.77%	1.07%	1.04%	1.27%	1.66%	1.63%
2036	0.29%	0.50%	0.48%	0.77%	1.06%	1.04%	1.26%	1.66%	1.62%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,578,412	5,971,097	7,549,509	1,595,805	6,066,404	7,662,209	1,613,323	6,162,529	7,775,852
2018	1,587,092	6,012,753	7,599,845	1,613,418	6,151,182	7,764,600	1,640,126	6,291,916	7,932,042
2019	1,595,805	6,052,608	7,648,413	1,631,228	6,232,948	7,864,176	1,667,426	6,417,703	8,085,130
2020	1,609,012	6,112,216	7,721,229	1,653,775	6,334,505	7,988,279	1,699,851	6,563,933	8,263,784
2021	1,613,301	6,127,074	7,740,376	1,667,385	6,389,378	8,056,763	1,723,469	6,662,064	8,385,533
2022	1,622,073	6,162,372	7,784,445	1,685,715	6,465,591	8,151,306	1,752,198	6,783,052	8,535,250
2023	1,630,862	6,196,729	7,827,590	1,704,218	6,540,937	8,245,155	1,781,417	6,903,822	8,685,239
2024	1,644,200	6,252,067	7,896,268	1,727,580	6,638,600	8,366,181	1,815,978	7,048,898	8,864,877
2025	1,648,453	6,263,063	7,911,516	1,741,670	6,689,879	8,431,549	1,841,242	7,146,032	8,987,275
2026	1,657,225	6,295,728	7,952,953	1,760,558	6,764,492	8,525,050	1,871,765	7,268,866	9,140,631
2027	1,665,973	6,327,787	7,993,760	1,779,541	6,838,742	8,618,282	1,902,682	7,392,193	9,294,875
2028	1,679,279	6,381,571	8,060,850	1,803,402	6,936,583	8,739,986	1,938,994	7,541,713	9,480,708
2029	1,683,357	6,390,275	8,073,632	1,817,698	6,985,929	8,803,627	1,965,572	7,639,642	9,605,214
2030	1,691,999	6,421,016	8,113,015	1,836,888	7,059,515	8,896,403	1,997,581	7,764,807	9,762,389
2031	1,700,497	6,451,340	8,151,837	1,855,912	7,132,760	8,988,672	2,029,584	7,890,302	9,919,886
2032	1,713,517	6,503,992	8,217,509	1,879,734	7,231,117	9,110,851	2,066,857	8,044,592	10,111,449
2033	1,717,088	6,510,157	8,227,245	1,893,512	7,277,646	9,171,158	2,093,641	8,141,638	10,235,279
2034	1,725,185	6,539,063	8,264,248	1,912,088	7,350,000	9,262,088	2,125,696	8,268,575	10,394,272
2035	1,733,147	6,567,076	8,300,224	1,930,510	7,421,107	9,351,616	2,157,762	8,394,374	10,552,136
2036	1,745,698	6,618,235	8,363,933	1,953,860	7,518,885	9,472,745	2,195,311	8,551,482	10,746,794

Annual Change

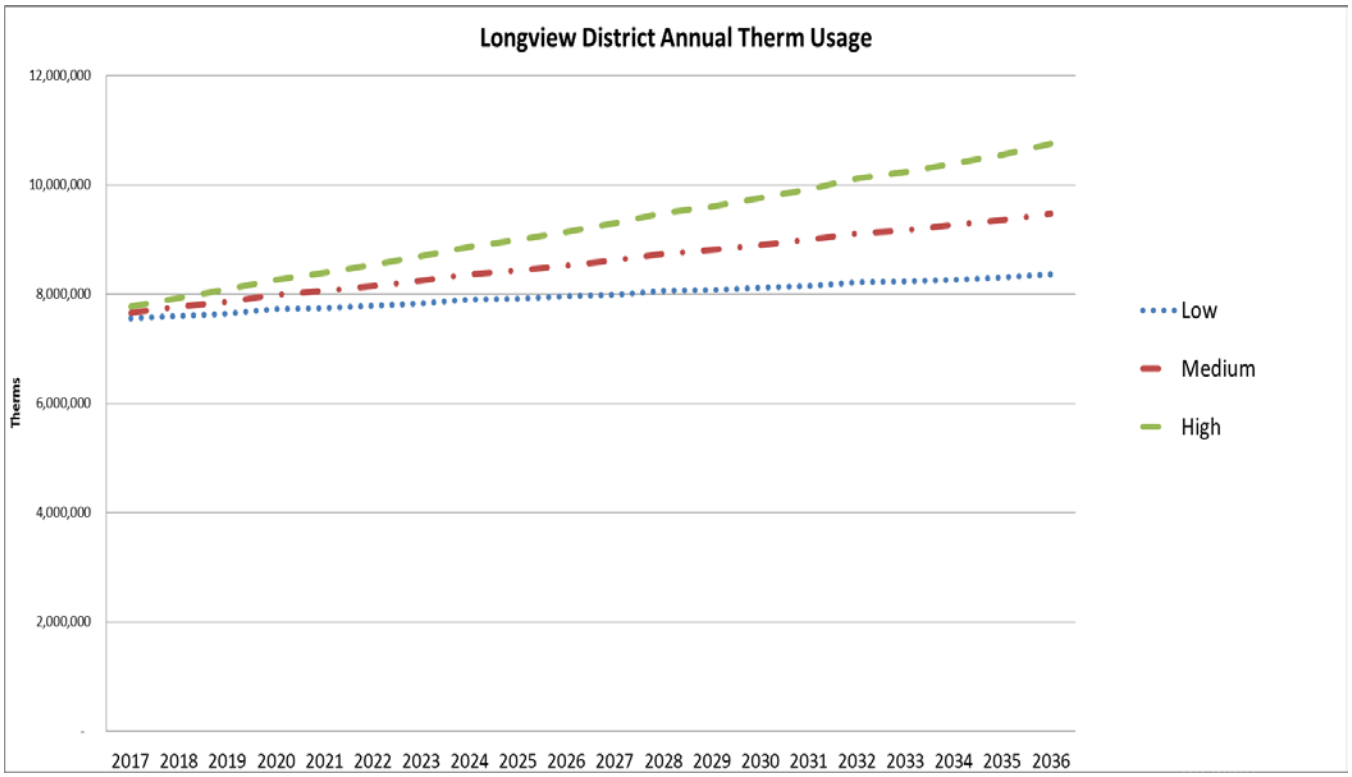
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.55%	0.70%	0.67%	1.10%	1.40%	1.34%	1.66%	2.10%	2.01%
2019	0.55%	0.66%	0.64%	1.10%	1.33%	1.28%	1.66%	2.00%	1.93%
2020	0.83%	0.98%	0.95%	1.38%	1.63%	1.58%	1.94%	2.28%	2.21%
2021	0.27%	0.24%	0.25%	0.82%	0.87%	0.86%	1.39%	1.50%	1.47%
2022	0.54%	0.58%	0.57%	1.10%	1.19%	1.17%	1.67%	1.82%	1.79%
2023	0.54%	0.56%	0.55%	1.10%	1.17%	1.15%	1.67%	1.78%	1.76%
2024	0.82%	0.89%	0.88%	1.37%	1.49%	1.47%	1.94%	2.10%	2.07%
2025	0.26%	0.18%	0.19%	0.82%	0.77%	0.78%	1.39%	1.38%	1.38%
2026	0.53%	0.52%	0.52%	1.08%	1.12%	1.11%	1.66%	1.72%	1.71%
2027	0.53%	0.51%	0.51%	1.08%	1.10%	1.09%	1.65%	1.70%	1.69%
2028	0.80%	0.85%	0.84%	1.34%	1.43%	1.41%	1.91%	2.02%	2.00%
2029	0.24%	0.14%	0.16%	0.79%	0.71%	0.73%	1.37%	1.30%	1.31%
2030	0.51%	0.48%	0.49%	1.06%	1.05%	1.05%	1.63%	1.64%	1.64%
2031	0.50%	0.47%	0.48%	1.04%	1.04%	1.04%	1.60%	1.62%	1.61%
2032	0.77%	0.82%	0.81%	1.28%	1.38%	1.36%	1.84%	1.96%	1.93%
2033	0.21%	0.09%	0.12%	0.73%	0.64%	0.66%	1.30%	1.21%	1.22%
2034	0.47%	0.44%	0.45%	0.98%	0.99%	0.99%	1.53%	1.56%	1.55%
2035	0.46%	0.43%	0.44%	0.96%	0.97%	0.97%	1.51%	1.52%	1.52%
2036	0.72%	0.78%	0.77%	1.21%	1.32%	1.30%	1.74%	1.87%	1.84%

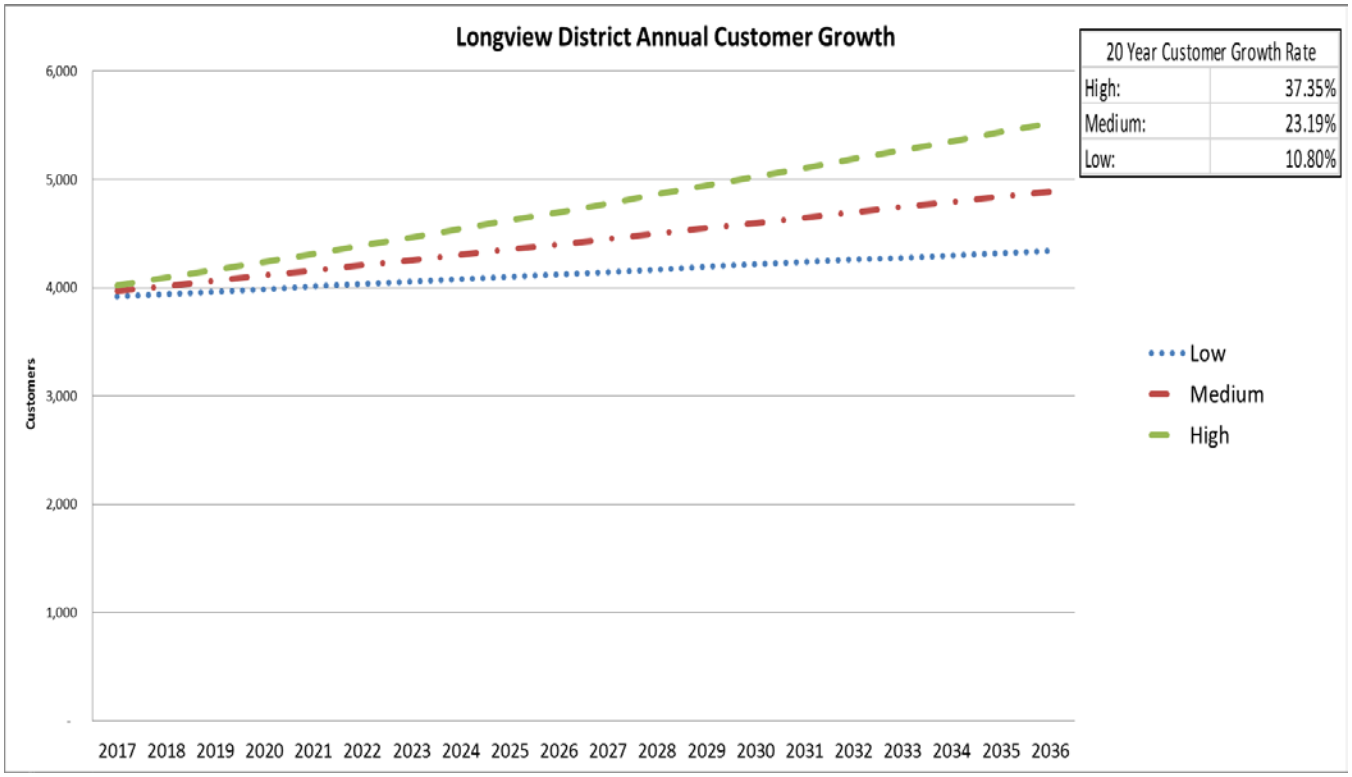
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,708	1,210	3,918	2,738	1,231	3,968	2,768	1,251	4,019
2018	2,723	1,219	3,942	2,768	1,249	4,017	2,813	1,279	4,093
2019	2,738	1,228	3,966	2,798	1,267	4,065	2,860	1,307	4,167
2020	2,753	1,236	3,989	2,829	1,284	4,113	2,907	1,333	4,241
2021	2,768	1,244	4,012	2,860	1,301	4,161	2,956	1,360	4,315
2022	2,783	1,252	4,035	2,891	1,318	4,209	3,005	1,386	4,391
2023	2,798	1,260	4,058	2,923	1,334	4,257	3,054	1,413	4,467
2024	2,813	1,268	4,080	2,955	1,351	4,306	3,105	1,439	4,544
2025	2,828	1,276	4,103	2,987	1,368	4,354	3,156	1,466	4,622
2026	2,843	1,283	4,126	3,019	1,384	4,403	3,208	1,493	4,701
2027	2,857	1,291	4,148	3,051	1,401	4,452	3,261	1,520	4,781
2028	2,872	1,298	4,171	3,084	1,417	4,501	3,314	1,547	4,861
2029	2,887	1,306	4,193	3,116	1,434	4,550	3,368	1,574	4,943
2030	2,902	1,313	4,215	3,149	1,451	4,600	3,423	1,602	5,025
2031	2,916	1,321	4,237	3,181	1,467	4,648	3,477	1,630	5,107
2032	2,931	1,328	4,258	3,214	1,484	4,697	3,532	1,658	5,190
2033	2,945	1,335	4,280	3,245	1,500	4,745	3,586	1,686	5,272
2034	2,958	1,342	4,301	3,277	1,516	4,794	3,641	1,714	5,355
2035	2,972	1,349	4,321	3,308	1,533	4,841	3,696	1,742	5,437
2036	2,985	1,356	4,342	3,340	1,549	4,889	3,750	1,770	5,520

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.55%	0.75%	0.61%	1.10%	1.49%	1.22%	1.65%	2.24%	1.84%
2019	0.55%	0.71%	0.60%	1.10%	1.42%	1.20%	1.66%	2.14%	1.81%
2020	0.54%	0.68%	0.59%	1.10%	1.36%	1.18%	1.66%	2.05%	1.78%
2021	0.54%	0.66%	0.58%	1.10%	1.32%	1.17%	1.66%	1.99%	1.76%
2022	0.54%	0.64%	0.57%	1.09%	1.29%	1.15%	1.66%	1.94%	1.75%
2023	0.54%	0.63%	0.57%	1.09%	1.27%	1.15%	1.66%	1.91%	1.74%
2024	0.54%	0.61%	0.56%	1.09%	1.24%	1.14%	1.66%	1.86%	1.72%
2025	0.53%	0.61%	0.56%	1.08%	1.23%	1.13%	1.65%	1.86%	1.72%
2026	0.53%	0.60%	0.55%	1.08%	1.22%	1.12%	1.65%	1.84%	1.71%
2027	0.53%	0.59%	0.55%	1.07%	1.20%	1.11%	1.64%	1.82%	1.70%
2028	0.52%	0.58%	0.54%	1.06%	1.18%	1.10%	1.63%	1.78%	1.68%
2029	0.52%	0.57%	0.53%	1.06%	1.17%	1.09%	1.63%	1.77%	1.67%
2030	0.51%	0.57%	0.53%	1.05%	1.16%	1.08%	1.62%	1.75%	1.66%
2031	0.50%	0.56%	0.52%	1.03%	1.14%	1.06%	1.59%	1.73%	1.64%
2032	0.49%	0.55%	0.51%	1.01%	1.13%	1.05%	1.57%	1.71%	1.61%
2033	0.48%	0.54%	0.50%	0.99%	1.10%	1.03%	1.54%	1.68%	1.59%
2034	0.47%	0.54%	0.49%	0.97%	1.10%	1.01%	1.52%	1.67%	1.57%
2035	0.46%	0.52%	0.48%	0.96%	1.07%	0.99%	1.50%	1.64%	1.54%
2036	0.45%	0.52%	0.47%	0.94%	1.07%	0.98%	1.48%	1.63%	1.53%





20 Year Customer Growth Rate	
High:	37.35%
Medium:	23.19%
Low:	10.80%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

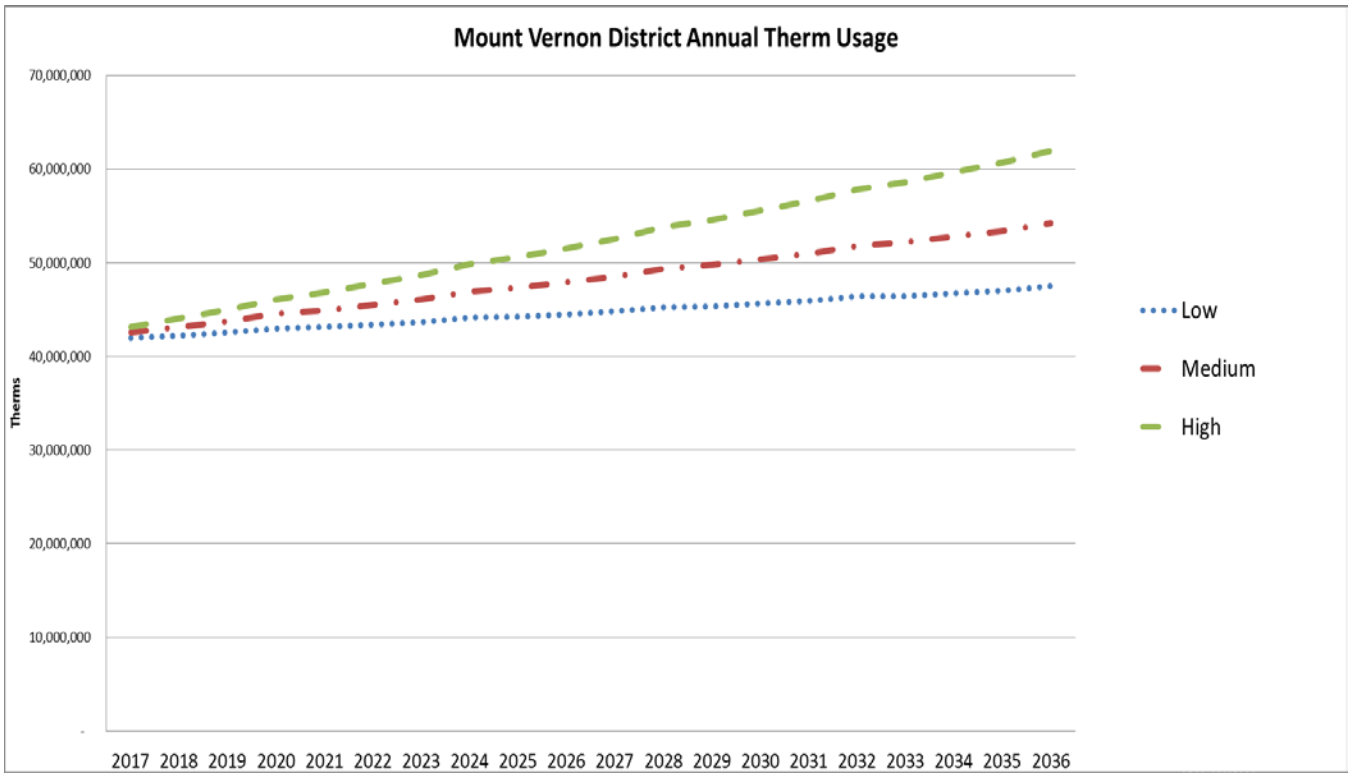
Mount Vernon District

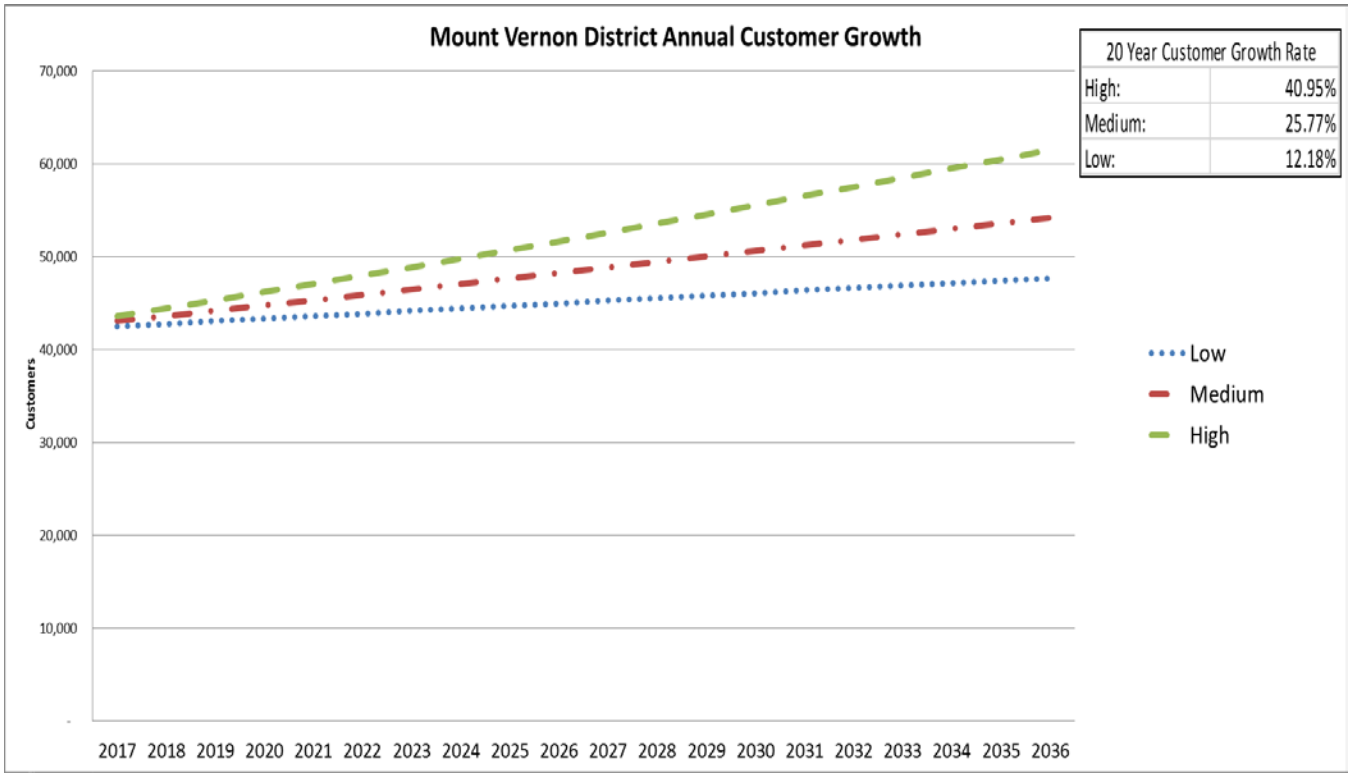
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	30,363,891	11,598,519	41,962,409	30,802,534	11,772,237	42,574,771	31,244,500	11,947,317	43,191,817	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	30,574,581	11,680,272	42,254,853	31,230,296	11,938,314	43,168,610	31,895,791	12,200,319	44,096,111	0.69%	0.70%	0.70%	1.39%	1.41%	1.39%	2.08%	2.12%	2.09%
2019	30,782,948	11,760,401	42,543,349	31,656,352	12,102,276	43,758,628	32,549,074	12,451,908	45,000,982	0.68%	0.69%	0.68%	1.36%	1.37%	1.37%	2.05%	2.06%	2.05%
2020	31,178,580	11,839,430	43,018,010	32,277,731	12,265,137	44,542,867	33,409,020	12,703,574	46,112,594	1.29%	0.67%	1.12%	1.96%	1.35%	1.79%	2.64%	2.02%	2.47%
2021	31,195,862	11,917,667	43,113,529	32,509,457	12,427,493	44,936,950	33,870,756	12,956,206	46,826,962	0.06%	0.66%	0.22%	0.72%	1.32%	0.88%	1.38%	1.99%	1.55%
2022	31,401,765	11,995,548	43,397,313	32,939,242	12,590,228	45,529,471	34,543,419	13,211,175	47,754,594	0.66%	0.65%	0.66%	1.32%	1.31%	1.32%	1.99%	1.97%	1.98%
2023	31,606,933	12,072,891	43,679,824	33,370,392	12,752,952	46,123,344	35,222,764	13,467,871	48,690,635	0.65%	0.64%	0.65%	1.31%	1.29%	1.30%	1.97%	1.94%	1.96%
2024	32,006,121	12,150,091	44,156,212	34,010,913	12,916,487	46,927,400	36,130,936	13,727,610	49,858,546	1.26%	0.64%	1.09%	1.92%	1.28%	1.74%	2.58%	1.93%	2.40%
2025	32,017,228	12,226,860	44,244,088	34,241,327	13,080,214	47,321,541	36,608,916	13,989,411	50,598,328	0.03%	0.63%	0.20%	0.68%	1.27%	0.84%	1.32%	1.91%	1.48%
2026	32,222,007	12,303,537	44,525,543	34,680,376	13,244,849	47,925,225	37,314,677	14,254,443	51,569,121	0.64%	0.63%	0.64%	1.28%	1.26%	1.28%	1.93%	1.89%	1.92%
2027	32,426,182	12,379,888	44,806,070	35,121,029	13,409,890	48,530,920	38,027,696	14,521,914	52,549,610	0.63%	0.62%	0.63%	1.27%	1.25%	1.26%	1.91%	1.88%	1.90%
2028	32,828,571	12,455,932	45,284,503	35,780,056	13,575,362	49,355,417	38,984,280	14,791,865	53,776,145	1.24%	0.61%	1.07%	1.88%	1.23%	1.70%	2.52%	1.86%	2.33%
2029	32,833,445	12,531,931	45,365,376	36,008,669	13,741,839	49,750,508	39,478,152	15,065,265	54,543,417	0.01%	0.61%	0.18%	0.64%	1.23%	0.80%	1.27%	1.85%	1.43%
2030	33,036,257	12,607,528	45,643,786	36,455,011	13,908,523	50,363,534	40,214,587	15,340,800	55,555,386	0.62%	0.60%	0.61%	1.24%	1.21%	1.23%	1.87%	1.83%	1.86%
2031	33,237,408	12,682,607	45,920,015	36,900,569	14,075,149	50,975,719	40,954,498	15,618,047	56,572,545	0.61%	0.60%	0.61%	1.22%	1.20%	1.22%	1.84%	1.81%	1.83%
2032	33,640,271	12,756,954	46,397,224	37,572,142	14,241,231	51,813,374	41,950,739	15,896,197	57,846,936	1.21%	0.59%	1.04%	1.82%	1.18%	1.64%	2.43%	1.78%	2.25%
2033	33,634,248	12,830,673	46,464,921	37,788,039	14,406,968	52,195,008	42,442,435	16,175,551	58,617,986	-0.02%	0.58%	0.15%	0.57%	1.16%	0.74%	1.17%	1.76%	1.33%
2034	33,830,017	12,903,842	46,733,859	38,229,973	14,572,508	52,802,480	43,190,364	16,456,337	59,646,701	0.58%	0.57%	0.58%	1.17%	1.15%	1.16%	1.76%	1.74%	1.75%
2035	34,024,186	12,976,454	47,000,640	38,671,027	14,737,837	53,408,864	43,941,461	16,738,560	60,680,020	0.57%	0.56%	0.57%	1.15%	1.13%	1.15%	1.74%	1.71%	1.73%
2036	34,425,103	13,048,563	47,473,667	39,349,207	14,903,029	54,252,237	44,967,507	17,022,285	61,989,792	1.18%	0.56%	1.01%	1.75%	1.12%	1.58%	2.34%	1.70%	2.16%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	31,777	403,753	435,530	32,253	409,602	441,855	32,732	415,495	448,227	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	32,001	406,558	438,559	32,708	415,297	448,004	33,426	424,166	457,591	0.70%	0.69%	0.70%	1.41%	1.39%	1.39%	2.12%	2.09%	2.09%
2019	32,220	409,330	441,551	33,157	420,965	454,122	34,115	432,858	466,972	0.69%	0.68%	0.68%	1.37%	1.36%	1.37%	2.06%	2.05%	2.05%
2020	32,437	412,081	444,518	33,603	426,630	460,233	34,804	441,604	476,408	0.67%	0.67%	0.67%	1.35%	1.35%	1.35%	2.02%	2.02%	2.02%
2021	32,651	414,820	447,471	34,048	432,308	466,356	35,496	450,431	485,928	0.66%	0.66%	0.66%	1.32%	1.33%	1.33%	1.99%	2.00%	2.00%
2022	32,865	417,557	450,421	34,494	438,020	472,514	36,195	459,371	495,566	0.65%	0.66%	0.66%	1.31%	1.32%	1.32%	1.97%	1.98%	1.98%
2023	33,076	420,283	453,359	34,940	443,749	478,689	36,898	468,399	505,297	0.64%	0.65%	0.65%	1.29%	1.31%	1.31%	1.94%	1.97%	1.96%
2024	33,288	423,012	456,300	35,388	449,524	484,912	37,610	477,560	515,169	0.64%	0.65%	0.65%	1.28%	1.30%	1.30%	1.93%	1.96%	1.95%
2025	33,498	425,734	459,232	35,836	455,320	491,156	38,327	486,815	525,142	0.63%	0.64%	0.64%	1.27%	1.29%	1.29%	1.91%	1.94%	1.94%
2026	33,708	428,454	462,162	36,287	461,153	497,440	39,053	496,191	535,244	0.63%	0.64%	0.64%	1.26%	1.28%	1.28%	1.89%	1.93%	1.92%
2027	33,918	431,167	465,084	36,739	467,007	503,746	39,786	505,664	545,450	0.62%	0.63%	0.63%	1.25%	1.27%	1.27%	1.88%	1.91%	1.91%
2028	34,126	433,872	467,998	37,193	472,884	510,077	40,526	515,236	555,762	0.61%	0.63%	0.63%	1.23%	1.26%	1.26%	1.86%	1.89%	1.89%
2029	34,334	436,576	470,910	37,649	478,798	516,447	41,275	524,931	566,206	0.61%	0.62%	0.62%	1.23%	1.25%	1.25%	1.85%	1.88%	1.88%
2030	34,541	439,270	473,812	38,106	484,727	522,832	42,030	534,713	576,743	0.60%	0.62%	0.62%	1.21%	1.24%	1.24%	1.83%	1.86%	1.86%
2031	34,747	441,943	476,690	38,562	490,646	529,208	42,789	544,543	587,332	0.60%	0.61%	0.61%	1.20%	1.22%	1.22%	1.81%	1.84%	1.84%
2032	34,951	444,590	479,540	39,017	496,547	535,564	43,551	554,405	597,956	0.59%	0.60%	0.60%	1.18%	1.20%	1.20%	1.78%	1.81%	1.81%
2033	35,153	447,215	482,367	39,471	502,435	541,906	44,317	564,308	608,625	0.58%	0.59%	0.59%	1.16%	1.19%	1.18%	1.76%	1.79%	1.78%
2034	35,353	449,816	485,169	39,925	508,307	548,232	45,086	574,245	619,331	0.57%	0.58%	0.58%	1.15%	1.17%	1.17%	1.74%	1.76%	1.76%
2035	35,552	452,396	487,948	40,378	514,167	554,545	45,859	584,225	630,084	0.56%	0.57%	0.57%	1.13%	1.15%	1.15%	1.71%	1.74%	1.74%
2036	35,749	454,955	490,704	40,830	520,015	560,846	46,636	594,244	640,881	0.56%	0.57%	0.56%	1.12%	1.14%	1.14%	1.70%	1.72%	1.71%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	25,430,747	16,531,662	41,962,409	25,742,462	16,832,309	42,574,771	26,056,075	17,135,742	43,191,817	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	25,586,992	16,667,861	42,254,853	26,058,783	17,109,827	43,168,610	26,536,338	17,559,772	44,096,111	0.61%	0.82%	0.70%	1.23%	1.65%	1.39%	1.84%	2.47%	2.09%
2019	25,743,990	16,799,360	42,543,349	26,378,568	17,380,059	43,758,628	27,024,808	17,976,174	45,000,982	0.61%	0.79%	0.68%	1.23%	1.58%	1.37%	1.84%	2.37%	2.05%
2020	26,018,990	16,999,020	43,018,010	26,822,706	17,720,161	44,542,867	27,646,164	18,466,430	46,112,594	1.07%	1.19%	1.12%	1.68%	1.96%	1.79%	2.30%	2.73%	2.47%
2021	26,060,140	17,053,389	43,113,529	27,028,433	17,908,516	44,936,950	28,026,528	18,800,434	46,826,962	0.16%	0.32%	0.22%	0.77%	1.06%	0.88%	1.38%	1.81%	1.55%
2022	26,219,201	17,178,112	43,397,313	27,358,376	18,171,095	45,529,471	28,539,720	19,214,874	47,754,594	0.61%	0.73%	0.66%	1.22%	1.47%	1.32%	1.83%	2.20%	1.98%
2023	26,378,730	17,301,094	43,679,824	27,691,300	18,432,044	46,123,344	29,060,672	19,629,963	48,690,635	0.61%	0.72%	0.65%	1.22%	1.44%	1.30%	1.83%	2.16%	1.96%
2024	26,659,025	17,497,187	44,156,212	28,154,421	18,772,979	46,927,400	29,723,929	20,134,618	49,858,546	1.06%	1.13%	1.09%	1.67%	1.85%	1.74%	2.28%	2.57%	2.40%
2025	26,699,181	17,544,907	44,244,088	28,366,127	18,955,414	47,321,541	30,126,173	20,472,154	50,598,328	0.15%	0.27%	0.20%	0.75%	0.97%	0.84%	1.35%	1.68%	1.48%
2026	26,859,514	17,666,030	44,525,543	28,706,815	19,218,410	47,925,225	30,668,916	20,900,204	51,569,121	0.60%	0.69%	0.64%	1.20%	1.39%	1.28%	1.80%	2.09%	1.92%
2027	27,019,799	17,786,271	44,806,070	29,049,435	19,481,484	48,530,920	31,217,979	21,331,631	52,549,610	0.60%	0.68%	0.63%	1.19%	1.37%	1.26%	1.79%	2.06%	1.90%
2028	27,302,856	17,981,647	45,284,503	29,526,565	19,828,852	49,355,417	31,916,440	21,859,705	53,776,145	1.05%	1.10%	1.07%	1.64%	1.78%	1.70%	2.24%	2.48%	2.33%
2029	27,339,694	18,025,682	45,365,376	29,739,314	20,011,194	49,750,508	32,333,319	22,210,098	54,543,417	0.13%	0.24%	0.18%	0.72%	0.92%	0.80%	1.31%	1.60%	1.43%
2030	27,499,324	18,144,462	45,643,786	30,086,600	20,276,934	50,363,534	32,899,691	22,655,695	55,555,386	0.58%	0.66%	0.61%	1.17%	1.33%	1.23%	1.75%	2.01%	1.86%
2031	27,657,030	18,262,986	45,920,015	30,431,691	20,544,028	50,975,719	33,465,733	23,106,811	56,572,545	0.57%	0.65%	0.61%	1.15%	1.32%	1.22%	1.72%	1.99%	1.83%
2032	27,938,725	18,458,499	46,397,224	30,913,838	20,899,536	51,813,374	34,185,313	23,661,624	57,846,936	1.02%	1.07%	1.04%	1.58%	1.73%	1.64%	2.15%	2.40%	2.25%
2033	27,966,831	18,498,090	46,464,921	31,115,361	21,079,646	52,195,008	34,596,628	24,021,358	58,617,986	0.10%	0.21%	0.15%	0.65%	0.86%	0.74%	1.20%	1.52%	1.33%
2034	28,118,996	18,614,863	46,733,859	31,453,958	21,348,523	52,802,480	35,161,354	24,485,347	59,646,701	0.54%	0.63%	0.58%	1.09%	1.28%	1.16%	1.63%	1.93%	1.75%
2035	28,269,351	18,731,289	47,000,640	31,790,338	21,618,526	53,408,864	35,725,405	24,954,615	60,680,020	0.53%	0.63%	0.57%	1.07%	1.26%	1.15%	1.60%	1.92%	1.73%
2036	28,546,755	18,926,912	47,473,667	32,270,332	21,981,904	54,252,237	36,453,660	25,536,132	61,989,792	0.98%	1.04%	1.01%	1.51%	1.68%	1.58%	2.04%	2.33%	2.16%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	37,643	4,881	42,524	38,104	4,976	43,080	38,568	5,072	43,640	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	37,874	4,925	42,799	38,572	5,064	43,637	39,279	5,207	44,486	0.61%	0.89%	0.65%	1.23%	1.77%	1.29%	1.84%	2.66%	1.94%
2019	38,106	4,967	43,073	39,045	5,151	44,196	40,002	5,340	45,342	0.61%	0.85%	0.64%	1.23%	1.71%	1.28%	1.84%	2.56%	1.92%
2020	38,340	5,008	43,347	39,524	5,236	44,760	40,737	5,473	46,210	0.61%	0.83%	0.64%	1.23%	1.65%	1.28%	1.84%	2.48%	1.91%
2021	38,574	5,048	43,622	40,007	5,321	45,328	41,484	5,606	47,090	0.61%	0.81%	0.63%	1.22%	1.62%	1.27%	1.83%	2.43%	1.91%
2022	38,810	5,089	43,898	40,495	5,406	45,901	42,243	5,741	47,984	0.61%	0.80%	0.63%	1.22%	1.60%	1.26%	1.83%	2.40%	1.90%
2023	39,046	5,128	44,174	40,988	5,491	46,479	43,014	5,876	48,890	0.61%	0.78%	0.63%	1.22%	1.57%	1.26%	1.82%	2.36%	1.89%
2024	39,283	5,168	44,451	41,485	5,577	47,062	43,797	6,014	49,811	0.61%	0.78%	0.63%	1.21%	1.56%	1.25%	1.82%	2.34%	1.88%
2025	39,520	5,208	44,728	41,986	5,662	47,649	44,591	6,152	50,743	0.60%	0.77%	0.62%	1.21%	1.54%	1.25%	1.81%	2.31%	1.87%
2026	39,757	5,248	45,005	42,490	5,749	48,239	45,394	6,293	51,687	0.60%	0.76%	0.62%	1.20%	1.53%	1.24%	1.80%	2.29%	1.86%
2027	39,994	5,287	45,281	42,997	5,835	48,833	46,206	6,436	52,642	0.60%	0.75%	0.61%	1.19%	1.51%	1.23%	1.79%	2.27%	1.85%
2028	40,231	5,327	45,557	43,507	5,922	49,429	47,027	6,580	53,607	0.59%	0.74%	0.61%	1.18%	1.49%	1.22%	1.78%	2.24%	1.83%
2029	40,468	5,366	45,834	44,018	6,010	50,029	47,856	6,727	54,583	0.59%	0.74%	0.61%	1.18%	1.49%	1.21%	1.76%	2.23%	1.82%
2030	40,704	5,405	46,109	44,532	6,098	50,630	48,694	6,875	55,570	0.58%	0.73%	0.60%	1.17%	1.46%	1.20%	1.75%	2.20%	1.81%
2031	40,937	5,444	46,381	45,043	6,187	51,230	49,532	7,025	56,557	0.57%	0.72%	0.59%	1.15%	1.45%	1.18%	1.72%	2.18%	1.78%
2032	41,168	5,483	46,651	45,550	6,276	51,826	50,369	7,177	57,546	0.56%	0.72%	0.58%	1.13%	1.44%	1.16%	1.69%	2.16%	1.75%
2033	41,395	5,522	46,918	46,054	6,365	52,419	51,205	7,331	58,536	0.55%	0.71%	0.57%	1.11%	1.42%	1.15%	1.66%	2.14%	1.72%
2034	41,621	5,561	47,182	46,555	6,455	53,010	52,041	7,486	59,527	0.54%	0.70%	0.56%	1.09%	1.41%	1.13%	1.63%	2.12%	1.69%
2035	41,843	5,600	47,443	47,053	6,545	53,598	52,875	7,643	60,519	0.53%	0.70%	0.55%	1.07%	1.40%	1.11%	1.60%	2.10%	1.67%
2036	42,063	5,638	47,702	47,548	6,635	54,183	53,709	7,802	61,512	0.53%	0.69%	0.55%	1.05%	1.38%	1.09%	1.58%	2.08%	1.64%





20 Year Customer Growth Rate	
High:	40.95%
Medium:	25.77%
Low:	12.18%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Pendleton District

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	8,381,710	3,951,268	12,332,979	8,479,600	4,003,722	12,483,322	8,578,169	4,056,568	12,634,737
2018	8,427,226	3,975,298	12,402,525	8,571,891	4,052,505	12,624,396	8,718,509	4,130,837	12,849,346
2019	8,471,825	3,998,625	12,470,449	8,662,890	4,100,182	12,763,072	8,857,752	4,203,912	13,061,664
2020	8,561,160	4,021,319	12,582,479	8,799,557	4,146,872	12,946,429	9,044,174	4,275,944	13,320,118
2021	8,558,557	4,043,627	12,602,184	8,841,477	4,193,062	13,034,539	9,133,511	4,347,661	13,481,173
2022	8,601,505	4,065,729	12,667,234	8,930,698	4,239,114	13,169,811	9,272,510	4,419,612	13,692,122
2023	8,643,402	4,087,234	12,730,636	9,018,243	4,284,198	13,302,441	9,409,692	4,490,486	13,900,177
2024	8,732,092	4,108,650	12,840,742	9,155,661	4,329,365	13,485,026	9,600,545	4,561,919	14,162,464
2025	8,726,889	4,129,761	12,856,651	9,194,203	4,374,163	13,568,365	9,687,815	4,633,202	14,321,016
2026	8,767,853	4,150,592	12,918,445	9,281,403	4,418,631	13,700,034	9,826,892	4,704,380	14,531,272
2027	8,808,598	4,171,322	12,979,920	9,368,764	4,463,152	13,831,916	9,967,091	4,776,070	14,743,161
2028	8,895,887	4,191,465	13,087,352	9,505,692	4,506,679	14,012,370	10,160,594	4,846,573	15,007,167
2029	8,888,014	4,211,641	13,099,656	9,540,973	4,550,527	14,091,500	10,246,028	4,918,005	15,164,033
2030	8,926,957	4,231,395	13,158,352	9,626,129	4,593,699	14,219,828	10,385,110	4,988,741	15,373,851
2031	8,965,366	4,250,963	13,216,329	9,710,859	4,636,728	14,347,588	10,524,420	5,059,656	15,584,076
2032	9,051,386	4,270,019	13,321,404	9,847,201	4,678,875	14,526,076	10,720,232	5,129,524	15,849,755
2033	9,039,873	4,288,950	13,328,823	9,876,782	4,720,984	14,597,766	10,799,615	5,199,719	15,999,333
2034	9,075,534	4,307,180	13,382,714	9,957,081	4,761,770	14,718,851	10,934,010	5,268,100	16,202,110
2035	9,110,415	4,325,044	13,435,459	10,036,080	4,801,964	14,838,044	11,066,972	5,335,868	16,402,840
2036	9,194,479	4,342,820	13,537,299	10,170,151	4,842,191	15,012,343	11,262,141	5,404,066	16,666,206

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.54%	0.61%	0.56%	1.09%	1.22%	1.13%	1.64%	1.83%	1.70%
2019	0.53%	0.59%	0.55%	1.06%	1.18%	1.10%	1.60%	1.77%	1.65%
2020	1.05%	0.57%	0.90%	1.58%	1.14%	1.44%	2.10%	1.71%	1.98%
2021	-0.03%	0.55%	0.16%	0.48%	1.11%	0.68%	0.99%	1.68%	1.21%
2022	0.50%	0.55%	0.52%	1.01%	1.10%	1.04%	1.52%	1.65%	1.56%
2023	0.49%	0.53%	0.50%	0.98%	1.06%	1.01%	1.48%	1.60%	1.52%
2024	1.03%	0.52%	0.86%	1.52%	1.05%	1.37%	2.03%	1.59%	1.89%
2025	-0.06%	0.51%	0.12%	0.42%	1.03%	0.62%	0.91%	1.56%	1.12%
2026	0.47%	0.50%	0.48%	0.95%	1.02%	0.97%	1.44%	1.54%	1.47%
2027	0.46%	0.50%	0.48%	0.94%	1.01%	0.96%	1.43%	1.52%	1.46%
2028	0.99%	0.48%	0.83%	1.46%	0.98%	1.30%	1.94%	1.48%	1.79%
2029	-0.09%	0.48%	0.09%	0.37%	0.97%	0.56%	0.84%	1.47%	1.05%
2030	0.44%	0.47%	0.45%	0.89%	0.95%	0.91%	1.36%	1.44%	1.38%
2031	0.43%	0.46%	0.44%	0.88%	0.94%	0.90%	1.34%	1.42%	1.37%
2032	0.96%	0.45%	0.80%	1.40%	0.91%	1.24%	1.86%	1.38%	1.70%
2033	-0.13%	0.44%	0.06%	0.30%	0.90%	0.49%	0.74%	1.37%	0.94%
2034	0.39%	0.43%	0.40%	0.81%	0.86%	0.83%	1.24%	1.32%	1.27%
2035	0.38%	0.41%	0.39%	0.79%	0.84%	0.81%	1.22%	1.29%	1.24%
2036	0.92%	0.41%	0.76%	1.34%	0.84%	1.17%	1.76%	1.28%	1.61%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	10,825	173,427	184,253	10,969	175,375	186,344	11,114	177,335	188,449
2018	10,891	174,337	185,228	11,103	177,218	188,321	11,317	180,138	191,455
2019	10,955	175,228	186,183	11,233	179,035	190,268	11,518	182,916	194,434
2020	11,017	176,100	187,117	11,361	180,824	192,185	11,715	185,669	197,383
2021	11,078	176,960	188,039	11,488	182,600	194,088	11,911	188,417	200,328
2022	11,139	177,817	188,956	11,614	184,378	195,992	12,109	191,185	203,293
2023	11,198	178,653	189,851	11,738	186,123	197,860	12,303	193,915	206,217
2024	11,257	179,489	190,746	11,861	187,878	199,739	12,498	196,677	209,175
2025	11,314	180,314	191,629	11,984	189,619	201,603	12,694	199,434	212,128
2026	11,371	181,128	192,500	12,106	191,349	203,455	12,889	202,188	215,076
2027	11,428	181,937	193,365	12,228	193,078	205,306	13,085	204,958	218,043
2028	11,483	182,723	194,206	12,347	194,774	207,121	13,278	207,690	220,969
2029	11,539	183,510	195,049	12,467	196,481	208,948	13,474	210,457	223,931
2030	11,593	184,281	195,873	12,585	198,161	210,746	13,668	213,193	226,861
2031	11,646	185,039	196,685	12,703	199,827	212,531	13,862	215,926	229,788
2032	11,699	185,776	197,474	12,819	201,457	214,276	14,053	218,613	232,667
2033	11,751	186,505	198,255	12,934	203,080	216,014	14,246	221,304	235,550
2034	11,800	187,205	199,005	13,046	204,649	217,695	14,433	223,922	238,355
2035	11,849	187,888	199,738	13,156	206,190	219,346	14,619	226,507	241,126
2036	11,898	188,564	200,463	13,266	207,724	220,990	14,806	229,093	243,899

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.61%	0.52%	0.53%	1.22%	1.05%	1.06%	1.83%	1.58%	1.60%
2019	0.59%	0.51%	0.52%	1.18%	1.03%	1.03%	1.77%	1.54%	1.56%
2020	0.57%	0.50%	0.50%	1.14%	1.00%	1.01%	1.71%	1.50%	1.52%
2021	0.55%	0.49%	0.49%	1.11%	0.98%	0.99%	1.68%	1.48%	1.49%
2022	0.55%	0.48%	0.49%	1.10%	0.97%	0.98%	1.65%	1.47%	1.48%
2023	0.53%	0.47%	0.47%	1.06%	0.95%	0.95%	1.60%	1.43%	1.44%
2024	0.52%	0.47%	0.47%	1.05%	0.94%	0.95%	1.59%	1.42%	1.43%
2025	0.51%	0.46%	0.46%	1.03%	0.93%	0.93%	1.56%	1.40%	1.41%
2026	0.50%	0.45%	0.45%	1.02%	0.91%	0.92%	1.54%	1.38%	1.39%
2027	0.50%	0.45%	0.45%	1.01%	0.90%	0.91%	1.52%	1.37%	1.38%
2028	0.48%	0.43%	0.44%	0.98%	0.88%	0.88%	1.48%	1.33%	1.34%
2029	0.48%	0.43%	0.43%	0.97%	0.88%	0.88%	1.47%	1.33%	1.34%
2030	0.47%	0.42%	0.42%	0.95%	0.85%	0.86%	1.44%	1.30%	1.31%
2031	0.46%	0.41%	0.41%	0.94%	0.84%	0.85%	1.42%	1.28%	1.29%
2032	0.45%	0.40%	0.40%	0.91%	0.82%	0.82%	1.38%	1.24%	1.25%
2033	0.44%	0.39%	0.40%	0.90%	0.81%	0.81%	1.37%	1.23%	1.24%
2034	0.43%	0.38%	0.38%	0.86%	0.77%	0.78%	1.32%	1.18%	1.19%
2035	0.41%	0.37%	0.37%	0.84%	0.75%	0.76%	1.29%	1.15%	1.16%
2036	0.41%	0.36%	0.36%	0.84%	0.74%	0.75%	1.28%	1.14%	1.15%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	4,800,846	7,532,133	12,332,979	4,830,844	7,652,477	12,483,322	4,860,937	7,773,801	12,634,737
2018	4,815,821	7,586,704	12,402,525	4,860,982	7,763,414	12,624,396	4,906,425	7,942,921	12,849,346
2019	4,830,841	7,639,608	12,470,449	4,891,304	7,871,768	12,763,072	4,952,333	8,109,331	13,061,664
2020	4,861,252	7,721,227	12,582,479	4,937,337	8,009,092	12,946,429	5,014,372	8,305,746	13,320,118
2021	4,860,804	7,741,380	12,602,184	4,952,074	8,082,465	13,034,539	5,044,767	8,436,405	13,481,173
2022	4,875,778	7,791,456	12,667,234	4,982,583	8,187,228	13,169,811	5,091,388	8,600,734	13,692,122
2023	4,890,705	7,839,931	12,730,636	5,013,092	8,289,348	13,302,441	5,138,151	8,762,026	13,900,177
2024	4,921,212	7,919,529	12,840,742	5,059,697	8,425,329	13,485,026	5,201,635	8,960,830	14,162,464
2025	4,920,425	7,936,226	12,856,651	5,074,111	8,494,254	13,568,365	5,232,104	9,088,912	14,321,016
2026	4,935,068	7,983,377	12,918,445	5,104,313	8,595,721	13,700,034	5,278,818	9,252,454	14,531,272
2027	4,949,578	8,030,341	12,979,920	5,134,328	8,697,588	13,831,916	5,325,380	9,417,782	14,743,161
2028	4,979,706	8,107,645	13,087,352	5,180,511	8,831,859	14,012,370	5,388,767	9,618,399	15,007,167
2029	4,978,114	8,121,542	13,099,656	5,193,615	8,897,885	14,091,500	5,417,752	9,746,281	15,164,033
2030	4,992,085	8,166,267	13,158,352	5,222,767	8,997,061	14,219,828	5,463,367	9,910,484	15,373,851
2031	5,005,632	8,210,698	13,216,329	5,251,112	9,096,476	14,347,588	5,507,843	10,076,234	15,584,076
2032	5,034,625	8,286,779	13,321,404	5,295,248	9,230,828	14,526,076	5,568,530	10,281,226	15,849,755
2033	5,031,263	8,297,560	13,328,823	5,304,958	9,292,808	14,597,766	5,592,668	10,406,665	15,999,333
2034	5,043,414	8,339,299	13,382,714	5,330,582	9,388,269	14,718,851	5,633,189	10,568,921	16,202,110
2035	5,055,125	8,380,334	13,435,459	5,355,337	9,482,707	14,838,044	5,672,430	10,730,411	16,402,840
2036	5,082,537	8,454,762	13,537,299	5,396,392	9,615,950	15,012,343	5,728,642	10,937,564	16,666,206

Annual Change

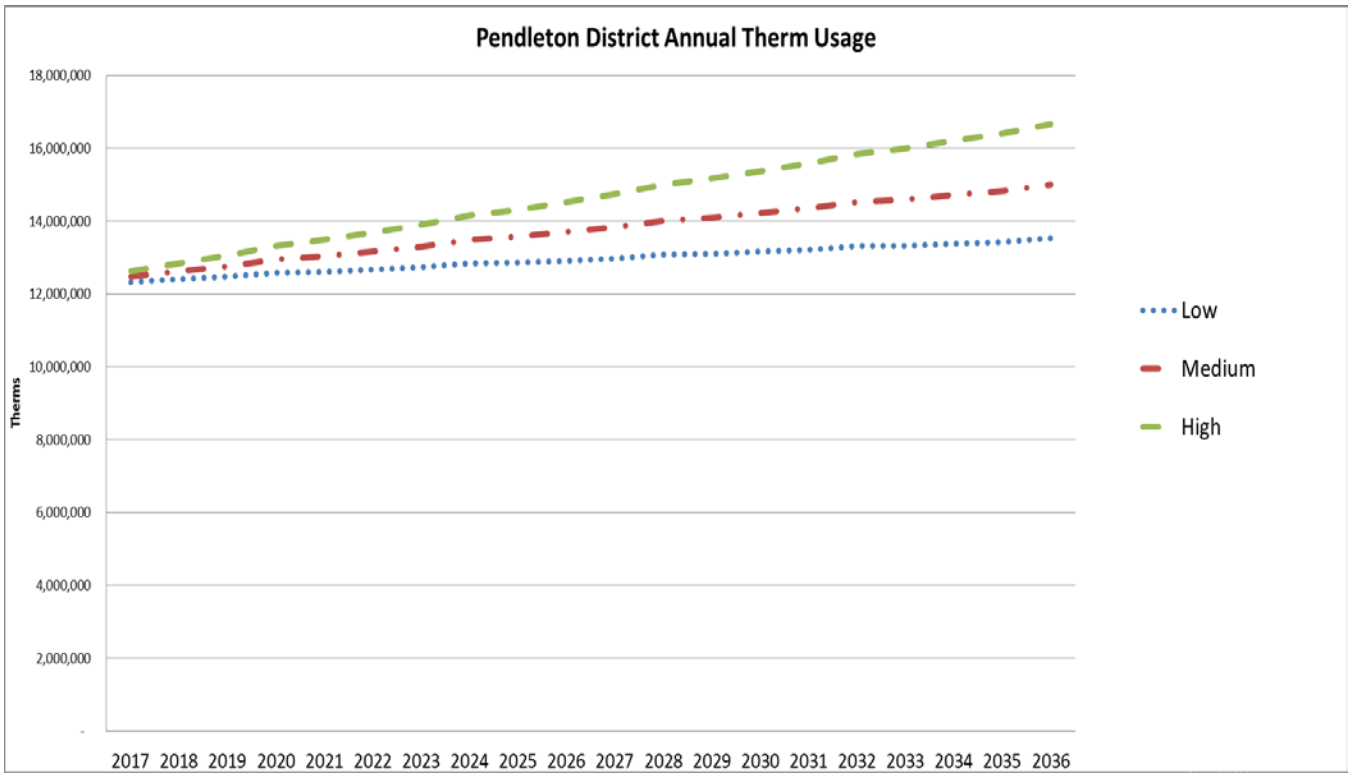
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.72%	0.56%	0.62%	1.45%	1.13%	0.94%	2.18%	1.70%
2019	0.31%	0.70%	0.55%	0.62%	1.40%	1.10%	0.94%	2.10%	1.65%
2020	0.63%	1.07%	0.90%	0.94%	1.74%	1.44%	1.25%	2.42%	1.98%
2021	-0.01%	0.26%	0.16%	0.30%	0.92%	0.68%	0.61%	1.57%	1.21%
2022	0.31%	0.65%	0.52%	0.62%	1.30%	1.04%	0.92%	1.95%	1.56%
2023	0.31%	0.62%	0.50%	0.61%	1.25%	1.01%	0.92%	1.88%	1.52%
2024	0.62%	1.02%	0.86%	0.93%	1.64%	1.37%	1.24%	2.27%	1.89%
2025	-0.02%	0.21%	0.12%	0.28%	0.82%	0.62%	0.59%	1.43%	1.12%
2026	0.30%	0.59%	0.48%	0.60%	1.19%	0.97%	0.89%	1.80%	1.47%
2027	0.29%	0.59%	0.48%	0.59%	1.19%	0.96%	0.88%	1.79%	1.46%
2028	0.61%	0.96%	0.83%	0.90%	1.54%	1.30%	1.19%	2.13%	1.79%
2029	-0.03%	0.17%	0.09%	0.25%	0.75%	0.56%	0.54%	1.33%	1.05%
2030	0.28%	0.55%	0.45%	0.56%	1.11%	0.91%	0.84%	1.68%	1.38%
2031	0.27%	0.54%	0.44%	0.54%	1.10%	0.90%	0.81%	1.67%	1.37%
2032	0.58%	0.93%	0.80%	0.84%	1.48%	1.24%	1.10%	2.03%	1.70%
2033	-0.07%	0.13%	0.06%	0.18%	0.67%	0.49%	0.43%	1.22%	0.94%
2034	0.24%	0.50%	0.40%	0.48%	1.03%	0.83%	0.72%	1.56%	1.27%
2035	0.23%	0.49%	0.39%	0.46%	1.01%	0.81%	0.70%	1.53%	1.24%
2036	0.54%	0.89%	0.76%	0.77%	1.41%	1.17%	0.99%	1.93%	1.61%

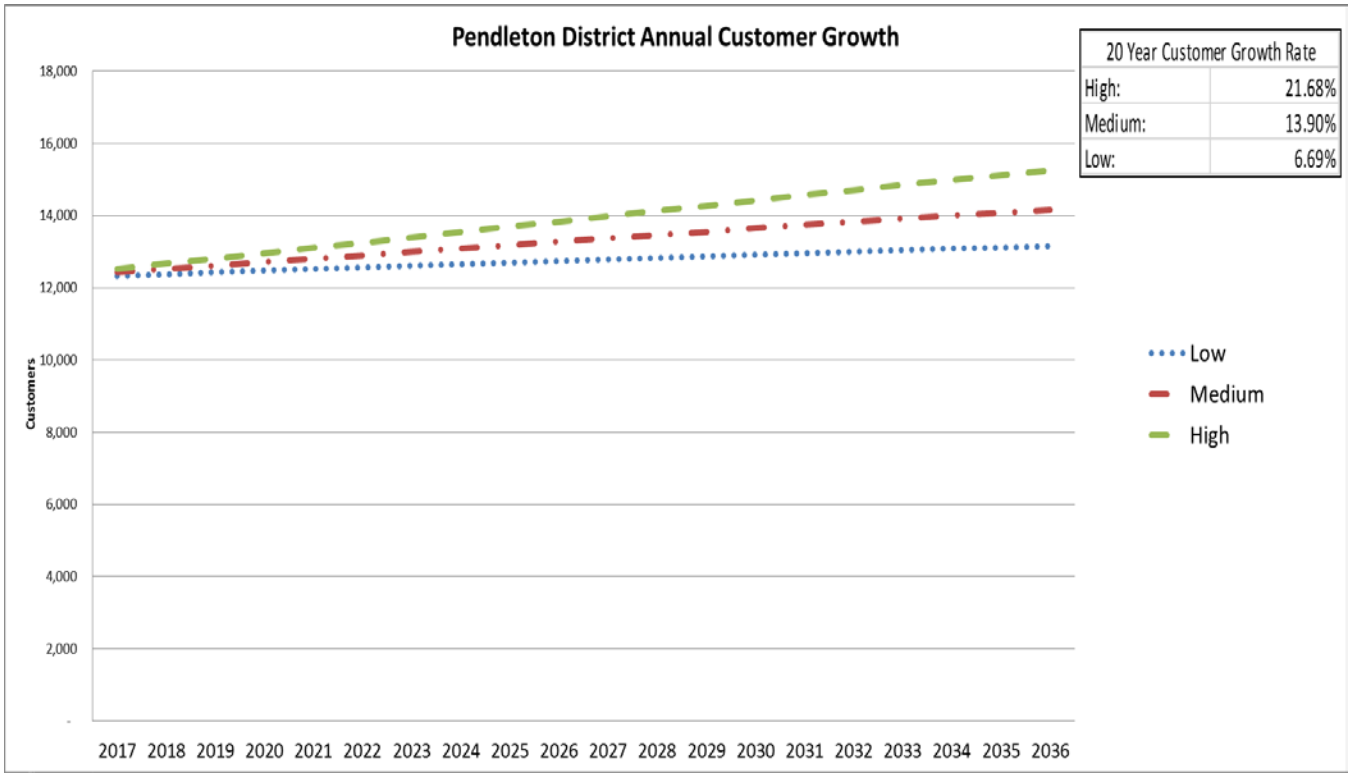
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	10,461	1,872	12,333	10,526	1,903	12,430	10,592	1,935	12,527
2018	10,494	1,886	12,380	10,592	1,933	12,525	10,691	1,980	12,671
2019	10,526	1,900	12,427	10,658	1,961	12,620	10,791	2,024	12,815
2020	10,559	1,914	12,473	10,724	1,990	12,714	10,892	2,068	12,960
2021	10,592	1,927	12,519	10,791	2,018	12,808	10,993	2,112	13,105
2022	10,624	1,941	12,565	10,857	2,046	12,903	11,094	2,156	13,250
2023	10,657	1,954	12,611	10,924	2,074	12,997	11,196	2,200	13,396
2024	10,689	1,967	12,657	10,990	2,102	13,092	11,299	2,245	13,543
2025	10,722	1,980	12,702	11,057	2,130	13,187	11,401	2,290	13,691
2026	10,754	1,993	12,747	11,122	2,158	13,280	11,503	2,335	13,838
2027	10,785	2,006	12,791	11,188	2,186	13,374	11,604	2,381	13,985
2028	10,816	2,019	12,835	11,253	2,214	13,467	11,705	2,426	14,131
2029	10,847	2,032	12,879	11,317	2,242	13,559	11,806	2,473	14,278
2030	10,878	2,044	12,922	11,381	2,270	13,651	11,905	2,519	14,424
2031	10,907	2,057	12,964	11,442	2,298	13,740	12,002	2,566	14,568
2032	10,936	2,069	13,005	11,502	2,326	13,828	12,096	2,612	14,708
2033	10,963	2,082	13,045	11,560	2,354	13,914	12,187	2,660	14,847
2034	10,990	2,094	13,084	11,616	2,381	13,997	12,275	2,706	14,981
2035	11,015	2,106	13,121	11,670	2,408	14,078	12,361	2,752	15,113
2036	11,040	2,118	13,158	11,722	2,436	14,158	12,444	2,800	15,243

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.77%	0.38%	0.62%	1.54%	0.76%	0.94%	2.31%	1.15%
2019	0.31%	0.74%	0.38%	0.62%	1.49%	0.76%	0.94%	2.23%	1.14%
2020	0.31%	0.72%	0.37%	0.62%	1.44%	0.75%	0.93%	2.16%	1.13%
2021	0.31%	0.71%	0.37%	0.62%	1.42%	0.74%	0.93%	2.13%	1.12%
2022	0.31%	0.70%	0.37%	0.62%	1.40%	0.74%	0.92%	2.10%	1.11%
2023	0.31%	0.68%	0.36%	0.61%	1.36%	0.73%	0.92%	2.04%	1.10%
2024	0.30%	0.68%	0.36%	0.61%	1.35%	0.73%	0.91%	2.03%	1.10%
2025	0.30%	0.67%	0.36%	0.60%	1.33%	0.72%	0.91%	2.00%	1.09%
2026	0.30%	0.66%	0.35%	0.60%	1.31%	0.71%	0.89%	1.97%	1.07%
2027	0.29%	0.65%	0.35%	0.59%	1.31%	0.71%	0.88%	1.97%	1.07%
2028	0.29%	0.63%	0.34%	0.58%	1.27%	0.69%	0.87%	1.91%	1.05%
2029	0.29%	0.64%	0.34%	0.57%	1.27%	0.69%	0.86%	1.91%	1.04%
2030	0.28%	0.62%	0.33%	0.56%	1.24%	0.67%	0.84%	1.86%	1.02%
2031	0.27%	0.62%	0.33%	0.54%	1.24%	0.66%	0.81%	1.86%	1.00%
2032	0.26%	0.60%	0.32%	0.52%	1.21%	0.64%	0.78%	1.82%	0.96%
2033	0.25%	0.60%	0.31%	0.50%	1.20%	0.62%	0.75%	1.81%	0.94%
2034	0.24%	0.58%	0.30%	0.48%	1.16%	0.60%	0.72%	1.75%	0.91%
2035	0.23%	0.57%	0.29%	0.46%	1.14%	0.58%	0.70%	1.71%	0.88%
2036	0.22%	0.57%	0.28%	0.45%	1.14%	0.57%	0.67%	1.72%	0.86%





20 Year Customer Growth Rate	
High:	21.68%
Medium:	13.90%
Low:	6.69%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Walla Walla District

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	8,252,420	4,286,379	12,538,799	8,335,850	4,339,324	12,675,175	8,419,791	4,392,656	12,812,447
2018	8,291,938	4,311,279	12,603,217	8,415,851	4,389,854	12,805,705	8,541,249	4,469,554	13,010,803
2019	8,330,946	4,335,651	12,666,597	8,495,264	4,439,650	12,934,914	8,662,492	4,545,850	13,208,343
2020	8,428,908	4,359,507	12,788,415	8,634,826	4,488,714	13,123,541	8,845,545	4,621,522	13,467,067
2021	8,407,048	4,382,890	12,789,937	8,651,452	4,537,112	13,188,564	8,902,894	4,696,643	13,599,537
2022	8,444,481	4,405,838	12,850,319	8,728,881	4,584,909	13,313,790	9,023,009	4,771,298	13,794,307
2023	8,481,400	4,428,322	12,909,722	8,805,634	4,632,023	13,437,657	9,142,681	4,845,336	13,988,017
2024	8,578,674	4,450,362	13,029,036	8,945,359	4,678,477	13,623,836	9,328,452	4,918,766	14,247,218
2025	8,553,850	4,471,969	13,025,819	8,957,353	4,724,282	13,681,635	9,380,975	4,991,591	14,372,566
2026	8,589,370	4,493,257	13,082,627	9,032,275	4,769,667	13,801,942	9,499,513	5,064,157	14,563,670
2027	8,624,292	4,514,163	13,138,455	9,106,281	4,814,479	13,920,760	9,617,150	5,136,204	14,753,354
2028	8,720,354	4,534,525	13,254,879	9,244,862	4,858,362	14,103,224	9,803,365	5,207,143	15,010,508
2029	8,692,169	4,554,396	13,246,565	9,251,085	4,901,404	14,152,489	9,848,882	5,277,080	15,125,962
2030	8,725,252	4,573,912	13,299,164	9,322,127	4,943,896	14,266,023	9,963,331	5,346,480	15,309,811
2031	8,757,216	4,592,771	13,349,987	9,391,066	4,985,164	14,376,230	10,074,883	5,414,227	15,489,109
2032	8,851,101	4,611,213	13,462,314	9,526,219	5,025,725	14,551,944	10,257,609	5,481,152	15,738,761
2033	8,818,403	4,629,050	13,447,453	9,523,907	5,065,155	14,589,062	10,291,279	5,546,546	15,837,825
2034	8,847,420	4,646,212	13,493,632	9,587,298	5,103,264	14,690,562	10,395,194	5,610,041	16,005,235
2035	8,875,651	4,662,982	13,538,632	9,649,227	5,140,676	14,789,903	10,497,140	5,672,667	16,169,807
2036	8,966,246	4,679,082	13,645,328	9,778,235	5,176,765	14,955,001	10,671,526	5,733,370	16,404,896

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.48%	0.58%	0.51%	0.96%	1.16%	1.03%	1.44%	1.75%	1.55%
2019	0.47%	0.57%	0.50%	0.94%	1.13%	1.01%	1.42%	1.71%	1.52%
2020	1.18%	0.55%	0.96%	1.64%	1.11%	1.46%	2.11%	1.66%	1.96%
2021	-0.26%	0.54%	0.01%	0.19%	1.08%	0.50%	0.65%	1.63%	0.98%
2022	0.45%	0.52%	0.47%	0.89%	1.05%	0.95%	1.35%	1.59%	1.43%
2023	0.44%	0.51%	0.46%	0.88%	1.03%	0.93%	1.33%	1.55%	1.40%
2024	1.15%	0.50%	0.92%	1.59%	1.00%	1.39%	2.03%	1.52%	1.85%
2025	-0.29%	0.49%	-0.02%	0.13%	0.98%	0.42%	0.56%	1.48%	0.88%
2026	0.42%	0.48%	0.44%	0.84%	0.96%	0.88%	1.26%	1.45%	1.33%
2027	0.41%	0.47%	0.43%	0.82%	0.94%	0.86%	1.24%	1.42%	1.30%
2028	1.11%	0.45%	0.89%	1.52%	0.91%	1.31%	1.94%	1.38%	1.74%
2029	-0.32%	0.44%	-0.06%	0.07%	0.89%	0.35%	0.46%	1.34%	0.77%
2030	0.38%	0.43%	0.40%	0.77%	0.87%	0.80%	1.16%	1.32%	1.22%
2031	0.37%	0.41%	0.38%	0.74%	0.83%	0.77%	1.12%	1.27%	1.17%
2032	1.07%	0.40%	0.84%	1.44%	0.81%	1.22%	1.81%	1.24%	1.61%
2033	-0.37%	0.39%	-0.11%	-0.02%	0.78%	0.26%	0.33%	1.19%	0.63%
2034	0.33%	0.37%	0.34%	0.67%	0.75%	0.70%	1.01%	1.14%	1.06%
2035	0.32%	0.36%	0.33%	0.65%	0.73%	0.68%	0.98%	1.12%	1.03%
2036	1.02%	0.35%	0.79%	1.34%	0.70%	1.12%	1.66%	1.07%	1.45%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	11,744	160,375	172,119	11,889	162,000	173,889	12,035	163,635	175,670
2018	11,812	161,142	172,954	12,027	163,554	175,581	12,245	165,994	178,239
2019	11,878	161,898	173,777	12,163	165,092	177,256	12,454	168,343	180,797
2020	11,944	162,639	174,583	12,298	166,608	178,906	12,662	170,669	183,331
2021	12,008	163,369	175,377	12,430	168,111	180,542	12,868	172,989	185,857
2022	12,071	164,091	176,162	12,561	169,604	182,166	13,072	175,305	188,377
2023	12,132	164,802	176,934	12,690	171,081	183,772	13,275	177,608	190,883
2024	12,193	165,504	177,696	12,818	172,547	185,365	13,476	179,905	193,381
2025	12,252	166,194	178,446	12,943	173,997	186,940	13,676	182,187	195,862
2026	12,310	166,876	179,186	13,068	175,435	188,502	13,874	184,461	198,336
2027	12,368	167,546	179,913	13,190	176,854	190,044	14,072	186,718	200,789
2028	12,423	168,202	180,626	13,311	178,251	191,562	14,266	188,949	203,215
2029	12,478	168,846	181,324	13,429	179,628	193,056	14,458	191,156	205,614
2030	12,531	169,479	182,011	13,545	180,987	194,532	14,648	193,346	207,994
2031	12,583	170,091	182,674	13,658	182,306	195,964	14,833	195,480	210,313
2032	12,633	170,686	183,320	13,769	183,597	197,366	15,017	197,577	212,594
2033	12,682	171,261	183,943	13,877	184,846	198,724	15,196	199,617	214,813
2034	12,729	171,815	184,545	13,982	186,058	200,039	15,370	201,603	216,973
2035	12,775	172,355	185,130	14,084	187,241	201,325	15,542	203,550	219,092
2036	12,819	172,871	185,690	14,183	188,376	202,559	15,708	205,427	221,135

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.58%	0.48%	0.49%	1.16%	0.96%	0.97%	1.75%	1.44%	1.46%
2019	0.57%	0.47%	0.48%	1.13%	0.94%	0.95%	1.71%	1.42%	1.44%
2020	0.55%	0.46%	0.46%	1.11%	0.92%	0.93%	1.66%	1.38%	1.40%
2021	0.54%	0.45%	0.46%	1.08%	0.90%	0.91%	1.63%	1.36%	1.38%
2022	0.52%	0.44%	0.45%	1.05%	0.89%	0.90%	1.59%	1.34%	1.36%
2023	0.51%	0.43%	0.44%	1.03%	0.87%	0.88%	1.55%	1.31%	1.33%
2024	0.50%	0.43%	0.43%	1.00%	0.86%	0.87%	1.52%	1.29%	1.31%
2025	0.49%	0.42%	0.42%	0.98%	0.84%	0.85%	1.48%	1.27%	1.28%
2026	0.48%	0.41%	0.41%	0.96%	0.83%	0.84%	1.45%	1.25%	1.26%
2027	0.47%	0.40%	0.41%	0.94%	0.81%	0.82%	1.42%	1.22%	1.24%
2028	0.45%	0.39%	0.40%	0.91%	0.79%	0.80%	1.38%	1.19%	1.21%
2029	0.44%	0.38%	0.39%	0.89%	0.77%	0.78%	1.34%	1.17%	1.18%
2030	0.43%	0.38%	0.38%	0.87%	0.76%	0.76%	1.32%	1.15%	1.16%
2031	0.41%	0.36%	0.36%	0.83%	0.73%	0.74%	1.27%	1.10%	1.12%
2032	0.40%	0.35%	0.35%	0.81%	0.71%	0.72%	1.24%	1.07%	1.08%
2033	0.39%	0.34%	0.34%	0.78%	0.68%	0.69%	1.19%	1.03%	1.04%
2034	0.37%	0.32%	0.33%	0.75%	0.66%	0.66%	1.14%	0.99%	1.01%
2035	0.36%	0.31%	0.32%	0.73%	0.64%	0.64%	1.12%	0.97%	0.98%
2036	0.35%	0.30%	0.30%	0.70%	0.61%	0.61%	1.07%	0.92%	0.93%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	6,496,930	6,041,868	12,538,799	6,537,816	6,137,358	12,675,175	6,578,831	6,233,616	12,812,447
2018	6,517,187	6,086,030	12,603,217	6,578,585	6,227,121	12,805,705	6,640,366	6,370,437	13,010,803
2019	6,537,434	6,129,163	12,666,597	6,619,460	6,315,454	12,934,914	6,702,255	6,506,087	13,208,343
2020	6,590,206	6,198,209	12,788,415	6,693,433	6,430,107	13,123,541	6,797,950	6,669,117	13,467,067
2021	6,577,635	6,212,302	12,789,937	6,700,996	6,487,567	13,188,564	6,826,279	6,773,257	13,599,537
2022	6,597,539	6,252,780	12,850,319	6,741,550	6,572,240	13,313,790	6,888,247	6,906,060	13,794,307
2023	6,617,330	6,292,392	12,909,722	6,781,996	6,655,661	13,437,657	6,950,236	7,037,780	13,988,017
2024	6,669,992	6,359,044	13,029,036	6,856,238	6,767,598	13,623,836	7,047,093	7,200,125	14,247,218
2025	6,656,475	6,369,344	13,025,819	6,862,352	6,819,282	13,681,635	7,073,943	7,298,623	14,372,566
2026	6,675,623	6,407,004	13,082,627	6,901,833	6,900,109	13,801,942	7,134,990	7,428,680	14,563,670
2027	6,694,509	6,443,946	13,138,455	6,940,885	6,979,875	13,920,760	7,195,546	7,557,808	14,753,354
2028	6,746,391	6,508,488	13,254,879	7,013,976	7,089,248	14,103,224	7,291,326	7,719,182	15,010,508
2029	6,731,296	6,515,269	13,246,565	7,017,271	7,135,218	14,152,489	7,314,492	7,811,470	15,125,962
2030	6,749,203	6,549,961	13,299,164	7,054,606	7,211,417	14,266,023	7,372,867	7,936,944	15,309,811
2031	6,766,395	6,583,592	13,349,987	7,090,547	7,285,683	14,376,230	7,429,209	8,059,900	15,489,109
2032	6,816,534	6,645,780	13,462,314	7,160,392	7,391,552	14,551,944	7,520,522	8,218,238	15,738,761
2033	6,798,555	6,648,898	13,447,453	7,158,029	7,431,033	14,589,062	7,535,393	8,302,432	15,837,825
2034	6,813,585	6,680,047	13,493,632	7,189,678	7,500,884	14,690,562	7,585,369	8,419,866	16,005,235
2035	6,827,921	6,710,711	13,538,632	7,219,932	7,569,971	14,789,903	7,633,248	8,536,559	16,169,807
2036	6,875,617	6,769,711	13,645,328	7,284,922	7,670,079	14,955,001	7,717,347	8,687,550	16,404,896

Annual Change

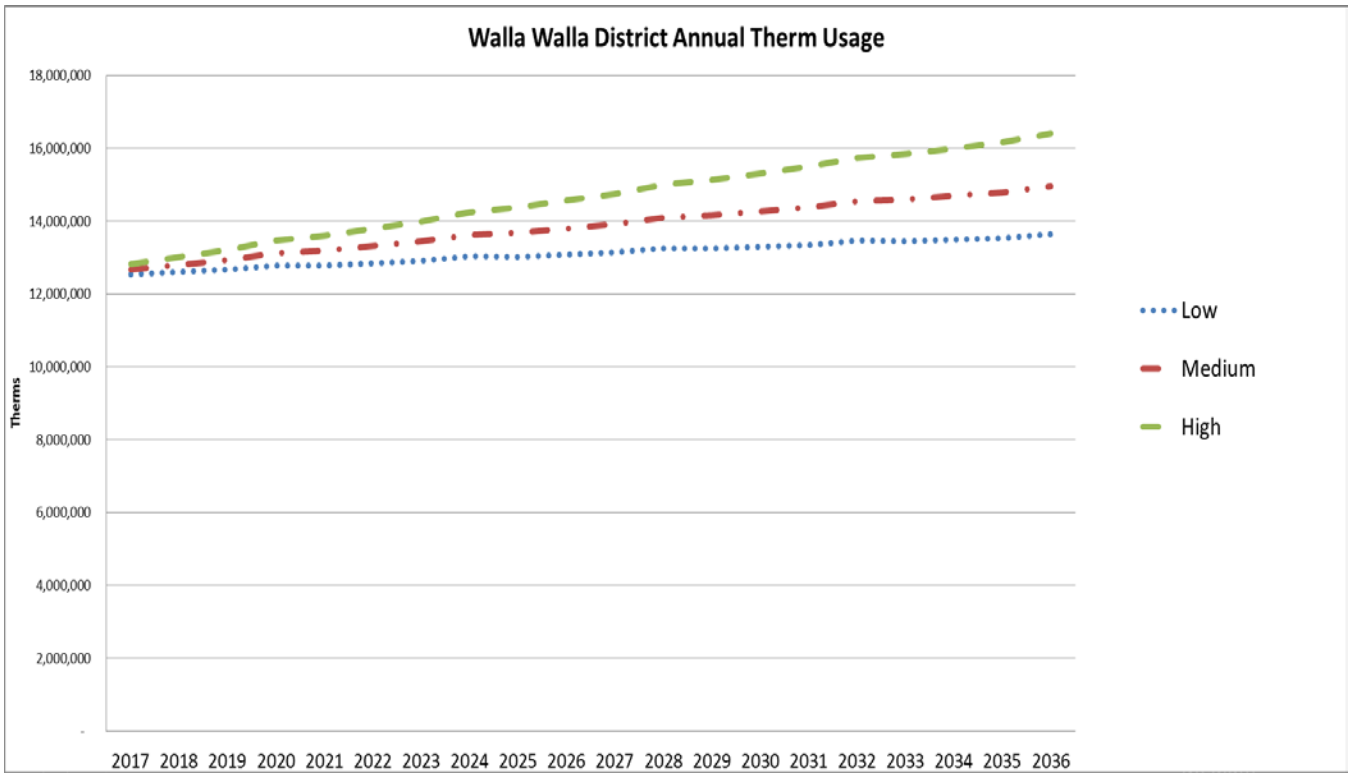
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.73%	0.51%	0.62%	1.46%	1.03%	0.94%	2.19%	1.55%
2019	0.31%	0.71%	0.50%	0.62%	1.42%	1.01%	0.93%	2.13%	1.52%
2020	0.81%	1.13%	0.96%	1.12%	1.82%	1.46%	1.43%	2.51%	1.96%
2021	-0.19%	0.23%	0.01%	0.11%	0.89%	0.50%	0.42%	1.56%	0.98%
2022	0.30%	0.65%	0.47%	0.61%	1.31%	0.95%	0.91%	1.96%	1.43%
2023	0.30%	0.63%	0.46%	0.60%	1.27%	0.93%	0.90%	1.91%	1.40%
2024	0.80%	1.06%	0.92%	1.09%	1.68%	1.39%	1.39%	2.31%	1.85%
2025	-0.20%	0.16%	-0.02%	0.09%	0.76%	0.42%	0.38%	1.37%	0.88%
2026	0.29%	0.59%	0.44%	0.58%	1.19%	0.88%	0.86%	1.78%	1.33%
2027	0.28%	0.58%	0.43%	0.57%	1.16%	0.86%	0.85%	1.74%	1.30%
2028	0.77%	1.00%	0.89%	1.05%	1.57%	1.31%	1.33%	2.14%	1.74%
2029	-0.22%	0.10%	-0.06%	0.05%	0.65%	0.35%	0.32%	1.20%	0.77%
2030	0.27%	0.53%	0.40%	0.53%	1.07%	0.80%	0.80%	1.61%	1.22%
2031	0.25%	0.51%	0.38%	0.51%	1.03%	0.77%	0.76%	1.55%	1.17%
2032	0.74%	0.94%	0.84%	0.99%	1.45%	1.22%	1.23%	1.96%	1.61%
2033	-0.26%	0.05%	-0.11%	-0.03%	0.53%	0.26%	0.20%	1.02%	0.63%
2034	0.22%	0.47%	0.34%	0.44%	0.94%	0.70%	0.66%	1.41%	1.06%
2035	0.21%	0.46%	0.33%	0.42%	0.92%	0.68%	0.63%	1.39%	1.03%
2036	0.70%	0.88%	0.79%	0.90%	1.32%	1.12%	1.10%	1.77%	1.45%

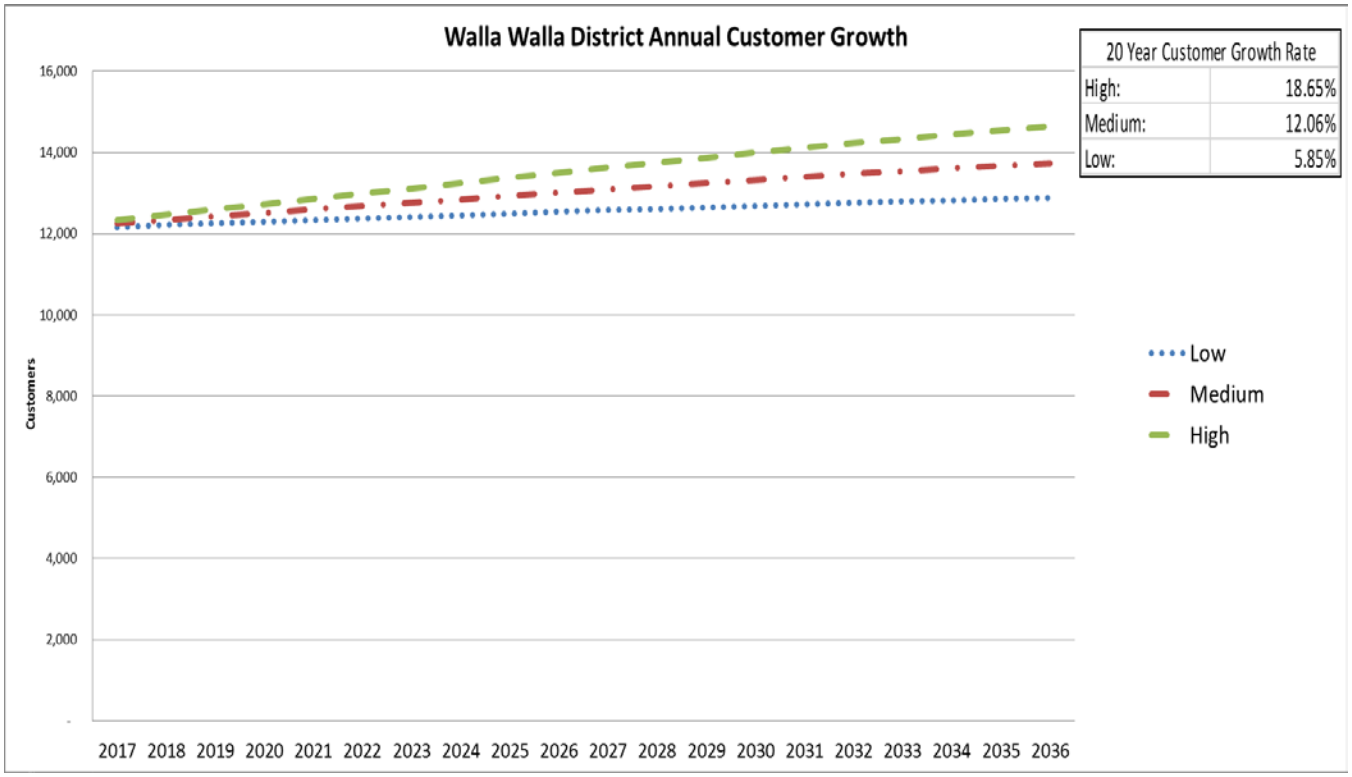
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	10,864	1,305	12,168	10,932	1,324	12,256	11,001	1,343	12,343
2018	10,898	1,313	12,211	11,000	1,341	12,341	11,103	1,369	12,472
2019	10,931	1,322	12,253	11,069	1,358	12,426	11,207	1,395	12,602
2020	10,965	1,330	12,295	11,137	1,374	12,511	11,311	1,420	12,731
2021	10,999	1,337	12,336	11,205	1,391	12,595	11,414	1,446	12,860
2022	11,032	1,345	12,377	11,273	1,407	12,679	11,518	1,471	12,989
2023	11,065	1,353	12,418	11,340	1,423	12,763	11,622	1,496	13,117
2024	11,098	1,360	12,458	11,408	1,439	12,846	11,725	1,521	13,246
2025	11,130	1,368	12,498	11,475	1,454	12,929	11,828	1,545	13,374
2026	11,162	1,375	12,537	11,541	1,470	13,010	11,931	1,570	13,501
2027	11,194	1,382	12,576	11,606	1,485	13,091	12,032	1,595	13,627
2028	11,225	1,389	12,614	11,670	1,500	13,170	12,132	1,619	13,751
2029	11,256	1,396	12,652	11,734	1,515	13,249	12,231	1,643	13,874
2030	11,285	1,403	12,688	11,796	1,530	13,326	12,328	1,667	13,996
2031	11,314	1,410	12,724	11,856	1,544	13,401	12,423	1,691	14,114
2032	11,342	1,416	12,758	11,914	1,559	13,472	12,513	1,715	14,228
2033	11,368	1,422	12,790	11,969	1,573	13,542	12,600	1,738	14,338
2034	11,393	1,429	12,822	12,022	1,586	13,608	12,684	1,760	14,444
2035	11,417	1,435	12,852	12,073	1,600	13,672	12,764	1,783	14,547
2036	11,440	1,440	12,880	12,121	1,613	13,734	12,841	1,804	14,645

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.31%	0.65%	0.35%	0.62%	1.31%	0.70%	0.94%	1.96%	1.05%
2019	0.31%	0.63%	0.35%	0.62%	1.27%	0.69%	0.93%	1.90%	1.04%
2020	0.31%	0.61%	0.34%	0.62%	1.21%	0.68%	0.93%	1.82%	1.02%
2021	0.31%	0.59%	0.34%	0.61%	1.19%	0.67%	0.92%	1.78%	1.01%
2022	0.30%	0.58%	0.33%	0.61%	1.16%	0.67%	0.91%	1.75%	1.00%
2023	0.30%	0.57%	0.33%	0.60%	1.13%	0.66%	0.90%	1.70%	0.99%
2024	0.30%	0.56%	0.33%	0.59%	1.11%	0.65%	0.89%	1.67%	0.98%
2025	0.29%	0.54%	0.32%	0.59%	1.08%	0.64%	0.88%	1.62%	0.97%
2026	0.29%	0.53%	0.31%	0.58%	1.07%	0.63%	0.86%	1.61%	0.95%
2027	0.28%	0.52%	0.31%	0.57%	1.04%	0.62%	0.85%	1.56%	0.93%
2028	0.28%	0.51%	0.30%	0.55%	1.02%	0.61%	0.83%	1.53%	0.91%
2029	0.27%	0.50%	0.30%	0.54%	0.99%	0.60%	0.82%	1.49%	0.90%
2030	0.27%	0.49%	0.29%	0.53%	0.98%	0.58%	0.80%	1.47%	0.88%
2031	0.25%	0.47%	0.28%	0.51%	0.94%	0.56%	0.76%	1.42%	0.84%
2032	0.24%	0.46%	0.27%	0.49%	0.93%	0.54%	0.73%	1.39%	0.81%
2033	0.23%	0.45%	0.26%	0.46%	0.89%	0.51%	0.70%	1.34%	0.77%
2034	0.22%	0.43%	0.24%	0.44%	0.87%	0.49%	0.66%	1.30%	0.74%
2035	0.21%	0.43%	0.23%	0.42%	0.85%	0.47%	0.63%	1.28%	0.71%
2036	0.20%	0.40%	0.22%	0.40%	0.81%	0.45%	0.60%	1.21%	0.68%





20 Year Customer Growth Rate	
High:	18.65%
Medium:	12.06%
Low:	5.85%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Wenatchee District

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	6,073,564	3,984,177	10,057,741	6,166,808	4,043,853	10,210,661	6,260,808	4,104,004	10,364,812
2018	6,115,556	4,010,877	10,126,433	6,252,165	4,098,111	10,350,276	6,390,920	4,186,686	10,577,606
2019	6,156,113	4,036,565	10,192,677	6,335,202	4,150,684	10,485,886	6,518,409	4,267,373	10,785,782
2020	6,228,463	4,061,138	10,289,600	6,450,553	4,201,330	10,651,883	6,679,313	4,345,644	11,024,957
2021	6,233,822	4,085,003	10,318,825	6,495,948	4,250,844	10,746,792	6,767,737	4,422,673	11,190,410
2022	6,271,496	4,108,404	10,379,900	6,574,653	4,299,709	10,874,362	6,891,024	4,499,181	11,390,205
2023	6,308,578	4,131,211	10,439,789	6,652,620	4,347,644	11,000,264	7,013,934	4,574,723	11,588,657
2024	6,378,914	4,153,469	10,532,384	6,765,816	4,394,727	11,160,543	7,174,663	4,649,399	11,824,061
2025	6,381,443	4,175,725	10,557,168	6,807,250	4,442,085	11,249,335	7,259,971	4,724,957	11,984,928
2026	6,417,271	4,197,466	10,614,736	6,883,978	4,488,638	11,372,617	7,383,170	4,799,702	12,182,871
2027	6,452,826	4,219,011	10,671,837	6,960,589	4,535,056	11,495,645	7,506,933	4,874,681	12,381,614
2028	6,522,467	4,240,170	10,762,637	7,074,159	4,580,917	11,655,076	7,671,247	4,949,214	12,620,461
2029	6,522,681	4,261,273	10,783,954	7,112,444	4,626,915	11,739,359	7,754,434	5,024,391	12,778,826
2030	6,556,877	4,281,808	10,838,685	7,187,426	4,671,952	11,859,378	7,877,705	5,098,454	12,976,159
2031	6,590,967	4,302,176	10,893,143	7,262,607	4,716,895	11,979,502	8,002,019	5,172,815	13,174,834
2032	6,659,669	4,322,136	10,981,805	7,375,855	4,761,185	12,137,040	8,168,663	5,246,509	13,415,172
2033	6,657,367	4,341,892	10,999,259	7,410,295	4,805,270	12,215,565	8,248,314	5,320,276	13,568,590
2034	6,689,858	4,361,258	11,051,117	7,483,153	4,848,726	12,331,880	8,370,816	5,393,402	13,764,218
2035	6,721,859	4,380,310	11,102,170	7,555,318	4,891,725	12,447,043	8,492,839	5,466,176	13,959,015
2036	6,789,506	4,399,162	11,188,667	7,667,801	4,934,496	12,602,297	8,660,901	5,538,952	14,199,854

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.69%	0.67%	0.68%	1.38%	1.34%	1.37%	2.08%	2.01%	2.05%
2019	0.66%	0.64%	0.65%	1.33%	1.28%	1.31%	1.99%	1.93%	1.97%
2020	1.18%	0.61%	0.95%	1.82%	1.22%	1.58%	2.47%	1.83%	2.22%
2021	0.09%	0.59%	0.28%	0.70%	1.18%	0.89%	1.32%	1.77%	1.50%
2022	0.60%	0.57%	0.59%	1.21%	1.15%	1.19%	1.82%	1.73%	1.79%
2023	0.59%	0.56%	0.58%	1.19%	1.11%	1.16%	1.78%	1.68%	1.74%
2024	1.11%	0.54%	0.89%	1.70%	1.08%	1.46%	2.29%	1.63%	2.03%
2025	0.04%	0.54%	0.24%	0.61%	1.08%	0.80%	1.19%	1.63%	1.36%
2026	0.56%	0.52%	0.55%	1.13%	1.05%	1.10%	1.70%	1.58%	1.65%
2027	0.55%	0.51%	0.54%	1.11%	1.03%	1.08%	1.68%	1.56%	1.63%
2028	1.08%	0.50%	0.85%	1.63%	1.01%	1.39%	2.19%	1.53%	1.93%
2029	0.00%	0.50%	0.20%	0.54%	1.00%	0.72%	1.08%	1.52%	1.25%
2030	0.52%	0.48%	0.51%	1.05%	0.97%	1.02%	1.59%	1.47%	1.54%
2031	0.52%	0.48%	0.50%	1.05%	0.96%	1.01%	1.58%	1.46%	1.53%
2032	1.04%	0.46%	0.81%	1.56%	0.94%	1.32%	2.08%	1.42%	1.82%
2033	-0.03%	0.46%	0.16%	0.47%	0.93%	0.65%	0.98%	1.41%	1.14%
2034	0.49%	0.45%	0.47%	0.98%	0.90%	0.95%	1.49%	1.37%	1.44%
2035	0.48%	0.44%	0.46%	0.96%	0.89%	0.93%	1.46%	1.35%	1.42%
2036	1.01%	0.43%	0.78%	1.49%	0.87%	1.25%	1.98%	1.33%	1.73%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	10,916	95,683	106,599	11,079	97,110	108,189	11,244	98,548	109,791
2018	10,989	96,327	107,315	11,228	98,417	109,645	11,470	100,540	112,010
2019	11,059	96,948	108,007	11,372	99,689	111,060	11,691	102,491	114,182
2020	11,126	97,549	108,675	11,510	100,927	112,437	11,906	104,404	116,310
2021	11,192	98,135	109,327	11,646	102,142	113,788	12,117	106,293	118,410
2022	11,256	98,710	109,966	11,780	103,343	115,123	12,327	108,173	120,499
2023	11,318	99,275	110,593	11,911	104,529	116,440	12,533	110,041	122,574
2024	11,379	99,830	111,210	12,040	105,703	117,743	12,738	111,901	124,639
2025	11,440	100,383	111,824	12,170	106,879	119,049	12,945	113,775	126,720
2026	11,500	100,928	112,428	12,298	108,044	120,341	13,150	115,644	128,794
2027	11,559	101,467	113,026	12,425	109,204	121,629	13,355	117,516	130,871
2028	11,617	101,999	113,616	12,550	110,355	122,905	13,559	119,384	132,943
2029	11,675	102,527	114,202	12,676	111,505	124,181	13,765	121,261	135,026
2030	11,731	103,045	114,776	12,800	112,639	125,439	13,968	123,122	137,091
2031	11,787	103,560	115,347	12,923	113,772	126,695	14,172	124,995	139,167
2032	11,841	104,064	115,905	13,044	114,889	127,933	14,374	126,848	141,222
2033	11,896	104,562	116,458	13,165	115,998	129,164	14,576	128,702	143,278
2034	11,949	105,053	117,001	13,284	117,096	130,380	14,776	130,545	145,321
2035	12,001	105,535	117,535	13,402	118,181	131,583	14,976	132,377	147,353
2036	12,052	106,010	118,063	13,519	119,259	132,778	15,175	134,206	149,381

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.67%	0.67%	0.67%	1.34%	1.35%	1.35%	2.01%	2.02%	2.02%
2019	0.64%	0.65%	0.64%	1.28%	1.29%	1.29%	1.93%	1.94%	1.94%
2020	0.61%	0.62%	0.62%	1.22%	1.24%	1.24%	1.83%	1.87%	1.86%
2021	0.59%	0.60%	0.60%	1.18%	1.20%	1.20%	1.77%	1.81%	1.81%
2022	0.57%	0.59%	0.58%	1.15%	1.18%	1.17%	1.73%	1.77%	1.76%
2023	0.56%	0.57%	0.57%	1.11%	1.15%	1.14%	1.68%	1.73%	1.72%
2024	0.54%	0.56%	0.56%	1.08%	1.12%	1.12%	1.63%	1.69%	1.68%
2025	0.54%	0.55%	0.55%	1.08%	1.11%	1.11%	1.63%	1.67%	1.67%
2026	0.52%	0.54%	0.54%	1.05%	1.09%	1.09%	1.58%	1.64%	1.64%
2027	0.51%	0.53%	0.53%	1.03%	1.07%	1.07%	1.56%	1.62%	1.61%
2028	0.50%	0.52%	0.52%	1.01%	1.05%	1.05%	1.53%	1.59%	1.58%
2029	0.50%	0.52%	0.52%	1.00%	1.04%	1.04%	1.52%	1.57%	1.57%
2030	0.48%	0.51%	0.50%	0.97%	1.02%	1.01%	1.47%	1.54%	1.53%
2031	0.48%	0.50%	0.50%	0.96%	1.01%	1.00%	1.46%	1.52%	1.51%
2032	0.46%	0.49%	0.48%	0.94%	0.98%	0.98%	1.42%	1.48%	1.48%
2033	0.46%	0.48%	0.48%	0.93%	0.97%	0.96%	1.41%	1.46%	1.46%
2034	0.45%	0.47%	0.47%	0.90%	0.95%	0.94%	1.37%	1.43%	1.43%
2035	0.44%	0.46%	0.46%	0.89%	0.93%	0.92%	1.35%	1.40%	1.40%
2036	0.43%	0.45%	0.45%	0.87%	0.91%	0.91%	1.33%	1.38%	1.38%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	1,273,796	8,783,944	10,057,741	1,284,849	8,925,812	10,210,661	1,295,957	9,068,856	10,364,812
2018	1,279,325	8,847,109	10,126,433	1,296,015	9,054,261	10,350,276	1,312,869	9,264,737	10,577,606
2019	1,284,879	8,907,799	10,192,677	1,307,287	9,178,599	10,485,886	1,330,027	9,455,755	10,785,782
2020	1,296,463	8,993,138	10,289,600	1,324,781	9,327,101	10,651,883	1,353,659	9,671,298	11,024,957
2021	1,295,992	9,022,833	10,318,825	1,330,010	9,416,782	10,746,792	1,364,869	9,825,541	11,190,410
2022	1,301,569	9,078,331	10,379,900	1,341,497	9,532,865	10,874,362	1,382,611	10,007,594	11,390,205
2023	1,307,135	9,132,654	10,439,789	1,353,018	9,647,246	11,000,264	1,400,495	10,188,162	11,588,657
2024	1,318,827	9,213,556	10,532,384	1,370,959	9,789,584	11,160,543	1,425,164	10,398,897	11,824,061
2025	1,318,254	9,238,914	10,557,168	1,376,200	9,873,135	11,249,335	1,436,743	10,548,185	11,984,928
2026	1,323,795	9,290,941	10,614,736	1,387,837	9,984,779	11,372,617	1,455,073	10,727,798	12,182,871
2027	1,329,300	9,342,538	10,671,837	1,399,456	10,096,189	11,495,645	1,473,463	10,908,151	12,381,614
2028	1,340,992	9,421,645	10,762,637	1,417,622	10,237,453	11,655,076	1,498,844	11,121,616	12,620,461
2029	1,340,197	9,443,757	10,783,954	1,422,622	10,316,736	11,739,359	1,510,401	11,268,425	12,778,826
2030	1,345,589	9,493,096	10,838,685	1,434,170	10,425,208	11,859,378	1,528,945	11,447,214	12,976,159
2031	1,350,886	9,542,257	10,893,143	1,445,566	10,533,937	11,979,502	1,547,336	11,627,498	13,174,834
2032	1,362,367	9,619,438	10,981,805	1,463,501	10,673,539	12,137,040	1,572,701	11,842,471	13,415,172
2033	1,361,094	9,638,165	10,999,259	1,467,691	10,747,874	12,215,565	1,583,303	11,985,286	13,568,590
2034	1,366,043	9,685,074	11,051,117	1,478,492	10,853,388	12,331,880	1,600,986	12,163,231	13,764,218
2035	1,370,878	9,731,292	11,102,170	1,489,094	10,957,949	12,447,043	1,618,427	12,340,588	13,959,015
2036	1,382,012	9,806,655	11,188,667	1,506,475	11,095,822	12,602,297	1,643,216	12,556,638	14,199,854

Annual Change

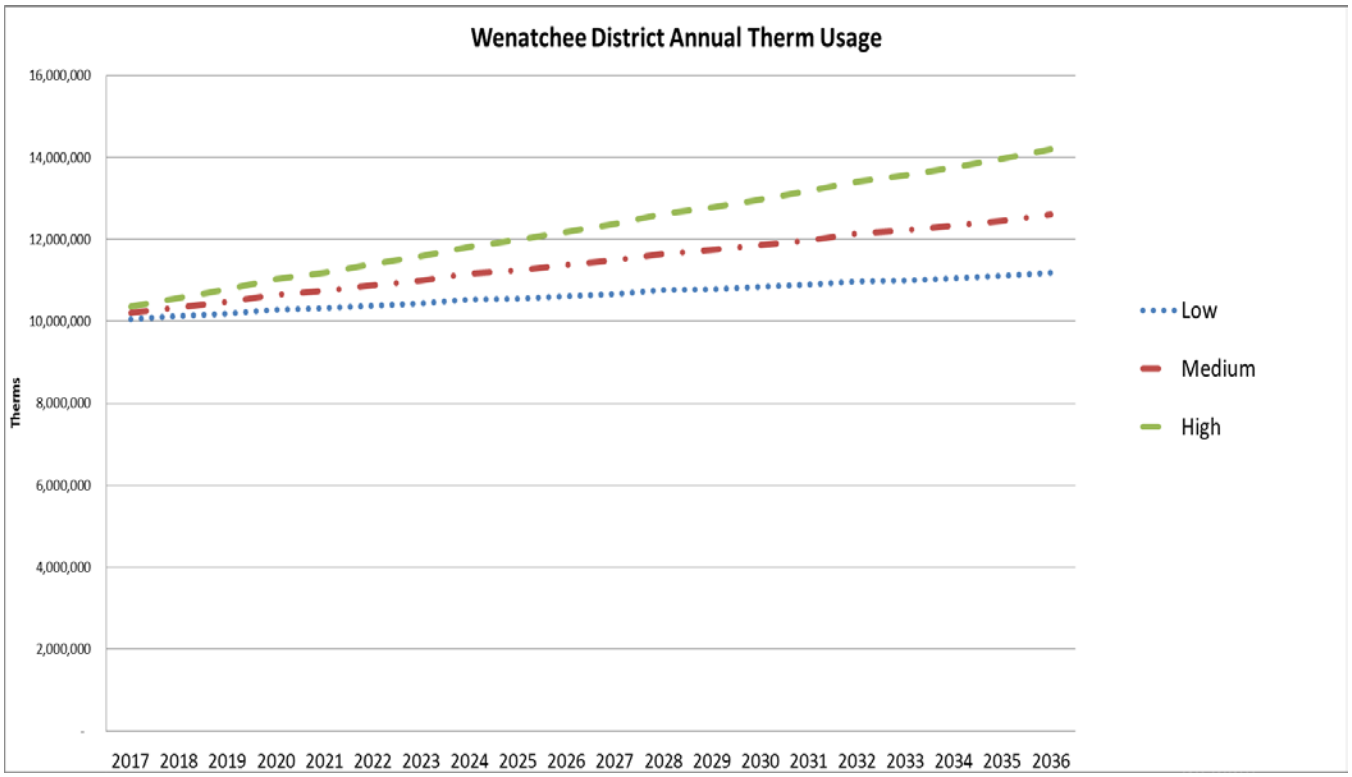
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.43%	0.72%	0.68%	0.87%	1.44%	1.37%	1.30%	2.16%	2.05%
2019	0.43%	0.69%	0.65%	0.87%	1.37%	1.31%	1.31%	2.06%	1.97%
2020	0.90%	0.96%	0.95%	1.34%	1.62%	1.58%	1.78%	2.28%	2.22%
2021	-0.04%	0.33%	0.28%	0.39%	0.96%	0.89%	0.83%	1.59%	1.50%
2022	0.43%	0.62%	0.59%	0.86%	1.23%	1.19%	1.30%	1.85%	1.79%
2023	0.43%	0.60%	0.58%	0.86%	1.20%	1.16%	1.29%	1.80%	1.74%
2024	0.89%	0.89%	0.89%	1.33%	1.48%	1.46%	1.76%	2.07%	2.03%
2025	-0.04%	0.28%	0.24%	0.38%	0.85%	0.80%	0.81%	1.44%	1.36%
2026	0.42%	0.56%	0.55%	0.85%	1.13%	1.10%	1.28%	1.70%	1.65%
2027	0.42%	0.56%	0.54%	0.84%	1.12%	1.08%	1.26%	1.68%	1.63%
2028	0.88%	0.85%	0.85%	1.30%	1.40%	1.39%	1.72%	1.96%	1.93%
2029	-0.06%	0.23%	0.20%	0.35%	0.77%	0.72%	0.77%	1.32%	1.25%
2030	0.40%	0.52%	0.51%	0.81%	1.05%	1.02%	1.23%	1.59%	1.54%
2031	0.39%	0.52%	0.50%	0.79%	1.04%	1.01%	1.20%	1.57%	1.53%
2032	0.85%	0.81%	0.81%	1.24%	1.33%	1.32%	1.64%	1.85%	1.82%
2033	-0.09%	0.19%	0.16%	0.29%	0.70%	0.65%	0.67%	1.21%	1.14%
2034	0.36%	0.49%	0.47%	0.74%	0.98%	0.95%	1.12%	1.48%	1.44%
2035	0.35%	0.48%	0.46%	0.72%	0.96%	0.93%	1.09%	1.46%	1.42%
2036	0.81%	0.77%	0.78%	1.17%	1.26%	1.25%	1.53%	1.75%	1.73%

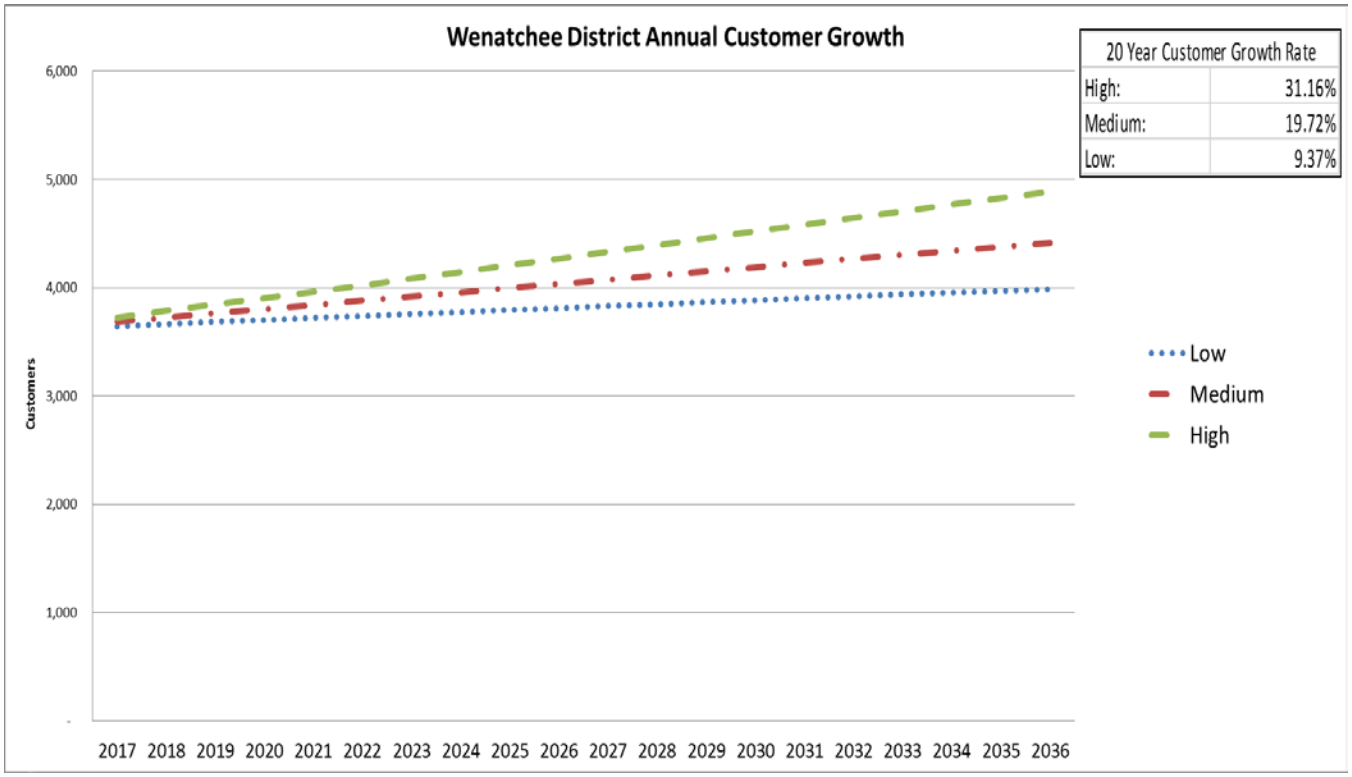
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	2,552	1,094	3,646	2,575	1,111	3,686	2,598	1,129	3,727
2018	2,563	1,102	3,665	2,598	1,127	3,725	2,633	1,153	3,786
2019	2,575	1,109	3,684	2,622	1,143	3,764	2,669	1,177	3,846
2020	2,586	1,117	3,703	2,645	1,158	3,803	2,705	1,200	3,905
2021	2,598	1,124	3,722	2,669	1,172	3,842	2,742	1,223	3,965
2022	2,610	1,131	3,740	2,693	1,187	3,880	2,779	1,246	4,025
2023	2,621	1,138	3,759	2,717	1,202	3,919	2,817	1,269	4,086
2024	2,633	1,145	3,778	2,741	1,216	3,958	2,854	1,292	4,147
2025	2,645	1,151	3,796	2,766	1,231	3,997	2,892	1,316	4,208
2026	2,656	1,158	3,814	2,790	1,246	4,036	2,931	1,339	4,270
2027	2,668	1,165	3,833	2,814	1,260	4,075	2,969	1,363	4,332
2028	2,679	1,172	3,851	2,839	1,275	4,113	3,008	1,386	4,395
2029	2,690	1,178	3,869	2,863	1,289	4,152	3,047	1,410	4,457
2030	2,702	1,185	3,887	2,887	1,304	4,191	3,086	1,434	4,520
2031	2,713	1,191	3,904	2,911	1,318	4,229	3,125	1,458	4,583
2032	2,724	1,198	3,921	2,935	1,332	4,267	3,163	1,482	4,644
2033	2,734	1,204	3,938	2,958	1,346	4,304	3,200	1,506	4,706
2034	2,745	1,210	3,955	2,980	1,361	4,341	3,238	1,530	4,767
2035	2,755	1,216	3,971	3,003	1,375	4,377	3,274	1,554	4,828
2036	2,765	1,223	3,987	3,025	1,388	4,413	3,311	1,577	4,888

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.45%	0.71%	0.53%	0.91%	1.42%	1.06%	1.36%	2.14%	1.60%
2019	0.45%	0.68%	0.52%	0.91%	1.36%	1.04%	1.36%	2.05%	1.57%
2020	0.45%	0.66%	0.51%	0.90%	1.32%	1.03%	1.36%	1.98%	1.55%
2021	0.45%	0.64%	0.51%	0.90%	1.28%	1.01%	1.35%	1.92%	1.53%
2022	0.45%	0.62%	0.50%	0.90%	1.25%	1.01%	1.35%	1.88%	1.52%
2023	0.45%	0.61%	0.50%	0.90%	1.23%	1.00%	1.35%	1.85%	1.50%
2024	0.44%	0.60%	0.49%	0.89%	1.21%	0.99%	1.34%	1.82%	1.49%
2025	0.44%	0.60%	0.49%	0.89%	1.20%	0.98%	1.33%	1.81%	1.48%
2026	0.44%	0.59%	0.49%	0.88%	1.19%	0.98%	1.33%	1.79%	1.47%
2027	0.43%	0.58%	0.48%	0.87%	1.17%	0.96%	1.32%	1.76%	1.45%
2028	0.43%	0.57%	0.47%	0.86%	1.15%	0.95%	1.30%	1.74%	1.44%
2029	0.42%	0.57%	0.47%	0.85%	1.14%	0.94%	1.29%	1.73%	1.43%
2030	0.42%	0.55%	0.46%	0.85%	1.12%	0.93%	1.28%	1.69%	1.41%
2031	0.41%	0.55%	0.45%	0.83%	1.10%	0.91%	1.25%	1.67%	1.38%
2032	0.40%	0.54%	0.44%	0.81%	1.08%	0.89%	1.22%	1.64%	1.35%
2033	0.39%	0.53%	0.43%	0.79%	1.07%	0.87%	1.19%	1.61%	1.32%
2034	0.38%	0.52%	0.42%	0.77%	1.05%	0.86%	1.16%	1.59%	1.30%
2035	0.37%	0.51%	0.41%	0.75%	1.03%	0.84%	1.14%	1.56%	1.27%
2036	0.36%	0.50%	0.40%	0.73%	1.01%	0.82%	1.11%	1.53%	1.25%





20 Year Customer Growth Rate	
High:	31.16%
Medium:	19.72%
Low:	9.37%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Yakima District

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	29,594,579	9,387,467	38,982,046	29,914,603	9,494,238	39,408,842	30,236,634	9,601,679	39,838,313
2018	29,740,807	9,434,267	39,175,075	30,210,720	9,589,028	39,799,748	30,686,334	9,745,660	40,431,994
2019	29,882,838	9,478,784	39,361,622	30,499,947	9,679,706	40,179,653	31,128,028	9,884,175	41,012,202
2020	30,183,331	9,521,268	39,704,600	30,949,562	9,766,723	40,716,285	31,733,619	10,017,832	41,751,451
2021	30,156,785	9,562,205	39,718,990	31,062,301	9,851,022	40,913,323	31,993,743	10,148,012	42,141,755
2022	30,290,260	9,601,770	39,892,030	31,338,456	9,932,937	41,271,393	32,422,216	10,275,196	42,697,412
2023	30,421,806	9,640,199	40,062,005	31,612,016	10,012,927	41,624,943	32,848,844	10,400,056	43,248,900
2024	30,717,070	9,677,773	40,394,842	32,056,568	10,091,555	42,148,123	33,455,513	10,523,447	43,978,960
2025	30,680,733	9,714,480	40,395,213	32,154,579	10,168,778	42,323,358	33,701,460	10,645,280	44,346,740
2026	30,807,647	9,750,327	40,557,975	32,422,579	10,244,620	42,667,199	34,125,830	10,765,586	44,891,416
2027	30,932,761	9,785,364	40,718,126	32,688,138	10,319,162	43,007,300	34,548,453	10,884,471	45,432,924
2028	31,223,850	9,819,665	41,043,515	33,129,369	10,392,552	43,521,921	35,158,436	11,002,153	46,160,589
2029	31,177,805	9,853,271	41,031,075	33,212,222	10,464,851	43,677,072	35,388,748	11,118,702	46,507,450
2030	31,297,183	9,885,867	41,183,050	33,470,077	10,535,933	44,006,010	35,805,526	11,234,175	47,039,700
2031	31,413,615	9,917,339	41,330,954	33,723,500	10,605,570	44,329,070	36,217,503	11,348,206	47,565,708
2032	31,696,640	9,947,492	41,644,133	34,154,381	10,673,321	44,827,702	36,819,828	11,460,052	48,279,880
2033	31,636,125	9,976,627	41,612,752	34,213,117	10,739,533	44,952,651	37,020,071	11,570,100	48,590,171
2034	31,742,741	10,004,756	41,747,496	34,450,080	10,804,230	45,254,310	37,411,587	11,678,373	49,089,960
2035	31,846,573	10,031,816	41,878,389	34,682,701	10,867,527	45,550,228	37,798,102	11,785,184	49,583,286
2036	32,119,391	10,057,728	42,177,119	35,097,543	10,928,947	46,026,490	38,382,291	11,889,563	50,271,854

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.49%	0.50%	0.50%	0.99%	1.00%	0.99%	1.49%	1.50%	1.49%
2019	0.48%	0.47%	0.48%	0.96%	0.95%	0.95%	1.44%	1.42%	1.44%
2020	1.01%	0.45%	0.87%	1.47%	0.90%	1.34%	1.95%	1.35%	1.80%
2021	-0.09%	0.43%	0.04%	0.36%	0.86%	0.48%	0.82%	1.30%	0.93%
2022	0.44%	0.41%	0.44%	0.89%	0.83%	0.88%	1.34%	1.25%	1.32%
2023	0.43%	0.40%	0.43%	0.87%	0.81%	0.86%	1.32%	1.22%	1.29%
2024	0.97%	0.39%	0.83%	1.41%	0.79%	1.26%	1.85%	1.19%	1.69%
2025	-0.12%	0.38%	0.00%	0.31%	0.77%	0.42%	0.74%	1.16%	0.84%
2026	0.41%	0.37%	0.40%	0.83%	0.75%	0.81%	1.26%	1.13%	1.23%
2027	0.41%	0.36%	0.39%	0.82%	0.73%	0.80%	1.24%	1.10%	1.21%
2028	0.94%	0.35%	0.80%	1.35%	0.71%	1.20%	1.77%	1.08%	1.60%
2029	-0.15%	0.34%	-0.03%	0.25%	0.70%	0.36%	0.66%	1.06%	0.75%
2030	0.38%	0.33%	0.37%	0.78%	0.68%	0.75%	1.18%	1.04%	1.14%
2031	0.37%	0.32%	0.36%	0.76%	0.66%	0.73%	1.15%	1.02%	1.12%
2032	0.90%	0.30%	0.76%	1.28%	0.64%	1.12%	1.66%	0.99%	1.50%
2033	-0.19%	0.29%	-0.08%	0.17%	0.62%	0.28%	0.54%	0.96%	0.64%
2034	0.34%	0.28%	0.32%	0.69%	0.60%	0.67%	1.06%	0.94%	1.03%
2035	0.33%	0.27%	0.31%	0.68%	0.59%	0.65%	1.03%	0.91%	1.00%
2036	0.86%	0.26%	0.71%	1.20%	0.57%	1.05%	1.55%	0.89%	1.39%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	25,719	414,137	439,856	26,012	418,691	444,703	26,306	423,275	449,581
2018	25,847	416,214	442,061	26,271	422,898	449,169	26,700	429,663	456,363
2019	25,969	418,229	444,199	26,520	427,002	453,522	27,080	435,931	463,011
2020	26,086	420,192	446,277	26,758	431,020	457,778	27,446	442,100	469,547
2021	26,198	422,112	448,310	26,989	434,972	461,961	27,803	448,201	476,004
2022	26,306	424,001	450,308	27,214	438,882	466,095	28,151	454,268	482,419
2023	26,412	425,862	452,274	27,433	442,752	470,185	28,493	460,304	488,797
2024	26,514	427,705	454,219	27,648	446,604	474,252	28,831	466,342	495,174
2025	26,615	429,523	456,138	27,860	450,423	478,283	29,165	472,359	501,524
2026	26,713	431,316	458,029	28,067	454,210	482,277	29,495	478,356	507,851
2027	26,809	433,083	459,892	28,272	457,961	486,233	29,820	484,326	514,147
2028	26,903	434,826	461,729	28,473	461,679	490,152	30,143	490,274	520,416
2029	26,995	436,543	463,538	28,671	465,361	494,032	30,462	496,192	526,655
2030	27,085	438,228	465,312	28,866	469,001	497,866	30,779	502,076	532,855
2031	27,171	439,871	467,042	29,056	472,577	501,634	31,091	507,891	538,982
2032	27,253	441,464	468,717	29,242	476,070	505,312	31,397	513,601	544,998
2033	27,333	443,012	470,345	29,423	479,487	508,911	31,699	519,218	550,917
2034	27,410	444,517	471,928	29,601	482,831	512,432	31,996	524,744	556,739
2035	27,484	445,983	473,467	29,774	486,114	515,888	32,288	530,198	562,486
2036	27,555	447,400	474,955	29,942	489,308	519,250	32,574	535,532	568,107

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.50%	0.50%	0.50%	1.00%	1.00%	1.00%	1.50%	1.51%	1.51%
2019	0.47%	0.48%	0.48%	0.95%	0.97%	0.97%	1.42%	1.46%	1.46%
2020	0.45%	0.47%	0.47%	0.90%	0.94%	0.94%	1.35%	1.42%	1.41%
2021	0.43%	0.46%	0.46%	0.86%	0.92%	0.91%	1.30%	1.38%	1.38%
2022	0.41%	0.45%	0.45%	0.83%	0.90%	0.89%	1.25%	1.35%	1.35%
2023	0.40%	0.44%	0.44%	0.81%	0.88%	0.88%	1.22%	1.33%	1.32%
2024	0.39%	0.43%	0.43%	0.79%	0.87%	0.87%	1.19%	1.31%	1.30%
2025	0.38%	0.43%	0.42%	0.77%	0.86%	0.85%	1.16%	1.29%	1.28%
2026	0.37%	0.42%	0.41%	0.75%	0.84%	0.84%	1.13%	1.27%	1.26%
2027	0.36%	0.41%	0.41%	0.73%	0.83%	0.82%	1.10%	1.25%	1.24%
2028	0.35%	0.40%	0.40%	0.71%	0.81%	0.81%	1.08%	1.23%	1.22%
2029	0.34%	0.39%	0.39%	0.70%	0.80%	0.79%	1.06%	1.21%	1.20%
2030	0.33%	0.39%	0.38%	0.68%	0.78%	0.78%	1.04%	1.19%	1.18%
2031	0.32%	0.38%	0.37%	0.66%	0.76%	0.76%	1.02%	1.16%	1.15%
2032	0.30%	0.36%	0.36%	0.64%	0.74%	0.73%	0.99%	1.12%	1.12%
2033	0.29%	0.35%	0.35%	0.62%	0.72%	0.71%	0.96%	1.09%	1.09%
2034	0.28%	0.34%	0.34%	0.60%	0.70%	0.69%	0.94%	1.06%	1.06%
2035	0.27%	0.33%	0.33%	0.59%	0.68%	0.67%	0.91%	1.04%	1.03%
2036	0.26%	0.32%	0.31%	0.57%	0.66%	0.65%	0.89%	1.01%	1.00%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	15,522,413	23,459,633	38,982,046	15,627,398	23,781,444	39,408,842	15,732,752	24,105,561	39,838,313
2018	15,574,592	23,600,483	39,175,075	15,732,494	24,067,254	39,799,748	15,891,507	24,540,487	40,431,994
2019	15,626,717	23,734,905	39,361,622	15,837,848	24,341,804	40,179,653	16,051,209	24,960,994	41,012,202
2020	15,751,217	23,953,383	39,704,600	16,016,940	24,699,345	40,716,285	16,286,402	25,465,049	41,751,451
2021	15,730,294	23,988,697	39,718,990	16,048,295	24,865,028	40,913,323	16,371,886	25,769,869	42,141,755
2022	15,781,781	24,110,249	39,892,030	16,153,451	25,117,942	41,271,393	16,532,955	26,164,457	42,697,412
2023	15,832,950	24,229,055	40,062,005	16,258,316	25,366,627	41,624,943	16,694,132	26,554,768	43,248,900
2024	15,957,430	24,437,412	40,394,842	16,438,818	25,709,305	42,148,123	16,933,707	27,045,253	43,978,960
2025	15,934,224	24,460,989	40,395,213	16,466,931	25,856,427	42,323,358	17,016,417	27,330,323	44,346,740
2026	15,984,038	24,573,937	40,557,975	16,570,063	26,097,137	42,667,199	17,176,556	27,714,861	44,891,416
2027	16,033,192	24,684,934	40,718,126	16,672,169	26,335,131	43,007,300	17,335,633	28,097,291	45,432,924
2028	16,156,063	24,887,452	41,043,515	16,850,718	26,671,203	43,521,921	17,574,326	28,586,263	46,160,589
2029	16,129,245	24,901,830	41,031,075	16,872,678	26,804,394	43,677,072	17,649,566	28,857,884	46,507,450
2030	16,176,158	25,006,892	41,183,050	16,971,083	27,034,927	44,006,010	17,804,390	29,235,310	47,039,700
2031	16,221,374	25,109,580	41,330,954	17,066,235	27,262,835	44,329,070	17,954,584	29,611,125	47,565,708
2032	16,340,198	25,303,935	41,644,133	17,237,531	27,590,171	44,827,702	18,183,831	30,096,048	48,279,880
2033	16,306,688	25,306,064	41,612,752	17,246,600	27,706,051	44,952,651	18,240,623	30,349,548	48,590,171
2034	16,346,867	25,400,630	41,747,496	17,331,929	27,922,381	45,254,310	18,376,571	30,713,389	49,089,960
2035	16,385,431	25,492,958	41,878,389	17,414,066	28,136,162	45,550,228	18,507,821	31,075,465	49,583,286
2036	16,498,589	25,678,529	42,177,119	17,574,339	28,452,151	46,026,490	18,721,144	31,550,710	50,271,854

Annual Change

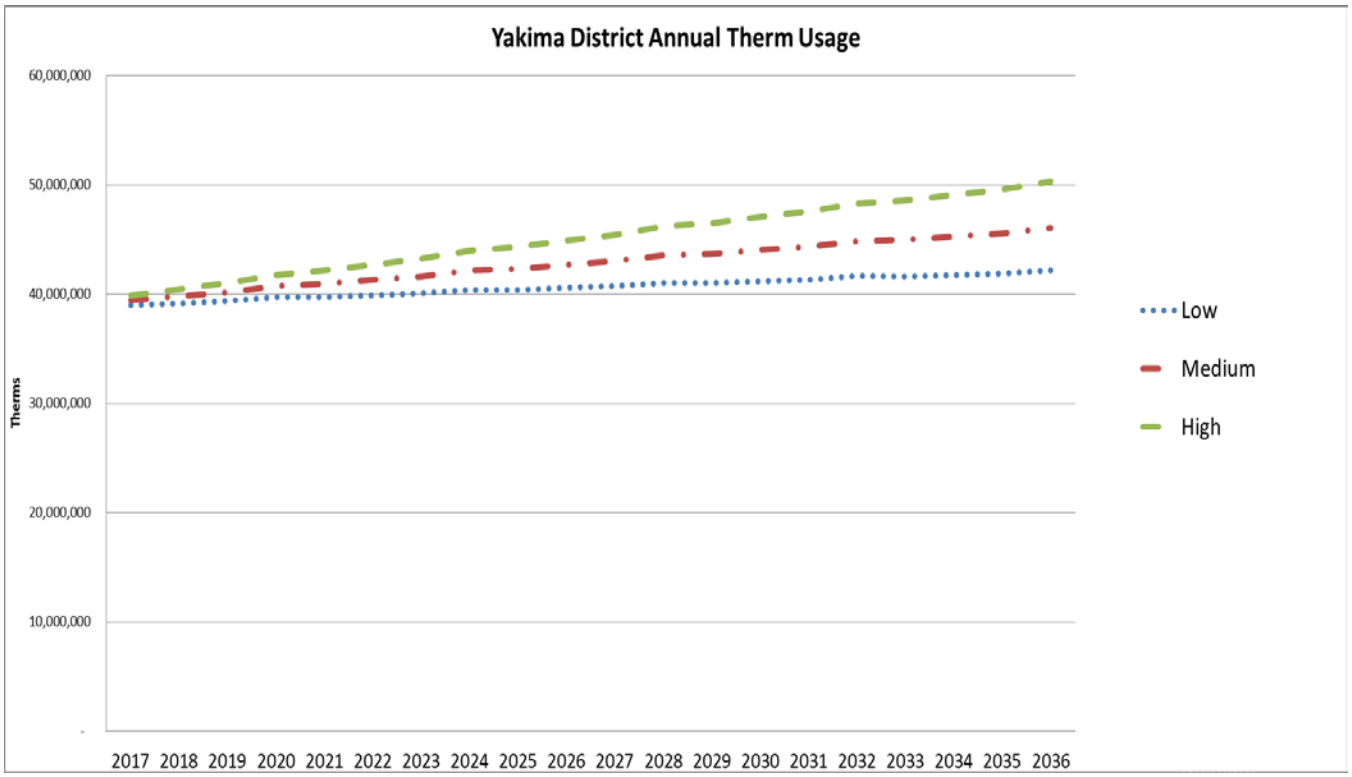
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.34%	0.60%	0.50%	0.67%	1.20%	0.99%	1.01%	1.80%	1.49%
2019	0.33%	0.57%	0.48%	0.67%	1.14%	0.95%	1.00%	1.71%	1.44%
2020	0.80%	0.92%	0.87%	1.13%	1.47%	1.34%	1.47%	2.02%	1.80%
2021	-0.13%	0.15%	0.04%	0.20%	0.67%	0.48%	0.52%	1.20%	0.93%
2022	0.33%	0.51%	0.44%	0.66%	1.02%	0.88%	0.98%	1.53%	1.32%
2023	0.32%	0.49%	0.43%	0.65%	0.99%	0.86%	0.97%	1.49%	1.29%
2024	0.79%	0.86%	0.83%	1.11%	1.35%	1.26%	1.44%	1.85%	1.69%
2025	-0.15%	0.10%	0.00%	0.17%	0.57%	0.42%	0.49%	1.05%	0.84%
2026	0.31%	0.46%	0.40%	0.63%	0.93%	0.81%	0.94%	1.41%	1.23%
2027	0.31%	0.45%	0.39%	0.62%	0.91%	0.80%	0.93%	1.38%	1.21%
2028	0.77%	0.82%	0.80%	1.07%	1.28%	1.20%	1.38%	1.74%	1.60%
2029	-0.17%	0.06%	-0.03%	0.13%	0.50%	0.36%	0.43%	0.95%	0.75%
2030	0.29%	0.42%	0.37%	0.58%	0.86%	0.75%	0.88%	1.31%	1.14%
2031	0.28%	0.41%	0.36%	0.56%	0.84%	0.73%	0.84%	1.29%	1.12%
2032	0.73%	0.77%	0.76%	1.00%	1.20%	1.12%	1.28%	1.64%	1.50%
2033	-0.21%	0.01%	-0.08%	0.05%	0.42%	0.28%	0.31%	0.84%	0.64%
2034	0.25%	0.37%	0.32%	0.49%	0.78%	0.67%	0.75%	1.20%	1.03%
2035	0.24%	0.36%	0.31%	0.47%	0.77%	0.65%	0.71%	1.18%	1.00%
2036	0.69%	0.73%	0.71%	0.92%	1.12%	1.05%	1.15%	1.53%	1.39%

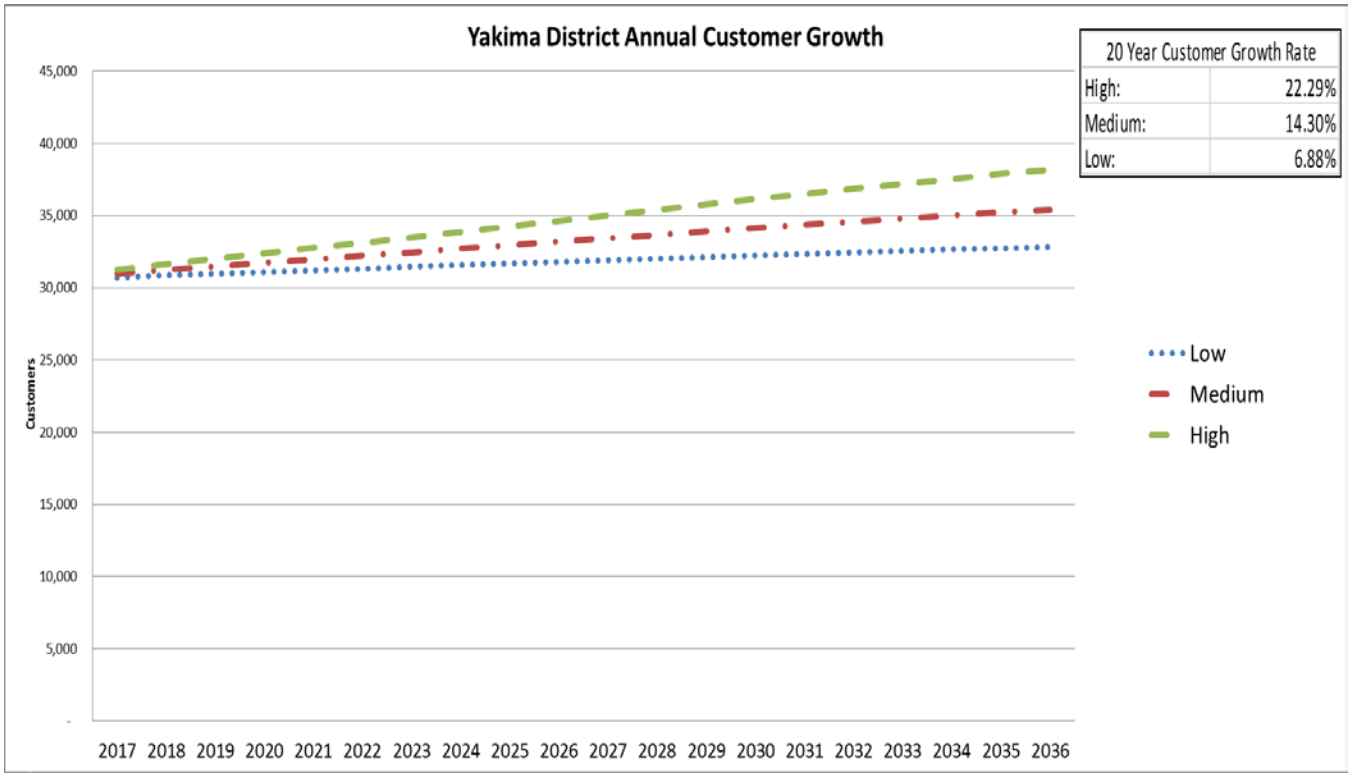
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	25,326	5,396	30,722	25,501	5,478	30,980	25,678	5,561	31,239
2018	25,413	5,433	30,846	25,677	5,553	31,230	25,943	5,675	31,618
2019	25,500	5,468	30,969	25,854	5,626	31,479	26,211	5,787	31,997
2020	25,587	5,503	31,090	26,030	5,697	31,727	26,479	5,896	32,376
2021	25,674	5,537	31,210	26,206	5,767	31,973	26,748	6,005	32,754
2022	25,760	5,570	31,330	26,383	5,836	32,219	27,019	6,114	33,133
2023	25,846	5,603	31,449	26,559	5,906	32,464	27,289	6,223	33,512
2024	25,931	5,636	31,567	26,734	5,975	32,709	27,561	6,332	33,892
2025	26,016	5,668	31,684	26,909	6,043	32,952	27,831	6,441	34,272
2026	26,099	5,700	31,799	27,082	6,112	33,194	28,100	6,551	34,651
2027	26,182	5,732	31,914	27,254	6,180	33,434	28,368	6,660	35,028
2028	26,263	5,763	32,026	27,424	6,247	33,671	28,634	6,770	35,404
2029	26,344	5,794	32,138	27,592	6,315	33,906	28,898	6,879	35,777
2030	26,423	5,825	32,247	27,758	6,381	34,139	29,159	6,989	36,148
2031	26,499	5,855	32,354	27,918	6,448	34,366	29,414	7,098	36,512
2032	26,572	5,884	32,456	28,074	6,513	34,587	29,660	7,206	36,866
2033	26,643	5,913	32,556	28,224	6,577	34,801	29,899	7,313	37,212
2034	26,711	5,942	32,653	28,369	6,641	35,010	30,130	7,420	37,550
2035	26,776	5,970	32,746	28,508	6,704	35,212	30,354	7,526	37,880
2036	26,839	5,997	32,836	28,643	6,766	35,409	30,571	7,631	38,201

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.34%	0.68%	0.40%	0.69%	1.37%	0.81%	1.03%	2.05%	1.22%
2019	0.34%	0.65%	0.40%	0.69%	1.31%	0.80%	1.03%	1.97%	1.20%
2020	0.34%	0.63%	0.39%	0.68%	1.27%	0.79%	1.02%	1.90%	1.18%
2021	0.34%	0.61%	0.39%	0.68%	1.23%	0.78%	1.02%	1.84%	1.17%
2022	0.34%	0.60%	0.38%	0.67%	1.21%	0.77%	1.01%	1.81%	1.16%
2023	0.33%	0.59%	0.38%	0.67%	1.18%	0.76%	1.00%	1.78%	1.14%
2024	0.33%	0.58%	0.38%	0.66%	1.17%	0.75%	0.99%	1.76%	1.14%
2025	0.33%	0.57%	0.37%	0.65%	1.15%	0.74%	0.98%	1.73%	1.12%
2026	0.32%	0.56%	0.37%	0.64%	1.13%	0.73%	0.97%	1.70%	1.11%
2027	0.32%	0.56%	0.36%	0.63%	1.11%	0.72%	0.95%	1.67%	1.09%
2028	0.31%	0.55%	0.35%	0.62%	1.10%	0.71%	0.94%	1.65%	1.07%
2029	0.31%	0.54%	0.35%	0.61%	1.08%	0.70%	0.92%	1.62%	1.05%
2030	0.30%	0.53%	0.34%	0.60%	1.06%	0.69%	0.91%	1.59%	1.04%
2031	0.29%	0.52%	0.33%	0.58%	1.04%	0.66%	0.87%	1.56%	1.01%
2032	0.28%	0.50%	0.32%	0.56%	1.01%	0.64%	0.84%	1.52%	0.97%
2033	0.27%	0.49%	0.31%	0.53%	0.99%	0.62%	0.81%	1.49%	0.94%
2034	0.26%	0.48%	0.30%	0.51%	0.97%	0.60%	0.77%	1.46%	0.91%
2035	0.24%	0.47%	0.29%	0.49%	0.95%	0.58%	0.74%	1.43%	0.88%
2036	0.24%	0.46%	0.28%	0.47%	0.92%	0.56%	0.71%	1.39%	0.85%





20 Year Customer Growth Rate	
High:	22.29%
Medium:	14.30%
Low:	6.88%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Oregon

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	56,887,192	17,957,592	74,844,784	57,919,687	18,302,511	76,222,198	58,963,144	18,651,175	77,614,319
2018	57,381,597	18,120,685	75,502,282	58,929,770	18,635,960	77,565,730	60,510,578	19,162,316	79,672,894
2019	57,873,800	18,281,987	76,155,787	59,945,445	18,969,628	78,915,073	62,082,380	19,679,319	81,761,699
2020	58,689,729	18,440,780	77,130,510	61,307,297	19,303,141	80,610,438	64,034,751	20,202,246	84,236,997
2021	58,853,594	18,599,207	77,452,800	61,997,143	19,639,342	81,636,485	65,305,683	20,734,781	86,040,464
2022	59,344,458	18,757,150	78,101,608	63,040,526	19,978,803	83,019,329	66,969,662	21,278,350	88,248,012
2023	59,833,064	18,913,454	78,746,519	64,089,914	20,318,832	84,408,746	68,660,281	21,828,689	90,488,970
2024	60,659,795	19,069,523	79,729,318	65,516,553	20,662,358	86,178,911	70,782,755	22,390,504	93,173,260
2025	60,811,595	19,224,441	80,036,036	66,221,902	21,007,669	87,229,572	72,146,103	22,961,308	95,107,411
2026	61,299,997	19,378,460	80,678,457	67,301,984	21,355,333	88,657,317	73,938,393	23,542,107	97,480,500
2027	61,787,320	19,532,342	81,319,662	68,390,656	21,705,884	90,096,540	75,763,056	24,133,364	99,896,420
2028	62,622,307	19,685,158	82,307,466	69,878,570	22,058,484	91,937,054	78,058,381	24,734,395	102,792,775
2029	62,761,932	19,837,974	82,599,906	70,599,507	22,415,012	93,014,520	79,519,707	25,348,205	104,867,912
2030	63,247,888	19,989,736	83,237,624	71,717,074	22,773,261	94,490,336	81,448,493	25,971,345	107,419,839
2031	63,733,229	20,141,948	83,875,177	72,844,186	23,135,379	95,979,565	83,412,645	26,606,834	110,019,479
2032	64,574,172	20,292,460	84,866,632	74,389,347	23,498,097	97,887,443	85,882,253	27,250,109	113,132,362
2033	64,694,368	20,442,346	85,136,715	75,109,124	23,863,047	98,972,171	87,418,261	27,903,595	115,321,855
2034	65,170,753	20,590,903	85,761,656	76,249,233	24,229,180	100,478,413	89,464,532	28,565,917	118,030,449
2035	65,645,797	20,739,291	86,385,088	77,396,257	24,598,043	101,994,300	91,542,597	29,239,254	120,781,851
2036	66,487,159	20,887,432	87,374,590	78,991,539	24,969,567	103,961,106	94,183,431	29,923,598	124,107,030

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.87%	0.91%	0.88%	1.74%	1.82%	1.76%	2.62%	2.74%	2.65%
2019	0.86%	0.89%	0.87%	1.72%	1.79%	1.74%	2.60%	2.70%	2.62%
2020	1.41%	0.87%	1.28%	2.27%	1.76%	2.15%	3.14%	2.66%	3.03%
2021	0.28%	0.86%	0.42%	1.13%	1.74%	1.27%	1.98%	2.64%	2.14%
2022	0.83%	0.85%	0.84%	1.68%	1.73%	1.69%	2.55%	2.62%	2.57%
2023	0.82%	0.83%	0.83%	1.66%	1.70%	1.67%	2.52%	2.59%	2.54%
2024	1.38%	0.83%	1.25%	2.23%	1.69%	2.10%	3.09%	2.57%	2.97%
2025	0.25%	0.81%	0.38%	1.08%	1.67%	1.22%	1.93%	2.55%	2.08%
2026	0.80%	0.80%	0.80%	1.63%	1.65%	1.64%	2.48%	2.53%	2.50%
2027	0.79%	0.79%	0.79%	1.62%	1.64%	1.62%	2.47%	2.51%	2.48%
2028	1.35%	0.78%	1.21%	2.18%	1.62%	2.04%	3.03%	2.49%	2.90%
2029	0.22%	0.78%	0.36%	1.03%	1.62%	1.17%	1.87%	2.48%	2.02%
2030	0.77%	0.77%	0.77%	1.58%	1.60%	1.59%	2.43%	2.46%	2.43%
2031	0.77%	0.76%	0.77%	1.57%	1.59%	1.58%	2.41%	2.45%	2.42%
2032	1.32%	0.75%	1.18%	2.12%	1.57%	1.99%	2.96%	2.42%	2.83%
2033	0.19%	0.74%	0.32%	0.97%	1.55%	1.11%	1.79%	2.40%	1.94%
2034	0.74%	0.73%	0.73%	1.52%	1.53%	1.52%	2.34%	2.37%	2.35%
2035	0.73%	0.72%	0.73%	1.50%	1.52%	1.51%	2.32%	2.36%	2.33%
2036	1.28%	0.71%	1.15%	2.06%	1.51%	1.93%	2.88%	2.34%	2.75%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	49,199	914,521	963,720	50,144	930,814	980,958	51,099	947,279	998,378
2018	49,646	922,322	971,967	51,057	946,749	997,806	52,499	971,685	1,024,185
2019	50,088	930,081	980,169	51,972	962,761	1,014,732	53,916	996,459	1,050,375
2020	50,523	937,799	988,322	52,885	978,848	1,031,734	55,349	1,021,602	1,076,951
2021	50,957	945,503	996,460	53,806	995,074	1,048,881	56,808	1,047,219	1,104,027
2022	51,389	953,223	1,004,612	54,736	1,011,495	1,066,232	58,297	1,073,403	1,131,699
2023	51,818	960,900	1,012,718	55,668	1,028,000	1,083,668	59,805	1,099,988	1,159,792
2024	52,245	968,593	1,020,838	56,609	1,044,697	1,101,306	61,344	1,127,145	1,188,489
2025	52,670	976,261	1,028,930	57,555	1,061,509	1,119,065	62,908	1,154,765	1,217,673
2026	53,092	983,918	1,037,009	58,508	1,078,470	1,136,978	64,499	1,182,906	1,247,405
2027	53,513	991,558	1,045,072	59,468	1,095,564	1,155,032	66,119	1,211,547	1,277,666
2028	53,932	999,182	1,053,114	60,434	1,112,794	1,173,228	67,765	1,240,701	1,308,467
2029	54,351	1,006,817	1,061,167	61,411	1,130,213	1,191,624	69,447	1,270,461	1,339,908
2030	54,766	1,014,418	1,069,185	62,392	1,147,733	1,210,125	71,154	1,300,690	1,371,845
2031	55,183	1,022,007	1,077,191	63,385	1,165,393	1,228,778	72,895	1,331,456	1,404,351
2032	55,596	1,029,532	1,085,127	64,378	1,183,082	1,247,460	74,658	1,362,577	1,437,235
2033	56,006	1,037,020	1,093,027	65,378	1,200,859	1,266,237	76,448	1,394,159	1,470,607
2034	56,413	1,044,453	1,100,867	66,381	1,218,694	1,285,076	78,263	1,426,159	1,504,421
2035	56,820	1,051,859	1,108,679	67,392	1,236,627	1,304,019	80,108	1,458,637	1,538,745
2036	57,226	1,059,208	1,116,434	68,410	1,254,654	1,323,064	81,982	1,491,624	1,573,606

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.91%	0.85%	0.86%	1.82%	1.71%	1.72%	2.74%	2.58%	2.58%
2019	0.89%	0.84%	0.84%	1.79%	1.69%	1.70%	2.70%	2.55%	2.56%
2020	0.87%	0.83%	0.83%	1.76%	1.67%	1.68%	2.66%	2.52%	2.53%
2021	0.86%	0.82%	0.82%	1.74%	1.66%	1.66%	2.64%	2.51%	2.51%
2022	0.85%	0.82%	0.82%	1.73%	1.65%	1.65%	2.62%	2.50%	2.51%
2023	0.83%	0.81%	0.81%	1.70%	1.63%	1.64%	2.59%	2.48%	2.48%
2024	0.83%	0.80%	0.80%	1.69%	1.62%	1.63%	2.57%	2.47%	2.47%
2025	0.81%	0.79%	0.79%	1.67%	1.61%	1.61%	2.55%	2.45%	2.46%
2026	0.80%	0.78%	0.79%	1.65%	1.60%	1.60%	2.53%	2.44%	2.44%
2027	0.79%	0.78%	0.78%	1.64%	1.58%	1.59%	2.51%	2.42%	2.43%
2028	0.78%	0.77%	0.77%	1.62%	1.57%	1.58%	2.49%	2.41%	2.41%
2029	0.78%	0.76%	0.76%	1.62%	1.57%	1.57%	2.48%	2.40%	2.40%
2030	0.77%	0.75%	0.76%	1.60%	1.55%	1.55%	2.46%	2.38%	2.38%
2031	0.76%	0.75%	0.75%	1.59%	1.54%	1.54%	2.45%	2.37%	2.37%
2032	0.75%	0.74%	0.74%	1.57%	1.52%	1.52%	2.42%	2.34%	2.34%
2033	0.74%	0.73%	0.73%	1.55%	1.50%	1.51%	2.40%	2.32%	2.32%
2034	0.73%	0.72%	0.72%	1.53%	1.49%	1.49%	2.37%	2.30%	2.30%
2035	0.72%	0.71%	0.71%	1.52%	1.47%	1.47%	2.36%	2.28%	2.28%
2036	0.71%	0.70%	0.70%	1.51%	1.46%	1.46%	2.34%	2.26%	2.27%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	40,379,681	34,465,102	74,844,784	41,063,448	35,158,750	76,222,198	41,754,005	35,860,315	77,614,319
2018	40,722,115	34,780,167	75,502,282	41,762,063	35,803,667	77,565,730	42,822,763	36,850,131	79,672,894
2019	41,067,228	35,088,560	76,155,787	42,473,170	36,441,903	78,915,073	43,921,397	37,840,302	81,761,699
2020	41,596,988	35,533,522	77,130,510	43,386,537	37,223,901	80,610,438	45,248,183	38,988,814	84,236,997
2021	41,764,532	35,688,268	77,452,800	43,931,554	37,704,931	81,636,485	46,208,206	39,832,258	86,040,464
2022	42,116,825	35,984,783	78,101,608	44,679,364	38,339,965	83,019,329	47,398,178	40,849,833	88,248,012
2023	42,471,110	36,275,409	78,746,519	45,438,888	38,969,858	84,408,746	48,618,748	41,870,222	90,488,970
2024	43,016,362	36,712,956	79,729,318	46,414,803	39,764,108	86,178,911	50,092,027	43,081,232	93,173,260
2025	43,186,090	36,849,946	80,036,036	46,994,580	40,234,992	87,229,572	51,156,022	43,951,390	95,107,411
2026	43,545,869	37,132,588	80,678,457	47,789,068	40,868,249	88,657,317	52,470,989	45,009,511	97,480,500
2027	43,906,719	37,412,943	81,319,662	48,593,822	41,502,718	90,096,540	53,816,103	46,080,317	99,896,420
2028	44,463,667	37,843,798	82,307,466	49,626,923	42,310,131	91,937,054	55,435,751	47,357,024	102,792,775
2029	44,631,679	37,968,228	82,599,906	50,234,552	42,779,967	93,014,520	56,599,080	48,268,832	104,867,912
2030	44,995,593	38,242,031	83,237,624	51,070,331	43,420,004	94,490,336	58,037,551	49,382,287	107,419,839
2031	45,357,863	38,517,314	83,875,177	51,910,550	44,069,015	95,979,565	59,497,889	50,521,590	110,019,479
2032	45,919,587	38,947,045	84,866,632	52,987,263	44,900,181	97,887,443	61,248,585	51,883,777	113,132,362
2033	46,076,952	39,059,763	85,136,715	53,603,027	45,369,144	98,972,171	62,482,870	52,838,986	115,321,855
2034	46,434,040	39,327,616	85,761,656	54,455,760	46,022,653	100,478,413	64,008,629	54,021,820	118,030,449
2035	46,789,392	39,595,696	86,385,088	55,312,522	46,681,778	101,994,300	65,556,273	55,225,578	120,781,851
2036	47,351,167	40,023,424	87,374,590	56,422,183	47,538,923	103,961,106	67,424,330	56,682,700	124,107,030

Annual Change

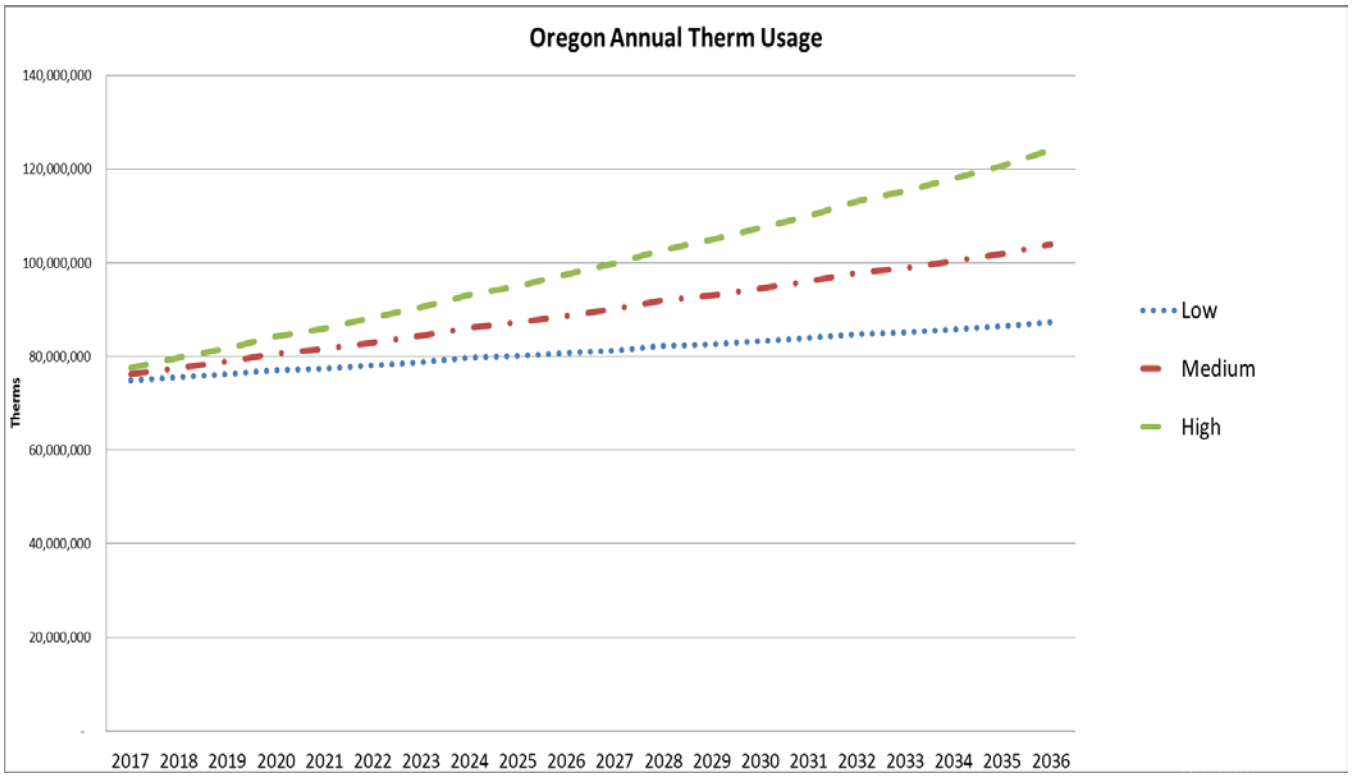
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.85%	0.91%	0.88%	1.70%	1.83%	1.76%	2.56%	2.76%	2.65%
2019	0.85%	0.89%	0.87%	1.70%	1.78%	1.74%	2.57%	2.69%	2.62%
2020	1.29%	1.27%	1.28%	2.15%	2.15%	2.15%	3.02%	3.04%	3.03%
2021	0.40%	0.44%	0.42%	1.26%	1.29%	1.27%	2.12%	2.16%	2.14%
2022	0.84%	0.83%	0.84%	1.70%	1.68%	1.69%	2.58%	2.55%	2.57%
2023	0.84%	0.81%	0.83%	1.70%	1.64%	1.67%	2.58%	2.50%	2.54%
2024	1.28%	1.21%	1.25%	2.15%	2.04%	2.10%	3.03%	2.89%	2.97%
2025	0.39%	0.37%	0.38%	1.25%	1.18%	1.22%	2.12%	2.02%	2.08%
2026	0.83%	0.77%	0.80%	1.69%	1.57%	1.64%	2.57%	2.41%	2.50%
2027	0.83%	0.76%	0.79%	1.68%	1.55%	1.62%	2.56%	2.38%	2.48%
2028	1.27%	1.15%	1.21%	2.13%	1.95%	2.04%	3.01%	2.77%	2.90%
2029	0.38%	0.33%	0.36%	1.22%	1.11%	1.17%	2.10%	1.93%	2.02%
2030	0.82%	0.72%	0.77%	1.66%	1.50%	1.59%	2.54%	2.31%	2.43%
2031	0.81%	0.72%	0.77%	1.65%	1.49%	1.58%	2.52%	2.31%	2.42%
2032	1.24%	1.12%	1.18%	2.07%	1.89%	1.99%	2.94%	2.70%	2.83%
2033	0.34%	0.29%	0.32%	1.16%	1.04%	1.11%	2.02%	1.84%	1.94%
2034	0.77%	0.69%	0.73%	1.59%	1.44%	1.52%	2.44%	2.24%	2.35%
2035	0.77%	0.68%	0.73%	1.57%	1.43%	1.51%	2.42%	2.23%	2.33%
2036	1.20%	1.08%	1.15%	2.01%	1.84%	1.93%	2.85%	2.64%	2.75%

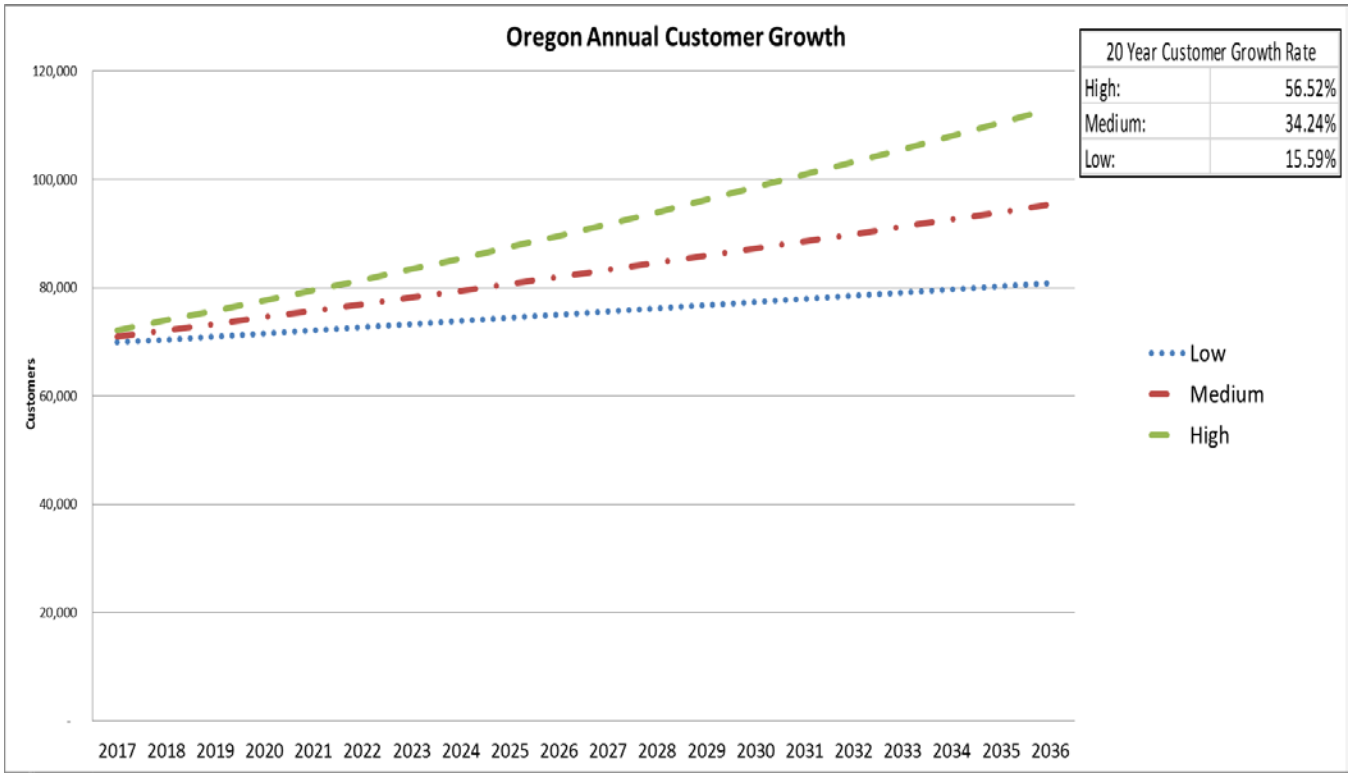
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	59,862	10,046	69,908	60,792	10,262	71,054	61,731	10,481	72,212
2018	60,327	10,145	70,472	61,741	10,465	72,206	63,182	10,792	73,974
2019	60,797	10,242	71,038	62,707	10,666	73,373	64,673	11,105	75,777
2020	61,269	10,337	71,606	63,688	10,866	74,554	66,202	11,420	77,622
2021	61,744	10,432	72,176	64,685	11,068	75,753	67,771	11,739	79,510
2022	62,222	10,527	72,749	65,698	11,271	76,969	69,381	12,066	81,447
2023	62,703	10,621	73,323	66,727	11,474	78,201	71,031	12,394	83,425
2024	63,186	10,714	73,900	67,772	11,677	79,450	72,723	12,729	85,452
2025	63,672	10,807	74,479	68,831	11,882	80,714	74,456	13,068	87,523
2026	64,159	10,899	75,058	69,905	12,088	81,992	76,228	13,412	89,639
2027	64,648	10,990	75,638	70,991	12,294	83,285	78,038	13,761	91,799
2028	65,137	11,081	76,218	72,090	12,502	84,592	79,889	14,115	94,004
2029	65,628	11,172	76,800	73,203	12,712	85,914	81,779	14,477	96,256
2030	66,120	11,262	77,382	74,328	12,921	87,249	83,709	14,843	98,552
2031	66,608	11,353	77,961	75,457	13,135	88,591	85,666	15,217	100,883
2032	67,094	11,443	78,537	76,590	13,348	89,938	87,648	15,597	103,245
2033	67,576	11,533	79,109	77,727	13,563	91,290	89,657	15,982	105,639
2034	68,056	11,622	79,678	78,868	13,779	92,647	91,692	16,374	108,066
2035	68,533	11,711	80,244	80,013	13,997	94,011	93,754	16,773	110,527
2036	69,007	11,800	80,807	81,163	14,217	95,381	95,844	17,180	113,024

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.78%	0.98%	0.81%	1.56%	1.97%	1.62%	2.35%	2.97%	2.44%
2019	0.78%	0.96%	0.80%	1.56%	1.92%	1.62%	2.36%	2.90%	2.44%
2020	0.78%	0.93%	0.80%	1.57%	1.88%	1.61%	2.37%	2.84%	2.43%
2021	0.78%	0.92%	0.80%	1.57%	1.85%	1.61%	2.37%	2.80%	2.43%
2022	0.77%	0.91%	0.79%	1.57%	1.84%	1.61%	2.38%	2.78%	2.44%
2023	0.77%	0.89%	0.79%	1.57%	1.80%	1.60%	2.38%	2.72%	2.43%
2024	0.77%	0.88%	0.79%	1.57%	1.78%	1.60%	2.38%	2.70%	2.43%
2025	0.77%	0.86%	0.78%	1.56%	1.75%	1.59%	2.38%	2.66%	2.42%
2026	0.77%	0.85%	0.78%	1.56%	1.73%	1.58%	2.38%	2.63%	2.42%
2027	0.76%	0.84%	0.77%	1.55%	1.71%	1.58%	2.38%	2.60%	2.41%
2028	0.76%	0.83%	0.77%	1.55%	1.69%	1.57%	2.37%	2.57%	2.40%
2029	0.75%	0.82%	0.76%	1.54%	1.68%	1.56%	2.37%	2.57%	2.40%
2030	0.75%	0.81%	0.76%	1.54%	1.65%	1.55%	2.36%	2.52%	2.39%
2031	0.74%	0.81%	0.75%	1.52%	1.65%	1.54%	2.34%	2.53%	2.37%
2032	0.73%	0.79%	0.74%	1.50%	1.63%	1.52%	2.31%	2.49%	2.34%
2033	0.72%	0.78%	0.73%	1.48%	1.61%	1.50%	2.29%	2.47%	2.32%
2034	0.71%	0.77%	0.72%	1.47%	1.59%	1.49%	2.27%	2.45%	2.30%
2035	0.70%	0.77%	0.71%	1.45%	1.58%	1.47%	2.25%	2.44%	2.28%
2036	0.69%	0.76%	0.70%	1.44%	1.57%	1.46%	2.23%	2.42%	2.26%





20 Year Customer Growth Rate	
High:	56.52%
Medium:	34.24%
Low:	15.59%

20-Year Forecast Data

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

Washington

Annual Requirements (Therms)

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	163,980,599	65,143,283	229,123,882	166,300,665	66,114,285	232,414,950	168,638,730	67,093,158	235,731,888
2018	165,083,640	65,596,796	230,680,436	168,541,080	67,036,148	235,577,228	172,051,280	68,498,398	240,549,678
2019	166,173,289	66,041,058	232,214,347	170,770,431	67,946,281	238,716,713	175,471,625	69,896,386	245,368,011
2020	168,229,888	66,477,783	234,707,672	174,005,916	68,848,477	242,854,393	179,954,832	71,292,922	251,247,754
2021	168,324,638	66,908,469	235,233,107	175,219,781	69,745,848	244,965,630	182,371,278	72,692,733	255,064,011
2022	169,393,295	67,335,427	236,728,722	177,453,770	70,642,810	248,096,580	185,872,259	74,102,525	259,974,784
2023	170,458,038	67,758,636	238,216,674	179,695,400	71,539,174	251,234,573	189,409,785	75,521,990	264,931,775
2024	172,523,006	68,178,790	240,701,796	183,012,148	72,436,112	255,448,260	194,118,796	76,952,901	271,071,697
2025	172,580,656	68,596,582	241,177,238	184,211,224	73,335,047	257,546,271	196,610,559	78,397,563	275,008,122
2026	173,636,744	69,011,555	242,648,299	186,481,569	74,234,774	260,716,343	200,268,248	79,854,038	280,122,286
2027	174,689,958	69,424,557	244,114,515	188,761,375	75,136,992	263,898,367	203,966,383	81,325,106	285,291,488
2028	176,764,522	69,834,172	246,598,694	192,161,645	76,038,463	268,200,108	208,910,404	82,805,496	291,715,900
2029	176,782,046	70,241,944	247,023,989	193,336,449	76,942,412	270,278,862	211,463,665	84,300,441	295,764,106
2030	177,820,305	70,645,969	248,466,274	195,630,682	77,845,329	273,476,011	215,261,594	85,804,578	301,066,172
2031	178,848,186	71,045,785	249,893,971	197,918,136	78,745,878	276,664,014	219,074,349	87,315,635	306,389,984
2032	180,914,536	71,440,439	252,354,975	201,364,107	79,642,032	281,006,139	224,196,993	88,830,238	313,027,231
2033	180,866,654	71,830,045	252,696,698	202,457,234	80,533,445	282,990,679	226,717,320	90,347,458	317,064,778
2034	181,857,612	72,214,742	254,072,354	204,708,422	81,420,096	286,128,518	230,545,747	91,866,998	322,412,744
2035	182,838,499	72,595,290	255,433,789	206,952,186	82,304,252	289,256,438	234,386,973	93,393,057	327,780,030
2036	184,881,639	72,970,992	257,852,631	210,406,763	83,183,610	293,590,373	239,625,858	94,921,234	334,547,092

Annual Change

	Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.67%	0.70%	0.68%	1.35%	1.39%	1.36%	2.02%	2.09%	2.04%
2019	0.66%	0.68%	0.66%	1.32%	1.36%	1.33%	1.99%	2.04%	2.00%
2020	1.24%	0.66%	1.07%	1.89%	1.33%	1.73%	2.55%	2.00%	2.40%
2021	0.06%	0.65%	0.22%	0.70%	1.30%	0.87%	1.34%	1.96%	1.52%
2022	0.63%	0.64%	0.64%	1.27%	1.29%	1.28%	1.92%	1.94%	1.93%
2023	0.63%	0.63%	0.63%	1.26%	1.27%	1.26%	1.90%	1.92%	1.91%
2024	1.21%	0.62%	1.04%	1.85%	1.25%	1.68%	2.49%	1.89%	2.32%
2025	0.03%	0.61%	0.20%	0.66%	1.24%	0.82%	1.28%	1.88%	1.45%
2026	0.61%	0.60%	0.61%	1.23%	1.23%	1.23%	1.86%	1.86%	1.86%
2027	0.61%	0.60%	0.60%	1.22%	1.22%	1.22%	1.85%	1.84%	1.85%
2028	1.19%	0.59%	1.02%	1.80%	1.20%	1.63%	2.42%	1.82%	2.25%
2029	0.01%	0.58%	0.17%	0.61%	1.19%	0.78%	1.22%	1.81%	1.39%
2030	0.59%	0.58%	0.58%	1.19%	1.17%	1.18%	1.80%	1.78%	1.79%
2031	0.58%	0.57%	0.57%	1.17%	1.16%	1.17%	1.77%	1.76%	1.77%
2032	1.16%	0.56%	0.98%	1.74%	1.14%	1.57%	2.34%	1.73%	2.17%
2033	-0.03%	0.55%	0.14%	0.54%	1.12%	0.71%	1.12%	1.71%	1.29%
2034	0.55%	0.54%	0.54%	1.11%	1.10%	1.11%	1.69%	1.68%	1.69%
2035	0.54%	0.53%	0.54%	1.10%	1.09%	1.09%	1.67%	1.66%	1.66%
2036	1.12%	0.52%	0.95%	1.67%	1.07%	1.50%	2.24%	1.64%	2.06%

Peak Day - Baseload

	Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2017	178,475	2,372,105	2,550,580	181,135	2,406,068	2,587,203	183,817	2,440,298	2,624,115
2018	179,717	2,388,248	2,567,965	183,661	2,438,862	2,622,523	187,667	2,490,258	2,677,925
2019	180,934	2,404,192	2,585,126	186,154	2,471,493	2,657,647	191,497	2,540,336	2,731,833
2020	182,131	2,419,982	2,602,113	188,626	2,504,047	2,692,673	195,323	2,590,661	2,785,984
2021	183,311	2,435,659	2,618,970	191,085	2,536,609	2,727,694	199,158	2,641,362	2,840,520
2022	184,481	2,451,284	2,635,765	193,542	2,569,301	2,762,843	203,021	2,692,630	2,895,650
2023	185,640	2,466,848	2,652,488	195,998	2,602,101	2,798,098	206,910	2,744,432	2,951,341
2024	186,791	2,482,381	2,669,172	198,455	2,635,068	2,833,523	210,830	2,796,866	3,007,696
2025	187,936	2,497,867	2,685,803	200,918	2,668,173	2,869,091	214,788	2,849,891	3,064,679
2026	189,073	2,513,297	2,702,370	203,383	2,701,390	2,904,773	218,778	2,903,467	3,122,245
2027	190,204	2,528,683	2,718,887	205,855	2,734,745	2,940,600	222,809	2,957,642	3,180,450
2028	191,326	2,543,986	2,735,313	208,325	2,768,154	2,976,478	226,864	3,012,279	3,239,143
2029	192,444	2,559,240	2,751,684	210,801	2,801,684	3,012,485	230,960	3,067,493	3,298,453
2030	193,551	2,574,405	2,767,955	213,275	2,835,256	3,048,531	235,081	3,123,156	3,358,237
2031	194,646	2,589,416	2,784,062	215,742	2,868,728	3,084,470	239,221	3,179,042	3,418,263
2032	195,727	2,604,246	2,799,973	218,197	2,902,033	3,120,230	243,371	3,235,035	3,478,406
2033	196,795	2,618,899	2,815,694	220,640	2,935,170	3,155,810	247,527	3,291,126	3,538,654
2034	197,849	2,633,374	2,831,223	223,069	2,968,129	3,191,197	251,690	3,347,290	3,598,980
2035	198,891	2,647,704	2,846,595	225,491	3,000,986	3,226,477	255,871	3,403,660	3,659,531
2036	199,921	2,661,860	2,861,781	227,900	3,033,664	3,261,564	260,058	3,460,095	3,720,153

Annual Change

	Low			Medium			High		
	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.70%	0.68%	0.68%	1.39%	1.36%	1.37%	2.09%	2.05%	2.05%
2019	0.68%	0.67%	0.67%	1.36%	1.34%	1.34%	2.04%	2.01%	2.01%
2020	0.66%	0.66%	0.66%	1.33%	1.32%	1.32%	2.00%	1.98%	1.98%
2021	0.65%	0.65%	0.65%	1.30%	1.30%	1.30%	1.96%	1.96%	1.96%
2022	0.64%	0.64%	0.64%	1.29%	1.29%	1.29%	1.94%	1.94%	1.94%
2023	0.63%	0.63%	0.63%	1.27%	1.28%	1.28%	1.92%	1.92%	1.92%
2024	0.62%	0.63%	0.63%	1.25%	1.27%	1.27%	1.89%	1.91%	1.91%
2025	0.61%	0.62%	0.62%	1.24%	1.26%	1.26%	1.88%	1.90%	1.89%
2026	0.60%	0.62%	0.62%	1.23%	1.24%	1.24%	1.86%	1.88%	1.88%
2027	0.60%	0.61%	0.61%	1.22%	1.23%	1.23%	1.84%	1.87%	1.86%
2028	0.59%	0.61%	0.60%	1.20%	1.22%	1.22%	1.82%	1.85%	1.85%
2029	0.58%	0.60%	0.60%	1.19%	1.21%	1.21%	1.81%	1.83%	1.83%
2030	0.58%	0.59%	0.59%	1.17%	1.20%	1.20%	1.78%	1.81%	1.81%
2031	0.57%	0.58%	0.58%	1.16%	1.18%	1.18%	1.76%	1.79%	1.79%
2032	0.56%	0.57%	0.57%	1.14%	1.16%	1.16%	1.73%	1.76%	1.76%
2033	0.55%	0.56%	0.56%	1.12%	1.14%	1.14%	1.71%	1.73%	1.73%
2034	0.54%	0.55%	0.55%	1.10%	1.12%	1.12%	1.68%	1.71%	1.70%
2035	0.53%	0.54%	0.54%	1.09%	1.11%	1.11%	1.66%	1.68%	1.68%
2036	0.52%	0.53%	0.53%	1.07%	1.09%	1.09%	1.64%	1.66%	1.66%

Therms Usage by Class

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	119,719,279	109,404,603	229,123,882	121,110,240	111,304,711	232,414,950	122,509,847	113,222,041	235,731,888
2018	120,415,511	110,264,925	230,680,436	122,520,138	113,057,090	235,577,228	124,651,016	115,898,663	240,549,678
2019	121,115,017	111,099,330	232,214,347	123,945,506	114,771,206	238,716,713	126,829,122	118,538,889	245,368,011
2020	122,364,231	112,343,440	234,707,672	125,948,210	116,906,184	242,854,393	129,622,155	121,625,600	251,247,754
2021	122,521,530	112,711,577	235,233,107	126,838,433	118,127,197	244,965,630	131,291,186	123,772,825	255,064,011
2022	123,228,378	113,500,344	236,728,722	128,305,889	119,790,691	248,096,580	133,575,690	126,399,094	259,974,784
2023	123,937,019	114,279,655	238,216,674	129,786,229	121,448,344	251,234,573	135,894,576	129,037,199	264,931,775
2024	125,207,522	115,494,274	240,701,796	131,869,648	123,578,611	255,448,260	138,869,984	132,201,713	271,071,697
2025	125,358,489	115,818,749	241,177,238	132,783,422	124,762,849	257,546,271	140,633,413	134,374,709	275,008,122
2026	126,068,708	116,579,591	242,648,299	134,294,892	126,421,451	260,716,343	143,045,433	137,076,853	280,122,286
2027	126,778,166	117,336,349	244,114,515	135,814,077	128,084,289	263,898,367	145,484,754	139,806,734	285,291,488
2028	128,057,986	118,540,708	246,598,694	137,954,668	130,245,440	268,200,108	148,610,992	143,104,908	291,715,900
2029	128,191,601	118,832,388	247,023,989	138,868,676	131,410,186	270,278,862	150,434,868	145,329,238	295,764,106
2030	128,895,727	119,570,547	248,466,274	140,404,337	133,071,674	273,476,011	152,946,332	148,119,840	301,066,172
2031	129,590,323	120,303,648	249,893,971	141,928,516	134,735,498	276,664,014	155,454,354	150,935,630	306,389,984
2032	130,860,154	121,494,821	252,354,975	144,084,388	136,921,752	281,006,139	158,666,335	154,360,896	313,027,231
2033	130,951,016	121,745,682	252,696,698	144,941,407	138,049,271	282,990,679	160,457,173	156,607,605	317,064,778
2034	131,617,384	122,454,970	254,072,354	146,430,094	139,698,424	286,128,518	162,951,257	159,461,487	322,412,744
2035	132,274,814	123,158,975	255,433,789	147,907,403	141,349,036	289,256,438	165,440,821	162,339,209	327,780,030
2036	133,520,859	124,331,772	257,852,631	150,045,161	143,545,211	293,590,373	168,681,358	165,865,733	334,547,092

Annual Change

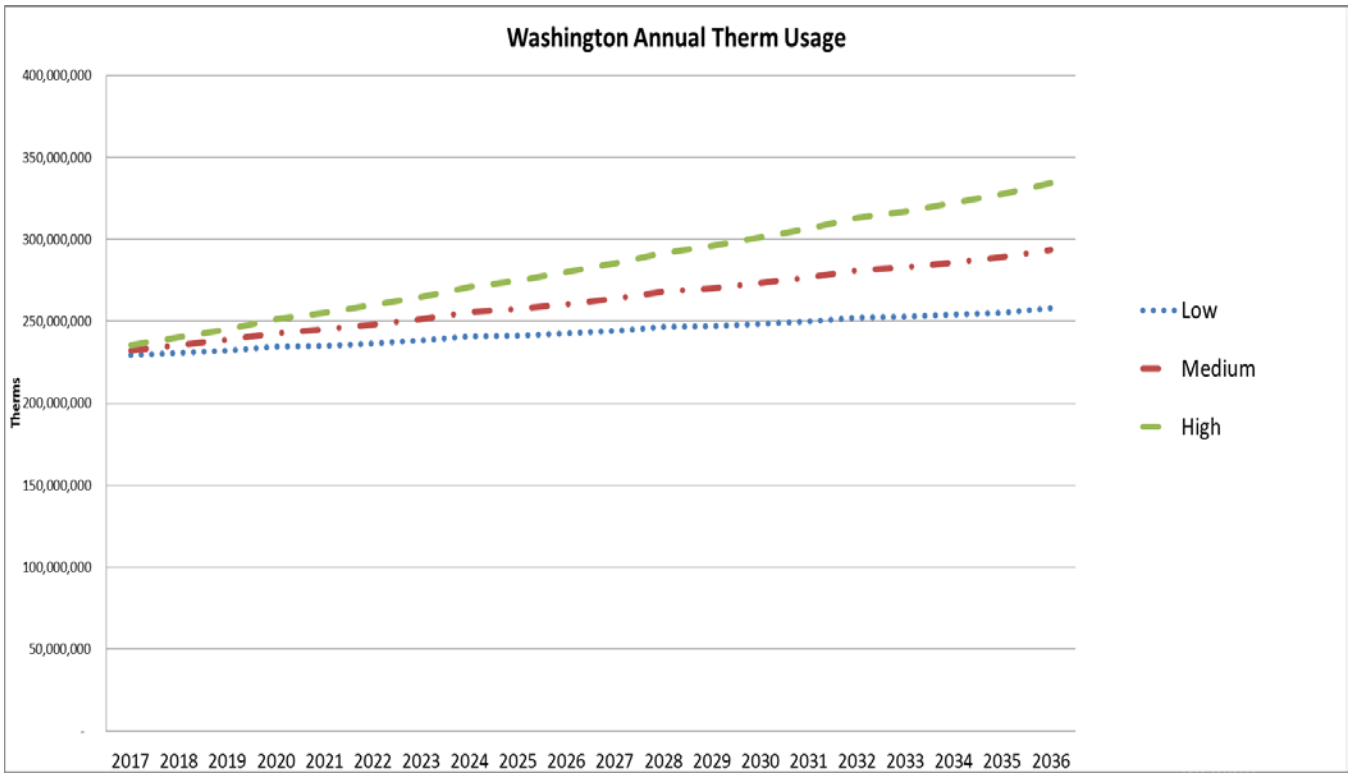
	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.58%	0.79%	0.68%	1.16%	1.57%	1.36%	1.75%	2.36%	2.04%
2019	0.58%	0.76%	0.66%	1.16%	1.52%	1.33%	1.75%	2.28%	2.00%
2020	1.03%	1.12%	1.07%	1.62%	1.86%	1.73%	2.20%	2.60%	2.40%
2021	0.13%	0.33%	0.22%	0.71%	1.04%	0.87%	1.29%	1.77%	1.52%
2022	0.58%	0.70%	0.64%	1.16%	1.41%	1.28%	1.74%	2.12%	1.93%
2023	0.58%	0.69%	0.63%	1.15%	1.38%	1.26%	1.74%	2.09%	1.91%
2024	1.03%	1.06%	1.04%	1.61%	1.75%	1.68%	2.19%	2.45%	2.32%
2025	0.12%	0.28%	0.20%	0.69%	0.96%	0.82%	1.27%	1.64%	1.45%
2026	0.57%	0.66%	0.61%	1.14%	1.33%	1.23%	1.72%	2.01%	1.86%
2027	0.56%	0.65%	0.60%	1.13%	1.32%	1.22%	1.71%	1.99%	1.85%
2028	1.01%	1.03%	1.02%	1.58%	1.69%	1.63%	2.15%	2.36%	2.25%
2029	0.10%	0.25%	0.17%	0.66%	0.89%	0.78%	1.23%	1.55%	1.39%
2030	0.55%	0.62%	0.58%	1.11%	1.26%	1.18%	1.67%	1.92%	1.79%
2031	0.54%	0.61%	0.57%	1.09%	1.25%	1.17%	1.64%	1.90%	1.77%
2032	0.98%	0.99%	0.98%	1.52%	1.62%	1.57%	2.07%	2.27%	2.17%
2033	0.07%	0.21%	0.14%	0.59%	0.82%	0.71%	1.13%	1.46%	1.29%
2034	0.51%	0.58%	0.54%	1.03%	1.19%	1.11%	1.55%	1.82%	1.69%
2035	0.50%	0.57%	0.54%	1.01%	1.18%	1.09%	1.53%	1.80%	1.66%
2036	0.94%	0.95%	0.95%	1.45%	1.55%	1.50%	1.96%	2.17%	2.06%

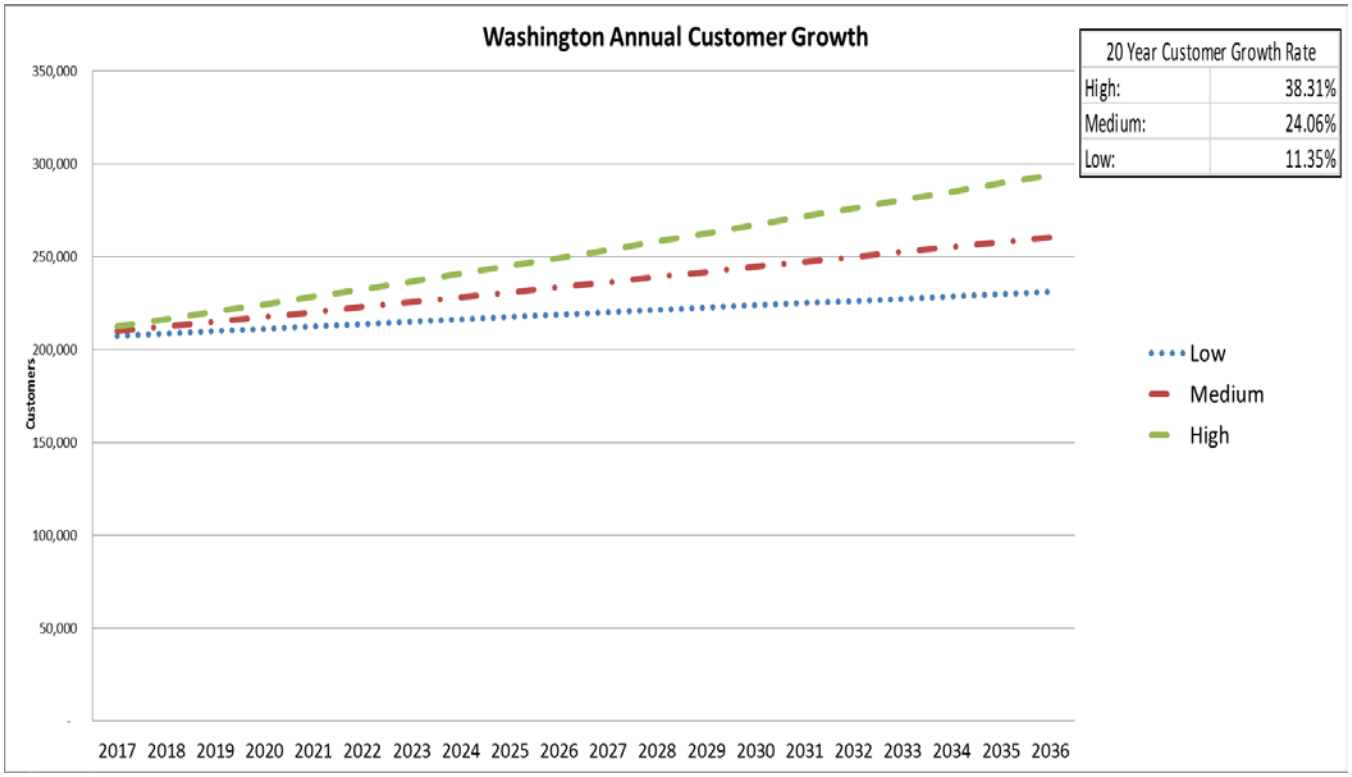
Customer Count Forecast

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	181,298	26,199	207,497	183,385	26,676	210,061	185,484	27,157	212,641
2018	182,343	26,415	208,758	185,499	27,118	212,617	188,695	27,832	216,527
2019	183,392	26,627	210,018	187,637	27,551	215,188	191,961	28,501	220,461
2020	184,445	26,833	211,278	189,795	27,980	217,775	195,279	29,167	224,446
2021	185,501	27,037	212,538	191,974	28,406	220,380	198,649	29,834	228,483
2022	186,561	27,240	213,800	194,173	28,832	223,006	202,072	30,507	232,579
2023	187,623	27,441	215,064	196,392	29,259	225,651	205,546	31,186	236,731
2024	188,688	27,641	216,329	198,630	29,687	228,317	209,072	31,872	240,945
2025	189,754	27,840	217,594	200,882	30,116	230,999	212,643	32,566	245,209
2026	190,818	28,038	218,856	203,146	30,547	233,694	216,254	33,267	249,521
2027	191,881	28,236	220,117	205,421	30,980	236,402	219,905	33,978	253,883
2028	192,941	28,433	221,373	207,703	31,414	239,117	223,589	34,694	258,284
2029	193,999	28,629	222,627	209,995	31,850	241,844	227,312	35,420	262,732
2030	195,053	28,823	223,876	212,293	32,286	244,579	231,068	36,151	267,219
2031	196,093	29,017	225,110	214,573	32,723	247,296	234,818	36,890	271,708
2032	197,118	29,210	226,328	216,835	33,160	249,995	238,559	37,634	276,193
2033	198,129	29,400	227,530	219,079	33,597	252,675	242,293	38,382	280,676
2034	199,126	29,589	228,716	221,304	34,033	255,337	246,018	39,135	285,154
2035	200,110	29,778	229,887	223,512	34,470	257,982	249,735	39,896	289,631
2036	201,080	29,964	231,044	225,703	34,906	260,609	253,447	40,660	294,107

Annual Change

	Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	0.58%	0.83%	0.61%	1.15%	1.66%	1.22%	1.73%	2.49%	1.83%
2019	0.58%	0.80%	0.60%	1.15%	1.60%	1.21%	1.73%	2.40%	1.82%
2020	0.57%	0.78%	0.60%	1.15%	1.56%	1.20%	1.73%	2.34%	1.81%
2021	0.57%	0.76%	0.60%	1.15%	1.52%	1.20%	1.73%	2.29%	1.80%
2022	0.57%	0.75%	0.59%	1.15%	1.50%	1.19%	1.72%	2.26%	1.79%
2023	0.57%	0.74%	0.59%	1.14%	1.48%	1.19%	1.72%	2.22%	1.79%
2024	0.57%	0.73%	0.59%	1.14%	1.46%	1.18%	1.72%	2.20%	1.78%
2025	0.56%	0.72%	0.58%	1.13%	1.45%	1.17%	1.71%	2.18%	1.77%
2026	0.56%	0.71%	0.58%	1.13%	1.43%	1.17%	1.70%	2.15%	1.76%
2027	0.56%	0.71%	0.58%	1.12%	1.42%	1.16%	1.69%	2.13%	1.75%
2028	0.55%	0.70%	0.57%	1.11%	1.40%	1.15%	1.68%	2.11%	1.73%
2029	0.55%	0.69%	0.57%	1.10%	1.39%	1.14%	1.66%	2.09%	1.72%
2030	0.54%	0.68%	0.56%	1.09%	1.37%	1.13%	1.65%	2.06%	1.71%
2031	0.53%	0.67%	0.55%	1.07%	1.35%	1.11%	1.62%	2.04%	1.68%
2032	0.52%	0.66%	0.54%	1.05%	1.34%	1.09%	1.59%	2.02%	1.65%
2033	0.51%	0.65%	0.53%	1.04%	1.32%	1.07%	1.57%	1.99%	1.62%
2034	0.50%	0.64%	0.52%	1.02%	1.30%	1.05%	1.54%	1.96%	1.60%
2035	0.49%	0.64%	0.51%	1.00%	1.29%	1.04%	1.51%	1.94%	1.57%
2036	0.49%	0.63%	0.50%	0.98%	1.27%	1.02%	1.49%	1.91%	1.55%





20 Year Customer Growth Rate	
High:	38.31%
Medium:	24.06%
Low:	11.35%

Cascade Natural Gas
2016 IRP Demand Forecast Summary Tables

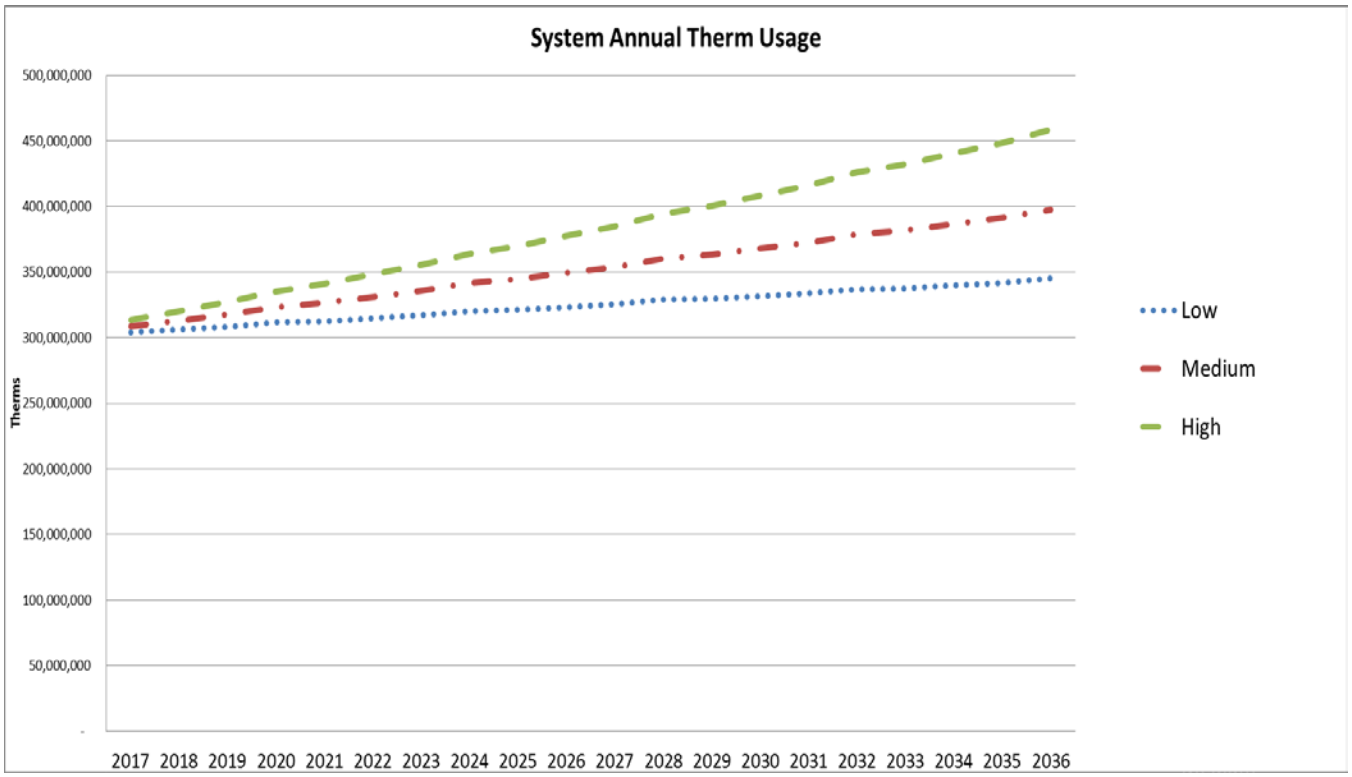
System

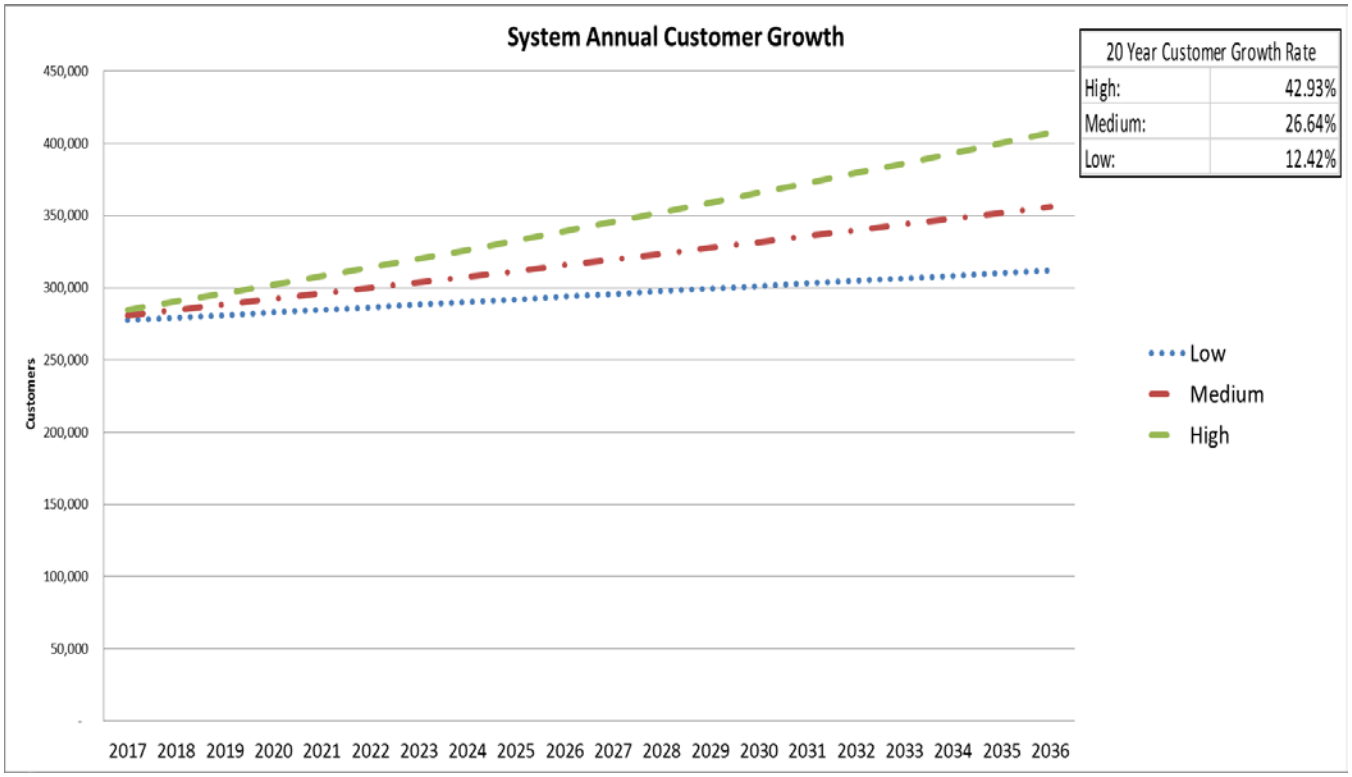
	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2017	220,867,791	83,100,875	303,968,666	224,220,353	84,416,795	308,637,148	227,601,875	85,744,333	313,346,208	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	222,465,237	83,717,481	306,182,718	227,470,850	85,672,108	313,142,958	232,561,858	87,660,714	320,222,572	0.72%	0.74%	0.73%	1.45%	1.49%	1.46%	2.18%	2.23%	2.19%
2019	224,047,089	84,323,046	308,370,134	230,715,877	86,915,909	317,631,786	237,554,005	89,575,705	327,129,710	0.71%	0.72%	0.71%	1.43%	1.45%	1.43%	2.15%	2.18%	2.16%
2020	226,919,618	84,918,564	311,838,181	235,313,213	88,151,618	323,464,831	243,989,583	91,495,168	335,484,752	1.28%	0.71%	1.12%	1.99%	1.42%	1.84%	2.71%	2.14%	2.55%
2021	227,178,231	85,507,676	312,685,907	237,216,924	89,385,190	326,602,114	247,676,961	93,427,513	341,104,474	0.11%	0.69%	0.27%	0.81%	1.40%	0.97%	1.51%	2.11%	1.68%
2022	228,737,753	86,092,578	314,830,330	240,494,296	90,621,613	331,115,909	252,841,920	95,380,875	348,222,796	0.69%	0.68%	0.69%	1.38%	1.38%	1.38%	2.09%	2.09%	2.09%
2023	230,291,102	86,672,091	316,963,193	243,785,314	91,858,006	335,643,319	258,070,066	97,350,679	355,420,745	0.68%	0.67%	0.68%	1.37%	1.36%	1.37%	2.07%	2.07%	2.07%
2024	233,182,801	87,248,313	320,431,114	248,528,701	93,098,470	341,627,171	264,901,551	99,343,405	364,244,956	1.26%	0.66%	1.09%	1.95%	1.35%	1.78%	2.65%	2.05%	2.48%
2025	233,392,251	87,821,022	321,213,274	250,433,126	94,342,716	344,775,842	268,756,662	101,358,871	370,115,533	0.09%	0.66%	0.24%	0.77%	1.34%	0.92%	1.46%	2.03%	1.61%
2026	234,936,741	88,390,015	323,326,756	253,783,553	95,590,107	349,373,660	274,206,642	103,396,144	377,602,786	0.66%	0.65%	0.66%	1.34%	1.32%	1.33%	2.03%	2.01%	2.02%
2027	236,477,278	88,956,899	325,434,178	257,152,031	96,842,876	353,994,907	279,729,438	105,458,469	385,187,908	0.66%	0.64%	0.65%	1.33%	1.31%	1.32%	2.01%	1.99%	2.01%
2028	239,386,829	89,519,331	328,906,160	262,040,215	98,096,947	360,137,162	286,968,785	107,539,891	394,508,675	1.23%	0.63%	1.07%	1.90%	1.29%	1.74%	2.59%	1.97%	2.42%
2029	239,543,977	90,079,918	329,623,896	263,935,957	99,357,425	363,293,382	290,983,372	109,648,646	400,632,018	0.07%	0.63%	0.22%	0.72%	1.28%	0.88%	1.40%	1.96%	1.55%
2030	241,068,193	90,635,705	331,703,899	267,347,757	100,618,590	367,966,347	296,710,087	111,775,923	408,486,010	0.64%	0.62%	0.63%	1.29%	1.27%	1.29%	1.97%	1.94%	1.96%
2031	242,581,415	91,187,733	333,769,148	270,762,322	101,881,257	372,643,579	302,486,994	113,922,469	416,409,463	0.63%	0.61%	0.62%	1.28%	1.25%	1.27%	1.95%	1.92%	1.94%
2032	245,488,708	91,732,899	337,221,607	275,753,454	103,140,128	378,893,582	310,079,246	116,080,348	426,159,593	1.20%	0.60%	1.03%	1.84%	1.24%	1.68%	2.51%	1.89%	2.34%
2033	245,561,022	92,272,391	337,833,413	277,566,358	104,396,492	381,962,850	314,135,580	118,251,053	432,386,633	0.03%	0.59%	0.18%	0.66%	1.22%	0.81%	1.31%	1.87%	1.46%
2034	247,028,365	92,805,644	339,834,009	280,957,654	105,649,276	386,606,931	320,010,278	120,432,915	440,443,193	0.60%	0.58%	0.59%	1.22%	1.20%	1.22%	1.87%	1.85%	1.86%
2035	248,484,296	93,334,581	341,818,877	284,348,443	106,902,295	391,250,738	325,929,570	122,632,311	448,561,881	0.59%	0.57%	0.58%	1.21%	1.19%	1.20%	1.85%	1.83%	1.84%
2036	251,368,797	93,858,424	345,227,222	289,398,302	108,153,177	397,551,479	333,809,289	124,844,832	458,654,121	1.16%	0.56%	1.00%	1.78%	1.17%	1.61%	2.42%	1.80%	2.25%

	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2017	227,674	3,286,626	3,514,300	231,279	3,336,883	3,568,161	234,916	3,387,577	3,622,493	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	229,363	3,310,569	3,539,932	234,718	3,385,611	3,620,329	240,166	3,461,943	3,702,110	0.74%	0.73%	0.73%	1.49%	1.46%	1.46%	2.23%	2.20%	2.20%
2019	231,022	3,334,273	3,565,295	238,126	3,434,253	3,672,379	245,413	3,536,795	3,782,208	0.72%	0.72%	0.72%	1.45%	1.44%	1.44%	2.18%	2.16%	2.16%
2020	232,654	3,357,781	3,590,434	241,511	3,482,896	3,724,407	250,672	3,612,264	3,862,935	0.71%	0.71%	0.71%	1.42%	1.42%	1.42%	2.14%	2.13%	2.13%
2021	234,268	3,381,162	3,615,429	244,891	3,531,683	3,776,574	255,966	3,688,581	3,944,547	0.69%	0.70%	0.70%	1.40%	1.40%	1.40%	2.11%	2.11%	2.11%
2022	235,870	3,404,507	3,640,377	248,278	3,580,797	3,829,075	261,317	3,766,032	4,027,350	0.68%	0.69%	0.69%	1.38%	1.39%	1.39%	2.09%	2.10%	2.10%
2023	237,458	3,427,748	3,665,206	251,666	3,630,101	3,881,766	266,714	3,844,419	4,111,134	0.67%	0.68%	0.68%	1.36%	1.38%	1.38%	2.07%	2.08%	2.08%
2024	239,036	3,450,974	3,690,010	255,064	3,679,764	3,934,829	272,174	3,924,011	4,196,185	0.66%	0.68%	0.68%	1.35%	1.37%	1.37%	2.05%	2.07%	2.07%
2025	240,606	3,474,128	3,714,734	258,473	3,729,682	3,988,155	277,696	4,004,656	4,282,352	0.66%	0.67%	0.67%	1.34%	1.36%	1.36%	2.03%	2.06%	2.05%
2026	242,164	3,497,215	3,739,379	261,891	3,779,861	4,041,751	283,277	4,086,373	4,369,650	0.65%	0.66%	0.66%	1.32%	1.35%	1.34%	2.01%	2.04%	2.04%
2027	243,718	3,520,241	3,763,959	265,323	3,830,309	4,095,632	288,927	4,169,189	4,458,116	0.64%	0.66%	0.66%	1.31%	1.33%	1.33%	1.99%	2.03%	2.02%
2028	245,258	3,543,169	3,788,427	268,759	3,880,947	4,149,706	294,630	4,252,980	4,547,610	0.63%	0.65%	0.65%	1.29%	1.32%	1.32%	1.97%	2.01%	2.01%
2029	246,794	3,566,057	3,812,852	272,212	3,931,897	4,204,109	300,407	4,337,954	4,638,361	0.63%	0.65%	0.64%	1.28%	1.31%	1.31%	1.96%	2.00%	2.00%
2030	248,317	3,588,823	3,837,140	275,667	3,982,989	4,258,656	306,235	4,423,847	4,730,082	0.62%	0.64%	0.64%	1.27%	1.30%	1.30%	1.94%	1.98%	1.98%
2031	249,829	3,611,423	3,861,252	279,127	4,034,121	4,313,247	312,116	4,510,498	4,822,614	0.61%	0.63%	0.63%	1.25%	1.28%	1.28%	1.92%	1.96%	1.96%
2032	251,323	3,633,777	3,885,100	282,576	4,085,114	4,367,690	318,028	4,597,612	4,915,641	0.60%	0.62%	0.62%	1.24%	1.26%	1.26%	1.89%	1.93%	1.93%
2033	252,801	3,655,919	3,908,720	286,018	4,136,029	4,422,047	323,975	4,685,285	5,009,260	0.59%	0.61%	0.61%	1.22%	1.25%	1.24%	1.87%	1.91%	1.90%
2034	254,262	3,677,828	3,932,090	289,450	4,186,823	4,476,273	329,953	4,773,448	5,103,401	0.58%	0.60%	0.60%	1.20%	1.23%	1.23%	1.85%	1.88%	1.88%
2035	255,711	3,699,564	3,955,275	292,883	4,237,613	4,530,496	335,979	4,862,297	5,198,276	0.57%	0.59%	0.59%	1.19%	1.21%	1.21%	1.83%	1.86%	1.86%
2036	257,146	3,721,068	3,978,214	296,310	4,288,318	4,584,628	342,041	4,951,718	5,293,759	0.56%	0.58%	0.58%	1.17%	1.20%	1.19%	1.80%	1.84%	1.84%

	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	160,098,960	143,869,706	303,968,666	162,173,688	146,463,461	308,637,148	164,263,852	149,082,356	313,346,208	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	161,137,626	145,045,091	306,182,718	164,282,201	148,860,757	313,142,958	167,473,778	152,748,794	320,222,572	0.65%	0.82%	0.73%	1.30%	1.64%	1.46%	1.95%	2.46%	2.19%
2019	162,182,245	146,187,889	308,370,134	166,418,676	151,213,110	317,631,786	170,750,519	156,379,191	327,129,710	0.65%	0.79%	0.71%	1.30%	1.58%	1.43%	1.96%	2.38%	2.16%
2020	163,961,219	147,876,962	311,838,181	169,334,747	154,130,084	323,464,831	174,870,338	160,614,414	335,484,752	1.10%	1.16%	1.12%	1.75%	1.93%	1.84%	2.41%	2.71%	2.55%
2021	164,286,062	148,399,845	312,685,907	170,769,987	155,832,128	326,602,114	177,499,392	163,605,083	341,104,474	0.20%	0.35%	0.27%	0.85%	1.10%	0.97%	1.50%	1.86%	1.68%
2022	165,345,203	149,485,128	314,830,330	172,985,253	158,130,656	331,115,909	180,973,868	167,248,928	348,222,796	0.64%	0.73%	0.69%	1.30%	1.48%	1.38%	1.96%	2.23%	2.09%
2023	166,408,129	150,555,064	316,963,193	175,225,117	160,418,202	335,643,319	184,513,324	170,907,422	355,420,745	0.64%	0.72%	0.68%	1.29%	1.45%	1.37%	1.96%	2.19%	2.07%
2024	168,223,884	152,207,230	320,431,114	178,284,452	163,342,719	341,627,171	188,962,012	175,282,945	364,244,956	1.09%	1.10%	1.09%	1.75%	1.82%	1.78%	2.41%	2.56%	2.48%
2025	168,544,578	152,668,695	321,213,274	179,778,001	164,997,841	344,775,842	191,789,435	178,326,098	370,115,533	0.19%	0.30%	0.24%	0.84%	1.01%	0.92%	1.50%	1.74%	1.61%
2026	169,614,577	153,712,179	323,326,756	182,083,960	167,289,699	349,373,660	195,516,422	182,086,364	377,602,786	0.63%	0.68%	0.66%	1.28%	1.39%	1.33%	1.94%	2.11%	2.02%
2027	170,684,885	154,749,293	325,434,178	184,407,899	169,587,008	353,994,907	199,300,857	185,887,051	385,187,908	0.63%	0.67%	0.65%	1.28%	1.37%	1.32%	1.94%	2.09%	2.01%
2028	172,521,653	156,384,506	328,906,160	187,581,591	172,555,571	360,137,162	204,046,743	190,461,932	394,508,675	1.08%	1.06%	1.07%	1.72%	1.75%	1.74%	2.38%	2.46%	2.42%
2029	172,823,280	156,800,616	329,623,896	189,103,228	174,190,153	363,293,382	207,033,948	193,598,070	400,632,018	0.17%	0.27%	0.22%	0.81%	0.95%	0.88%	1.46%	1.65%	1.55%
2030	173,891,321	157,812,578	331,703,899	191,474,669	176,491,678	367,966,347	210,983,883	197,502,127	408,486,010	0.62%	0.65%	0.63%	1.25%	1.32%	1.29%	1.91%	2.02%	1.96%
2031	174,948,187	158,820,962	333,769,148	193,839,066	178,804,513	372,643,579	214,952,243	201,457,220	416,409,463	0.61%	0.64%	0.62%	1.23%	1.31%	1.27%	1.88%	2.00%	1.94%
2032	176,779,740	160,441,867	337,221,607	197,071,650	181,821,932	378,893,582	219,914,920	206,244,673	426,159,593	1.05%	1.02%	1.03%	1.67%	1.69%	1.68%	2.31%	2.38%	2.34%
2033	177,027,968	160,805,446	337,833,413	198,544,434	183,418,415	381,962,850	222,940,042	209,446,591	432,386,633	0.14%	0.23%	0.18%	0.75%	0.88%	0.81%	1.38%	1.55%	1.46%
2034	178,051,423	161,782,586	339,834,009	200,885,854	185,721,077	386,606,931	226,959,886	213,483,308	440,443,193	0.58%	0.61%	0.59%	1.18%	1.26%	1.22%	1.80%	1.93%	1.86%
2035	179,064,206	162,754,671	341,818,877	203,219,925	188,030,813	391,250,738	230,997,094	217,564,787	448,561,881	0.57%	0.60%	0.58%	1.16%	1.24%	1.20%	1.78%	1.91%	1.84%
2036	180,872,026	164,355,196	345,227,222	206,467,344	191,084,134	397,551,479	236,105,688	222,548,433	458,654,121	1.01%	0.98%	1.00%	1.60%	1.62%	1.61%	2.21%	2.29%	2.25%

	Customer Count Forecast									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2017	241,160	36,244	277,405	244,177	36,938	281,115	247,215	37,638	284,853	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2018	242,670	36,560	279,230	247,240	37,582	284,823	251,877	38,625	290,502	0.63%	0.87%	0.66%	1.25%	1.74%	1.32%	1.89%	2.62%	1.98%
2019	244,188	36,868	281,057	250,343	38,217	288,561	256,633	39,606	296,239	0.63%	0.84%	0.65%	1.26%	1.69%	1.31%	1.89%	2.54%	1.97%
2020	245,713	37,171	282,884	253,483	38,846	292,330	261,481	40,587	302,068	0.62%	0.82%	0.65%	1.25%	1.65%	1.31%	1.89%	2.48%	1.97%
2021	247,245	37,470	284,714	256,659	39,474	296,133	266,419	41,574	307,993	0.62%	0.80%	0.65%	1.25%	1.61%	1.30%	1.89%	2.43%	1.96%
2022	248,783	37,767	286,550	259,872	40,103	299,975	271,453	42,573	314,025	0.62%	0.79%	0.64%	1.25%	1.59%	1.30%	1.89%	2.40%	1.96%
2023	250,326	38,062	288,387	263,119	40,733	303,851	276,576	43,580	320,157	0.62%	0.78%	0.64%	1.25%	1.57%	1.29%	1.89%	2.37%	1.95%
2024	251,875	38,355	290,230	266,402	41,365	307,767	281,796	44,601	326,397	0.62%	0.77%	0.64%	1.25%	1.55%	1.29%	1.89%	2.34%	1.95%
2025	253,426	38,646	292,072	269,714	41,999	311,712	287,098	45,634	332,732	0.62%	0.76%	0.63%	1.24%	1.53%	1.28%	1.88%	2.32%	1.94%
2026	254,977	38,937	293,914	273,051	42,635	315,686	292,482	46,679	339,161	0.61%	0.75%	0.63%	1.24%	1.52%	1.27%	1.88%	2.29%	1.93%
2027	256,529	39,226	295,755	276,412	43,274	319,687	297,943	47,738	345,682	0.61%	0.74%	0.63%	1.23%	1.50%	1.27%	1.87%	2.27%	1.92%
2028	258,078	39,514	297,592	279,793	43,916	323,709	303,478	48,809	352,287	0.60%	0.73%	0.62%	1.22%	1.48%	1.26%	1.86%	2.24%	1.91%
2029	259,627	39,801	299,428	283,197	44,561	327,759	309,090	49,897	358,988	0.60%	0.73%	0.62%	1.22%	1.47%	1.25%	1.85%	2.23%	1.90%
2030	261,173	40,086	301,258	286,620	45,207	331,828	314,777	50,994	365,771	0.60%	0.72%	0.61%	1.21%	1.45%	1.24%	1.84%	2.20%	1.89%
2031	262,701	40,370	303,072	290,030	45,857	335,888	320,484	52,108	372,591	0.59%	0.71%	0.60%	1.19%	1.44%	1.22%	1.81%	2.18%	1.86%
2032	264,212	40,653	304,864	293,424	46,508	339,932	326,206	53,231	379,437	0.57%	0.70%	0.59%	1.17%	1.42%	1.20%	1.79%	2.16%	1.84%
2033	265,706	40,933	306,639	296,806	47,160	343,965	331,950	54,365	386,315	0.57%	0.69%	0.58%	1.15%	1.40%	1.19%	1.76%	2.13%	1.81%
2034	267,182	41,211	308,394	300,172	47,812	347,984	337,710	55,509	393,220	0.56%	0.68%	0.57%	1.13%	1.38%	1.17%	1.74%	2.11%	1.79%
2035	268,642	41,489	310,131	303,525	48,468	351,992	343,489	56,670	400,159	0.55%	0.67%	0.56%	1.12%	1.37%	1.15%	1.71%	2.09%	1.76%
2036	270,087	41,764	311,851	306,867	49,124	355,990	349,291	57,840	407,131	0.54%	0.66%	0.55%	1.10%	1.35%	1.14%	1.69%	2.07%	1.74%





20 Year Customer Growth Rate	
High:	42.93%
Medium:	26.64%
Low:	12.42%

Athena	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.84%	0.83%	1.30%	0.30%	0.79%	0.77%	1.26%	0.27%	0.74%
Residential Therms	264,889	266,540	268,202	271,161	271,533	273,205	274,878	277,878	278,222	279,877
Commercial Therms	127,398	129,036	130,638	132,851	133,710	135,233	136,699	138,877	139,653	141,102
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	392,286	395,576	398,841	404,012	405,243	408,438	411,576	416,755	417,875	420,979
Daily Baseload Therms	426	430	433	436	440	443	446	449	452	456
Peak Day Therms	4,781	4,822	4,862	4,902	4,942	4,981	5,020	5,059	5,098	5,136
Therms Per Residential Customer	521	521	521	524	521	521	521	524	521	521
Therms Per Commercial Customer	1,964	1,964	1,964	1,974	1,964	1,964	1,964	1,974	1,964	1,964
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	508	511	514	518	521	524	527	530	534	537
Commercial Customers	65	66	67	67	68	69	70	70	71	72
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	573	577	581	585	589	593	597	601	605	609

Baker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.53%	0.53%	0.93%	0.01%	0.48%	0.43%	0.91%	-0.03%	0.44%
Residential Therms	2,135,558	2,141,497	2,147,304	2,163,605	2,158,919	2,164,727	2,170,402	2,186,549	2,181,621	2,187,033
Commercial Therms	1,577,636	1,591,560	1,605,573	1,625,013	1,629,987	1,642,689	1,653,700	1,672,945	1,676,977	1,689,074
Industrial Therms	71,285	71,561	71,726	71,726	71,671	71,616	71,506	71,451	71,285	71,064
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	3,784,479	3,804,617	3,824,604	3,860,345	3,860,578	3,879,032	3,895,608	3,930,945	3,929,883	3,947,171
Daily Baseload Therms	1,633	1,643	1,652	1,660	1,668	1,677	1,684	1,691	1,699	1,706
Peak Day Therms	43,238	43,462	43,685	43,887	44,088	44,295	44,482	44,675	44,866	45,061
Therms Per Residential Customer	655	655	655	658	655	655	655	658	655	655
Therms Per Commercial Customer	3,127	3,127	3,127	3,141	3,127	3,127	3,127	3,141	3,127	3,127
Therms Per Industrial Customer	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523
Residential Customers	3,262	3,271	3,280	3,289	3,298	3,306	3,315	3,324	3,332	3,340
Commercial Customers	505	509	513	517	521	525	529	533	536	540
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,769	3,783	3,796	3,809	3,822	3,835	3,847	3,859	3,872	3,884

Umatilla	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.11%	1.02%	1.26%	0.63%	0.91%	0.82%	1.12%	0.47%	0.76%
Residential Therms	289,021	290,836	292,661	295,964	296,320	298,157	299,995	303,344	303,670	305,491
Commercial Therms	275,744	279,523	283,165	287,874	289,960	293,178	296,449	301,089	302,684	305,798
Industrial Therms	70,914	71,778	72,567	73,283	73,978	74,592	75,206	75,752	76,259	76,765
Ind., Inst., & Cmcl. Interrup. Therms	582,863	589,951	596,320	603,252	608,031	613,889	618,716	624,650	628,376	632,897
Total Core Therms	1,218,542	1,232,088	1,244,713	1,260,373	1,268,288	1,279,816	1,290,366	1,304,837	1,310,988	1,320,950
Daily Baseload Therms	1,205	1,220	1,233	1,245	1,257	1,269	1,280	1,290	1,300	1,310
Peak Day Therms	16,943	17,128	17,300	17,466	17,623	17,782	17,926	18,074	18,210	18,347
Therms Per Residential Customer	274	274	274	276	274	274	274	276	274	274
Therms Per Commercial Customer	1,686	1,686	1,686	1,694	1,686	1,686	1,686	1,694	1,686	1,686
Therms Per Industrial Customer	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970
Residential Customers	1,054	1,060	1,067	1,074	1,080	1,087	1,094	1,100	1,107	1,114
Commercial Customers	164	166	168	170	172	174	176	178	180	181
Industrial Customers	7	7	7	7	7	7	8	8	8	8
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	1,226	1,235	1,244	1,253	1,262	1,271	1,279	1,288	1,296	1,305

Chemult	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.61%	0.56%	0.88%	0.16%	0.47%	0.46%	0.81%	0.09%	0.40%
Residential Therms	10,020	10,060	10,099	10,174	10,179	10,218	10,257	10,332	10,335	10,373
Commercial Therms	37,566	37,817	38,044	38,393	38,465	38,653	38,838	39,162	39,200	39,359
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	47,586	47,876	48,144	48,567	48,643	48,872	49,095	49,493	49,535	49,732
Daily Baseload Therms	55	55	55	56	56	56	56	57	57	57
Peak Day Therms	582	586	589	592	595	598	600	603	606	608
Therms Per Residential Customer	399	399	399	400	399	399	399	400	399	399
Therms Per Commercial Customer	1,781	1,781	1,781	1,787	1,781	1,781	1,781	1,787	1,781	1,781
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	25	25	25	25	26	26	26	26	26	26
Commercial Customers	21	21	21	21	22	22	22	22	22	22
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	46	46	47	47	47	47	48	48	48	48

Gilchrist	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.50%	0.46%	0.89%	-0.04%	0.38%	0.36%	0.81%	-0.13%	0.29%
Residential Therms	96,382	96,763	97,145	97,959	97,906	98,286	98,664	99,479	99,411	99,776
Commercial Therms	127,866	128,616	129,270	130,475	130,439	130,927	131,367	132,413	132,176	132,488
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	224,248	225,379	226,415	228,434	228,346	229,213	230,030	231,892	231,587	232,264
Daily Baseload Therms	99	99	100	100	100	101	101	102	102	102
Peak Day Therms	2,998	3,013	3,027	3,040	3,053	3,064	3,075	3,086	3,096	3,105
Therms Per Residential Customer	527	527	527	530	527	527	527	530	527	527
Therms Per Commercial Customer	3,236	3,236	3,236	3,251	3,236	3,236	3,236	3,251	3,236	3,236
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	183	183	184	185	186	186	187	188	189	189
Commercial Customers	40	40	40	40	40	40	41	41	41	41
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	222	223	224	225	226	227	228	229	229	230

Hermiston	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.11%	1.09%	1.53%	0.60%	1.05%	1.03%	1.49%	0.55%	1.00%
Residential Therms	2,340,042	2,354,635	2,369,317	2,395,814	2,398,742	2,413,514	2,428,286	2,455,165	2,457,831	2,472,453
Commercial Therms	2,625,990	2,667,686	2,708,777	2,761,400	2,789,908	2,830,626	2,870,800	2,924,062	2,952,052	2,992,624
Industrial Therms	183,475	184,631	185,642	186,509	187,262	187,923	188,532	189,026	189,436	189,817
Ind., Inst., & Cmcl. Interrup. Therms	304,171	307,414	310,862	316,331	317,822	321,389	324,929	330,789	332,319	336,013
Total Core Therms	5,453,677	5,514,366	5,574,598	5,660,054	5,693,733	5,753,452	5,812,547	5,899,042	5,931,638	5,990,907
Daily Baseload Therms	4,421	4,476	4,530	4,584	4,637	4,690	4,742	4,795	4,848	4,900
Peak Day Therms	73,148	73,926	74,700	75,465	76,232	77,000	77,760	78,526	79,293	80,055
Therms Per Residential Customer	646	646	646	649	646	646	646	649	646	646
Therms Per Commercial Customer	3,623	3,623	3,623	3,639	3,623	3,623	3,623	3,639	3,623	3,623
Therms Per Industrial Customer	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585
Residential Customers	3,622	3,644	3,667	3,690	3,712	3,735	3,758	3,781	3,804	3,826
Commercial Customers	725	736	748	759	770	781	792	804	815	826
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	3	3	3	3	3	4	4	4	4	4
Total Core Customers	4,358	4,392	4,426	4,460	4,494	4,528	4,562	4,597	4,631	4,665

Huntington	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.39%	0.44%	0.88%	-0.20%	0.35%	0.31%	0.86%	-0.23%	0.33%
Residential Therms	51,818	51,962	52,103	52,532	52,385	52,525	52,663	53,089	52,935	53,067
Commercial Therms	28,319	28,486	28,696	28,979	28,960	29,100	29,218	29,499	29,466	29,606
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	80,137	80,448	80,799	81,511	81,344	81,625	81,882	82,588	82,402	82,673
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	1,243	1,248	1,253	1,257	1,262	1,266	1,270	1,274	1,278	1,282
Therms Per Residential Customer	408	408	408	410	408	408	408	410	408	408
Therms Per Commercial Customer	1,853	1,853	1,853	1,863	1,853	1,853	1,853	1,863	1,853	1,853
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	127	127	128	128	128	129	129	129	130	130
Commercial Customers	15	15	15	16	16	16	16	16	16	16
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	142	143	143	144	144	144	145	145	146	146

La Pine	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.42%	2.38%	2.69%	1.99%	2.30%	2.27%	2.58%	1.88%	2.19%
Residential Therms	122,993	125,617	128,293	131,017	133,792	136,617	139,491	142,417	145,391	148,412
Commercial Therms	352,493	361,389	370,299	380,972	388,377	397,582	406,836	418,017	425,583	435,055
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	475,486	487,006	498,592	511,989	522,168	534,199	546,327	560,435	570,974	583,467
Daily Baseload Therms	407	416	426	436	446	456	467	477	487	498
Peak Day Therms	5,622	5,758	5,894	6,033	6,173	6,314	6,458	6,602	6,748	6,896
Therms Per Residential Customer	579	579	579	579	579	579	579	579	579	579
Therms Per Commercial Customer	2,645	2,645	2,645	2,657	2,645	2,645	2,645	2,657	2,645	2,645
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	212	217	222	226	231	236	241	246	251	256
Commercial Customers	133	137	140	143	147	150	154	157	161	164
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	346	354	362	370	378	386	395	403	412	421

Madras	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.26%	1.24%	1.57%	0.71%	1.10%	1.08%	1.47%	0.59%	1.03%
Residential Therms	603,766	609,816	615,892	624,959	628,098	634,254	640,409	649,673	652,747	658,929
Commercial Therms	1,099,218	1,114,945	1,130,605	1,150,450	1,160,538	1,175,830	1,190,975	1,211,509	1,221,233	1,237,047
Industrial Therms	663,521	669,321	675,121	683,104	683,821	687,301	690,781	697,093	696,001	698,321
Ind., Inst., & Cmcl. Interrup. Therms	265,498	271,087	276,675	282,263	287,742	293,221	298,699	304,069	309,328	314,588
Total Core Therms	2,632,003	2,665,168	2,698,293	2,740,777	2,760,198	2,790,605	2,820,864	2,862,343	2,879,309	2,908,885
Daily Baseload Therms	1,221	1,239	1,256	1,272	1,289	1,305	1,321	1,338	1,354	1,370
Peak Day Therms	35,033	35,470	35,907	36,316	36,721	37,119	37,516	37,902	38,279	38,664
Therms Per Residential Customer	517	517	517	520	517	517	517	520	517	517
Therms Per Commercial Customer	2,887	2,887	2,887	2,900	2,887	2,887	2,887	2,900	2,887	2,887
Therms Per Industrial Customer	38,109	38,109	38,109	38,297	38,109	38,109	38,109	38,297	38,109	38,109
Residential Customers	1,167	1,178	1,190	1,202	1,214	1,226	1,238	1,249	1,261	1,273
Commercial Customers	381	386	392	397	402	407	413	418	423	428
Industrial Customers	17	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,566	1,583	1,601	1,618	1,635	1,652	1,669	1,687	1,704	1,721

Milton-Freewater	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.20%	1.16%	1.56%	0.62%	1.05%	1.02%	1.48%	0.55%	0.99%
Residential Therms	107,447	108,117	108,791	110,053	110,142	110,820	111,498	112,779	112,855	113,526
Commercial Therms	313,433	317,975	322,392	328,137	330,839	335,025	339,103	344,813	347,410	351,553
Industrial Therms	23,796	23,933	24,043	24,126	24,187	24,229	24,263	24,277	24,277	24,270
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	444,676	450,025	455,226	462,316	465,169	470,074	474,864	481,869	484,542	489,349
Daily Baseload Therms	439	444	450	455	460	465	470	475	480	485
Peak Day Therms	5,851	5,918	5,984	6,048	6,110	6,172	6,233	6,294	6,356	6,417
Therms Per Residential Customer	466	466	466	469	466	466	466	469	466	466
Therms Per Commercial Customer	3,056	3,056	3,056	3,070	3,056	3,056	3,056	3,070	3,056	3,056
Therms Per Industrial Customer	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072
Residential Customers	230	232	233	235	236	238	239	240	242	243
Commercial Customers	103	104	105	107	108	110	111	112	114	115
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	339	342	345	347	350	353	356	359	362	364

Mission Tap	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.29%	1.28%	1.71%	0.80%	1.27%	1.22%	1.68%	0.79%	1.21%
Residential Therms	106,649	107,314	107,983	109,163	109,324	109,998	110,671	111,867	112,017	112,684
Commercial Therms	365,693	371,145	376,617	383,706	387,506	393,122	398,573	405,934	409,874	415,512
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	472,342	478,459	484,601	492,869	496,830	503,119	509,244	517,801	521,892	528,195
Daily Baseload Therms	497	503	510	517	523	530	537	543	550	557
Peak Day Therms	5,661	5,733	5,806	5,878	5,951	6,025	6,098	6,172	6,247	6,322
Therms Per Residential Customer	495	495	495	497	495	495	495	497	495	495
Therms Per Commercial Customer	8,334	8,334	8,334	8,370	8,334	8,334	8,334	8,370	8,334	8,334
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	215	217	218	219	221	222	224	225	226	228
Commercial Customers	44	45	45	46	46	47	48	48	49	50
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	259	261	263	265	267	269	271	273	275	277

Nyssa-Ontario	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.39%	0.35%	0.72%	-0.14%	0.25%	0.24%	0.63%	-0.23%	0.17%
Residential Therms	1,877,756	1,881,998	1,886,239	1,900,373	1,894,476	1,898,472	1,902,406	1,916,378	1,909,967	1,913,532
Commercial Therms	2,329,238	2,339,294	2,347,772	2,367,142	2,361,270	2,366,727	2,372,363	2,389,218	2,381,313	2,384,834
Industrial Therms	161,995	161,987	161,919	161,695	161,488	161,234	160,920	160,574	160,152	159,699
Ind., Inst., & Cmcl. Interrup. Therms	920,999	927,311	933,112	938,045	942,722	946,709	950,441	953,738	956,269	958,621
Total Core Therms	5,289,988	5,310,590	5,329,042	5,367,255	5,359,957	5,373,142	5,386,129	5,419,908	5,407,701	5,416,686
Daily Baseload Therms	2,073	2,075	2,077	2,076	2,074	2,072	2,069	2,064	2,059	2,053
Peak Day Therms	70,838	71,124	71,382	71,614	71,825	72,017	72,206	72,379	72,529	72,667
Therms Per Residential Customer	518	518	518	521	518	518	518	521	518	518
Therms Per Commercial Customer	2,563	2,563	2,563	2,576	2,563	2,563	2,563	2,576	2,563	2,563
Therms Per Industrial Customer	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186
Residential Customers	3,624	3,632	3,640	3,648	3,656	3,664	3,672	3,679	3,686	3,693
Commercial Customers	909	913	916	919	921	924	926	928	929	931
Industrial Customers	20	20	20	20	20	20	20	20	20	20
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	4,555	4,567	4,578	4,589	4,599	4,609	4,619	4,628	4,637	4,645

Pendleton	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.16%	1.12%	1.34%	0.82%	1.05%	1.03%	1.27%	0.75%	0.98%
Residential Therms	1,722,797	1,733,540	1,744,350	1,755,181	1,766,013	1,776,889	1,787,764	1,798,662	1,809,516	1,820,281
Commercial Therms	1,917,855	1,948,380	1,978,557	2,017,893	2,038,162	2,068,158	2,097,699	2,137,650	2,157,667	2,187,630
Industrial Therms	191,587	192,694	193,578	195,328	194,740	195,072	195,348	196,551	195,459	195,404
Ind., Inst., & Cmcl. Interrup. Therms	669,558	679,269	688,608	698,403	706,360	714,793	723,032	731,857	738,790	746,338
Total Core Therms	4,501,797	4,553,882	4,605,093	4,666,805	4,705,275	4,754,912	4,803,843	4,864,721	4,901,431	4,949,653
Daily Baseload Therms	3,980	4,029	4,077	4,124	4,171	4,217	4,263	4,308	4,353	4,398
Peak Day Therms	79,960	80,793	81,616	82,426	83,231	84,032	84,823	85,613	86,399	87,177
Therms Per Residential Customer	352	352	352	352	352	352	352	352	352	352
Therms Per Commercial Customer	2,497	2,497	2,497	2,509	2,497	2,497	2,497	2,509	2,497	2,497
Therms Per Industrial Customer	31,415	31,415	31,415	31,591	31,415	31,415	31,415	31,591	31,415	31,415
Residential Customers	4,897	4,928	4,959	4,990	5,020	5,051	5,082	5,113	5,144	5,175
Commercial Customers	768	780	792	804	816	828	840	852	864	876
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	5,675	5,718	5,761	5,803	5,846	5,889	5,932	5,975	6,018	6,060

Prineville	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.03%	1.00%	1.43%	0.49%	0.94%	0.88%	1.32%	0.41%	0.83%
Residential Therms	1,173,836	1,181,138	1,188,385	1,201,454	1,202,880	1,210,072	1,217,209	1,230,253	1,231,320	1,238,292
Commercial Therms	1,374,583	1,393,469	1,412,145	1,437,918	1,449,423	1,467,975	1,485,656	1,510,051	1,520,592	1,537,715
Industrial Therms	522,942	529,496	535,889	543,225	547,211	552,901	558,090	565,166	568,771	573,761
Ind., Inst., & Cmcl. Interrup. Therms	132,838	133,122	133,263	133,918	133,122	132,980	132,555	132,921	131,846	131,279
Total Core Therms	3,204,199	3,237,225	3,269,682	3,316,515	3,332,634	3,363,928	3,393,510	3,438,392	3,452,528	3,481,047
Daily Baseload Therms	1,339	1,354	1,370	1,385	1,399	1,414	1,428	1,442	1,456	1,470
Peak Day Therms	43,889	44,335	44,772	45,205	45,620	46,041	46,440	46,839	47,234	47,618
Therms Per Residential Customer	500	500	500	502	500	500	500	502	500	500
Therms Per Commercial Customer	2,672	2,672	2,672	2,685	2,672	2,672	2,672	2,685	2,672	2,672
Therms Per Industrial Customer	17,698	17,698	17,698	17,747	17,698	17,698	17,698	17,747	17,698	17,698
Residential Customers	2,348	2,363	2,377	2,392	2,406	2,421	2,435	2,449	2,463	2,477
Commercial Customers	514	522	528	536	542	549	556	562	569	575
Industrial Customers	30	30	30	31	31	31	32	32	32	32
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	2,894	2,916	2,938	2,960	2,982	3,003	3,024	3,045	3,066	3,087

Redmond	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.23%	2.20%	2.63%	1.71%	2.14%	2.11%	2.55%	1.62%	2.05%
Residential Therms	4,218,227	4,308,244	4,400,005	4,514,262	4,588,595	4,685,493	4,784,066	4,907,062	4,986,418	5,090,036
Commercial Therms	3,135,674	3,217,536	3,299,540	3,398,042	3,466,234	3,551,237	3,636,771	3,740,398	3,810,266	3,898,011
Industrial Therms	510,454	517,515	524,181	532,179	536,468	542,230	547,669	554,802	558,047	562,963
Ind., Inst., & Cmcl. Interrup. Therms	241,479	243,630	245,543	247,176	248,650	249,925	251,001	251,997	252,834	253,591
Total Core Therms	8,105,834	8,286,925	8,469,269	8,691,659	8,839,947	9,028,886	9,219,507	9,454,259	9,607,566	9,804,600
Daily Baseload Therms	4,788	4,885	4,982	5,078	5,175	5,273	5,371	5,469	5,568	5,668
Peak Day Therms	104,715	107,091	109,488	111,914	114,372	116,866	119,386	121,939	124,521	127,131
Therms Per Residential Customer	612	612	612	615	612	612	612	615	612	612
Therms Per Commercial Customer	2,636	2,636	2,636	2,648	2,636	2,636	2,636	2,648	2,636	2,636
Therms Per Industrial Customer	38,749	38,749	38,749	38,877	38,749	38,749	38,749	38,877	38,749	38,749
Residential Customers	6,888	7,035	7,185	7,338	7,493	7,651	7,812	7,976	8,143	8,312
Commercial Customers	1,189	1,221	1,252	1,283	1,315	1,347	1,380	1,412	1,445	1,479
Industrial Customers	13	13	14	14	14	14	14	14	14	15
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	8,092	8,270	8,451	8,635	8,823	9,013	9,207	9,404	9,603	9,806

Stanfield	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.88%	0.86%	0.99%	0.67%	0.82%	0.79%	0.96%	0.63%	0.77%
Residential Therms	123,909	124,682	125,459	126,238	127,017	127,800	128,582	129,366	130,146	130,921
Commercial Therms	69,235	70,158	71,060	72,236	72,779	73,637	74,454	75,619	76,124	76,941
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	193,144	194,840	196,519	198,475	199,797	201,437	203,036	204,984	206,270	207,862
Daily Baseload Therms	248	250	252	254	256	258	260	262	264	266
Peak Day Therms	2,966	2,991	3,015	3,040	3,064	3,088	3,112	3,136	3,159	3,183
Therms Per Residential Customer	400	400	400	400	400	400	400	400	400	400
Therms Per Commercial Customer	1,937	1,937	1,937	1,945	1,937	1,937	1,937	1,945	1,937	1,937
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	310	312	314	316	318	320	322	324	326	328
Commercial Customers	36	36	37	37	38	38	38	39	39	40
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	346	348	351	353	355	358	360	363	365	367

Stearns (Sunriver)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.21%	2.20%	2.63%	1.73%	2.16%	2.14%	2.58%	1.68%	2.10%
Residential Therms	3,515,350	3,590,368	3,666,839	3,761,896	3,824,004	3,904,756	3,986,904	4,089,230	4,155,539	4,241,890
Commercial Therms	1,127,207	1,155,140	1,183,150	1,215,759	1,239,957	1,268,923	1,297,982	1,332,107	1,356,896	1,386,580
Industrial Therms	18,156	18,379	18,592	18,793	18,987	19,174	19,351	19,526	19,695	19,861
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	4,660,713	4,763,886	4,868,580	4,996,448	5,082,947	5,192,853	5,304,236	5,440,864	5,532,130	5,648,331
Daily Baseload Therms	3,843	3,931	4,020	4,111	4,203	4,296	4,390	4,486	4,583	4,680
Peak Day Therms	54,090	55,272	56,473	57,694	58,935	60,198	61,480	62,783	64,106	65,446
Therms Per Residential Customer	957	957	957	962	957	957	957	962	957	957
Therms Per Commercial Customer	4,833	4,833	4,833	4,850	4,833	4,833	4,833	4,850	4,833	4,833
Therms Per Industrial Customer	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886
Residential Customers	3,672	3,751	3,831	3,912	3,995	4,079	4,165	4,252	4,341	4,431
Commercial Customers	233	239	245	251	257	263	269	275	281	287
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,909	3,993	4,079	4,166	4,255	4,345	4,437	4,530	4,625	4,722

Pronghorn	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.30%	2.28%	2.66%	1.85%	2.23%	2.21%	2.59%	1.78%	2.15%
Residential Therms	308,026	314,599	321,300	329,454	335,071	342,147	349,345	358,121	364,121	371,688
Commercial Therms	216,393	221,904	227,435	233,890	238,681	244,420	250,189	256,969	261,895	267,805
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	524,419	536,504	548,735	563,345	573,752	586,567	599,535	615,091	626,016	639,493
Daily Baseload Therms	703	720	736	753	770	788	805	823	841	859
Peak Day Therms	5,028	5,143	5,259	5,377	5,497	5,618	5,741	5,867	5,993	6,122
Therms Per Residential Customer	1,503	1,503	1,503	1,509	1,503	1,503	1,503	1,509	1,503	1,503
Therms Per Commercial Customer	8,544	8,544	8,544	8,576	8,544	8,544	8,544	8,576	8,544	8,544
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	205	209	214	218	223	228	233	237	242	247
Commercial Customers	25	26	27	27	28	29	29	30	31	31
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	230	235	240	246	251	256	262	267	273	279

Bend Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.27%	2.24%	2.67%	1.76%	2.19%	2.17%	2.61%	1.69%	2.12%
Residential Therms	21,994,964	22,464,337	22,942,802	23,535,277	23,926,159	24,431,414	24,945,397	25,583,157	26,000,517	26,540,806
Commercial Therms	11,871,170	12,177,392	12,483,173	12,847,178	13,102,804	13,417,807	13,734,239	14,114,497	14,374,196	14,696,955
Industrial Therms	312,300	315,663	318,751	321,522	324,109	326,487	328,649	330,741	332,664	334,512
Ind., Inst., & Cmcl. Interrup. Therms	338,208	343,477	348,602	354,713	358,562	363,451	368,262	374,296	377,928	382,798
Total Core Therms	34,516,642	35,300,869	36,093,328	37,058,689	37,711,634	38,539,159	39,376,547	40,402,691	41,085,305	41,955,071
Daily Baseload Therms	22,767	23,287	23,812	24,343	24,881	25,426	25,978	26,537	27,102	27,673
Peak Day Therms	424,373	433,993	443,719	453,581	463,590	473,754	484,043	494,481	505,046	515,741
Therms Per Residential Customer	779	779	779	782	779	779	779	782	779	779
Therms Per Commercial Customer	2,795	2,795	2,795	2,808	2,795	2,795	2,795	2,808	2,795	2,795
Therms Per Industrial Customer	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391
Residential Customers	28,242	28,845	29,459	30,084	30,722	31,370	32,030	32,702	33,385	34,079
Commercial Customers	4,247	4,356	4,465	4,576	4,687	4,800	4,913	5,027	5,142	5,257
Industrial Customers	15	15	16	16	16	16	16	16	16	16
Interruptible Customers	3	3	3	3	3	4	4	4	4	4
Total Core Customers	32,507	33,219	33,943	34,679	35,428	36,190	36,963	37,749	38,547	39,356

McCleary (Aberdeen/Hoquiam)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.78%	0.75%	1.16%	0.28%	0.69%	0.68%	1.10%	0.22%	0.64%
Residential Therms	2,547,649	2,560,520	2,573,463	2,598,342	2,599,348	2,612,290	2,625,233	2,650,315	2,650,940	2,663,634
Commercial Therms	2,483,541	2,507,487	2,530,873	2,564,686	2,575,887	2,597,916	2,619,919	2,653,446	2,663,454	2,685,526
Industrial Therms	226,864	227,240	227,349	228,199	226,994	226,624	226,074	226,400	224,733	223,867
Ind., Inst., & Cmcl. Interrup. Therms	947,488	958,460	969,038	982,349	989,177	998,750	1,008,038	1,020,170	1,025,425	1,033,628
Total Core Therms	6,205,541	6,253,707	6,300,723	6,373,576	6,391,406	6,435,580	6,479,264	6,550,330	6,564,552	6,606,655
Daily Baseload Therms	6,064	6,117	6,168	6,217	6,266	6,313	6,359	6,404	6,447	6,491
Peak Day Therms	55,249	55,649	56,040	56,423	56,798	57,168	57,536	57,901	58,257	58,615
Therms Per Residential Customer	724	724	724	727	724	724	724	727	724	724
Therms Per Commercial Customer	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298
Therms Per Industrial Customer	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180
Residential Customers	3,521	3,539	3,557	3,575	3,592	3,610	3,628	3,646	3,664	3,681
Commercial Customers	753	760	767	774	781	788	794	801	808	814
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,292	4,317	4,342	4,367	4,391	4,416	4,441	4,465	4,489	4,513

Acme	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.46%	1.43%	1.90%	0.92%	1.38%	1.37%	1.84%	0.86%	1.33%
Residential Therms	51,087	51,765	52,451	53,395	53,846	54,555	55,272	56,261	56,728	57,464
Commercial Therms	36,142	36,735	37,319	38,076	38,466	39,034	39,598	40,353	40,721	41,279
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	87,230	88,500	89,770	91,471	92,312	93,590	94,870	96,614	97,449	98,743
Daily Baseload Therms	35	35	36	36	37	37	38	38	39	39
Peak Day Therms	987	1,001	1,016	1,030	1,044	1,059	1,073	1,088	1,103	1,117
Therms Per Residential Customer	754	754	754	757	754	754	754	757	754	754
Therms Per Commercial Customer	3,878	3,878	3,878	3,897	3,878	3,878	3,878	3,897	3,878	3,878
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	68	69	70	70	71	72	73	74	75	76
Commercial Customers	9	9	10	10	10	10	10	10	10	11
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	77	78	79	80	81	82	84	85	86	87

Arlington	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.33%	1.29%	1.66%	0.83%	1.22%	1.20%	1.59%	0.76%	1.15%
Residential Therms	3,482,640	3,526,580	3,571,051	3,630,741	3,661,425	3,707,332	3,753,681	3,816,001	3,847,678	3,895,163
Commercial Therms	1,947,610	1,976,452	2,003,984	2,038,423	2,056,274	2,081,526	2,106,216	2,138,906	2,154,657	2,178,464
Industrial Therms	331,375	334,987	338,249	342,488	343,983	346,523	348,830	352,239	352,911	354,720
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	5,761,625	5,838,020	5,913,285	6,011,652	6,061,682	6,135,381	6,208,726	6,307,146	6,355,246	6,428,347
Daily Baseload Therms	6,728	6,818	6,906	6,992	7,079	7,164	7,249	7,334	7,419	7,504
Peak Day Therms	54,597	55,320	56,033	56,738	57,438	58,137	58,832	59,527	60,222	60,915
Therms Per Residential Customer	731	731	731	734	731	731	731	734	731	731
Therms Per Commercial Customer	3,389	3,389	3,389	3,402	3,389	3,389	3,389	3,402	3,389	3,389
Therms Per Industrial Customer	11,772	11,772	11,772	11,816	11,772	11,772	11,772	11,816	11,772	11,772
Residential Customers	4,765	4,825	4,886	4,948	5,010	5,073	5,136	5,200	5,265	5,330
Commercial Customers	575	583	591	599	607	614	622	629	636	643
Industrial Customers	28	28	29	29	29	29	30	30	30	30
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	5,368	5,437	5,506	5,576	5,646	5,716	5,787	5,859	5,931	6,003

Bremerton (Shelton)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.36%	1.34%	1.75%	0.89%	1.30%	1.29%	1.70%	0.85%	1.26%
Residential Therms	21,512,255	21,758,972	22,008,147	22,360,602	22,513,654	22,769,826	23,028,188	23,394,170	23,550,735	23,813,957
Commercial Therms	10,987,997	11,173,344	11,354,997	11,584,777	11,714,702	11,894,013	12,074,885	12,306,194	12,436,802	12,618,818
Industrial Therms	307,110	311,279	315,346	319,116	322,776	326,348	329,780	333,145	336,480	339,740
Ind., Inst., & Cmcl. Interrup. Therms	2,443,298	2,487,380	2,531,407	2,579,161	2,619,247	2,663,460	2,707,229	2,755,102	2,794,932	2,838,202
Total Core Therms	35,250,659	35,730,974	36,209,898	36,843,656	37,170,379	37,653,648	38,140,081	38,788,611	39,118,949	39,610,717
Daily Baseload Therms	27,126	27,519	27,910	28,303	28,694	29,088	29,484	29,881	30,281	30,681
Peak Day Therms	351,685	356,425	361,157	365,905	370,650	375,428	380,238	385,059	389,918	394,780
Therms Per Residential Customer	675	675	675	678	675	675	675	678	675	675
Therms Per Commercial Customer	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	31,877	32,242	32,612	32,984	33,361	33,740	34,123	34,509	34,897	35,287
Commercial Customers	3,038	3,089	3,140	3,190	3,239	3,289	3,339	3,388	3,439	3,489
Industrial Customers	16	16	17	17	17	17	17	17	18	18
Interruptible Customers	10	10	11	11	11	11	11	12	12	12
Total Core Customers	34,941	35,359	35,778	36,202	36,628	37,057	37,490	37,927	38,366	38,806

Castle Rock	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.33%	1.28%	1.51%	0.93%	1.18%	1.17%	1.41%	0.86%	1.13%
Residential Therms	31,216	31,452	31,689	31,925	32,162	32,399	32,635	32,871	33,106	33,339
Commercial Therms	126,419	128,272	130,085	132,299	133,583	135,302	137,021	139,184	140,430	142,157
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	157,635	159,724	161,774	164,224	165,745	167,700	169,657	172,055	173,536	175,496
Daily Baseload Therms	178	181	183	186	188	190	193	195	197	200
Peak Day Therms	1,551	1,570	1,590	1,609	1,627	1,645	1,664	1,682	1,700	1,719
Therms Per Residential Customer	472	472	472	472	472	472	472	472	472	472
Therms Per Commercial Customer	2,506	2,506	2,506	2,514	2,506	2,506	2,506	2,514	2,506	2,506
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	66	67	67	68	68	69	69	70	70	71
Commercial Customers	50	51	52	53	53	54	55	55	56	57
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	117	118	119	120	121	123	124	125	126	127

Walla Walla	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.03%	1.01%	1.46%	0.50%	0.95%	0.93%	1.39%	0.42%	0.88%
Residential Therms	6,537,816	6,578,585	6,619,460	6,693,433	6,700,996	6,741,550	6,781,996	6,856,238	6,862,352	6,901,833
Commercial Therms	4,317,845	4,374,478	4,430,060	4,505,094	4,537,505	4,590,623	4,642,846	4,716,975	4,746,019	4,797,165
Industrial Therms	85,026	85,780	86,451	87,020	87,550	87,995	88,378	88,715	89,009	89,280
Ind., Inst., & Cmcl. Interrup. Therms	1,734,487	1,766,863	1,798,944	1,837,993	1,862,512	1,893,622	1,924,437	1,961,908	1,984,254	2,013,664
Total Core Therms	12,675,175	12,805,705	12,934,914	13,123,541	13,188,564	13,313,790	13,437,657	13,623,836	13,681,635	13,801,942
Daily Baseload Therms	11,889	12,027	12,163	12,298	12,430	12,561	12,690	12,818	12,943	13,068
Peak Day Therms	173,889	175,581	177,256	178,906	180,542	182,166	183,772	185,365	186,940	188,502
Therms Per Residential Customer	598	598	598	601	598	598	598	601	598	598
Therms Per Commercial Customer	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	10,932	11,000	11,069	11,137	11,205	11,273	11,340	11,408	11,475	11,541
Commercial Customers	1,305	1,322	1,339	1,355	1,372	1,388	1,403	1,419	1,435	1,450
Industrial Customers	15	15	16	16	16	16	16	16	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	12,256	12,341	12,426	12,511	12,595	12,679	12,763	12,846	12,929	13,010

Deming	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.74%	2.72%	3.20%	2.27%	2.73%	2.72%	3.19%	2.22%	2.69%
Residential Therms	13,532	13,711	13,893	14,144	14,263	14,450	14,640	14,904	15,026	15,221
Commercial Therms	71,492	73,128	74,799	76,810	78,237	80,015	81,829	84,022	85,573	87,496
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	72,407	74,914	77,455	80,502	82,851	85,670	88,560	92,013	94,582	97,715
Total Core Therms	157,432	161,753	166,147	171,456	175,350	180,136	185,029	190,939	195,181	200,432
Daily Baseload Therms	101	103	106	108	111	113	116	119	121	124
Peak Day Therms	1,685	1,732	1,781	1,831	1,883	1,936	1,990	2,046	2,102	2,161
Therms Per Residential Customer	527	527	527	530	527	527	527	530	527	527
Therms Per Commercial Customer	5,690	5,690	5,690	5,713	5,690	5,690	5,690	5,713	5,690	5,690
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	26	26	26	27	27	27	28	28	29	29
Commercial Customers	13	13	13	13	14	14	14	15	15	15
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	39	40	41	41	42	43	43	44	45	46

Wenatchee	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.53%	1.47%	1.83%	1.01%	1.38%	1.36%	1.73%	0.94%	1.31%
Residential Therms	628,951	636,156	643,430	653,776	658,164	665,629	673,153	683,877	688,349	696,001
Commercial Therms	3,477,923	3,534,935	3,590,475	3,661,304	3,699,660	3,753,746	3,808,251	3,878,950	3,917,031	3,971,686
Industrial Therms	341,247	345,303	349,276	353,035	356,759	360,383	363,905	367,355	370,744	374,068
Ind., Inst., & Cmcl. Interrup. Therms	221,101	224,188	227,167	230,085	232,940	235,796	238,652	241,492	244,363	247,218
Total Core Therms	4,669,222	4,740,582	4,810,348	4,898,199	4,947,523	5,015,554	5,083,960	5,171,674	5,220,487	5,288,973
Daily Baseload Therms	4,528	4,598	4,667	4,734	4,801	4,867	4,934	5,000	5,067	5,134
Peak Day Therms	48,334	49,065	49,780	50,489	51,185	51,882	52,582	53,278	53,979	54,680
Therms Per Residential Customer	443	443	443	445	443	443	443	445	443	443
Therms Per Commercial Customer	4,889	4,889	4,889	4,910	4,889	4,889	4,889	4,910	4,889	4,889
Therms Per Industrial Customer	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936
Residential Customers	1,419	1,436	1,452	1,469	1,485	1,502	1,519	1,536	1,553	1,571
Commercial Customers	711	723	734	746	757	768	779	790	801	812
Industrial Customers	15	15	15	15	16	16	16	16	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	2,149	2,177	2,205	2,233	2,261	2,289	2,317	2,346	2,374	2,403

Finley	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.12%	2.05%	2.53%	1.42%	1.92%	1.88%	2.39%	1.28%	1.78%
Residential Therms	13,905	14,147	14,394	14,719	14,896	15,153	15,414	15,759	15,944	16,214
Commercial Therms	86,400	88,280	90,133	92,456	93,802	95,632	97,456	99,806	101,094	102,911
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	100,305	102,427	104,526	107,175	108,698	110,785	112,870	115,564	117,039	119,125
Daily Baseload Therms	39	40	41	41	42	43	44	45	45	46
Peak Day Therms	1,713	1,750	1,786	1,821	1,857	1,893	1,928	1,964	2,000	2,035
Therms Per Residential Customer	520	520	520	523	520	520	520	523	520	520
Therms Per Commercial Customer	6,295	6,295	6,295	6,328	6,295	6,295	6,295	6,328	6,295	6,295
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	27	27	28	28	29	29	30	30	31	31
Commercial Customers	14	14	14	15	15	15	15	16	16	16
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	40	41	42	43	44	44	45	46	47	48

Grandview	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.95%	0.91%	0.87%	0.84%	0.82%	0.80%	0.78%	0.76%	0.74%
Residential Therms	688,158	692,669	697,189	701,700	706,206	710,707	715,191	719,664	724,099	728,496
Commercial Therms	813,119	824,202	835,001	845,613	856,047	866,425	876,770	887,121	897,447	907,733
Industrial Therms	706,283	711,689	716,622	721,116	725,281	729,056	732,562	735,788	738,810	741,630
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	2,207,560	2,228,560	2,248,812	2,268,430	2,287,534	2,306,188	2,324,523	2,342,572	2,360,356	2,377,859
Daily Baseload Therms	1,522	1,535	1,547	1,559	1,571	1,581	1,592	1,602	1,612	1,621
Peak Day Therms	26,093	26,353	26,607	26,856	27,100	27,342	27,582	27,820	28,056	28,290
Therms Per Residential Customer	714	714	714	714	714	714	714	714	714	714
Therms Per Commercial Customer	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234
Therms Per Industrial Customer	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682
Residential Customers	964	970	976	982	989	995	1,001	1,008	1,014	1,020
Commercial Customers	192	195	197	200	202	205	207	210	212	214
Industrial Customers	8	8	8	8	8	8	8	8	9	9
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	1,164	1,173	1,182	1,191	1,199	1,208	1,217	1,226	1,234	1,243

Zillah (Toppenish)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.07%	1.03%	1.41%	0.56%	0.95%	0.93%	1.33%	0.49%	0.89%
Residential Therms	1,039,227	1,046,040	1,052,865	1,064,919	1,066,483	1,073,279	1,080,051	1,092,181	1,093,504	1,100,144
Commercial Therms	2,019,281	2,046,871	2,073,849	2,110,063	2,126,569	2,152,600	2,178,547	2,214,614	2,230,314	2,256,052
Industrial Therms	426,169	429,133	431,728	433,970	435,950	437,644	439,129	440,431	441,589	442,605
Ind., Inst., & Cmcl. Interrup. Therms	49,137	49,621	50,098	50,572	51,040	51,501	51,959	52,407	52,849	53,286
Total Core Therms	3,533,815	3,571,666	3,608,540	3,659,524	3,680,042	3,715,025	3,749,687	3,799,633	3,818,255	3,852,086
Daily Baseload Therms	3,034	3,064	3,093	3,121	3,147	3,173	3,198	3,222	3,246	3,269
Peak Day Therms	42,083	42,524	42,953	43,372	43,782	44,186	44,586	44,983	45,376	45,765
Therms Per Residential Customer	538	538	538	541	538	538	538	541	538	538
Therms Per Commercial Customer	3,861	3,861	3,861	3,879	3,861	3,861	3,861	3,879	3,861	3,861
Therms Per Industrial Customer	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025
Residential Customers	1,931	1,944	1,956	1,969	1,982	1,994	2,007	2,019	2,032	2,044
Commercial Customers	523	530	537	544	551	558	564	571	578	584
Industrial Customers	22	23	23	23	23	23	23	23	23	23
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,477	2,497	2,517	2,537	2,556	2,576	2,595	2,615	2,634	2,653

Kalama #2	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.53%	0.46%	0.53%	0.21%	0.30%	0.27%	0.37%	0.08%	0.20%
Residential Therms	200,890	202,408	203,930	205,454	206,978	208,500	210,022	211,542	213,052	214,553
Commercial Therms	187,576	189,027	190,310	192,297	192,498	193,449	194,342	196,011	195,961	196,753
Industrial Therms	231,950	232,289	232,322	232,153	231,747	231,172	230,461	229,616	228,634	227,619
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	620,416	623,724	626,563	629,905	631,223	633,121	634,825	637,169	637,647	638,925
Daily Baseload Therms	1,097	1,101	1,104	1,107	1,108	1,109	1,110	1,110	1,109	1,109
Peak Day Therms	5,563	5,596	5,625	5,652	5,676	5,698	5,719	5,738	5,756	5,774
Therms Per Residential Customer	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169
Therms Per Commercial Customer	3,961	3,961	3,961	3,978	3,961	3,961	3,961	3,978	3,961	3,961
Therms Per Industrial Customer	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719
Residential Customers	172	173	174	176	177	178	180	181	182	184
Commercial Customers	47	48	48	48	49	49	49	49	49	50
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	222	224	226	227	229	230	232	233	235	236

Lawrence	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.44%	1.43%	1.88%	0.92%	1.39%	1.37%	1.84%	0.88%	1.34%
Residential Therms	44,508	45,098	45,696	46,512	46,911	47,529	48,154	49,009	49,422	50,063
Commercial Therms	20,872	21,228	21,580	22,037	22,271	22,616	22,959	23,421	23,649	23,994
Industrial Therms	692	700	707	714	720	727	732	738	744	750
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	66,072	67,026	67,983	69,262	69,903	70,871	71,845	73,168	73,815	74,807
Daily Baseload Therms	32	32	33	33	33	34	34	35	35	36
Peak Day Therms	748	759	770	781	792	803	814	825	837	848
Therms Per Residential Customer	720	720	720	724	720	720	720	724	720	720
Therms Per Commercial Customer	1,189	1,189	1,189	1,195	1,189	1,189	1,189	1,195	1,189	1,189
Therms Per Industrial Customer	671	671	671	671	671	671	671	671	671	671
Residential Customers	62	63	63	64	65	66	67	68	69	69
Commercial Customers	18	18	18	18	19	19	19	20	20	20
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	80	81	83	84	85	86	87	88	90	91

Moxee (Beauchene)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.05%	1.01%	1.06%	0.85%	0.93%	0.90%	0.98%	0.79%	0.86%
Residential Therms	331,488	333,720	335,967	339,625	340,493	342,773	345,062	348,812	349,660	351,958
Commercial Therms	595,106	602,166	609,020	615,726	622,361	629,047	635,635	642,289	648,860	655,459
Industrial Therms	286,675	289,575	292,356	295,010	297,587	300,093	302,506	304,878	307,212	309,498
Ind., Inst., & Cmcl. Interrup. Therms	317,187	321,129	324,850	328,366	331,758	335,056	338,220	341,347	344,447	347,480
Total Core Therms	1,530,457	1,546,590	1,562,193	1,578,727	1,592,198	1,606,969	1,621,424	1,637,325	1,650,179	1,664,395
Daily Baseload Therms	683	693	703	712	722	731	741	750	759	768
Peak Day Therms	14,092	14,301	14,502	14,698	14,889	15,080	15,266	15,452	15,637	15,820
Therms Per Residential Customer	200	199	199	200	198	198	198	198	197	196
Therms Per Commercial Customer	1,421	1,414	1,408	1,401	1,395	1,390	1,384	1,378	1,373	1,368
Therms Per Industrial Customer	19,471	19,386	19,307	19,233	19,164	19,098	19,035	18,976	18,918	18,863
Residential Customers	1,658	1,673	1,688	1,702	1,717	1,732	1,747	1,762	1,777	1,792
Commercial Customers	419	426	433	439	446	453	459	466	473	479
Industrial Customers	15	15	15	15	16	16	16	16	16	16
Interruptible Customers	5	5	5	5	5	5	5	5	5	6
Total Core Customers	2,097	2,119	2,140	2,162	2,184	2,206	2,228	2,249	2,271	2,293

Othello	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.77%	0.75%	0.88%	0.51%	0.67%	0.64%	0.80%	0.45%	0.62%
Residential Therms	615,412	618,782	622,183	628,726	628,955	632,356	635,726	642,308	642,437	645,776
Commercial Therms	718,135	724,082	729,740	735,010	740,222	745,190	749,890	754,478	759,134	763,902
Industrial Therms	192,391	194,083	195,658	196,988	198,275	199,489	200,559	201,484	202,453	203,277
Ind., Inst., & Cmcl. Interrup. Therms	215,337	217,719	220,219	222,545	224,981	227,423	229,797	232,176	234,667	237,089
Total Core Therms	1,741,274	1,754,667	1,767,800	1,783,269	1,792,433	1,804,458	1,815,972	1,830,446	1,838,690	1,850,044
Daily Baseload Therms	2,577	2,598	2,618	2,637	2,655	2,673	2,689	2,704	2,720	2,735
Peak Day Therms	21,754	21,928	22,099	22,260	22,422	22,580	22,731	22,881	23,032	23,184
Therms Per Residential Customer	563	562	562	565	562	562	562	565	562	562
Therms Per Commercial Customer	2,537	2,536	2,534	2,533	2,533	2,532	2,531	2,530	2,529	2,528
Therms Per Industrial Customer	17,136	17,133	17,130	17,128	17,125	17,123	17,121	17,120	17,118	17,117
Residential Customers	1,094	1,100	1,106	1,113	1,119	1,125	1,131	1,137	1,143	1,150
Commercial Customers	283	286	288	290	292	294	296	298	300	302
Industrial Customers	11	11	11	12	12	12	12	12	12	12
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	1,391	1,400	1,409	1,417	1,426	1,434	1,442	1,450	1,459	1,467

North Pasco	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.71%	1.68%	1.99%	1.32%	1.63%	1.62%	1.94%	1.27%	1.58%
Residential Therms	2,560,572	2,603,248	2,646,534	2,705,057	2,734,884	2,779,948	2,825,567	2,887,437	2,918,526	2,965,728
Commercial Therms	1,482,386	1,508,925	1,535,090	1,560,942	1,587,038	1,612,956	1,639,013	1,665,074	1,691,458	1,717,635
Industrial Therms	78,766	79,668	80,505	81,317	82,087	82,824	83,519	84,202	84,853	85,494
Ind., Inst., & Cmcl. Interrup. Therms	153,340	156,250	159,125	161,978	164,828	167,718	170,623	173,572	176,550	179,548
Total Core Therms	4,275,065	4,348,091	4,421,254	4,509,293	4,568,838	4,643,446	4,718,722	4,810,285	4,871,387	4,948,405
Daily Baseload Therms	2,156	2,192	2,228	2,264	2,300	2,337	2,374	2,411	2,448	2,485
Peak Day Therms	67,732	68,894	70,058	71,225	72,405	73,592	74,790	75,998	77,219	78,444
Therms Per Residential Customer	1,316	1,316	1,316	1,323	1,316	1,316	1,316	1,323	1,316	1,316
Therms Per Commercial Customer	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178
Therms Per Industrial Customer	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394
Residential Customers	1,945	1,978	2,011	2,044	2,078	2,112	2,147	2,182	2,217	2,253
Commercial Customers	207	210	214	217	221	225	228	232	236	239
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,155	2,191	2,228	2,265	2,302	2,340	2,378	2,417	2,456	2,496

Patterson	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.77%	0.74%	0.74%	0.71%	0.69%	0.69%	0.67%	0.66%	0.64%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	8,736	8,805	8,870	8,932	8,992	9,048	9,102	9,155	9,205	9,253
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	206,442	208,021	209,566	211,111	212,623	214,101	215,579	217,023	218,468	219,879
Total Core Therms	215,178	216,826	218,436	220,044	221,615	223,149	224,681	226,178	227,673	229,132
Daily Baseload Therms	262	264	267	269	271	274	276	278	281	283
Peak Day Therms	2,489	2,513	2,536	2,560	2,582	2,604	2,626	2,648	2,669	2,690
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	2,702	2,699	2,696	2,693	2,690	2,687	2,685	2,683	2,681	2,678
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	3	3	3	3	3	3	3	3	3	3
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4	4	4	4	4	4	4	4	5	5

Prosser	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.59%	1.55%	1.99%	1.01%	1.46%	1.44%	1.90%	0.94%	1.40%
Residential Therms	238,134	242,284	246,498	252,031	255,109	259,508	263,966	269,831	273,058	277,682
Commercial Therms	441,141	449,469	457,726	468,132	474,212	482,503	490,881	501,647	507,873	516,500
Industrial Therms	161,292	162,220	162,982	164,298	164,043	164,374	164,606	165,463	164,805	164,772
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	840,567	853,973	867,207	884,461	893,363	906,385	919,453	936,941	945,736	958,954
Daily Baseload Therms	502	510	517	524	531	538	545	552	559	567
Peak Day Therms	9,334	9,484	9,633	9,781	9,928	10,076	10,224	10,372	10,522	10,672
Therms Per Residential Customer	516	516	516	519	516	516	516	519	516	516
Therms Per Commercial Customer	3,110	3,110	3,110	3,124	3,110	3,110	3,110	3,124	3,110	3,110
Therms Per Industrial Customer	31,722	31,722	31,722	31,861	31,722	31,722	31,722	31,861	31,722	31,722
Residential Customers	461	469	477	486	494	503	511	520	529	538
Commercial Customers	142	145	147	150	153	155	158	161	163	166
Industrial Customers	5	5	5	5	5	5	5	5	5	5
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	608	619	630	641	652	663	674	686	697	709

Quincy	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.47%	1.41%	1.35%	1.31%	1.29%	1.25%	1.23%	1.21%	1.19%
Residential Therms	40,487	41,077	41,674	42,279	42,892	43,512	44,139	44,774	45,414	46,060
Commercial Therms	467,582	475,201	482,642	489,956	497,199	504,488	511,697	518,981	526,189	533,426
Industrial Therms	202,426	205,189	207,863	210,449	212,976	215,445	217,825	220,176	222,468	224,731
Ind., Inst., & Cmcl. Interrup. Therms	110,699	111,775	112,792	113,689	114,526	115,304	116,081	116,799	117,576	118,234
Total Core Therms	821,194	833,242	844,971	856,373	867,593	878,748	889,742	900,729	911,647	922,451
Daily Baseload Therms	910	923	936	949	961	974	986	998	1,010	1,022
Peak Day Therms	9,574	9,716	9,854	9,989	10,122	10,253	10,384	10,514	10,643	10,771
Therms Per Residential Customer	659	659	659	659	659	659	659	659	659	659
Therms Per Commercial Customer	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167
Therms Per Industrial Customer	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756
Residential Customers	61	62	63	64	65	66	67	68	69	70
Commercial Customers	65	66	67	68	69	70	71	72	73	74
Industrial Customers	6	6	6	6	7	7	7	7	7	7
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	134	136	138	140	142	144	146	148	150	152

Sunnyside	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.00%	0.95%	1.30%	0.49%	0.86%	0.84%	1.21%	0.41%	0.79%
Residential Therms	1,048,278	1,055,151	1,062,035	1,074,143	1,075,772	1,082,627	1,089,458	1,101,641	1,103,028	1,109,726
Commercial Therms	1,509,100	1,528,423	1,547,083	1,572,335	1,582,958	1,600,479	1,617,856	1,642,611	1,652,432	1,669,567
Industrial Therms	562,108	566,287	570,009	573,290	576,272	578,879	581,167	583,164	584,933	586,461
Ind., Inst., & Cmcl. Interrup. Therms	158,052	160,385	162,673	165,643	167,159	169,397	171,640	174,664	176,186	178,479
Total Core Therms	3,277,539	3,310,246	3,341,800	3,385,410	3,402,161	3,431,382	3,460,120	3,502,080	3,516,579	3,544,232
Daily Baseload Therms	2,967	2,996	3,023	3,048	3,073	3,096	3,119	3,141	3,162	3,182
Peak Day Therms	35,949	36,307	36,653	36,989	37,318	37,642	37,961	38,278	38,590	38,900
Therms Per Residential Customer	562	562	562	565	562	562	562	565	562	562
Therms Per Commercial Customer	2,840	2,840	2,840	2,853	2,840	2,840	2,840	2,853	2,840	2,840
Therms Per Industrial Customer	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468
Residential Customers	1,864	1,876	1,888	1,901	1,913	1,925	1,937	1,949	1,961	1,973
Commercial Customers	531	538	545	551	557	563	570	576	582	588
Industrial Customers	16	16	17	17	17	17	17	17	17	17
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	2,414	2,433	2,452	2,471	2,489	2,508	2,526	2,544	2,562	2,580

Moses Lake	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.44%	1.36%	1.67%	0.81%	1.16%	1.10%	1.47%	0.64%	1.00%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	92,318	93,566	94,785	95,972	97,144	98,295	99,404	100,498	101,560	102,596
Industrial Therms	2,886,654	2,928,220	2,967,983	3,018,071	3,042,099	3,077,307	3,111,186	3,157,196	3,176,951	3,208,553
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	2,978,971	3,021,785	3,062,767	3,114,042	3,139,243	3,175,602	3,210,590	3,257,694	3,278,511	3,311,149
Daily Baseload Therms	3,064	3,108	3,151	3,191	3,229	3,267	3,303	3,338	3,372	3,406
Peak Day Therms	28,527	28,936	29,327	29,699	30,060	30,408	30,743	31,071	31,394	31,707
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929
Therms Per Industrial Customer	399,066	399,066	399,066	400,714	399,066	399,066	399,066	400,714	399,066	399,066
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	5	5	5	5	5	5	6	6	6	6
Industrial Customers	7	7	7	8	8	8	8	8	8	8
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	12	13	13	13	13	13	13	13	14	14

Woodland	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.78%	1.72%	1.76%	1.54%	1.61%	1.59%	1.66%	1.47%	1.55%
Residential Therms	372,676	381,046	389,590	398,330	407,191	416,255	425,492	434,937	444,493	454,244
Commercial Therms	718,290	733,195	747,908	762,539	777,149	791,867	806,677	821,680	836,814	852,119
Industrial Therms	351,537	353,895	355,831	358,768	358,731	359,792	360,628	362,640	361,806	362,187
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,442,503	1,468,136	1,493,329	1,519,637	1,543,072	1,567,914	1,592,796	1,619,256	1,643,113	1,668,550
Daily Baseload Therms	1,149	1,165	1,180	1,196	1,210	1,225	1,239	1,253	1,267	1,281
Peak Day Therms	16,518	16,835	17,150	17,463	17,777	18,092	18,410	18,731	19,055	19,383
Therms Per Residential Customer	593	593	593	593	593	593	593	593	593	593
Therms Per Commercial Customer	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488
Therms Per Industrial Customer	24,651	24,651	24,651	24,743	24,651	24,651	24,651	24,743	24,651	24,651
Residential Customers	629	643	658	672	687	703	718	734	750	767
Commercial Customers	206	210	214	219	223	227	231	236	240	244
Industrial Customers	14	14	14	14	15	15	15	15	15	15
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	849	868	886	905	925	944	964	984	1,005	1,026

A/M Rendering	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.33%	1.33%	1.70%	0.95%	1.32%	1.32%	1.69%	0.94%	1.30%
Residential Therms	437,333	443,132	449,004	456,624	460,947	467,021	473,159	481,136	485,619	491,923
Commercial Therms	3,912	3,986	4,060	4,148	4,207	4,281	4,355	4,445	4,506	4,582
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	441,245	447,119	453,064	460,772	465,154	471,302	477,514	485,581	490,125	496,505
Daily Baseload Therms	719	729	738	748	758	768	778	789	799	809
Peak Day Therms	3,038	3,078	3,119	3,160	3,202	3,244	3,287	3,330	3,374	3,418
Therms Per Residential Customer	14,198	14,198	14,198	14,251	14,198	14,198	14,198	14,251	14,198	14,198
Therms Per Commercial Customer	3,753	3,753	3,753	3,766	3,753	3,753	3,753	3,766	3,753	3,753
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	31	31	32	32	32	33	33	34	34	35
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	32	32	33	33	34	34	34	35	35	36

LDS Church	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.53%	1.48%	1.95%	0.90%	1.39%	1.36%	1.85%	0.82%	1.31%
Residential Therms	2,572	2,606	2,641	2,689	2,711	2,747	2,783	2,834	2,856	2,893
Commercial Therms	7,134	7,248	7,360	7,506	7,576	7,683	7,789	7,934	8,000	8,105
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	9,706	9,854	10,000	10,195	10,287	10,430	10,572	10,768	10,856	10,998
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	123	125	127	129	130	132	134	136	138	140
Therms Per Residential Customer	1,253	1,253	1,253	1,259	1,253	1,253	1,253	1,259	1,253	1,253
Therms Per Commercial Customer	6,883	6,883	6,883	6,917	6,883	6,883	6,883	6,917	6,883	6,883
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	3	3	3	3	3	3	3

Kalama #1	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.76%	0.75%	0.75%	0.74%	0.74%	0.73%	0.72%	0.71%	0.70%
Residential Therms	976	983	990	998	1,005	1,013	1,020	1,027	1,035	1,042
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	976	983	990	998	1,005	1,013	1,020	1,027	1,035	1,042
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	11	11	11	11	11	12	12	12	12	12
Therms Per Residential Customer	320	320	320	320	320	320	320	320	320	320
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	3	3	3	3	3	3	3	3	3	3
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	3	3	3	3	3	3	3

Dehawn Dairy	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.66%	0.65%	1.12%	0.18%	0.64%	0.63%	1.09%	0.15%	0.61%
Residential Therms	1,277	1,286	1,294	1,309	1,311	1,319	1,328	1,342	1,344	1,352
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,277	1,286	1,294	1,309	1,311	1,319	1,328	1,342	1,344	1,352
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	15	15	15	15	15	15	15	15	15	16
Therms Per Residential Customer	630	630	630	633	630	630	630	633	630	630
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

Yakima Chief Ranch	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.66%	0.65%	1.31%	-0.01%	0.64%	0.63%	1.29%	-0.04%	0.61%
Residential Therms	426	429	431	437	437	440	443	448	448	451
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	426	429	431	437	437	440	443	448	448	451
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	6	6	6	6	6	6	6	6	6	6
Therms Per Residential Customer	210	210	210	212	210	210	210	212	210	210
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

7th Day School	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.81%	0.78%	1.27%	0.24%	0.72%	0.71%	1.20%	0.18%	0.67%
Residential Therms	10,064	10,130	10,196	10,316	10,328	10,393	10,459	10,580	10,589	10,653
Commercial Therms	3,486	3,531	3,574	3,634	3,657	3,697	3,738	3,797	3,817	3,857
Industrial Therms	1,796	1,809	1,821	1,838	1,841	1,850	1,857	1,870	1,869	1,874
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	15,346	15,470	15,591	15,789	15,826	15,940	16,053	16,247	16,276	16,384
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	199	201	202	204	205	207	208	210	211	213
Therms Per Residential Customer	903	903	903	908	903	903	903	908	903	903
Therms Per Commercial Customer	3,386	3,386	3,386	3,404	3,386	3,386	3,386	3,404	3,386	3,386
Therms Per Industrial Customer	1,762	1,762	1,762	1,768	1,762	1,762	1,762	1,768	1,762	1,762
Residential Customers	11	11	11	11	11	12	12	12	12	12
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	13	13	13	13	14	14	14	14	14	14

Yakima Training Center	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.29%	1.24%	1.73%	0.67%	1.17%	1.14%	1.64%	0.60%	1.10%
Residential Therms	3,352	3,374	3,396	3,435	3,440	3,461	3,483	3,523	3,527	3,548
Commercial Therms	294,382	298,213	301,943	307,179	309,263	312,893	316,484	321,706	323,668	327,249
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	297,733	301,586	305,339	310,614	312,703	316,354	319,967	325,229	327,194	330,797
Daily Baseload Therms	248	251	254	257	260	263	266	269	272	275
Peak Day Therms	3,834	3,884	3,932	3,980	4,027	4,074	4,121	4,167	4,214	4,260
Therms Per Residential Customer	132	132	132	133	132	132	132	133	132	132
Therms Per Commercial Customer	2,968	2,968	2,968	2,983	2,968	2,968	2,968	2,983	2,968	2,968
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	25	25	26	26	26	26	26	26	27	27
Commercial Customers	99	100	102	103	104	105	107	108	109	110
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	125	126	127	129	130	132	133	134	136	137

Burbank Heights Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.48%	1.46%	1.67%	1.20%	1.41%	1.40%	1.62%	1.15%	1.36%
Residential Therms	3,114,152	3,153,129	3,192,575	3,232,544	3,272,726	3,313,412	3,354,484	3,396,085	3,437,787	3,479,835
Commercial Therms	2,261,815	2,302,216	2,342,061	2,393,954	2,421,207	2,460,698	2,500,402	2,553,451	2,580,312	2,620,193
Industrial Therms	136,031	137,589	139,033	140,435	141,767	143,038	144,239	145,419	146,543	147,650
Ind., Inst., & Cmcl. Interrup. Therms	211,874	215,895	219,868	224,796	227,748	231,741	235,755	240,887	243,944	248,087
Total Core Therms	5,723,872	5,808,830	5,893,536	5,991,730	6,063,447	6,148,890	6,234,880	6,335,842	6,408,586	6,495,765
Daily Baseload Therms	4,485	4,551	4,617	4,683	4,748	4,814	4,880	4,947	5,014	5,081
Peak Day Therms	86,119	87,397	88,673	89,947	91,233	92,522	93,820	95,126	96,444	97,761
Therms Per Residential Customer	397	397	397	397	397	397	397	397	397	397
Therms Per Commercial Customer	2,679	2,679	2,679	2,693	2,679	2,679	2,679	2,693	2,679	2,679
Therms Per Industrial Customer	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873
Residential Customers	7,849	7,947	8,047	8,147	8,249	8,351	8,455	8,559	8,665	8,771
Commercial Customers	844	859	874	889	904	918	933	948	963	978
Industrial Customers	9	9	9	9	10	10	10	10	10	10
Interruptible Customers	4	4	4	4	4	4	4	4	4	5
Total Core Customers	8,706	8,820	8,934	9,050	9,166	9,284	9,402	9,522	9,642	9,763

East Stanwood Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.42%	1.40%	1.83%	0.95%	1.38%	1.37%	1.80%	0.93%	1.35%
Residential Therms	5,474,108	5,541,149	5,608,972	5,703,035	5,746,751	5,816,702	5,887,307	5,985,398	6,030,414	6,102,669
Commercial Therms	3,342,710	3,401,652	3,459,831	3,533,426	3,576,773	3,636,127	3,695,749	3,771,920	3,816,936	3,878,301
Industrial Therms	143,693	145,999	148,162	150,240	152,233	154,197	156,161	158,125	160,060	162,053
Ind., Inst., & Cmcl. Interrup. Therms	449,862	455,308	460,861	467,895	472,177	478,018	483,971	491,499	496,128	502,361
Total Core Therms	9,410,373	9,544,108	9,677,826	9,854,595	9,947,934	10,085,044	10,223,188	10,406,942	10,503,539	10,645,383
Daily Baseload Therms	8,477	8,603	8,728	8,854	8,979	9,106	9,234	9,362	9,492	9,623
Peak Day Therms	94,094	95,418	96,743	98,080	99,421	100,780	102,150	103,533	104,929	106,336
Therms Per Residential Customer	676	676	676	679	676	676	676	679	676	676
Therms Per Commercial Customer	3,501	3,501	3,501	3,516	3,501	3,501	3,501	3,516	3,501	3,501
Therms Per Industrial Customer	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076
Residential Customers	8,103	8,202	8,303	8,404	8,507	8,610	8,715	8,820	8,926	9,033
Commercial Customers	955	972	988	1,005	1,022	1,038	1,056	1,073	1,090	1,108
Industrial Customers	3	3	3	3	3	3	3	3	3	4
Interruptible Customers	5	5	5	5	5	5	5	5	5	5
Total Core Customers	9,066	9,182	9,299	9,417	9,537	9,657	9,779	9,902	10,025	10,150

Kennewick Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.95%	1.93%	2.36%	1.44%	1.88%	1.86%	2.30%	1.39%	1.83%
Residential Therms	9,465,917	9,630,884	9,798,407	10,017,701	10,140,686	10,315,539	10,492,754	10,725,227	10,854,178	11,038,000
Commercial Therms	9,396,749	9,599,087	9,801,166	10,049,365	10,208,972	10,415,924	10,625,284	10,885,678	11,051,505	11,268,461
Industrial Therms	176,021	178,336	180,590	182,806	185,001	187,147	189,257	191,314	193,355	195,343
Ind., Inst., & Cmcl. Interrup. Therms	1,123,632	1,147,943	1,172,072	1,196,212	1,220,374	1,244,754	1,269,391	1,294,372	1,319,598	1,345,182
Total Core Therms	20,162,319	20,556,250	20,952,235	21,446,084	21,755,033	22,163,364	22,576,686	23,096,592	23,418,635	23,846,986
Daily Baseload Therms	17,882	18,238	18,596	18,956	19,320	19,687	20,059	20,436	20,816	21,201
Peak Day Therms	279,613	285,022	290,464	295,961	301,506	307,125	312,814	318,575	324,404	330,300
Therms Per Residential Customer	645	645	645	649	645	645	645	649	645	645
Therms Per Commercial Customer	3,953	3,953	3,953	3,971	3,953	3,953	3,953	3,971	3,953	3,953
Therms Per Industrial Customer	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924
Residential Customers	14,666	14,922	15,181	15,445	15,712	15,982	16,257	16,535	16,817	17,102
Commercial Customers	2,377	2,428	2,479	2,531	2,582	2,635	2,688	2,741	2,796	2,850
Industrial Customers	9	9	9	9	9	9	9	10	10	10
Interruptible Customers	12	13	13	13	14	14	14	14	15	15
Total Core Customers	17,064	17,372	17,683	17,998	18,317	18,640	18,968	19,301	19,637	19,977

Longview South Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.31%	1.26%	1.65%	0.74%	1.15%	1.13%	1.54%	0.67%	1.08%
Residential Therms	990,047	997,529	1,005,029	1,017,067	1,020,049	1,027,549	1,035,050	1,047,203	1,049,984	1,057,380
Commercial Therms	3,617,213	3,669,011	3,719,024	3,783,212	3,814,738	3,861,447	3,908,008	3,970,222	3,999,495	4,045,425
Industrial Therms	223,669	224,108	224,248	225,042	223,920	223,488	222,926	223,079	221,430	220,582
Ind., Inst., & Cmcl. Interrup. Therms	609,749	621,386	633,219	648,196	657,011	669,074	680,873	696,169	705,310	717,649
Total Core Therms	5,440,679	5,512,033	5,581,520	5,673,516	5,715,718	5,781,558	5,846,857	5,936,673	5,976,218	6,041,036
Daily Baseload Therms	4,896	4,960	5,021	5,081	5,139	5,197	5,254	5,310	5,367	5,423
Peak Day Therms	51,268	51,942	52,599	53,242	53,871	54,497	55,117	55,730	56,347	56,963
Therms Per Residential Customer	530	530	530	532	530	530	530	532	530	530
Therms Per Commercial Customer	4,064	4,064	4,064	4,082	4,064	4,064	4,064	4,082	4,064	4,064
Therms Per Industrial Customer	16,733	16,733	16,733	16,796	16,733	16,733	16,733	16,796	16,733	16,733
Residential Customers	1,868	1,882	1,896	1,910	1,924	1,939	1,953	1,967	1,981	1,995
Commercial Customers	890	903	915	927	939	950	962	973	984	995
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	6	6	6	7	7	7	7	7	7	7
Total Core Customers	2,777	2,804	2,831	2,857	2,883	2,909	2,935	2,960	2,985	3,011

Sedro-Woolley Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.40%	1.37%	1.81%	0.87%	1.32%	1.30%	1.76%	0.83%	1.28%
Residential Therms	16,785,714	16,991,053	17,198,545	17,488,930	17,620,257	17,834,342	18,050,311	18,353,022	18,488,036	18,708,983
Commercial Therms	8,282,684	8,436,661	8,587,870	8,776,080	8,886,099	9,035,579	9,184,854	9,378,074	9,487,234	9,640,193
Industrial Therms	1,132,484	1,142,262	1,150,757	1,162,491	1,164,816	1,170,682	1,175,842	1,184,780	1,184,361	1,187,991
Ind., Inst., & Cmcl. Interrup. Therms	1,201,890	1,216,507	1,230,344	1,249,118	1,256,162	1,268,442	1,280,423	1,297,436	1,303,126	1,314,328
Total Core Therms	27,402,773	27,786,482	28,167,517	28,676,620	28,927,333	29,309,046	29,691,430	30,213,311	30,462,756	30,851,495
Daily Baseload Therms	17,047	17,287	17,523	17,757	17,990	18,224	18,457	18,691	18,925	19,160
Peak Day Therms	293,163	297,266	301,346	305,415	309,497	313,597	317,707	321,851	326,005	330,189
Therms Per Residential Customer	665	665	665	668	665	665	665	668	665	665
Therms Per Commercial Customer	2,499	2,499	2,499	2,511	2,499	2,499	2,499	2,511	2,499	2,499
Therms Per Industrial Customer	13,114	13,114	13,114	13,163	13,114	13,114	13,114	13,163	13,114	13,114
Residential Customers	25,236	25,545	25,857	26,172	26,491	26,812	27,137	27,465	27,795	28,127
Commercial Customers	3,314	3,376	3,436	3,496	3,555	3,615	3,675	3,736	3,796	3,857
Industrial Customers	86	87	88	88	89	89	90	90	90	91
Interruptible Customers	10	10	11	11	11	11	11	11	11	11
Total Core Customers	28,647	29,018	29,391	29,767	30,146	30,528	30,913	31,302	31,693	32,086

Sumas SPE Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.50%	1.48%	1.92%	1.00%	1.44%	1.43%	1.88%	0.96%	1.40%
Residential Therms	30,558,429	30,963,630	31,373,911	31,934,244	32,208,440	32,632,829	33,061,733	33,648,495	33,932,380	34,372,854
Commercial Therms	14,489,963	14,760,947	15,028,870	15,360,437	15,560,288	15,827,317	16,095,092	16,435,563	16,636,021	16,908,534
Industrial Therms	1,141,024	1,151,268	1,160,274	1,172,565	1,175,173	1,181,486	1,187,024	1,196,584	1,196,662	1,200,848
Ind., Inst., & Cmcl. Interrup. Therms	999,254	1,021,086	1,042,828	1,069,577	1,086,916	1,109,436	1,132,345	1,161,063	1,179,545	1,203,804
Total Core Therms	47,188,670	47,896,932	48,605,883	49,536,824	50,030,816	50,751,069	51,476,195	52,441,706	52,944,608	53,686,040
Daily Baseload Therms	33,681	34,198	34,713	35,227	35,743	36,262	36,784	37,310	37,839	38,371
Peak Day Therms	492,476	499,824	507,186	514,569	522,000	529,494	537,041	544,662	552,330	560,052
Therms Per Residential Customer	703	703	703	706	703	703	703	706	703	703
Therms Per Commercial Customer	2,827	2,827	2,827	2,840	2,827	2,827	2,827	2,840	2,827	2,827
Therms Per Industrial Customer	20,187	20,187	20,187	20,263	20,187	20,187	20,187	20,263	20,187	20,187
Residential Customers	43,462	44,038	44,622	45,212	45,809	46,412	47,022	47,639	48,261	48,887
Commercial Customers	5,125	5,221	5,315	5,409	5,503	5,598	5,692	5,788	5,884	5,980
Industrial Customers	57	57	57	58	58	59	59	59	59	59
Interruptible Customers	12	12	13	13	13	13	14	14	14	15
Total Core Customers	48,655	49,328	50,007	50,692	51,383	52,082	52,787	53,500	54,218	54,941

Yakima Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.96%	0.92%	1.36%	0.41%	0.85%	0.83%	1.28%	0.34%	0.79%
Residential Therms	12,266,993	12,347,412	12,427,977	12,569,025	12,588,718	12,668,943	12,748,876	12,890,796	12,907,673	12,986,051
Commercial Therms	11,777,776	11,936,126	12,090,386	12,297,407	12,390,202	12,537,869	12,684,544	12,889,757	12,977,067	13,122,314
Industrial Therms	2,874,804	2,892,774	2,907,804	2,931,282	2,930,010	2,937,787	2,943,864	2,959,984	2,952,034	2,954,414
Ind., Inst., & Cmcl. Interrup. Therms	784,549	793,630	802,279	813,872	818,818	826,790	834,661	845,768	850,216	857,909
Total Core Therms	27,704,122	27,969,943	28,228,446	28,611,586	28,727,748	28,971,389	29,211,944	29,586,305	29,686,991	29,920,689
Daily Baseload Therms	17,056	17,222	17,382	17,535	17,684	17,829	17,971	18,111	18,249	18,384
Peak Day Therms	313,098	316,094	319,018	321,878	324,689	327,467	330,215	332,948	335,655	338,335
Therms Per Residential Customer	660	660	660	663	660	660	660	663	660	660
Therms Per Commercial Customer	3,455	3,455	3,455	3,471	3,455	3,455	3,455	3,471	3,455	3,455
Therms Per Industrial Customer	38,396	38,396	38,396	38,546	38,396	38,396	38,396	38,546	38,396	38,396
Residential Customers	18,583	18,705	18,827	18,949	19,070	19,192	19,313	19,434	19,554	19,672
Commercial Customers	3,409	3,455	3,499	3,543	3,586	3,629	3,671	3,714	3,756	3,798
Industrial Customers	75	75	76	76	76	77	77	77	77	77
Interruptible Customers	12	12	12	12	12	12	13	13	13	13
Total Core Customers	22,078	22,247	22,414	22,580	22,745	22,910	23,073	23,237	23,399	23,560

Zone 10	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.06%	1.02%	1.31%	0.64%	0.93%	0.91%	1.22%	0.56%	0.87%
Residential Therms	3,025,564	3,047,988	3,070,509	3,104,855	3,115,645	3,138,273	3,160,894	3,195,688	3,206,070	3,228,505
Commercial Therms	4,786,128	4,852,496	4,917,233	4,999,777	5,043,443	5,105,706	5,167,792	5,249,789	5,291,882	5,353,708
Industrial Therms	1,857,648	1,871,139	1,883,162	1,894,511	1,903,387	1,911,803	1,919,321	1,926,716	1,932,007	1,937,342
Ind., Inst., & Cmcl. Interrup. Therms	207,189	210,007	212,771	216,214	218,199	220,898	223,599	227,070	229,035	231,764
Total Core Therms	9,876,529	9,981,629	10,083,675	10,215,358	10,280,674	10,376,680	10,471,607	10,599,264	10,658,994	10,751,319
Daily Baseload Therms	8,026	8,106	8,181	8,254	8,323	8,390	8,455	8,518	8,580	8,640
Peak Day Therms	113,679	114,890	116,069	117,223	118,355	119,474	120,583	121,684	122,777	123,861
Therms Per Residential Customer	578	578	578	580	578	578	578	580	577	577
Therms Per Commercial Customer	3,445	3,445	3,445	3,458	3,445	3,445	3,445	3,459	3,445	3,446
Therms Per Industrial Customer	35,076	35,081	35,088	35,110	35,107	35,117	35,128	35,154	35,152	35,165
Residential Customers	5,235	5,274	5,314	5,353	5,393	5,433	5,472	5,512	5,552	5,591
Commercial Customers	1,389	1,409	1,427	1,446	1,464	1,482	1,500	1,518	1,536	1,554
Industrial Customers	53	53	54	54	54	54	55	55	55	55
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	6,680	6,739	6,798	6,856	6,914	6,972	7,030	7,088	7,146	7,204

Zone 11	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.05%	1.02%	1.41%	0.53%	0.94%	0.92%	1.33%	0.47%	0.88%
Residential Therms	13,271,271	13,361,739	13,452,444	13,608,141	13,633,706	13,724,319	13,814,713	13,971,781	13,994,624	14,083,619
Commercial Therms	16,612,769	16,846,640	17,074,466	17,371,571	17,518,684	17,738,042	17,956,611	18,251,683	18,392,814	18,610,134
Industrial Therms	3,705,152	3,732,841	3,757,299	3,789,776	3,797,333	3,813,707	3,828,100	3,852,393	3,852,458	3,862,710
Ind., Inst., & Cmcl. Interrup. Therms	1,433,536	1,450,723	1,467,088	1,486,011	1,498,042	1,512,946	1,527,614	1,545,405	1,556,602	1,570,841
Total Core Therms	35,022,728	35,391,942	35,751,297	36,255,499	36,447,764	36,789,014	37,127,038	37,621,262	37,796,498	38,127,304
Daily Baseload Therms	23,424	23,687	23,941	24,188	24,428	24,664	24,898	25,128	25,357	25,583
Peak Day Therms	388,933	393,061	397,087	401,033	404,912	408,757	412,568	416,360	420,127	423,866
Therms Per Residential Customer	610	610	610	613	610	609	609	612	609	609
Therms Per Commercial Customer	3,532	3,532	3,531	3,546	3,530	3,530	3,529	3,544	3,529	3,528
Therms Per Industrial Customer	33,484	33,450	33,414	33,478	33,341	33,303	33,265	33,326	33,189	33,150
Residential Customers	21,747	21,901	22,055	22,210	22,364	22,518	22,672	22,826	22,979	23,132
Commercial Customers	4,703	4,770	4,835	4,899	4,962	5,025	5,088	5,150	5,212	5,274
Industrial Customers	111	112	112	113	114	115	115	116	116	117
Interruptible Customers	21	21	21	22	22	22	22	23	23	23
Total Core Customers	26,582	26,804	27,024	27,244	27,462	27,680	27,897	28,114	28,331	28,545

Zone 20	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.74%	1.71%	2.07%	1.29%	1.65%	1.64%	2.01%	1.23%	1.60%
Residential Therms	15,769,957	16,020,191	16,274,093	16,598,747	16,792,148	17,056,408	17,323,945	17,666,817	17,868,872	18,145,553
Commercial Therms	14,037,804	14,316,156	14,592,974	14,927,698	15,148,385	15,428,695	15,711,449	16,058,983	16,285,062	16,575,698
Industrial Therms	3,469,863	3,517,895	3,563,768	3,619,617	3,649,229	3,689,806	3,728,761	3,779,616	3,804,156	3,840,317
Ind., Inst., & Cmcl. Interrup. Therms	1,704,183	1,737,808	1,771,283	1,805,530	1,837,930	1,871,636	1,905,565	1,941,007	1,974,758	2,009,907
Total Core Therms	34,981,807	35,592,049	36,202,119	36,951,592	37,427,692	38,046,545	38,669,720	39,446,423	39,932,847	40,571,474
Daily Baseload Therms	30,203	30,727	31,250	31,772	32,295	32,821	33,349	33,880	34,416	34,955
Peak Day Therms	485,458	493,926	502,406	510,914	519,483	528,120	536,827	545,614	554,492	563,432
Therms Per Residential Customer	616	617	617	620	618	618	618	621	619	619
Therms Per Commercial Customer	3,764	3,765	3,766	3,782	3,768	3,769	3,771	3,787	3,773	3,774
Therms Per Industrial Customer	90,142	90,335	90,524	91,017	90,875	91,040	91,206	91,692	91,544	91,709
Residential Customers	25,581	25,974	26,373	26,776	27,185	27,600	28,019	28,444	28,873	29,306
Commercial Customers	3,730	3,803	3,875	3,947	4,020	4,093	4,167	4,241	4,316	4,392
Industrial Customers	38	39	39	40	40	41	41	41	42	42
Interruptible Customers	20	21	21	21	22	22	23	23	23	24
Total Core Customers	29,370	29,836	30,308	30,785	31,267	31,756	32,249	32,749	33,254	33,764

Zone 24	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.45%	0.42%	0.81%	-0.08%	0.34%	0.32%	0.75%	-0.14%	0.28%
Residential Therms	4,065,131	4,075,456	4,085,646	4,116,510	4,105,780	4,115,724	4,125,471	4,156,016	4,144,524	4,153,632
Commercial Therms	3,935,193	3,959,340	3,982,041	4,021,135	4,020,217	4,038,516	4,055,281	4,091,662	4,087,756	4,103,515
Industrial Therms	233,280	233,548	233,645	233,422	233,159	232,850	232,425	232,025	231,437	230,763
Ind., Inst., & Cmcl. Interrup. Therms	920,999	927,311	933,112	938,045	942,722	946,709	950,441	953,738	956,269	958,621
Total Core Therms	9,154,603	9,195,655	9,234,444	9,309,111	9,301,879	9,333,799	9,363,619	9,433,441	9,419,986	9,446,531
Daily Baseload Therms	3,660	3,672	3,683	3,689	3,696	3,701	3,705	3,708	3,710	3,711
Peak Day Therms	115,318	115,834	116,320	116,758	117,175	117,578	117,958	118,328	118,673	119,010
Therms Per Residential Customer	580	580	580	583	580	580	580	583	580	580
Therms Per Commercial Customer	2,754	2,755	2,755	2,769	2,757	2,757	2,758	2,772	2,759	2,760
Therms Per Industrial Customer	10,222	10,229	10,234	10,237	10,238	10,239	10,240	10,242	10,243	10,242
Residential Customers	7,013	7,030	7,048	7,065	7,082	7,099	7,116	7,132	7,148	7,164
Commercial Customers	1,429	1,437	1,445	1,452	1,458	1,465	1,470	1,476	1,482	1,487
Industrial Customers	23	23	23	23	23	23	23	23	23	23
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,466	8,492	8,518	8,542	8,565	8,588	8,611	8,633	8,654	8,675

Zone 26	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.32%	1.27%	1.56%	0.85%	1.16%	1.14%	1.45%	0.78%	1.10%
Residential Therms	1,595,805	1,613,418	1,631,228	1,653,775	1,667,385	1,685,715	1,704,218	1,727,580	1,741,670	1,760,558
Commercial Therms	4,658,235	4,728,310	4,796,198	4,879,279	4,926,960	4,991,113	5,055,151	5,136,252	5,181,904	5,245,707
Industrial Therms	807,157	810,291	812,401	815,963	814,398	814,452	814,016	815,334	811,870	810,389
Ind., Inst., & Cmcl. Interrup. Therms	816,191	829,407	842,785	859,307	869,634	883,175	896,452	913,192	923,777	937,528
Total Core Therms	7,877,387	7,981,426	8,082,612	8,208,323	8,278,378	8,374,455	8,469,837	8,592,359	8,659,222	8,754,182
Daily Baseload Therms	7,582	7,671	7,756	7,838	7,917	7,995	8,072	8,147	8,222	8,296
Peak Day Therms	77,400	78,468	79,512	80,537	81,545	82,549	83,547	84,541	85,539	86,541
Therms Per Residential Customer	583	583	583	585	583	583	583	585	583	583
Therms Per Commercial Customer	3,892	3,891	3,891	3,904	3,890	3,889	3,889	3,902	3,888	3,887
Therms Per Industrial Customer	26,334	26,328	26,322	26,386	26,309	26,303	26,296	26,360	26,282	26,276
Residential Customers	2,738	2,768	2,798	2,829	2,860	2,891	2,923	2,955	2,987	3,019
Commercial Customers	1,197	1,215	1,233	1,250	1,267	1,283	1,300	1,316	1,333	1,350
Industrial Customers	31	31	31	31	31	31	31	31	31	31
Interruptible Customers	7	7	8	8	8	8	8	8	8	8
Total Core Customers	3,973	4,021	4,069	4,117	4,165	4,213	4,262	4,310	4,359	4,408

Zone 30-S	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.27%	1.25%	1.66%	0.80%	1.21%	1.20%	1.61%	0.76%	1.17%
Residential Therms	24,059,903	24,319,493	24,581,610	24,958,944	25,113,002	25,382,117	25,653,421	26,044,485	26,201,675	26,477,592
Commercial Therms	13,471,537	13,680,830	13,885,870	14,149,463	14,290,589	14,491,929	14,694,803	14,959,639	15,100,256	15,304,344
Industrial Therms	533,974	538,519	542,695	547,315	549,770	552,973	555,854	559,545	561,213	563,607
Ind., Inst., & Cmcl. Interrup. Therms	3,390,786	3,445,839	3,500,446	3,561,510	3,608,424	3,662,210	3,715,267	3,775,271	3,820,358	3,871,829
Total Core Therms	41,456,200	41,984,681	42,510,621	43,217,232	43,561,785	44,089,228	44,619,345	45,338,941	45,683,501	46,217,371
Daily Baseload Therms	33,191	33,637	34,079	34,520	34,960	35,401	35,843	36,285	36,729	37,172
Peak Day Therms	406,934	412,074	417,197	422,328	427,448	432,597	437,773	442,960	448,175	453,396
Therms Per Residential Customer	680	680	680	683	680	680	680	683	679	679
Therms Per Commercial Customer	3,553	3,554	3,554	3,569	3,555	3,555	3,555	3,571	3,556	3,556
Therms Per Industrial Customer	17,742	17,751	17,760	17,800	17,778	17,787	17,796	17,836	17,815	17,825
Residential Customers	35,398	35,781	36,168	36,559	36,953	37,351	37,751	38,155	38,561	38,969
Commercial Customers	3,791	3,850	3,907	3,964	4,020	4,076	4,133	4,190	4,246	4,303
Industrial Customers	30	30	31	31	31	31	31	31	32	32
Interruptible Customers	14	14	14	15	15	15	15	16	16	16
Total Core Customers	39,233	39,676	40,120	40,569	41,019	41,473	41,931	42,392	42,855	43,320

Zone 30-W	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.45%	1.43%	1.86%	0.95%	1.38%	1.37%	1.82%	0.91%	1.34%
Residential Therms	56,849,923	57,578,726	58,316,163	59,330,315	59,815,551	60,577,508	61,347,041	62,407,059	62,908,159	63,697,233
Commercial Therms	28,202,520	28,718,038	29,225,674	29,856,942	30,230,192	30,734,179	31,238,441	31,884,640	32,257,297	32,770,948
Industrial Therms	2,749,267	2,775,215	2,798,149	2,828,498	2,836,924	2,853,614	2,868,589	2,892,467	2,894,738	2,906,362
Ind., Inst., & Cmcl. Interrup. Therms	2,723,414	2,767,814	2,811,488	2,867,093	2,898,106	2,941,567	2,985,298	3,042,010	3,073,381	3,118,208
Total Core Therms	90,525,124	91,839,794	93,151,475	94,882,848	95,780,772	97,106,868	98,439,369	100,226,175	101,133,574	102,492,751
Daily Baseload Therms	66,821	67,806	68,783	69,757	70,731	71,710	72,691	73,679	74,671	75,668
Peak Day Therms	940,911	954,524	968,120	981,733	995,408	1,009,182	1,023,029	1,036,999	1,051,039	1,065,175
Therms Per Residential Customer	695	695	695	699	695	695	695	699	695	695
Therms Per Commercial Customer	2,818	2,817	2,817	2,829	2,817	2,817	2,817	2,829	2,816	2,816
Therms Per Industrial Customer	15,694	15,697	15,700	15,758	15,705	15,708	15,712	15,771	15,719	15,723
Residential Customers	81,754	82,801	83,860	84,931	86,014	87,108	88,214	89,330	90,456	91,589
Commercial Customers	10,010	10,193	10,374	10,553	10,732	10,911	11,091	11,272	11,453	11,636
Industrial Customers	175	177	178	179	181	182	183	183	184	185
Interruptible Customers	28	29	29	30	30	31	31	32	32	33
Total Core Customers	91,967	93,200	94,442	95,694	96,956	98,232	99,518	100,817	102,126	103,443

Zone GTN	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.13%	2.10%	2.53%	1.62%	2.05%	2.03%	2.46%	1.55%	1.98%
Residential Therms	32,167,472	32,825,624	33,496,219	34,332,690	34,873,700	35,581,057	36,300,324	37,199,090	37,775,945	38,531,123
Commercial Therms	19,411,404	19,878,366	20,344,722	20,905,314	21,287,697	21,766,991	22,247,306	22,830,743	23,218,162	23,707,957
Industrial Therms	2,027,373	2,050,372	2,072,533	2,098,823	2,110,595	2,128,093	2,144,539	2,167,329	2,175,179	2,189,417
Ind., Inst., & Cmcl. Interrup. Therms	978,023	991,316	1,004,083	1,018,071	1,028,076	1,039,576	1,050,517	1,063,282	1,071,935	1,082,255
Total Core Therms	54,584,273	55,745,678	56,917,557	58,354,897	59,300,068	60,515,718	61,742,687	63,260,444	64,241,220	65,510,752
Daily Baseload Therms	35,469	36,237	37,009	37,788	38,576	39,374	40,178	40,992	41,814	42,643
Peak Day Therms	679,296	693,651	708,144	722,790	737,618	752,661	767,850	783,239	798,788	814,513
Therms Per Residential Customer	744	744	744	748	745	745	746	749	746	746
Therms Per Commercial Customer	2,846	2,847	2,847	2,859	2,847	2,847	2,847	2,860	2,847	2,848
Therms Per Industrial Customer	25,815	25,810	25,805	25,880	25,793	25,783	25,776	25,846	25,753	25,742
Residential Customers	43,253	44,119	45,001	45,898	46,812	47,742	48,688	49,650	50,627	51,619
Commercial Customers	6,819	6,983	7,147	7,311	7,477	7,645	7,814	7,983	8,154	8,326
Industrial Customers	79	79	80	81	82	83	83	84	84	85
Interruptible Customers	7	7	8	8	8	8	8	8	8	8
Total Core Customers	50,158	51,189	52,235	53,298	54,379	55,478	56,592	57,725	58,873	60,037

Zone ME-OR	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.13%	1.10%	1.44%	0.68%	1.04%	1.01%	1.37%	0.62%	0.97%
Residential Therms	4,830,844	4,860,982	4,891,304	4,937,337	4,952,074	4,982,583	5,013,092	5,059,697	5,074,111	5,104,313
Commercial Therms	5,626,112	5,713,745	5,800,147	5,911,861	5,970,085	6,055,341	6,139,322	6,252,426	6,309,340	6,394,218
Industrial Therms	469,772	473,035	475,831	479,245	480,167	481,815	483,349	485,607	485,431	486,255
Ind., Inst., & Cmcl. Interrup. Therms	1,556,592	1,576,634	1,595,790	1,617,986	1,632,213	1,650,072	1,666,677	1,687,297	1,699,484	1,715,248
Total Core Therms	12,483,322	12,624,396	12,763,072	12,946,429	13,034,539	13,169,811	13,302,441	13,485,026	13,568,365	13,700,034
Daily Baseload Therms	9,764	9,883	10,000	10,116	10,231	10,345	10,458	10,571	10,684	10,796
Peak Day Therms	186,344	188,321	190,268	192,185	194,088	195,992	197,860	199,739	201,603	203,455
Therms Per Residential Customer	459	459	459	460	459	459	459	460	459	459
Therms Per Commercial Customer	3,012	3,012	3,013	3,027	3,013	3,014	3,014	3,028	3,015	3,016
Therms Per Industrial Customer	17,284	17,272	17,262	17,290	17,240	17,231	17,220	17,249	17,201	17,191
Residential Customers	10,526	10,592	10,658	10,724	10,791	10,857	10,924	10,990	11,057	11,122
Commercial Customers	1,868	1,897	1,925	1,953	1,981	2,009	2,037	2,065	2,092	2,120
Industrial Customers	27	27	28	28	28	28	28	28	28	28
Interruptible Customers	8	9	9	9	9	9	9	9	9	9
Total Core Customers	12,430	12,525	12,620	12,714	12,808	12,903	12,997	13,092	13,187	13,280

Zone ME-WA	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.03%	1.01%	1.46%	0.50%	0.95%	0.93%	1.39%	0.42%	0.88%
Residential Therms	6,537,816	6,578,585	6,619,460	6,693,433	6,700,996	6,741,550	6,781,996	6,856,238	6,862,352	6,901,833
Commercial Therms	4,317,845	4,374,478	4,430,060	4,505,094	4,537,505	4,590,623	4,642,846	4,716,975	4,746,019	4,797,165
Industrial Therms	85,026	85,780	86,451	87,020	87,550	87,995	88,378	88,715	89,009	89,280
Ind., Inst., & Cmcl. Interrup. Therms	1,734,487	1,766,863	1,798,944	1,837,993	1,862,512	1,893,622	1,924,437	1,961,908	1,984,254	2,013,664
Total Core Therms	12,675,175	12,805,705	12,934,914	13,123,541	13,188,564	13,313,790	13,437,657	13,623,836	13,681,635	13,801,942
Daily Baseload Therms	13,094	13,247	13,396	13,543	13,688	13,830	13,970	14,108	14,243	14,378
Peak Day Therms	173,889	175,581	177,256	178,906	180,542	182,166	183,772	185,365	186,940	188,502
Therms Per Residential Customer	598	598	598	601	598	598	598	601	598	598
Therms Per Commercial Customer	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	10,932	11,000	11,069	11,137	11,205	11,273	11,340	11,408	11,475	11,541
Commercial Customers	1,305	1,322	1,339	1,355	1,372	1,388	1,403	1,419	1,435	1,450
Industrial Customers	15	15	16	16	16	16	16	16	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	12,256	12,341	12,426	12,511	12,595	12,679	12,763	12,846	12,929	13,010

Bellingham Disctrict	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.50%	1.48%	1.92%	1.00%	1.44%	1.43%	1.88%	0.96%	1.40%
Residential Therms	31,107,461	31,519,943	31,937,595	32,507,609	32,787,117	33,219,132	33,655,742	34,252,638	34,542,031	34,990,418
Commercial Therms	14,629,515	14,903,274	15,173,988	15,509,013	15,711,046	15,980,946	16,251,623	16,595,739	16,798,470	17,073,990
Industrial Therms	1,141,716	1,151,968	1,160,981	1,173,279	1,175,893	1,182,212	1,187,757	1,197,323	1,197,406	1,201,598
Ind., Inst., & Cmcl. Interrup. Therms	1,071,662	1,096,000	1,120,283	1,150,080	1,169,767	1,195,107	1,220,905	1,253,076	1,274,127	1,301,519
Total Core Therms	47,950,354	48,671,184	49,392,847	50,339,981	50,843,822	51,577,397	52,316,026	53,298,775	53,812,034	54,567,526
Daily Baseload Therms	34,569	35,098	35,626	36,154	36,683	37,216	37,751	38,292	38,834	39,381
Peak Day Therms	499,057	506,519	513,998	521,500	529,052	536,668	544,340	552,087	559,883	567,735
Therms Per Residential Customer	713	713	713	716	713	713	713	716	713	713
Therms Per Commercial Customer	2,832	2,832	2,832	2,844	2,832	2,832	2,832	2,844	2,832	2,832
Therms Per Industrial Customer	19,837	19,836	19,835	19,909	19,833	19,832	19,831	19,904	19,828	19,827
Residential Customers	43,650	44,229	44,815	45,408	46,007	46,613	47,226	47,845	48,469	49,099
Commercial Customers	5,166	5,263	5,358	5,453	5,548	5,643	5,739	5,835	5,932	6,029
Industrial Customers	58	58	59	59	59	60	60	60	60	61
Interruptible Customers	13	14	14	14	14	15	15	15	16	16
Total Core Customers	48,887	49,563	50,246	50,934	51,629	52,331	53,039	53,755	54,477	55,204

Mount Vernon District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.39%	1.37%	1.79%	0.88%	1.32%	1.30%	1.74%	0.84%	1.28%
Residential Therms	25,742,462	26,058,783	26,378,568	26,822,706	27,028,433	27,358,376	27,691,300	28,154,421	28,366,127	28,706,815
Commercial Therms	13,573,005	13,814,765	14,051,686	14,347,929	14,519,146	14,753,233	14,986,818	15,288,900	15,458,827	15,696,958
Industrial Therms	1,607,552	1,623,248	1,637,168	1,655,219	1,661,031	1,671,402	1,680,832	1,695,144	1,697,332	1,704,764
Ind., Inst., & Cmcl. Interrup. Therms	1,651,753	1,671,815	1,691,205	1,717,013	1,728,340	1,746,460	1,764,393	1,788,935	1,799,254	1,816,688
Total Core Therms	42,574,771	43,168,610	43,758,628	44,542,867	44,936,950	45,529,471	46,123,344	46,927,400	47,321,541	47,925,225
Daily Baseload Therms	32,253	32,708	33,157	33,603	34,048	34,494	34,940	35,388	35,836	36,287
Peak Day Therms	441,855	448,004	454,122	460,233	466,356	472,514	478,689	484,912	491,156	497,440
Therms Per Residential Customer	676	676	676	679	676	676	676	679	676	676
Therms Per Commercial Customer	2,802	2,802	2,802	2,813	2,801	2,801	2,800	2,812	2,800	2,799
Therms Per Industrial Customer	13,667	13,672	13,677	13,729	13,688	13,694	13,701	13,754	13,714	13,722
Residential Customers	38,104	38,572	39,045	39,524	40,007	40,495	40,988	41,485	41,986	42,490
Commercial Customers	4,843	4,930	5,016	5,100	5,184	5,268	5,352	5,437	5,522	5,608
Industrial Customers	118	119	120	121	121	122	123	123	124	124
Interruptible Customers	15	15	16	16	16	16	16	16	17	17
Total Core Customers	43,080	43,637	44,196	44,760	45,328	45,901	46,479	47,062	47,649	48,239

Bremerton District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.36%	1.34%	1.75%	0.89%	1.30%	1.29%	1.70%	0.85%	1.26%
Residential Therms	21,512,255	21,758,972	22,008,147	22,360,602	22,513,654	22,769,826	23,028,188	23,394,170	23,550,735	23,813,957
Commercial Therms	10,987,997	11,173,344	11,354,997	11,584,777	11,714,702	11,894,013	12,074,885	12,306,194	12,436,802	12,618,818
Industrial Therms	307,110	311,279	315,346	319,116	322,776	326,348	329,780	333,145	336,480	339,740
Ind., Inst., & Cmcl. Interrup. Therms	2,443,298	2,487,380	2,531,407	2,579,161	2,619,247	2,663,460	2,707,229	2,755,102	2,794,932	2,838,202
Total Core Therms	35,250,659	35,730,974	36,209,898	36,843,656	37,170,379	37,653,648	38,140,081	38,788,611	39,118,949	39,610,717
Daily Baseload Therms	27,126	27,519	27,910	28,303	28,694	29,088	29,484	29,881	30,281	30,681
Peak Day Therms	351,685	356,425	361,157	365,905	370,650	375,428	380,238	385,059	389,918	394,780
Therms Per Residential Customer	675	675	675	678	675	675	675	678	675	675
Therms Per Commercial Customer	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	31,877	32,242	32,612	32,984	33,361	33,740	34,123	34,509	34,897	35,287
Commercial Customers	3,038	3,089	3,140	3,190	3,239	3,289	3,339	3,388	3,439	3,489
Industrial Customers	16	16	17	17	17	17	17	17	18	18
Interruptible Customers	10	10	11	11	11	11	11	12	12	12
Total Core Customers	34,941	35,359	35,778	36,202	36,628	37,057	37,490	37,927	38,366	38,806

Longview District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.34%	1.28%	1.58%	0.86%	1.17%	1.15%	1.47%	0.78%	1.11%
Residential Therms	1,595,805	1,613,418	1,631,228	1,653,775	1,667,385	1,685,715	1,704,218	1,727,580	1,741,670	1,760,558
Commercial Therms	4,649,499	4,719,505	4,787,328	4,870,347	4,917,968	4,982,065	5,046,049	5,127,097	5,172,700	5,236,454
Industrial Therms	807,157	810,291	812,401	815,963	814,398	814,452	814,016	815,334	811,870	810,389
Ind., Inst., & Cmcl. Interrup. Therms	609,749	621,386	633,219	648,196	657,011	669,074	680,873	696,169	705,310	717,649
Total Core Therms	7,662,209	7,764,600	7,864,176	7,988,279	8,056,763	8,151,306	8,245,155	8,366,181	8,431,549	8,525,050
Daily Baseload Therms	7,320	7,407	7,490	7,569	7,646	7,721	7,796	7,869	7,941	8,013
Peak Day Therms	74,911	75,954	76,975	77,978	78,963	79,944	80,921	81,893	82,870	83,851
Therms Per Residential Customer	583	583	583	585	583	583	583	585	583	583
Therms Per Commercial Customer	3,895	3,894	3,894	3,907	3,893	3,892	3,892	3,905	3,891	3,890
Therms Per Industrial Customer	26,334	26,328	26,322	26,386	26,309	26,303	26,296	26,360	26,282	26,276
Residential Customers	2,738	2,768	2,798	2,829	2,860	2,891	2,923	2,955	2,987	3,019
Commercial Customers	1,194	1,212	1,229	1,247	1,263	1,280	1,297	1,313	1,329	1,346
Industrial Customers	31	31	31	31	31	31	31	31	31	31
Interruptible Customers	6	6	6	7	7	7	7	7	7	7
Total Core Customers	3,968	4,017	4,065	4,113	4,161	4,209	4,257	4,306	4,354	4,403

Aberdeen District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.78%	0.75%	1.16%	0.28%	0.69%	0.68%	1.10%	0.22%	0.64%
Residential Therms	2,547,649	2,560,520	2,573,463	2,598,342	2,599,348	2,612,290	2,625,233	2,650,315	2,650,940	2,663,634
Commercial Therms	2,483,541	2,507,487	2,530,873	2,564,686	2,575,887	2,597,916	2,619,919	2,653,446	2,663,454	2,685,526
Industrial Therms	226,864	227,240	227,349	228,199	226,994	226,624	226,074	226,400	224,733	223,867
Ind., Inst., & Cmcl. Interrup. Therms	947,488	958,460	969,038	982,349	989,177	998,750	1,008,038	1,020,170	1,025,425	1,033,628
Total Core Therms	6,205,541	6,253,707	6,300,723	6,373,576	6,391,406	6,435,580	6,479,264	6,550,330	6,564,552	6,606,655
Daily Baseload Therms	6,064	6,117	6,168	6,217	6,266	6,313	6,359	6,404	6,447	6,491
Peak Day Therms	55,249	55,649	56,040	56,423	56,798	57,168	57,536	57,901	58,257	58,615
Therms Per Residential Customer	724	724	724	727	724	724	724	727	724	724
Therms Per Commercial Customer	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298
Therms Per Industrial Customer	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180
Residential Customers	3,521	3,539	3,557	3,575	3,592	3,610	3,628	3,646	3,664	3,681
Commercial Customers	753	760	767	774	781	788	794	801	808	814
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,292	4,317	4,342	4,367	4,391	4,416	4,441	4,465	4,489	4,513

Kennewick District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.82%	1.80%	2.17%	1.37%	1.75%	1.74%	2.12%	1.33%	1.70%
Residential Therms	15,154,545	15,401,408	15,651,909	15,970,021	16,163,193	16,424,052	16,688,219	17,024,508	17,226,435	17,499,777
Commercial Therms	13,236,087	13,507,313	13,777,320	14,105,649	14,320,010	14,594,258	14,871,258	15,213,162	15,433,573	15,718,453
Industrial Therms	390,818	395,593	400,128	404,558	408,855	413,010	417,016	420,936	424,752	428,487
Ind., Inst., & Cmcl. Interrup. Therms	1,695,288	1,728,109	1,760,631	1,794,096	1,825,573	1,858,314	1,891,347	1,925,854	1,958,559	1,992,696
Total Core Therms	30,476,739	31,032,423	31,589,988	32,274,325	32,717,631	33,289,633	33,867,840	34,584,461	35,043,319	35,639,413
Daily Baseload Therms	24,823	25,285	25,748	26,213	26,682	27,155	27,633	28,116	28,604	29,097
Peak Day Therms	437,667	445,576	453,517	461,514	469,584	477,737	485,978	494,311	502,735	511,231
Therms Per Residential Customer	619	619	619	622	620	620	621	623	621	622
Therms Per Commercial Customer	3,842	3,843	3,843	3,859	3,844	3,844	3,844	3,861	3,845	3,845
Therms Per Industrial Customer	19,509	19,509	19,510	19,510	19,511	19,511	19,512	19,512	19,513	19,513
Residential Customers	24,487	24,874	25,266	25,664	26,067	26,475	26,888	27,307	27,730	28,157
Commercial Customers	3,445	3,515	3,585	3,655	3,726	3,797	3,868	3,941	4,014	4,088
Industrial Customers	20	20	21	21	21	21	21	22	22	22
Interruptible Customers	18	19	19	20	20	20	21	21	21	22
Total Core Customers	27,970	28,428	28,891	29,359	29,833	30,313	30,798	31,290	31,787	32,288

Walla Walla District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.03%	1.01%	1.46%	0.50%	0.95%	0.93%	1.39%	0.42%	0.88%
Residential Therms	6,537,816	6,578,585	6,619,460	6,693,433	6,700,996	6,741,550	6,781,996	6,856,238	6,862,352	6,901,833
Commercial Therms	4,317,845	4,374,478	4,430,060	4,505,094	4,537,505	4,590,623	4,642,846	4,716,975	4,746,019	4,797,165
Industrial Therms	85,026	85,780	86,451	87,020	87,550	87,995	88,378	88,715	89,009	89,280
Ind., Inst., & Cmcl. Interrup. Therms	1,734,487	1,766,863	1,798,944	1,837,993	1,862,512	1,893,622	1,924,437	1,961,908	1,984,254	2,013,664
Total Core Therms	12,675,175	12,805,705	12,934,914	13,123,541	13,188,564	13,313,790	13,437,657	13,623,836	13,681,635	13,801,942
Daily Baseload Therms	11,889	12,027	12,163	12,298	12,430	12,561	12,690	12,818	12,943	13,068
Peak Day Therms	173,889	175,581	177,256	178,906	180,542	182,166	183,772	185,365	186,940	188,502
Therms Per Residential Customer	598	598	598	601	598	598	598	601	598	598
Therms Per Commercial Customer	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	10,932	11,000	11,069	11,137	11,205	11,273	11,340	11,408	11,475	11,541
Commercial Customers	1,305	1,322	1,339	1,355	1,372	1,388	1,403	1,419	1,435	1,450
Industrial Customers	15	15	16	16	16	16	16	16	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	12,256	12,341	12,426	12,511	12,595	12,679	12,763	12,846	12,929	13,010

Wenatchee District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.37%	1.31%	1.58%	0.89%	1.19%	1.16%	1.46%	0.80%	1.10%
Residential Therms	1,284,849	1,296,015	1,307,287	1,324,781	1,330,010	1,341,497	1,353,018	1,370,959	1,376,200	1,387,837
Commercial Therms	4,755,957	4,827,784	4,897,641	4,982,241	5,034,225	5,101,719	5,169,241	5,252,906	5,303,913	5,371,610
Industrial Therms	3,622,718	3,672,794	3,720,780	3,778,543	3,810,109	3,852,623	3,893,475	3,946,211	3,972,616	4,010,628
Ind., Inst., & Cmcl. Interrup. Therms	547,137	553,683	560,178	566,318	572,447	578,523	584,530	590,467	596,606	602,541
Total Core Therms	10,210,661	10,350,276	10,485,886	10,651,883	10,746,792	10,874,362	11,000,264	11,160,543	11,249,335	11,372,617
Daily Baseload Therms	11,079	11,228	11,372	11,510	11,646	11,780	11,911	12,040	12,170	12,298
Peak Day Therms	108,189	109,645	111,060	112,437	113,788	115,123	116,440	117,743	119,049	120,341
Therms Per Residential Customer	499	499	499	501	498	498	498	500	498	497
Therms Per Commercial Customer	4,466	4,469	4,473	4,490	4,479	4,483	4,486	4,504	4,493	4,496
Therms Per Industrial Customer	91,671	91,854	92,022	92,498	92,350	92,497	92,644	93,101	92,940	93,084
Residential Customers	2,575	2,598	2,622	2,645	2,669	2,693	2,717	2,741	2,766	2,790
Commercial Customers	1,065	1,080	1,095	1,110	1,124	1,138	1,152	1,166	1,180	1,195
Industrial Customers	40	40	40	41	41	42	42	42	43	43
Interruptible Customers	7	7	7	7	7	7	8	8	8	8
Total Core Customers	3,686	3,725	3,764	3,803	3,842	3,880	3,919	3,958	3,997	4,036

Yakima District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.99%	0.95%	1.34%	0.48%	0.88%	0.86%	1.26%	0.42%	0.81%
Residential Therms	15,627,398	15,732,494	15,837,848	16,016,940	16,048,295	16,153,451	16,258,316	16,438,818	16,466,931	16,570,063
Commercial Therms	17,453,392	17,689,000	17,918,582	18,220,089	18,365,269	18,585,514	18,804,455	19,103,542	19,241,477	19,458,730
Industrial Therms	5,019,127	5,053,488	5,083,322	5,120,804	5,130,984	5,149,683	5,165,691	5,191,578	5,191,252	5,201,254
Ind., Inst., & Cmcl. Interrup. Therms	1,308,925	1,324,766	1,339,900	1,358,452	1,368,775	1,382,744	1,396,480	1,414,185	1,423,698	1,437,153
Total Core Therms	39,408,842	39,799,748	40,179,653	40,716,285	40,913,323	41,271,393	41,624,943	42,148,123	42,323,358	42,667,199
Daily Baseload Therms	26,012	26,271	26,520	26,758	26,989	27,214	27,433	27,648	27,860	28,067
Peak Day Therms	444,703	449,169	453,522	457,778	461,961	466,095	470,185	474,252	478,283	482,277
Therms Per Residential Customer	613	613	613	615	612	612	612	615	612	612
Therms Per Commercial Customer	3,283	3,282	3,281	3,294	3,279	3,279	3,278	3,291	3,276	3,275
Therms Per Industrial Customer	35,208	35,188	35,168	35,232	35,130	35,112	35,093	35,157	35,056	35,038
Residential Customers	25,501	25,677	25,854	26,030	26,206	26,383	26,559	26,734	26,909	27,082
Commercial Customers	5,316	5,389	5,461	5,531	5,600	5,669	5,737	5,805	5,873	5,941
Industrial Customers	143	144	145	145	146	147	147	148	148	148
Interruptible Customers	20	20	20	20	21	21	21	21	22	22
Total Core Customers	30,980	31,230	31,479	31,727	31,973	32,219	32,464	32,709	32,952	33,194

Central Oregon (Bend) District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.13%	2.10%	2.53%	1.62%	2.05%	2.03%	2.46%	1.55%	1.98%
Residential Therms	32,167,472	32,825,624	33,496,219	34,332,690	34,873,700	35,581,057	36,300,324	37,199,090	37,775,945	38,531,123
Commercial Therms	19,411,404	19,878,366	20,344,722	20,905,314	21,287,697	21,766,991	22,247,306	22,830,743	23,218,162	23,707,957
Industrial Therms	2,027,373	2,050,372	2,072,533	2,098,823	2,110,595	2,128,093	2,144,539	2,167,329	2,175,179	2,189,417
Ind., Inst., & Cmcl. Interrup. Therms	978,023	991,316	1,004,083	1,018,071	1,028,076	1,039,576	1,050,517	1,063,282	1,071,935	1,082,255
Total Core Therms	54,584,273	55,745,678	56,917,557	58,354,897	59,300,068	60,515,718	61,742,687	63,260,444	64,241,220	65,510,752
Daily Baseload Therms	35,469	36,237	37,009	37,788	38,576	39,374	40,178	40,992	41,814	42,643
Peak Day Therms	679,296	693,651	708,144	722,790	737,618	752,661	767,850	783,239	798,788	814,513
Therms Per Residential Customer	744	744	744	748	745	745	746	749	746	746
Therms Per Commercial Customer	2,846	2,847	2,847	2,859	2,847	2,847	2,847	2,860	2,847	2,848
Therms Per Industrial Customer	25,815	25,810	25,805	25,880	25,793	25,783	25,776	25,846	25,753	25,742
Residential Customers	43,253	44,119	45,001	45,898	46,812	47,742	48,688	49,650	50,627	51,619
Commercial Customers	6,819	6,983	7,147	7,311	7,477	7,645	7,814	7,983	8,154	8,326
Industrial Customers	79	79	80	81	82	83	83	84	84	85
Interruptible Customers	7	7	8	8	8	8	8	8	8	8
Total Core Customers	50,158	51,189	52,235	53,298	54,379	55,478	56,592	57,725	58,873	60,037

Pendleton District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.13%	1.10%	1.44%	0.68%	1.04%	1.01%	1.37%	0.62%	0.97%
Residential Therms	4,830,844	4,860,982	4,891,304	4,937,337	4,952,074	4,982,583	5,013,092	5,059,697	5,074,111	5,104,313
Commercial Therms	5,626,112	5,713,745	5,800,147	5,911,861	5,970,085	6,055,341	6,139,322	6,252,426	6,309,340	6,394,218
Industrial Therms	469,772	473,035	475,831	479,245	480,167	481,815	483,349	485,607	485,431	486,255
Ind., Inst., & Cmcl. Interrup. Therms	1,556,592	1,576,634	1,595,790	1,617,986	1,632,213	1,650,072	1,666,677	1,687,297	1,699,484	1,715,248
Total Core Therms	12,483,322	12,624,396	12,763,072	12,946,429	13,034,539	13,169,811	13,302,441	13,485,026	13,568,365	13,700,034
Daily Baseload Therms	10,969	11,103	11,233	11,361	11,488	11,614	11,738	11,861	11,984	12,106
Peak Day Therms	186,344	188,321	190,268	192,185	194,088	195,992	197,860	199,739	201,603	203,455
Therms Per Residential Customer	459	459	459	460	459	459	459	460	459	459
Therms Per Commercial Customer	3,012	3,012	3,013	3,027	3,013	3,014	3,014	3,028	3,015	3,016
Therms Per Industrial Customer	17,284	17,272	17,262	17,290	17,240	17,231	17,220	17,249	17,201	17,191
Residential Customers	10,526	10,592	10,658	10,724	10,791	10,857	10,924	10,990	11,057	11,122
Commercial Customers	1,868	1,897	1,925	1,953	1,981	2,009	2,037	2,065	2,092	2,120
Industrial Customers	27	27	28	28	28	28	28	28	28	28
Interruptible Customers	8	9	9	9	9	9	9	9	9	9
Total Core Customers	12,430	12,525	12,620	12,714	12,808	12,903	12,997	13,092	13,187	13,280

Eastern Oregon (Ontario) District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.45%	0.42%	0.81%	-0.08%	0.34%	0.32%	0.75%	-0.14%	0.28%
Residential Therms	4,065,131	4,075,456	4,085,646	4,116,510	4,105,780	4,115,724	4,125,471	4,156,016	4,144,524	4,153,632
Commercial Therms	3,935,193	3,959,340	3,982,041	4,021,135	4,020,217	4,038,516	4,055,281	4,091,662	4,087,756	4,103,515
Industrial Therms	233,280	233,548	233,645	233,422	233,159	232,850	232,425	232,025	231,437	230,763
Ind., Inst., & Cmcl. Interrup. Therms	920,999	927,311	933,112	938,045	942,722	946,709	950,441	953,738	956,269	958,621
Total Core Therms	9,154,603	9,195,655	9,234,444	9,309,111	9,301,879	9,333,799	9,363,619	9,433,441	9,419,986	9,446,531
Daily Baseload Therms	3,660	3,672	3,683	3,689	3,696	3,701	3,705	3,708	3,710	3,711
Peak Day Therms	115,318	115,834	116,320	116,758	117,175	117,578	117,958	118,328	118,673	119,010
Therms Per Residential Customer	580	580	580	583	580	580	580	583	580	580
Therms Per Commercial Customer	2,754	2,755	2,755	2,769	2,757	2,757	2,758	2,772	2,759	2,760
Therms Per Industrial Customer	10,222	10,229	10,234	10,237	10,238	10,239	10,240	10,242	10,243	10,242
Residential Customers	7,013	7,030	7,048	7,065	7,082	7,099	7,116	7,132	7,148	7,164
Commercial Customers	1,429	1,437	1,445	1,452	1,458	1,465	1,470	1,476	1,482	1,487
Industrial Customers	23	23	23	23	23	23	23	23	23	23
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,466	8,492	8,518	8,542	8,565	8,588	8,611	8,633	8,654	8,675

Oregon	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.76%	1.74%	2.15%	1.27%	1.69%	1.67%	2.10%	1.22%	1.64%
Residential Therms	41,063,448	41,762,063	42,473,170	43,386,537	43,931,554	44,679,364	45,438,888	46,414,803	46,994,580	47,789,068
Commercial Therms	28,972,710	29,551,451	30,126,909	30,838,309	31,277,999	31,860,848	32,441,910	33,174,830	33,615,258	34,205,690
Industrial Therms	2,730,426	2,756,956	2,782,009	2,811,489	2,823,921	2,842,759	2,860,313	2,884,960	2,892,046	2,906,435
Ind., Inst., & Cmcl. Interrup. Therms	3,455,614	3,495,261	3,532,985	3,574,102	3,603,010	3,636,357	3,667,635	3,704,317	3,727,688	3,756,124
Total Core Therms	76,222,198	77,565,730	78,915,073	80,610,438	81,636,485	83,019,329	84,408,746	86,178,911	87,229,572	88,657,317
Daily Baseload Therms	50,144	51,057	51,972	52,885	53,806	54,736	55,668	56,609	57,555	58,508
Peak Day Therms	980,958	997,806	1,014,732	1,031,734	1,048,881	1,066,232	1,083,668	1,101,306	1,119,065	1,136,978
Therms Per Residential Customer	11,110	11,110	11,110	11,155	11,110	11,110	11,110	11,155	11,110	11,110
Therms Per Commercial Customer	62,670	62,670	62,670	62,943	62,670	62,670	62,670	62,943	62,670	62,670
Therms Per Industrial Customer	220,582	220,582	220,582	221,122	220,582	220,582	220,582	221,122	220,582	220,582
Residential Customers	60,792	61,741	62,707	63,688	64,685	65,698	66,727	67,772	68,831	69,905
Commercial Customers	10,116	10,317	10,517	10,716	10,917	11,119	11,321	11,524	11,728	11,933
Industrial Customers	129	130	131	132	132	133	134	135	135	136
Interruptible Customers	18	18	18	18	18	19	19	19	19	19
Total Core Customers	71,054	72,206	73,373	74,554	75,753	76,969	78,201	79,450	80,714	81,992

Washington	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.36%	1.33%	1.73%	0.87%	1.28%	1.26%	1.68%	0.82%	1.23%
Residential Therms	121,110,240	122,520,138	123,945,506	125,948,210	126,838,433	128,305,889	129,786,229	131,869,648	132,783,422	134,294,892
Commercial Therms	86,086,837	87,516,949	88,922,475	90,689,825	91,695,757	93,080,287	94,467,095	96,257,961	97,255,234	98,657,704
Industrial Therms	13,208,088	13,331,680	13,443,926	13,582,700	13,638,590	13,724,350	13,803,018	13,914,786	13,945,451	14,010,007
Ind., Inst., & Cmcl. Interrup. Therms	12,009,786	12,208,461	12,404,806	12,633,658	12,792,849	12,986,055	13,178,231	13,405,864	13,562,164	13,753,740
Total Core Therms	232,414,950	235,577,228	238,716,713	242,854,393	244,965,630	248,096,580	251,234,573	255,448,260	257,546,271	260,716,343
Daily Baseload Therms	181,135	183,661	186,154	188,626	191,085	193,542	195,998	198,455	200,918	203,383
Peak Day Therms	2,587,203	2,622,523	2,657,647	2,692,673	2,727,694	2,762,843	2,798,098	2,833,523	2,869,091	2,904,773
Therms Per Residential Customer	34,918	34,918	34,917	35,049	34,916	34,916	34,915	35,047	34,914	34,914
Therms Per Commercial Customer	138,454	138,443	138,432	138,835	138,412	138,403	138,394	138,798	138,377	138,369
Therms Per Industrial Customer	1,027,359	1,027,271	1,027,189	1,029,446	1,027,041	1,026,973	1,026,909	1,029,181	1,026,788	1,026,731
Residential Customers	183,385	185,499	187,637	189,795	191,974	194,173	196,392	198,630	200,882	203,146
Commercial Customers	26,125	26,562	26,991	27,415	27,836	28,259	28,681	29,106	29,532	29,959
Industrial Customers	453	457	461	464	467	469	471	473	475	477
Interruptible Customers	97	99	100	102	103	105	106	108	109	111
Total Core Customers	210,061	212,617	215,188	217,775	220,380	223,006	225,651	228,317	230,999	233,694

System	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.46%	1.43%	1.84%	0.97%	1.38%	1.37%	1.78%	0.92%	1.33%
Residential Therms	162,173,688	164,282,201	166,418,676	169,334,747	170,769,987	172,985,253	175,225,117	178,284,452	179,778,001	182,083,960
Commercial Therms	115,059,547	117,068,399	119,049,384	121,528,134	122,973,757	124,941,136	126,909,005	129,432,792	130,870,492	132,863,393
Industrial Therms	15,938,513	16,088,636	16,225,935	16,394,190	16,462,511	16,567,109	16,663,331	16,799,746	16,837,497	16,916,442
Ind., Inst., & Cmcl. Interrup. Therms	15,465,400	15,703,721	15,937,790	16,207,760	16,395,860	16,622,412	16,845,866	17,110,181	17,289,852	17,509,864
Total Core Therms	308,637,148	313,142,958	317,631,786	323,464,831	326,602,114	331,115,909	335,643,319	341,627,171	344,775,842	349,373,660
Daily Baseload Therms	231,279	234,718	238,126	241,511	244,891	248,278	251,666	255,064	258,473	261,891
Peak Day Therms	3,568,161	3,620,329	3,672,379	3,724,407	3,776,574	3,829,075	3,881,766	3,934,829	3,988,155	4,041,751
Therms Per Residential Customer	46,028	46,027	46,027	46,204	46,026	46,025	46,025	46,202	46,024	46,024
Therms Per Commercial Customer	201,124	201,112	201,102	201,777	201,082	201,072	201,063	201,741	201,047	201,038
Therms Per Industrial Customer	1,247,941	1,247,853	1,247,771	1,250,568	1,247,623	1,247,555	1,247,491	1,250,303	1,247,370	1,247,314
Residential Customers	244,177	247,240	250,343	253,483	256,659	259,872	263,119	266,402	269,714	273,051
Commercial Customers	36,241	36,879	37,508	38,131	38,753	39,378	40,002	40,630	41,260	41,892
Industrial Customers	582	587	591	595	599	602	605	608	610	613
Interruptible Customers	115	116	118	120	122	123	125	127	128	130
Total Core Customers	281,115	284,823	288,561	292,330	296,133	299,975	303,851	307,767	311,712	315,686

Athena	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.74%	1.21%	0.22%	0.70%	0.68%	1.15%	0.16%	0.62%	0.60%	1.08%
Residential Therms	281,522	284,511	284,772	286,369	287,923	290,809	290,874	292,278	293,635	296,361
Commercial Therms	142,560	144,693	145,396	146,803	148,202	150,334	150,959	152,280	153,603	155,693
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	424,082	429,204	430,168	433,172	436,125	441,143	441,832	444,558	447,238	452,054
Daily Baseload Therms	459	462	465	468	471	474	477	480	482	485
Peak Day Therms	5,175	5,212	5,250	5,287	5,324	5,360	5,395	5,429	5,462	5,494
Therms Per Residential Customer	521	524	521	521	521	524	521	521	521	524
Therms Per Commercial Customer	1,964	1,974	1,964	1,964	1,964	1,974	1,964	1,964	1,964	1,974
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	540	543	546	549	552	555	558	560	563	566
Commercial Customers	73	73	74	75	75	76	77	78	78	79
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	612	616	620	624	628	631	635	638	641	644

Baker	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.41%	0.86%	-0.06%	0.36%	0.40%	0.80%	-0.14%	0.31%	0.31%	0.74%
Residential Therms	2,192,180	2,207,901	2,202,211	2,206,831	2,211,186	2,225,540	2,218,314	2,221,349	2,223,857	2,236,813
Commercial Therms	1,700,141	1,718,995	1,722,626	1,732,858	1,744,690	1,762,904	1,764,755	1,774,802	1,785,171	1,802,847
Industrial Therms	70,899	70,568	70,347	70,071	69,740	69,464	69,133	68,802	68,526	68,195
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	3,963,220	3,997,464	3,995,184	4,009,760	4,025,616	4,057,909	4,052,202	4,064,954	4,077,554	4,107,855
Daily Baseload Therms	1,713	1,719	1,726	1,732	1,738	1,744	1,749	1,755	1,760	1,765
Peak Day Therms	45,241	45,419	45,600	45,764	45,942	46,094	46,239	46,382	46,522	46,649
Therms Per Residential Customer	655	658	655	655	655	658	655	655	655	658
Therms Per Commercial Customer	3,127	3,141	3,127	3,127	3,127	3,141	3,127	3,127	3,127	3,141
Therms Per Industrial Customer	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523
Residential Customers	3,348	3,356	3,364	3,371	3,377	3,383	3,388	3,393	3,397	3,400
Commercial Customers	544	547	551	554	558	561	564	568	571	574
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,895	3,906	3,918	3,928	3,938	3,947	3,956	3,963	3,971	3,977

Umatilla	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.72%	0.96%	0.39%	0.61%	0.62%	0.84%	0.30%	0.52%	0.46%	0.78%
Residential Therms	307,300	310,637	310,872	312,632	314,340	317,570	317,589	319,136	320,628	323,684
Commercial Therms	308,974	313,408	314,990	317,694	320,712	325,081	326,494	329,183	331,683	336,053
Industrial Therms	77,271	77,709	78,141	78,573	79,005	79,403	79,794	80,159	80,516	80,901
Ind., Inst., & Cmcl. Interrup. Therms	636,903	641,521	644,506	647,792	651,079	654,584	656,932	659,499	661,551	664,558
Total Core Therms	1,330,447	1,343,276	1,348,508	1,356,691	1,365,136	1,376,637	1,380,809	1,387,977	1,394,378	1,405,196
Daily Baseload Therms	1,320	1,328	1,337	1,345	1,354	1,361	1,369	1,376	1,382	1,389
Peak Day Therms	18,477	18,600	18,725	18,836	18,951	19,054	19,164	19,262	19,348	19,438
Therms Per Residential Customer	274	276	274	274	274	276	274	274	274	276
Therms Per Commercial Customer	1,686	1,694	1,686	1,686	1,686	1,694	1,686	1,686	1,686	1,694
Therms Per Industrial Customer	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970
Residential Customers	1,120	1,127	1,133	1,140	1,146	1,152	1,158	1,163	1,169	1,174
Commercial Customers	183	185	187	188	190	192	194	195	197	198
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	1,314	1,322	1,330	1,338	1,346	1,354	1,362	1,369	1,376	1,383

Chemult	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.39%	0.72%	0.01%	0.36%	0.31%	0.67%	-0.05%	0.27%	0.26%	0.57%
Residential Therms	10,410	10,483	10,483	10,518	10,551	10,618	10,611	10,638	10,663	10,724
Commercial Therms	39,515	39,803	39,811	39,954	40,080	40,350	40,330	40,438	40,545	40,777
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	49,926	50,286	50,293	50,473	50,631	50,968	50,941	51,077	51,209	51,500
Daily Baseload Therms	57	58	58	58	58	58	58	59	59	59
Peak Day Therms	610	613	615	617	619	621	623	625	626	628
Therms Per Residential Customer	399	400	399	399	399	400	399	399	399	400
Therms Per Commercial Customer	1,781	1,787	1,781	1,781	1,781	1,787	1,781	1,781	1,781	1,787
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	26	26	26	26	26	27	27	27	27	27
Commercial Customers	22	22	22	22	23	23	23	23	23	23
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	48	48	49	49	49	49	49	49	49	50

Gilchrist	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.28%	0.71%	-0.21%	0.24%	0.19%	0.65%	-0.29%	0.14%	0.12%	0.54%
Residential Therms	100,136	100,934	100,833	101,171	101,489	102,239	102,067	102,327	102,569	103,251
Commercial Therms	132,782	133,643	133,262	133,480	133,618	134,389	133,881	133,947	133,996	134,600
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	232,918	234,577	234,095	234,652	235,106	236,628	235,948	236,275	236,565	237,851
Daily Baseload Therms	102	103	103	103	103	104	104	104	104	104
Peak Day Therms	3,114	3,122	3,130	3,137	3,143	3,149	3,154	3,159	3,163	3,166
Therms Per Residential Customer	527	530	527	527	527	530	527	527	527	530
Therms Per Commercial Customer	3,236	3,251	3,236	3,236	3,236	3,251	3,236	3,236	3,236	3,251
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	190	191	191	192	192	193	194	194	195	195
Commercial Customers	41	41	41	41	41	41	41	41	41	41
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	231	232	232	233	234	234	235	235	236	236

Hermiston	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.00%	1.44%	0.51%	0.95%	0.94%	1.38%	0.44%	0.88%	0.86%	1.31%
Residential Therms	2,486,986	2,513,764	2,515,691	2,529,804	2,543,528	2,569,411	2,569,597	2,582,002	2,593,987	2,618,464
Commercial Therms	3,033,632	3,087,614	3,115,212	3,155,907	3,196,878	3,251,738	3,278,424	3,318,550	3,358,532	3,413,707
Industrial Therms	190,144	190,410	190,630	190,851	190,988	191,125	191,208	191,239	191,246	191,231
Ind., Inst., & Cmcl. Interrup. Therms	339,800	345,694	347,218	350,941	354,600	360,620	361,919	365,452	368,984	374,908
Total Core Therms	6,050,561	6,137,482	6,168,751	6,227,503	6,285,994	6,372,894	6,401,148	6,457,243	6,512,750	6,598,310
Daily Baseload Therms	4,953	5,005	5,057	5,109	5,161	5,213	5,264	5,314	5,364	5,414
Peak Day Therms	80,823	81,579	82,342	83,097	83,847	84,587	85,322	86,039	86,748	87,454
Therms Per Residential Customer	646	649	646	646	646	649	646	646	646	649
Therms Per Commercial Customer	3,623	3,639	3,623	3,623	3,623	3,639	3,623	3,623	3,623	3,639
Therms Per Industrial Customer	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585
Residential Customers	3,849	3,871	3,893	3,915	3,936	3,957	3,977	3,996	4,015	4,033
Commercial Customers	837	848	860	871	882	894	905	916	927	938
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,698	4,732	4,765	4,799	4,831	4,863	4,894	4,924	4,954	4,983

Huntington	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.27%	0.84%	-0.26%	0.23%	0.27%	0.80%	-0.38%	0.21%	0.16%	0.72%
Residential Therms	53,192	53,608	53,435	53,547	53,653	54,036	53,826	53,899	53,960	54,310
Commercial Therms	29,709	29,992	29,946	30,026	30,145	30,430	30,323	30,425	30,500	30,755
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	82,900	83,599	83,381	83,573	83,798	84,466	84,148	84,324	84,461	85,065
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	1,286	1,290	1,293	1,296	1,300	1,303	1,305	1,308	1,310	1,312
Therms Per Residential Customer	408	410	408	408	408	410	408	408	408	410
Therms Per Commercial Customer	1,853	1,863	1,853	1,853	1,853	1,863	1,853	1,853	1,853	1,863
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	130	131	131	131	131	132	132	132	132	132
Commercial Customers	16	16	16	16	16	16	16	16	16	17
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	146	147	147	147	148	148	148	148	149	149

La Pine	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.17%	2.48%	1.79%	2.10%	2.08%	2.39%	1.70%	2.01%	2.00%	2.31%
Residential Therms	151,479	154,590	157,747	160,950	164,179	167,432	170,713	174,020	177,351	180,710
Commercial Therms	444,631	456,291	464,053	473,916	483,904	496,150	504,132	514,412	524,819	537,682
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	596,109	610,881	621,800	634,866	648,083	663,582	674,846	688,432	702,170	718,393
Daily Baseload Therms	509	520	531	542	553	564	576	587	599	610
Peak Day Therms	7,045	7,196	7,349	7,503	7,659	7,816	7,975	8,135	8,297	8,461
Therms Per Residential Customer	579	579	579	579	579	579	579	579	579	579
Therms Per Commercial Customer	2,645	2,657	2,645	2,645	2,645	2,657	2,645	2,645	2,645	2,657
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	262	267	272	278	284	289	295	301	306	312
Commercial Customers	168	172	175	179	183	187	191	194	198	202
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	430	439	448	457	466	476	485	495	505	514

Madras	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.96%	1.40%	0.52%	0.93%	0.93%	1.33%	0.47%	0.86%	0.83%	1.27%
Residential Therms	665,059	674,386	677,291	683,368	689,338	698,516	700,963	706,590	712,138	720,974
Commercial Therms	1,251,263	1,272,641	1,282,560	1,297,693	1,313,631	1,335,543	1,344,987	1,360,398	1,375,570	1,397,538
Industrial Therms	700,641	705,836	703,541	705,281	706,441	711,081	708,761	709,921	710,501	715,161
Ind., Inst., & Cmcl. Interrup. Therms	319,738	324,888	329,928	334,859	339,790	344,611	349,432	354,034	358,637	363,129
Total Core Therms	2,936,700	2,977,751	2,993,320	3,021,200	3,049,200	3,089,751	3,104,143	3,130,943	3,156,845	3,196,802
Daily Baseload Therms	1,385	1,402	1,418	1,433	1,449	1,465	1,481	1,496	1,511	1,527
Peak Day Therms	39,027	39,400	39,762	40,124	40,487	40,846	41,198	41,544	41,879	42,225
Therms Per Residential Customer	517	520	517	517	517	520	517	517	517	520
Therms Per Commercial Customer	2,887	2,900	2,887	2,887	2,887	2,900	2,887	2,887	2,887	2,900
Therms Per Industrial Customer	38,109	38,297	38,109	38,109	38,109	38,297	38,109	38,109	38,109	38,297
Residential Customers	1,285	1,297	1,309	1,321	1,332	1,343	1,355	1,365	1,376	1,387
Commercial Customers	433	439	444	449	455	461	466	471	476	482
Industrial Customers	18	18	18	19	19	19	19	19	19	19
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,738	1,756	1,773	1,790	1,807	1,824	1,840	1,857	1,873	1,889

Milton-Freewater	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.99%	1.41%	0.52%	0.95%	0.94%	1.38%	0.46%	0.88%	0.87%	1.32%
Residential Therms	114,194	115,471	115,512	116,160	116,790	118,027	117,987	118,557	119,107	120,281
Commercial Therms	355,750	361,483	364,051	368,229	372,431	378,326	380,812	384,908	389,023	394,950
Industrial Therms	24,256	24,229	24,201	24,174	24,133	24,091	24,043	23,988	23,933	23,878
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	494,200	501,183	503,764	508,563	513,353	520,445	522,842	527,453	532,063	539,109
Daily Baseload Therms	490	495	500	505	510	514	519	524	529	534
Peak Day Therms	6,478	6,538	6,599	6,660	6,720	6,780	6,840	6,898	6,956	7,013
Therms Per Residential Customer	466	469	466	466	466	469	466	466	466	469
Therms Per Commercial Customer	3,056	3,070	3,056	3,056	3,056	3,070	3,056	3,056	3,056	3,070
Therms Per Industrial Customer	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072
Residential Customers	245	246	248	249	250	252	253	254	255	256
Commercial Customers	116	118	119	120	122	123	125	126	127	129
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	367	370	373	375	378	381	383	386	389	391

Mission Tap	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.22%	1.61%	0.74%	1.17%	1.16%	1.57%	0.68%	1.08%	1.07%	1.50%
Residential Therms	113,346	114,537	114,654	115,298	115,923	117,073	117,111	117,677	118,223	119,308
Commercial Therms	421,277	428,718	432,605	438,359	444,152	451,821	455,638	461,276	466,898	474,569
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	534,623	543,255	547,260	553,657	560,075	568,894	572,750	578,952	585,121	593,877
Daily Baseload Therms	564	571	578	585	592	599	606	612	619	626
Peak Day Therms	6,398	6,472	6,547	6,623	6,699	6,773	6,848	6,922	6,994	7,067
Therms Per Residential Customer	495	497	495	495	495	497	495	495	495	497
Therms Per Commercial Customer	8,334	8,370	8,334	8,334	8,334	8,370	8,334	8,334	8,334	8,370
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	229	230	232	233	234	235	237	238	239	240
Commercial Customers	51	51	52	53	53	54	55	55	56	57
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	279	281	283	285	287	289	291	293	295	297

Nyssa-Ontario	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.15%	0.54%	-0.30%	0.09%	0.07%	0.44%	-0.40%	-0.02%	-0.02%	0.35%
Residential Therms	1,916,913	1,930,282	1,923,122	1,925,949	1,928,347	1,940,602	1,931,974	1,933,142	1,933,941	1,944,681
Commercial Therms	2,388,450	2,403,558	2,394,095	2,396,026	2,397,574	2,410,383	2,398,343	2,397,838	2,397,911	2,408,694
Industrial Therms	159,262	158,749	158,205	157,600	157,010	156,345	155,664	154,952	154,194	153,496
Ind., Inst., & Cmcl. Interrup. Therms	960,206	961,792	962,432	963,072	963,379	962,997	962,359	961,287	960,138	958,478
Total Core Therms	5,424,832	5,454,381	5,437,853	5,442,647	5,446,310	5,470,328	5,448,340	5,447,219	5,446,184	5,465,349
Daily Baseload Therms	2,047	2,040	2,032	2,023	2,015	2,006	1,996	1,985	1,975	1,965
Peak Day Therms	72,793	72,907	73,003	73,085	73,150	73,188	73,209	73,211	73,212	73,182
Therms Per Residential Customer	518	521	518	518	518	521	518	518	518	521
Therms Per Commercial Customer	2,563	2,576	2,563	2,563	2,563	2,576	2,563	2,563	2,563	2,576
Therms Per Industrial Customer	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186
Residential Customers	3,700	3,706	3,712	3,717	3,722	3,726	3,729	3,731	3,732	3,733
Commercial Customers	932	933	934	935	936	936	936	936	936	935
Industrial Customers	19	19	19	19	19	19	19	19	19	19
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	4,653	4,660	4,667	4,673	4,678	4,682	4,685	4,687	4,689	4,689

Pendleton	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.98%	1.20%	0.69%	0.93%	0.91%	1.14%	0.62%	0.84%	0.82%	1.07%
Residential Therms	1,830,980	1,841,591	1,852,114	1,862,504	1,872,608	1,882,359	1,891,801	1,900,933	1,909,758	1,918,295
Commercial Therms	2,217,910	2,258,407	2,278,129	2,308,275	2,338,549	2,379,902	2,398,894	2,428,541	2,458,106	2,499,658
Industrial Therms	195,293	196,162	194,851	194,629	194,297	195,050	193,578	193,136	192,694	193,326
Ind., Inst., & Cmcl. Interrup. Therms	753,819	761,810	767,955	774,834	781,450	788,752	794,111	800,057	805,936	812,519
Total Core Therms	4,998,002	5,057,970	5,093,049	5,140,242	5,186,905	5,246,063	5,278,384	5,322,668	5,366,494	5,423,797
Daily Baseload Therms	4,442	4,486	4,530	4,573	4,616	4,658	4,699	4,740	4,780	4,819
Peak Day Therms	87,956	88,719	89,485	90,243	90,990	91,722	92,445	93,147	93,839	94,523
Therms Per Residential Customer	352	352	352	352	352	352	352	352	352	352
Therms Per Commercial Customer	2,497	2,509	2,497	2,497	2,497	2,509	2,497	2,497	2,497	2,509
Therms Per Industrial Customer	31,415	31,591	31,415	31,415	31,415	31,591	31,415	31,415	31,415	31,591
Residential Customers	5,205	5,235	5,265	5,295	5,323	5,351	5,378	5,404	5,429	5,453
Commercial Customers	888	900	912	925	937	949	961	973	985	996
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	3	3	3	3	4	4	4	4	4	4
Total Core Customers	6,103	6,145	6,187	6,229	6,270	6,309	6,348	6,386	6,423	6,459

Prineville	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.80%	1.24%	0.36%	0.74%	0.76%	1.20%	0.28%	0.71%	0.69%	1.13%
Residential Therms	1,245,100	1,257,949	1,258,497	1,264,975	1,271,234	1,283,438	1,282,929	1,288,364	1,293,580	1,304,844
Commercial Therms	1,554,205	1,578,149	1,587,665	1,603,084	1,619,170	1,643,309	1,651,675	1,667,637	1,682,905	1,706,425
Industrial Therms	578,971	585,784	589,572	594,603	600,214	607,367	611,155	616,626	622,297	629,732
Ind., Inst., & Cmcl. Interrup. Therms	130,712	130,784	129,577	128,869	128,301	128,220	126,884	126,175	125,466	125,370
Total Core Therms	3,508,988	3,552,666	3,565,311	3,591,530	3,618,920	3,662,333	3,672,643	3,698,802	3,724,249	3,766,372
Daily Baseload Therms	1,483	1,496	1,510	1,522	1,536	1,549	1,562	1,575	1,587	1,600
Peak Day Therms	47,994	48,370	48,752	49,105	49,474	49,840	50,196	50,548	50,890	51,232
Therms Per Residential Customer	500	502	500	500	500	502	500	500	500	502
Therms Per Commercial Customer	2,672	2,685	2,672	2,672	2,672	2,685	2,672	2,672	2,672	2,685
Therms Per Industrial Customer	17,698	17,747	17,698	17,698	17,698	17,747	17,698	17,698	17,698	17,747
Residential Customers	2,491	2,504	2,517	2,530	2,543	2,555	2,566	2,577	2,588	2,598
Commercial Customers	582	588	594	600	606	612	618	624	630	636
Industrial Customers	33	33	33	34	34	34	35	35	35	35
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	3,107	3,127	3,147	3,166	3,185	3,203	3,221	3,238	3,255	3,271

Redmond	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.03%	2.47%	1.55%	1.98%	1.97%	2.40%	1.47%	1.90%	1.89%	2.32%
Residential Therms	5,195,211	5,326,488	5,410,187	5,520,035	5,630,766	5,768,967	5,854,879	5,968,284	6,082,549	6,226,463
Commercial Therms	3,986,784	4,095,258	4,167,254	4,259,042	4,352,092	4,466,554	4,541,007	4,637,227	4,734,802	4,855,808
Industrial Therms	567,766	574,322	577,021	581,485	585,973	592,348	594,737	599,038	603,375	609,604
Ind., Inst., & Cmcl. Interrup. Therms	254,268	254,865	255,383	255,822	256,260	256,658	256,977	257,256	257,535	257,734
Total Core Therms	10,004,028	10,250,934	10,409,845	10,616,384	10,825,090	11,084,527	11,247,600	11,461,805	11,678,260	11,949,609
Daily Baseload Therms	5,768	5,869	5,971	6,074	6,178	6,282	6,387	6,493	6,600	6,708
Peak Day Therms	129,774	132,448	135,157	137,899	140,670	143,463	146,282	149,128	152,004	154,905
Therms Per Residential Customer	612	615	612	612	612	615	612	612	612	615
Therms Per Commercial Customer	2,636	2,648	2,636	2,636	2,636	2,648	2,636	2,636	2,636	2,648
Therms Per Industrial Customer	38,749	38,877	38,749	38,749	38,749	38,877	38,749	38,749	38,749	38,877
Residential Customers	8,483	8,658	8,835	9,014	9,195	9,377	9,561	9,746	9,932	10,121
Commercial Customers	1,512	1,546	1,581	1,616	1,651	1,687	1,723	1,759	1,796	1,834
Industrial Customers	15	15	15	15	15	15	15	15	16	16
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	10,012	10,220	10,431	10,646	10,862	11,080	11,300	11,521	11,745	11,971

Stanfield	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.77%	0.90%	0.58%	0.73%	0.71%	0.85%	0.51%	0.64%	0.63%	0.78%
Residential Therms	131,690	132,453	133,210	133,957	134,684	135,385	136,065	136,721	137,356	137,970
Commercial Therms	77,772	78,901	79,372	80,169	80,967	82,106	82,529	83,277	84,026	85,132
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	209,462	211,355	212,582	214,126	215,652	217,491	218,594	219,998	221,382	223,102
Daily Baseload Therms	268	270	272	274	276	278	280	281	283	285
Peak Day Therms	3,207	3,230	3,253	3,276	3,298	3,320	3,341	3,362	3,382	3,402
Therms Per Residential Customer	400	400	400	400	400	400	400	400	400	400
Therms Per Commercial Customer	1,937	1,945	1,937	1,937	1,937	1,945	1,937	1,937	1,937	1,945
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	330	331	333	335	337	339	341	342	344	345
Commercial Customers	40	41	41	41	42	42	43	43	43	44
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	370	372	374	377	379	381	383	385	387	389

Stearns (Sunriver)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.09%	2.51%	1.62%	2.04%	2.02%	2.43%	1.53%	1.95%	1.93%	2.35%
Residential Therms	4,329,540	4,438,753	4,508,695	4,600,239	4,692,520	4,807,486	4,879,289	4,973,797	5,069,022	5,188,735
Commercial Therms	1,416,577	1,451,954	1,477,342	1,508,154	1,539,323	1,576,322	1,602,320	1,634,292	1,666,640	1,705,251
Industrial Therms	20,024	20,184	20,341	20,495	20,650	20,803	20,952	21,099	21,246	21,387
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	5,766,141	5,910,891	6,006,378	6,128,888	6,252,493	6,404,611	6,502,560	6,629,188	6,756,909	6,915,373
Daily Baseload Therms	4,779	4,879	4,980	5,082	5,186	5,290	5,394	5,500	5,607	5,715
Peak Day Therms	66,806	68,184	69,582	70,998	72,427	73,866	75,317	76,780	78,256	79,742
Therms Per Residential Customer	957	962	957	957	957	962	957	957	957	962
Therms Per Commercial Customer	4,833	4,850	4,833	4,833	4,833	4,850	4,833	4,833	4,833	4,850
Therms Per Industrial Customer	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886
Residential Customers	4,523	4,616	4,710	4,806	4,902	4,999	5,097	5,196	5,295	5,396
Commercial Customers	293	299	306	312	319	325	332	338	345	352
Industrial Customers	3	3	3	3	4	4	4	4	4	4
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	4,819	4,919	5,019	5,121	5,224	5,328	5,432	5,538	5,644	5,751

Pronghorn	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.14%	2.51%	1.70%	2.08%	2.06%	2.43%	1.61%	1.99%	1.97%	2.35%
Residential Therms	379,368	388,731	395,066	403,087	411,173	421,024	427,539	435,820	444,164	454,412
Commercial Therms	273,783	280,846	285,915	292,076	298,314	305,728	310,948	317,369	323,872	331,651
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	653,151	669,577	680,981	695,164	709,488	726,752	738,486	753,189	768,035	786,063
Daily Baseload Therms	878	897	916	935	954	974	993	1,013	1,033	1,053
Peak Day Therms	6,252	6,383	6,517	6,652	6,789	6,926	7,065	7,205	7,346	7,489
Therms Per Residential Customer	1,503	1,509	1,503	1,503	1,503	1,509	1,503	1,503	1,503	1,509
Therms Per Commercial Customer	8,544	8,576	8,544	8,544	8,544	8,576	8,544	8,544	8,544	8,576
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	252	258	263	268	274	279	285	290	296	301
Commercial Customers	32	33	33	34	35	36	36	37	38	39
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	285	290	296	302	309	315	321	327	334	340

Bend Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.10%	2.53%	1.62%	2.05%	2.03%	2.45%	1.54%	1.96%	1.95%	2.37%
Residential Therms	27,089,216	27,769,851	28,210,160	28,782,936	29,360,318	30,076,730	30,528,903	31,120,226	31,716,034	32,461,905
Commercial Therms	15,023,048	15,418,577	15,684,559	16,020,431	16,360,649	16,776,573	17,050,860	17,402,097	17,758,367	18,197,149
Industrial Therms	336,289	337,985	339,610	341,154	342,715	344,239	345,680	347,091	348,512	349,844
Ind., Inst., & Cmcl. Interrup. Therms	387,695	393,908	397,665	402,723	407,909	414,479	418,512	423,944	429,521	436,533
Total Core Therms	42,836,248	43,920,321	44,631,994	45,547,244	46,471,592	47,612,021	48,343,954	49,293,357	50,252,434	51,445,430
Daily Baseload Therms	28,251	28,836	29,429	30,029	30,635	31,247	31,864	32,487	33,117	33,752
Peak Day Therms	526,577	537,545	548,663	559,922	571,291	582,752	594,319	605,994	617,786	629,681
Therms Per Residential Customer	779	782	779	779	779	782	779	779	779	782
Therms Per Commercial Customer	2,795	2,808	2,795	2,795	2,795	2,808	2,795	2,795	2,795	2,808
Therms Per Industrial Customer	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391
Residential Customers	34,783	35,497	36,222	36,958	37,699	38,446	39,200	39,959	40,724	41,495
Commercial Customers	5,374	5,492	5,611	5,731	5,853	5,975	6,099	6,225	6,353	6,481
Industrial Customers	16	17	17	17	17	17	17	17	17	17
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	40,177	41,009	41,853	42,709	43,572	44,442	45,320	46,205	47,098	47,998

McCleary (Aberdeen/Hoquiam)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.63%	1.04%	0.17%	0.59%	0.56%	0.99%	0.10%	0.52%	0.50%	0.90%
Residential Therms	2,676,187	2,700,970	2,700,795	2,712,816	2,724,340	2,747,992	2,745,935	2,755,969	2,765,579	2,787,533
Commercial Therms	2,707,463	2,740,870	2,750,704	2,772,486	2,793,611	2,827,064	2,835,609	2,856,252	2,876,802	2,909,175
Industrial Therms	222,972	222,959	221,048	220,000	218,905	218,730	216,646	215,532	214,342	214,034
Ind., Inst., & Cmcl. Interrup. Therms	1,041,570	1,052,667	1,056,633	1,063,570	1,070,188	1,080,363	1,082,750	1,088,646	1,094,271	1,103,025
Total Core Therms	6,648,192	6,717,467	6,729,181	6,768,872	6,807,045	6,874,149	6,880,940	6,916,400	6,950,993	7,013,767
Daily Baseload Therms	6,533	6,574	6,615	6,655	6,693	6,731	6,767	6,802	6,836	6,868
Peak Day Therms	58,970	59,317	59,662	60,004	60,333	60,658	60,970	61,276	61,575	61,860
Therms Per Residential Customer	724	727	724	724	724	727	724	724	724	727
Therms Per Commercial Customer	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312
Therms Per Industrial Customer	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247
Residential Customers	3,699	3,716	3,733	3,749	3,765	3,780	3,795	3,809	3,822	3,835
Commercial Customers	821	828	834	841	847	854	860	866	872	878
Industrial Customers	14	14	14	14	14	13	13	13	13	13
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,537	4,561	4,584	4,608	4,630	4,652	4,672	4,692	4,712	4,731

Acme	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.32%	1.78%	0.81%	1.27%	1.25%	1.71%	0.73%	1.19%	1.17%	1.63%
Residential Therms	58,206	59,230	59,703	60,458	61,210	62,251	62,705	63,448	64,187	65,231
Commercial Therms	41,837	42,597	42,947	43,500	44,051	44,812	45,144	45,685	46,227	46,987
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	100,043	101,826	102,650	103,957	105,261	107,063	107,849	109,133	110,415	112,218
Daily Baseload Therms	40	40	41	41	42	42	43	43	44	44
Peak Day Therms	1,132	1,147	1,161	1,176	1,191	1,206	1,220	1,235	1,249	1,264
Therms Per Residential Customer	754	757	754	754	754	757	754	754	754	757
Therms Per Commercial Customer	3,878	3,897	3,878	3,878	3,878	3,897	3,878	3,878	3,878	3,897
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	77	78	79	80	81	82	83	84	85	86
Commercial Customers	11	11	11	11	11	11	12	12	12	12
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	88	89	90	91	93	94	95	96	97	98

Arlington	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.14%	1.53%	0.71%	1.10%	1.09%	1.47%	0.65%	1.03%	1.02%	1.41%
Residential Therms	3,942,948	4,007,224	4,039,225	4,087,726	4,135,966	4,200,985	4,231,638	4,279,074	4,326,240	4,391,024
Commercial Therms	2,202,151	2,234,358	2,249,143	2,272,472	2,295,821	2,328,127	2,342,296	2,365,454	2,388,669	2,421,238
Industrial Therms	356,410	359,315	359,496	360,909	362,259	364,883	364,778	365,964	367,105	369,566
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	6,501,509	6,600,898	6,647,864	6,721,106	6,794,045	6,893,996	6,938,712	7,010,491	7,082,015	7,181,829
Daily Baseload Therms	7,588	7,673	7,757	7,842	7,926	8,009	8,093	8,175	8,258	8,340
Peak Day Therms	61,609	62,303	62,998	63,693	64,385	65,073	65,758	66,439	67,118	67,793
Therms Per Residential Customer	731	734	731	731	731	734	731	731	731	734
Therms Per Commercial Customer	3,389	3,402	3,389	3,389	3,389	3,402	3,389	3,389	3,389	3,402
Therms Per Industrial Customer	11,772	11,816	11,772	11,772	11,772	11,816	11,772	11,772	11,772	11,816
Residential Customers	5,395	5,461	5,527	5,593	5,659	5,725	5,790	5,855	5,919	5,984
Commercial Customers	650	657	664	671	678	684	691	698	705	712
Industrial Customers	30	30	31	31	31	31	31	31	31	31
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	6,075	6,148	6,221	6,294	6,367	6,440	6,512	6,584	6,656	6,727

Bremerton (Shelton)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.25%	1.65%	0.80%	1.20%	1.19%	1.59%	0.72%	1.12%	1.10%	1.50%
Residential Therms	24,078,462	24,453,815	24,609,661	24,876,355	25,140,967	25,518,128	25,663,086	25,920,700	26,176,071	26,549,120
Commercial Therms	12,802,820	13,040,737	13,171,140	13,354,241	13,539,503	13,781,193	13,907,353	14,090,077	14,272,902	14,516,041
Industrial Therms	343,003	346,224	349,439	352,562	355,737	358,930	362,065	365,218	368,388	371,510
Ind., Inst., & Cmcl. Interrup. Therms	2,881,580	2,928,682	2,966,765	3,008,745	3,050,229	3,095,819	3,131,236	3,170,622	3,209,353	3,252,380
Total Core Therms	40,105,865	40,769,458	41,097,004	41,591,903	42,086,436	42,754,069	43,063,739	43,546,617	44,026,713	44,689,051
Daily Baseload Therms	31,084	31,486	31,890	32,292	32,694	33,092	33,488	33,880	34,270	34,657
Peak Day Therms	399,675	404,564	409,473	414,367	419,254	424,098	428,908	433,678	438,418	443,127
Therms Per Residential Customer	675	678	675	675	675	678	675	675	675	678
Therms Per Commercial Customer	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	35,679	36,072	36,467	36,862	37,254	37,642	38,027	38,409	38,788	39,163
Commercial Customers	3,540	3,591	3,642	3,692	3,744	3,795	3,845	3,896	3,947	3,997
Industrial Customers	18	18	18	18	19	19	19	19	19	19
Interruptible Customers	12	12	12	13	13	13	13	13	13	14
Total Core Customers	39,249	39,693	40,139	40,585	41,029	41,468	41,905	42,337	42,767	43,193

Castle Rock	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.11%	1.37%	0.80%	1.06%	1.03%	1.31%	0.70%	0.98%	0.94%	1.21%
Residential Therms	33,571	33,799	34,026	34,250	34,468	34,678	34,883	35,081	35,272	35,457
Commercial Therms	143,880	146,078	147,281	148,983	150,662	152,870	153,981	155,629	157,237	159,389
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	177,451	179,877	181,307	183,233	185,129	187,548	188,863	190,710	192,509	194,846
Daily Baseload Therms	202	204	207	209	211	214	216	218	220	223
Peak Day Therms	1,737	1,755	1,774	1,792	1,809	1,827	1,844	1,862	1,878	1,895
Therms Per Residential Customer	472	472	472	472	472	472	472	472	472	472
Therms Per Commercial Customer	2,506	2,514	2,506	2,506	2,506	2,514	2,506	2,506	2,506	2,514
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	71	72	72	73	73	73	74	74	75	75
Commercial Customers	57	58	59	59	60	61	61	62	63	63
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	128	130	131	132	133	134	135	136	137	138

Walla Walla	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.86%	1.31%	0.35%	0.80%	0.77%	1.22%	0.26%	0.70%	0.68%	1.12%
Residential Therms	6,940,885	7,013,976	7,017,271	7,054,606	7,090,547	7,160,392	7,158,029	7,189,678	7,219,932	7,284,922
Commercial Therms	4,847,563	4,920,572	4,946,565	4,995,301	5,042,884	5,114,096	5,135,909	5,180,885	5,225,460	5,292,899
Industrial Therms	89,507	89,711	89,893	90,053	90,191	90,328	90,422	90,536	90,609	90,681
Ind., Inst., & Cmcl. Interrup. Therms	2,042,805	2,078,966	2,098,760	2,126,063	2,152,609	2,187,128	2,204,701	2,229,464	2,253,902	2,286,499
Total Core Therms	13,920,760	14,103,224	14,152,489	14,266,023	14,376,230	14,551,944	14,589,062	14,690,562	14,789,903	14,955,001
Daily Baseload Therms	13,190	13,311	13,429	13,545	13,658	13,769	13,877	13,982	14,084	14,183
Peak Day Therms	190,044	191,562	193,056	194,532	195,964	197,366	198,724	200,039	201,325	202,559
Therms Per Residential Customer	598	601	598	598	598	601	598	598	598	601
Therms Per Commercial Customer	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	11,606	11,670	11,734	11,796	11,856	11,914	11,969	12,022	12,073	12,121
Commercial Customers	1,465	1,480	1,495	1,510	1,524	1,539	1,552	1,566	1,580	1,592
Industrial Customers	16	16	16	16	16	16	16	16	16	16
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	13,091	13,170	13,249	13,326	13,401	13,472	13,542	13,608	13,672	13,734

Deming	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.66%	3.13%	2.16%	2.59%	2.57%	3.01%	2.03%	2.46%	2.42%	2.86%
Residential Therms	15,417	15,690	15,814	16,014	16,213	16,490	16,609	16,806	17,002	17,280
Commercial Therms	89,455	91,819	93,463	95,506	97,571	100,053	101,737	103,843	105,966	108,536
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	100,883	104,677	107,497	110,874	114,320	118,427	121,387	124,972	128,593	132,946
Total Core Therms	205,755	212,186	216,774	222,394	228,104	234,970	239,733	245,621	251,560	258,761
Daily Baseload Therms	127	130	133	136	139	142	145	148	151	155
Peak Day Therms	2,220	2,280	2,342	2,405	2,468	2,533	2,598	2,663	2,729	2,796
Therms Per Residential Customer	527	530	527	527	527	530	527	527	527	530
Therms Per Commercial Customer	5,690	5,713	5,690	5,690	5,690	5,713	5,690	5,690	5,690	5,713
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	29	30	30	30	31	31	32	32	32	33
Commercial Customers	16	16	16	17	17	18	18	18	19	19
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	2	2	2	2	2	2	2	2	2
Total Core Customers	46	47	48	49	50	50	51	52	53	54

Wenatchee	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.30%	1.67%	0.89%	1.24%	1.24%	1.60%	0.81%	1.18%	1.16%	1.53%
Residential Therms	703,689	714,672	719,104	726,830	734,497	745,515	749,598	757,042	764,411	775,285
Commercial Therms	4,026,822	4,099,294	4,137,101	4,191,805	4,247,212	4,320,606	4,357,073	4,411,600	4,466,162	4,539,897
Industrial Therms	377,330	380,555	383,725	386,780	389,851	392,854	395,816	398,715	401,576	404,371
Ind., Inst., & Cmcl. Interrup. Therms	250,136	253,022	255,940	258,826	261,774	264,707	267,655	270,604	273,567	276,531
Total Core Therms	5,357,977	5,447,543	5,495,869	5,564,240	5,633,335	5,723,683	5,770,142	5,837,960	5,905,716	5,996,084
Daily Baseload Therms	5,201	5,269	5,336	5,403	5,470	5,537	5,604	5,670	5,736	5,802
Peak Day Therms	55,386	56,089	56,796	57,494	58,201	58,900	59,599	60,292	60,984	61,673
Therms Per Residential Customer	443	445	443	443	443	445	443	443	443	445
Therms Per Commercial Customer	4,889	4,910	4,889	4,889	4,889	4,910	4,889	4,889	4,889	4,910
Therms Per Industrial Customer	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936
Residential Customers	1,588	1,605	1,623	1,640	1,658	1,675	1,692	1,708	1,725	1,742
Commercial Customers	824	835	846	857	869	880	891	902	914	925
Industrial Customers	16	17	17	17	17	17	17	17	18	18
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	2,432	2,460	2,489	2,518	2,547	2,576	2,604	2,632	2,660	2,688

Finley	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.75%	2.26%	1.16%	1.67%	1.64%	2.15%	1.06%	1.56%	1.54%	2.05%
Residential Therms	16,487	16,850	17,041	17,322	17,604	17,979	18,169	18,452	18,736	19,118
Commercial Therms	104,728	107,103	108,356	110,168	111,973	114,388	115,595	117,400	119,204	121,645
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	121,215	123,953	125,397	127,491	129,577	132,367	133,764	135,852	137,940	140,764
Daily Baseload Therms	47	48	49	49	50	51	52	53	53	54
Peak Day Therms	2,071	2,107	2,143	2,178	2,214	2,250	2,286	2,321	2,357	2,393
Therms Per Residential Customer	520	523	520	520	520	523	520	520	520	523
Therms Per Commercial Customer	6,295	6,328	6,295	6,295	6,295	6,328	6,295	6,295	6,295	6,328
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	32	32	33	33	34	34	35	35	36	37
Commercial Customers	17	17	17	18	18	18	18	19	19	19
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	48	49	50	51	52	52	53	54	55	56

Grandview	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.72%	0.71%	0.69%	0.68%	0.66%	0.64%	0.62%	0.60%	0.58%	0.56%
Residential Therms	732,844	737,132	741,365	745,538	749,564	753,438	757,167	760,749	764,186	767,490
Commercial Therms	917,977	928,198	938,357	948,447	958,471	968,351	978,103	987,735	997,312	1,006,668
Industrial Therms	744,271	746,751	749,112	751,337	753,408	755,378	757,253	759,035	760,680	762,231
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	2,395,092	2,412,080	2,428,834	2,445,322	2,461,444	2,477,167	2,492,523	2,507,518	2,522,178	2,536,389
Daily Baseload Therms	1,630	1,639	1,648	1,656	1,664	1,672	1,680	1,688	1,695	1,702
Peak Day Therms	28,522	28,752	28,979	29,204	29,424	29,640	29,851	30,058	30,261	30,458
Therms Per Residential Customer	714	714	714	714	714	714	714	714	714	714
Therms Per Commercial Customer	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234
Therms Per Industrial Customer	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682
Residential Customers	1,026	1,032	1,038	1,044	1,050	1,055	1,060	1,065	1,070	1,075
Commercial Customers	217	219	222	224	226	229	231	233	236	238
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	1,252	1,260	1,268	1,277	1,285	1,292	1,300	1,307	1,314	1,321

Zillah (Toppenish)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.87%	1.27%	0.42%	0.82%	0.80%	1.19%	0.34%	0.73%	0.71%	1.11%
Residential Therms	1,106,710	1,118,691	1,119,578	1,125,881	1,131,961	1,143,438	1,143,442	1,148,851	1,154,042	1,164,763
Commercial Therms	2,281,647	2,317,752	2,332,454	2,357,537	2,382,392	2,417,915	2,430,918	2,454,631	2,478,109	2,512,525
Industrial Therms	443,501	444,291	444,998	445,623	446,162	446,625	447,034	447,391	447,667	447,886
Ind., Inst., & Cmcl. Interrup. Therms	53,714	54,138	54,556	54,967	55,366	55,764	56,153	56,534	56,907	57,273
Total Core Therms	3,885,572	3,934,872	3,951,587	3,984,007	4,015,881	4,063,741	4,077,547	4,107,407	4,136,725	4,182,447
Daily Baseload Therms	3,292	3,315	3,337	3,358	3,380	3,400	3,420	3,440	3,459	3,478
Peak Day Therms	46,150	46,531	46,907	47,279	47,644	48,001	48,349	48,690	49,025	49,350
Therms Per Residential Customer	538	541	538	538	538	541	538	538	538	541
Therms Per Commercial Customer	3,861	3,879	3,861	3,861	3,861	3,879	3,861	3,861	3,861	3,879
Therms Per Industrial Customer	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025
Residential Customers	2,056	2,068	2,080	2,092	2,103	2,114	2,125	2,135	2,144	2,154
Commercial Customers	591	598	604	611	617	623	630	636	642	648
Industrial Customers	23	23	23	23	23	23	23	24	24	24
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,672	2,690	2,709	2,727	2,745	2,762	2,779	2,795	2,811	2,826

Kalama #2	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.17%	0.29%	0.01%	0.13%	0.13%	0.24%	-0.04%	0.08%	0.07%	0.19%
Residential Therms	216,042	217,514	218,972	220,415	221,814	223,170	224,486	225,760	226,992	228,183
Commercial Therms	197,499	199,067	198,921	199,605	200,299	201,835	201,619	202,276	202,898	204,403
Industrial Therms	226,503	225,318	224,100	222,814	221,529	220,175	218,822	217,434	216,013	214,558
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	640,043	641,899	641,993	642,835	643,642	645,181	644,927	645,470	645,903	647,144
Daily Baseload Therms	1,108	1,107	1,106	1,104	1,103	1,101	1,099	1,097	1,095	1,093
Peak Day Therms	5,790	5,805	5,820	5,834	5,848	5,861	5,872	5,884	5,894	5,903
Therms Per Residential Customer	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169
Therms Per Commercial Customer	3,961	3,978	3,961	3,961	3,961	3,978	3,961	3,961	3,961	3,978
Therms Per Industrial Customer	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719
Residential Customers	185	186	187	189	190	191	192	193	194	195
Commercial Customers	50	50	50	50	51	51	51	51	51	51
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	238	239	240	242	243	245	246	247	248	249

Lawrence	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.34%	1.80%	0.84%	1.30%	1.28%	1.74%	0.77%	1.22%	1.21%	1.66%
Residential Therms	50,710	51,595	52,014	52,671	53,326	54,226	54,629	55,276	55,921	56,822
Commercial Therms	24,341	24,814	25,038	25,387	25,739	26,221	26,440	26,791	27,144	27,634
Industrial Therms	756	761	766	772	777	782	786	791	795	799
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	75,807	77,170	77,818	78,830	79,842	81,228	81,856	82,858	83,860	85,255
Daily Baseload Therms	36	37	37	37	38	38	39	39	40	40
Peak Day Therms	859	871	882	894	906	917	929	940	951	963
Therms Per Residential Customer	720	724	720	720	720	724	720	720	720	724
Therms Per Commercial Customer	1,189	1,195	1,189	1,189	1,189	1,195	1,189	1,189	1,189	1,195
Therms Per Industrial Customer	671	671	671	671	671	671	671	671	671	671
Residential Customers	70	71	72	73	74	75	76	77	78	79
Commercial Customers	20	21	21	21	22	22	22	23	23	23
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	92	93	94	96	97	98	99	100	102	103

Moxee (Beauchene)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.85%	0.93%	0.74%	0.82%	0.81%	0.88%	0.69%	0.77%	0.76%	0.84%
Residential Therms	354,253	358,040	358,822	361,095	363,327	367,063	367,664	369,771	371,836	375,457
Commercial Therms	662,051	668,654	675,274	681,904	688,481	695,062	701,521	708,071	714,519	721,046
Industrial Therms	311,758	313,972	316,167	318,321	320,472	322,582	324,680	326,737	328,778	330,803
Ind., Inst., & Cmcl. Interrup. Therms	350,517	353,471	356,456	359,384	362,327	365,244	368,132	371,008	373,869	376,730
Total Core Therms	1,678,579	1,694,138	1,706,719	1,720,704	1,734,607	1,749,952	1,761,997	1,775,586	1,789,001	1,804,036
Daily Baseload Therms	777	786	795	804	813	822	831	839	848	857
Peak Day Therms	16,003	16,184	16,366	16,547	16,726	16,904	17,080	17,256	17,429	17,604
Therms Per Residential Customer	196	197	195	195	195	195	194	194	193	194
Therms Per Commercial Customer	1,363	1,358	1,353	1,348	1,344	1,339	1,335	1,331	1,327	1,323
Therms Per Industrial Customer	18,809	18,758	18,708	18,660	18,613	18,567	18,523	18,480	18,438	18,398
Residential Customers	1,807	1,822	1,837	1,852	1,866	1,881	1,895	1,908	1,922	1,935
Commercial Customers	486	492	499	506	512	519	525	532	538	545
Industrial Customers	17	17	17	17	17	17	18	18	18	18
Interruptible Customers	6	6	6	6	6	6	6	6	6	6
Total Core Customers	2,315	2,337	2,359	2,380	2,402	2,423	2,443	2,464	2,484	2,504

Othello	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.58%	0.76%	0.40%	0.56%	0.53%	0.69%	0.33%	0.49%	0.47%	0.63%
Residential Therms	649,055	655,583	655,489	658,645	661,709	667,964	667,408	670,105	672,679	678,528
Commercial Therms	768,156	772,455	776,763	780,950	784,843	788,663	792,439	796,297	799,785	803,122
Industrial Therms	204,101	204,881	205,691	206,370	206,992	207,628	208,192	208,770	209,276	209,854
Ind., Inst., & Cmcl. Interrup. Therms	239,511	241,969	244,465	246,892	249,356	251,746	254,216	256,569	259,002	261,428
Total Core Therms	1,860,822	1,874,888	1,882,408	1,892,858	1,902,901	1,916,001	1,922,256	1,931,741	1,940,741	1,952,932
Daily Baseload Therms	2,750	2,764	2,779	2,792	2,805	2,817	2,830	2,842	2,853	2,864
Peak Day Therms	23,327	23,470	23,613	23,753	23,887	24,017	24,145	24,271	24,391	24,507
Therms Per Residential Customer	562	564	562	561	561	564	561	561	561	564
Therms Per Commercial Customer	2,528	2,527	2,526	2,526	2,525	2,524	2,524	2,523	2,523	2,522
Therms Per Industrial Customer	17,115	17,114	17,113	17,112	17,111	17,110	17,109	17,108	17,107	17,106
Residential Customers	1,156	1,162	1,167	1,173	1,179	1,184	1,189	1,194	1,199	1,203
Commercial Customers	304	306	307	309	311	312	314	316	317	318
Industrial Customers	12	12	12	12	12	12	12	12	12	12
Interruptible Customers	3	3	3	3	3	3	3	3	3	4
Total Core Customers	1,475	1,482	1,490	1,498	1,505	1,512	1,519	1,525	1,532	1,538

North Pasco	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.57%	1.89%	1.21%	1.53%	1.51%	1.82%	1.14%	1.44%	1.42%	1.74%
Residential Therms	3,013,373	3,078,109	3,109,942	3,158,865	3,207,816	3,274,504	3,305,745	3,354,724	3,403,730	3,471,569
Commercial Therms	1,744,095	1,770,512	1,797,071	1,823,687	1,850,431	1,877,172	1,903,927	1,930,462	1,957,142	1,983,923
Industrial Therms	86,114	86,713	87,301	87,878	88,447	89,004	89,541	90,078	90,595	91,113
Ind., Inst., & Cmcl. Interrup. Therms	182,594	185,652	188,760	191,891	195,049	198,243	201,451	204,655	207,885	211,143
Total Core Therms	5,026,176	5,120,987	5,183,074	5,262,320	5,341,742	5,438,923	5,500,664	5,579,919	5,659,352	5,757,748
Daily Baseload Therms	2,523	2,561	2,599	2,637	2,676	2,714	2,753	2,791	2,829	2,867
Peak Day Therms	79,682	80,925	82,179	83,440	84,704	85,968	87,234	88,495	89,760	91,027
Therms Per Residential Customer	1,316	1,323	1,316	1,316	1,316	1,323	1,316	1,316	1,316	1,323
Therms Per Commercial Customer	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178
Therms Per Industrial Customer	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394
Residential Customers	2,289	2,326	2,363	2,400	2,437	2,474	2,512	2,549	2,586	2,623
Commercial Customers	243	247	250	254	258	262	265	269	273	276
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,536	2,576	2,617	2,658	2,699	2,739	2,780	2,821	2,862	2,903

Patterson	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.62%	0.62%	0.58%	0.58%	0.58%	0.54%	0.54%	0.52%	0.52%	0.49%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	9,300	9,346	9,390	9,432	9,474	9,514	9,553	9,591	9,627	9,662
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	221,256	222,633	223,943	225,253	226,563	227,806	229,049	230,258	231,468	232,610
Total Core Therms	230,556	231,979	233,333	234,686	236,037	237,320	238,602	239,850	241,095	242,272
Daily Baseload Therms	285	287	289	291	294	296	297	299	301	303
Peak Day Therms	2,710	2,731	2,750	2,769	2,789	2,807	2,825	2,843	2,861	2,878
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	2,677	2,675	2,673	2,671	2,669	2,668	2,666	2,665	2,663	2,662
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	3	3	4	4	4	4	4	4	4	4
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5	5	5	5	5	5	5	5	5	5

Prosser	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.39%	1.86%	0.90%	1.36%	1.34%	1.81%	0.84%	1.30%	1.29%	1.75%
Residential Therms	282,358	288,517	291,844	296,658	301,480	307,849	311,154	316,001	320,858	327,359
Commercial Therms	525,242	536,511	542,939	551,894	560,896	572,610	579,113	588,261	597,501	609,533
Industrial Therms	164,706	165,330	164,474	164,275	164,043	164,531	163,546	163,248	162,916	163,300
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	972,305	990,357	999,257	1,012,826	1,026,419	1,044,990	1,053,813	1,067,509	1,081,276	1,100,192
Daily Baseload Therms	574	581	588	595	602	609	616	624	631	638
Peak Day Therms	10,823	10,976	11,130	11,284	11,438	11,594	11,750	11,906	12,062	12,219
Therms Per Residential Customer	516	519	516	516	516	519	516	516	516	519
Therms Per Commercial Customer	3,110	3,124	3,110	3,110	3,110	3,124	3,110	3,110	3,110	3,124
Therms Per Industrial Customer	31,722	31,861	31,722	31,722	31,722	31,861	31,722	31,722	31,722	31,861
Residential Customers	547	556	565	574	584	593	603	612	621	631
Commercial Customers	169	172	175	177	180	183	186	189	192	195
Industrial Customers	5	5	5	5	5	5	5	5	5	5
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	721	733	745	757	769	782	794	806	819	831

Quincy	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.17%	1.15%	1.13%	1.11%	1.09%	1.07%	1.04%	1.03%	0.99%	0.99%
Residential Therms	46,712	47,368	48,029	48,695	49,360	50,023	50,685	51,345	52,005	52,663
Commercial Therms	540,658	547,887	555,120	562,376	569,542	576,709	583,704	590,795	597,747	604,767
Industrial Therms	226,949	229,138	231,284	233,399	235,501	237,558	239,600	241,598	243,582	245,536
Ind., Inst., & Cmcl. Interrup. Therms	118,952	119,609	120,267	120,865	121,463	122,002	122,540	123,018	123,437	123,856
Total Core Therms	933,270	944,003	954,701	965,336	975,865	986,291	996,528	1,006,757	1,016,770	1,026,821
Daily Baseload Therms	1,034	1,046	1,058	1,070	1,081	1,093	1,104	1,116	1,127	1,138
Peak Day Therms	10,899	11,026	11,153	11,279	11,404	11,527	11,649	11,771	11,890	12,009
Therms Per Residential Customer	659	659	659	659	659	659	659	659	659	659
Therms Per Commercial Customer	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167
Therms Per Industrial Customer	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756
Residential Customers	71	72	73	74	75	76	77	78	79	80
Commercial Customers	75	76	77	78	79	80	81	82	83	84
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	154	156	158	161	163	165	167	169	171	173

Sunnyside	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.77%	1.15%	0.35%	0.72%	0.70%	1.07%	0.27%	0.64%	0.62%	0.99%
Residential Therms	1,116,349	1,128,380	1,129,329	1,135,687	1,141,820	1,153,341	1,153,401	1,158,857	1,164,093	1,174,852
Commercial Therms	1,686,585	1,711,262	1,720,337	1,736,978	1,753,480	1,777,724	1,785,677	1,801,412	1,817,026	1,840,550
Industrial Therms	587,789	588,929	589,938	590,817	591,564	592,169	592,684	593,100	593,403	593,619
Ind., Inst., & Cmcl. Interrup. Therms	180,772	183,875	185,377	187,665	189,948	193,031	194,419	196,617	198,805	201,822
Total Core Therms	3,571,494	3,612,445	3,624,982	3,651,146	3,676,812	3,716,265	3,726,181	3,749,986	3,773,327	3,810,843
Daily Baseload Therms	3,202	3,222	3,241	3,259	3,277	3,295	3,311	3,328	3,344	3,359
Peak Day Therms	39,205	39,507	39,806	40,100	40,389	40,670	40,945	41,213	41,477	41,732
Therms Per Residential Customer	562	565	562	562	562	565	562	562	562	565
Therms Per Commercial Customer	2,840	2,853	2,840	2,840	2,840	2,853	2,840	2,840	2,840	2,853
Therms Per Industrial Customer	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468
Residential Customers	1,985	1,997	2,008	2,019	2,030	2,041	2,051	2,061	2,070	2,079
Commercial Customers	594	600	606	612	617	623	629	634	640	645
Industrial Customers	17	17	17	17	17	17	17	17	17	17
Interruptible Customers	2	2	2	2	2	3	3	3	3	3
Total Core Customers	2,598	2,616	2,633	2,651	2,667	2,684	2,699	2,715	2,729	2,744

Moses Lake	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.98%	1.35%	0.52%	0.90%	0.89%	1.26%	0.44%	0.82%	0.80%	1.19%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	103,612	104,613	105,585	106,540	107,484	108,399	109,307	110,190	111,062	111,920
Industrial Therms	3,239,965	3,284,029	3,300,795	3,330,404	3,359,918	3,402,667	3,417,332	3,445,232	3,472,753	3,514,539
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	3,343,576	3,388,642	3,406,380	3,436,944	3,467,401	3,511,066	3,526,639	3,555,422	3,583,815	3,626,459
Daily Baseload Therms	3,439	3,472	3,504	3,535	3,567	3,597	3,628	3,657	3,686	3,715
Peak Day Therms	32,018	32,320	32,620	32,912	33,204	33,488	33,771	34,047	34,318	34,588
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929
Therms Per Industrial Customer	399,066	400,714	399,066	399,066	399,066	400,714	399,066	399,066	399,066	400,714
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	6	6	6	6	6	6	6	6	6	6
Industrial Customers	8	8	8	8	8	8	9	9	9	9
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	14	14	14	14	14	15	15	15	15	15

Woodland	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.54%	1.61%	1.45%	1.52%	1.51%	1.58%	1.42%	1.49%	1.48%	1.55%
Residential Therms	464,159	474,265	484,475	494,879	505,387	516,031	526,716	537,536	548,461	559,531
Commercial Therms	867,658	883,383	899,323	915,458	931,845	948,425	965,232	982,232	999,500	1,016,971
Industrial Therms	362,470	363,998	362,745	362,757	362,719	363,936	362,432	362,196	361,891	362,896
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,694,287	1,721,646	1,746,543	1,773,095	1,799,951	1,828,392	1,854,379	1,881,964	1,909,852	1,939,397
Daily Baseload Therms	1,295	1,309	1,324	1,338	1,352	1,366	1,381	1,395	1,410	1,425
Peak Day Therms	19,715	20,051	20,391	20,735	21,084	21,435	21,791	22,151	22,514	22,882
Therms Per Residential Customer	593	593	593	593	593	593	593	593	593	593
Therms Per Commercial Customer	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488
Therms Per Industrial Customer	24,651	24,743	24,651	24,651	24,651	24,743	24,651	24,651	24,651	24,743
Residential Customers	783	800	818	835	853	871	889	907	926	944
Commercial Customers	249	253	258	262	267	272	277	282	287	292
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	1,047	1,068	1,090	1,112	1,135	1,158	1,180	1,204	1,227	1,251

A/M Rendering	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.29%	1.66%	0.90%	1.27%	1.25%	1.60%	0.84%	1.19%	1.17%	1.53%
Residential Therms	498,273	506,523	511,085	517,548	523,985	532,356	536,784	543,143	549,477	557,845
Commercial Therms	4,659	4,752	4,814	4,893	4,972	5,069	5,132	5,213	5,295	5,395
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	502,932	511,275	515,899	522,441	528,957	537,425	541,917	548,356	554,771	563,240
Daily Baseload Therms	820	830	841	852	862	873	883	894	904	915
Peak Day Therms	3,462	3,507	3,551	3,596	3,641	3,686	3,730	3,775	3,819	3,863
Therms Per Residential Customer	14,198	14,251	14,198	14,198	14,198	14,251	14,198	14,198	14,198	14,251
Therms Per Commercial Customer	3,753	3,766	3,753	3,753	3,753	3,766	3,753	3,753	3,753	3,766
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	35	36	36	36	37	37	38	38	39	39
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	36	37	37	38	38	39	39	40	40	41

LDS Church	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.30%	1.79%	0.77%	1.26%	1.25%	1.74%	0.71%	1.20%	1.19%	1.68%
Residential Therms	2,931	2,983	3,006	3,044	3,082	3,135	3,157	3,194	3,232	3,285
Commercial Therms	8,211	8,358	8,422	8,528	8,635	8,785	8,848	8,954	9,062	9,215
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	11,141	11,341	11,428	11,572	11,716	11,920	12,005	12,149	12,293	12,500
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	141	143	145	147	149	150	152	154	156	158
Therms Per Residential Customer	1,253	1,259	1,253	1,253	1,253	1,259	1,253	1,253	1,253	1,259
Therms Per Commercial Customer	6,883	6,917	6,883	6,883	6,883	6,917	6,883	6,883	6,883	6,917
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	3	3	3	3
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	4	4	4	4	4	4	4	4	4	4

Kalama #1	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.69%	0.68%	0.67%	0.66%	0.63%	0.61%	0.59%	0.57%	0.55%	0.52%
Residential Therms	1,049	1,056	1,064	1,071	1,077	1,084	1,090	1,097	1,103	1,108
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,049	1,056	1,064	1,071	1,077	1,084	1,090	1,097	1,103	1,108
Daily Baseload Therms	0	0	1	1	1	1	1	1	1	1
Peak Day Therms	12	12	12	12	12	12	12	12	13	13
Therms Per Residential Customer	320	320	320	320	320	320	320	320	320	320
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	3	3	3	3	3	3	3	3	3	3
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	3	3	3	3	3	3	3

Dehawn Dairy	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.60%	1.05%	0.11%	0.56%	0.54%	0.99%	0.03%	0.47%	0.45%	0.90%
Residential Therms	1,360	1,375	1,376	1,384	1,391	1,405	1,406	1,412	1,419	1,431
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,360	1,375	1,376	1,384	1,391	1,405	1,406	1,412	1,419	1,431
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	16	16	16	16	16	16	16	16	16	16
Therms Per Residential Customer	630	633	630	630	630	633	630	630	630	633
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

Yakima Chief Ranch	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.60%	1.25%	-0.08%	0.56%	0.54%	1.18%	-0.16%	0.47%	0.45%	1.09%
Residential Therms	453	459	459	461	464	469	469	471	473	478
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	453	459	459	461	464	469	469	471	473	478
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	6	6	6	6	6	6	6	7	7	7
Therms Per Residential Customer	210	212	210	210	210	212	210	210	210	212
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

7th Day School	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.65%	1.15%	0.12%	0.61%	0.59%	1.08%	0.04%	0.53%	0.51%	0.99%
Residential Therms	10,717	10,837	10,842	10,903	10,962	11,077	11,073	11,125	11,175	11,283
Commercial Therms	3,896	3,955	3,974	4,013	4,051	4,109	4,125	4,162	4,198	4,254
Industrial Therms	1,878	1,888	1,885	1,888	1,890	1,899	1,894	1,895	1,896	1,903
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	16,491	16,681	16,701	16,803	16,903	17,084	17,092	17,182	17,269	17,441
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	214	216	217	218	220	221	222	224	225	226
Therms Per Residential Customer	903	908	903	903	903	908	903	903	903	908
Therms Per Commercial Customer	3,386	3,404	3,386	3,386	3,386	3,404	3,386	3,386	3,386	3,404
Therms Per Industrial Customer	1,762	1,768	1,762	1,762	1,762	1,768	1,762	1,762	1,762	1,768
Residential Customers	12	12	12	12	12	12	12	12	12	12
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	14	14	14	14	14	14	15	15	15	15

Yakima Training Center	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.08%	1.57%	0.54%	1.02%	1.01%	1.48%	0.45%	0.93%	0.91%	1.39%
Residential Therms	3,569	3,608	3,611	3,631	3,651	3,688	3,688	3,705	3,722	3,757
Commercial Therms	330,787	335,999	337,830	341,296	344,749	349,879	351,464	354,754	357,990	362,992
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	334,356	339,607	341,441	344,927	348,400	353,568	355,152	358,459	361,712	366,749
Daily Baseload Therms	278	281	284	287	290	293	296	298	301	304
Peak Day Therms	4,306	4,352	4,397	4,442	4,487	4,531	4,574	4,616	4,658	4,700
Therms Per Residential Customer	132	133	132	132	132	133	132	132	132	133
Therms Per Commercial Customer	2,968	2,983	2,968	2,968	2,968	2,983	2,968	2,968	2,968	2,983
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	27	27	27	27	28	28	28	28	28	28
Commercial Customers	111	113	114	115	116	117	118	120	121	122
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	138	140	141	142	144	145	146	148	149	150

Burbank Heights Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.35%	1.57%	1.09%	1.31%	1.30%	1.51%	1.02%	1.23%	1.22%	1.44%
Residential Therms	3,522,127	3,564,709	3,607,321	3,650,223	3,692,881	3,735,366	3,777,383	3,819,248	3,860,869	3,902,384
Commercial Therms	2,660,505	2,714,935	2,741,202	2,781,743	2,822,477	2,878,239	2,903,946	2,944,357	2,984,980	3,041,644
Industrial Therms	148,721	149,755	150,771	151,767	152,749	153,712	154,639	155,567	156,459	157,353
Ind., Inst., & Cmcl. Interrup. Therms	252,295	257,652	260,815	265,141	269,505	275,125	278,350	282,777	287,241	293,029
Total Core Therms	6,583,648	6,687,051	6,760,109	6,848,874	6,937,611	7,042,442	7,114,318	7,201,949	7,289,548	7,394,410
Daily Baseload Therms	5,148	5,215	5,283	5,351	5,418	5,486	5,553	5,620	5,687	5,754
Peak Day Therms	99,089	100,419	101,757	103,100	104,442	105,780	107,115	108,441	109,767	111,092
Therms Per Residential Customer	397	397	397	397	397	397	397	397	397	397
Therms Per Commercial Customer	2,679	2,693	2,679	2,679	2,679	2,693	2,679	2,679	2,679	2,693
Therms Per Industrial Customer	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873
Residential Customers	8,877	8,984	9,092	9,200	9,308	9,414	9,521	9,626	9,731	9,835
Commercial Customers	993	1,008	1,023	1,038	1,054	1,069	1,084	1,099	1,114	1,129
Industrial Customers	10	10	10	10	10	10	10	10	11	11
Interruptible Customers	5	5	5	5	5	5	5	5	5	5
Total Core Customers	9,885	10,007	10,130	10,253	10,376	10,498	10,620	10,741	10,861	10,981

East Stanwood Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.34%	1.77%	0.90%	1.32%	1.30%	1.71%	0.83%	1.25%	1.23%	1.65%
Residential Therms	6,175,345	6,276,408	6,321,669	6,395,334	6,468,546	6,570,680	6,613,573	6,685,400	6,756,761	6,858,445
Commercial Therms	3,940,396	4,019,987	4,066,499	4,130,022	4,194,251	4,276,698	4,323,152	4,388,214	4,454,018	4,539,332
Industrial Therms	164,074	166,067	168,116	170,166	172,244	174,322	176,400	178,534	180,669	182,861
Ind., Inst., & Cmcl. Interrup. Therms	508,616	516,454	521,281	527,714	534,115	542,059	546,813	553,166	559,518	567,434
Total Core Therms	10,788,432	10,978,916	11,077,565	11,223,236	11,369,156	11,563,759	11,659,937	11,805,315	11,950,966	12,148,072
Daily Baseload Therms	9,756	9,889	10,023	10,158	10,293	10,429	10,563	10,699	10,835	10,971
Peak Day Therms	107,753	109,179	110,618	112,062	113,507	114,948	116,386	117,825	119,266	120,705
Therms Per Residential Customer	676	679	676	676	676	679	676	676	676	679
Therms Per Commercial Customer	3,501	3,516	3,501	3,501	3,501	3,516	3,501	3,501	3,501	3,516
Therms Per Industrial Customer	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076
Residential Customers	9,141	9,249	9,358	9,467	9,575	9,683	9,790	9,896	10,002	10,107
Commercial Customers	1,125	1,143	1,161	1,180	1,198	1,216	1,235	1,253	1,272	1,291
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	6	6	6	6	6	6	6	6	6	6
Total Core Customers	10,275	10,401	10,528	10,656	10,782	10,908	11,034	11,159	11,284	11,408

Kennewick Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.82%	2.25%	1.34%	1.78%	1.75%	2.18%	1.27%	1.69%	1.68%	2.10%
Residential Therms	11,223,847	11,467,936	11,600,943	11,792,287	11,983,969	12,236,329	12,368,491	12,561,186	12,754,267	13,011,846
Commercial Therms	11,488,222	11,762,662	11,934,952	12,161,754	12,390,395	12,677,490	12,853,462	13,087,219	13,323,818	13,621,820
Industrial Therms	197,326	199,298	201,273	203,235	205,193	207,169	209,149	211,134	213,135	215,157
Ind., Inst., & Cmcl. Interrup. Therms	1,371,093	1,397,251	1,423,704	1,450,404	1,477,286	1,504,444	1,531,750	1,559,242	1,586,989	1,614,847
Total Core Therms	24,280,488	24,827,147	25,160,872	25,607,681	26,056,844	26,625,432	26,962,852	27,418,782	27,878,208	28,463,671
Daily Baseload Therms	21,591	21,984	22,382	22,784	23,188	23,594	24,003	24,414	24,828	25,243
Peak Day Therms	336,268	342,294	348,386	354,536	360,718	366,933	373,180	379,449	385,763	392,094
Therms Per Residential Customer	645	649	645	645	645	649	645	645	645	649
Therms Per Commercial Customer	3,953	3,971	3,953	3,953	3,953	3,971	3,953	3,953	3,953	3,971
Therms Per Industrial Customer	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924
Residential Customers	17,390	17,680	17,974	18,270	18,567	18,865	19,163	19,462	19,761	20,061
Commercial Customers	2,906	2,962	3,019	3,076	3,134	3,193	3,251	3,311	3,370	3,430
Industrial Customers	10	10	10	10	10	10	10	11	11	11
Interruptible Customers	15	15	16	16	16	17	17	17	17	18
Total Core Customers	20,321	20,668	21,019	21,373	21,728	22,085	22,442	22,800	23,160	23,520

Longview South Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.07%	1.48%	0.60%	1.02%	1.00%	1.41%	0.52%	0.94%	0.91%	1.33%
Residential Therms	1,064,719	1,076,767	1,079,161	1,086,273	1,093,166	1,104,770	1,106,337	1,112,614	1,118,683	1,129,581
Commercial Therms	4,091,069	4,153,527	4,181,150	4,226,176	4,270,714	4,333,329	4,358,669	4,402,341	4,445,156	4,506,852
Industrial Therms	219,641	219,463	217,604	216,508	215,405	215,043	213,064	211,862	210,617	210,131
Ind., Inst., & Cmcl. Interrup. Therms	730,023	745,749	754,805	767,213	779,587	795,503	803,828	816,030	827,793	843,685
Total Core Therms	6,105,452	6,195,507	6,232,720	6,296,170	6,358,873	6,448,645	6,481,899	6,542,847	6,602,250	6,690,250
Daily Baseload Therms	5,479	5,534	5,590	5,645	5,699	5,753	5,806	5,859	5,910	5,962
Peak Day Therms	57,576	58,182	58,788	59,392	59,989	60,582	61,160	61,740	62,305	62,871
Therms Per Residential Customer	530	532	530	530	530	532	530	530	530	532
Therms Per Commercial Customer	4,064	4,082	4,064	4,064	4,064	4,082	4,064	4,064	4,064	4,082
Therms Per Industrial Customer	16,733	16,796	16,733	16,733	16,733	16,796	16,733	16,733	16,733	16,796
Residential Customers	2,009	2,022	2,036	2,049	2,062	2,075	2,087	2,099	2,110	2,122
Commercial Customers	1,007	1,018	1,029	1,040	1,051	1,062	1,072	1,083	1,094	1,104
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	7	8	8	8	8	8	8	8	8	9
Total Core Customers	3,036	3,061	3,085	3,110	3,134	3,158	3,181	3,203	3,225	3,247

Sedro-Woolley Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.26%	1.71%	0.79%	1.23%	1.21%	1.66%	0.72%	1.16%	1.15%	1.59%
Residential Therms	18,931,142	19,242,933	19,378,421	19,603,540	19,827,179	20,142,172	20,270,151	20,489,484	20,707,337	21,020,864
Commercial Therms	9,793,550	9,992,401	10,103,794	10,260,050	10,417,123	10,622,610	10,734,176	10,893,560	11,053,871	11,264,935
Industrial Therms	1,191,116	1,198,488	1,196,609	1,198,863	1,201,054	1,207,417	1,204,623	1,206,278	1,207,617	1,213,465
Ind., Inst., & Cmcl. Interrup. Therms	1,325,170	1,341,782	1,346,256	1,356,739	1,367,162	1,383,420	1,387,409	1,397,353	1,407,057	1,423,073
Total Core Therms	31,240,979	31,775,604	32,025,079	32,419,191	32,812,518	33,355,619	33,596,359	33,986,675	34,375,883	34,922,336
Daily Baseload Therms	19,396	19,632	19,869	20,106	20,343	20,579	20,815	21,050	21,285	21,519
Peak Day Therms	334,384	338,595	342,830	347,077	351,316	355,543	359,762	363,968	368,162	372,347
Therms Per Residential Customer	665	668	665	665	665	668	665	665	665	668
Therms Per Commercial Customer	2,499	2,511	2,499	2,499	2,499	2,511	2,499	2,499	2,499	2,511
Therms Per Industrial Customer	13,114	13,163	13,114	13,114	13,114	13,163	13,114	13,114	13,114	13,163
Residential Customers	28,461	28,797	29,134	29,472	29,808	30,142	30,474	30,804	31,132	31,457
Commercial Customers	3,918	3,980	4,043	4,105	4,168	4,231	4,295	4,359	4,423	4,487
Industrial Customers	91	91	91	91	92	92	92	92	92	92
Interruptible Customers	11	11	12	12	12	12	12	12	12	12
Total Core Customers	32,482	32,879	33,279	33,680	34,080	34,477	34,873	35,267	35,659	36,049

Sumas SPE Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.39%	1.84%	0.92%	1.36%	1.34%	1.78%	0.86%	1.29%	1.28%	1.71%
Residential Therms	34,816,572	35,423,974	35,711,768	36,163,387	36,613,172	37,230,634	37,507,522	37,951,804	38,394,394	39,013,200
Commercial Therms	17,183,844	17,536,369	17,739,593	18,020,318	18,303,233	18,667,721	18,873,016	19,159,667	19,449,276	19,824,734
Industrial Therms	1,204,751	1,212,918	1,211,702	1,214,838	1,217,799	1,225,166	1,223,247	1,225,729	1,228,135	1,235,073
Ind., Inst., & Cmcl. Interrup. Therms	1,228,475	1,259,382	1,279,204	1,305,099	1,331,443	1,364,398	1,385,213	1,412,514	1,440,228	1,474,940
Total Core Therms	54,433,643	55,432,644	55,942,268	56,703,643	57,465,648	58,487,919	58,988,997	59,749,713	60,512,033	61,547,946
Daily Baseload Therms	38,908	39,447	39,990	40,535	41,082	41,629	42,176	42,723	43,272	43,820
Peak Day Therms	567,838	575,673	583,553	591,484	599,419	607,351	615,279	623,197	631,128	639,054
Therms Per Residential Customer	703	706	703	703	703	706	703	703	703	706
Therms Per Commercial Customer	2,827	2,840	2,827	2,827	2,827	2,840	2,827	2,827	2,827	2,840
Therms Per Industrial Customer	20,187	20,263	20,187	20,187	20,187	20,263	20,187	20,187	20,187	20,263
Residential Customers	49,518	50,153	50,791	51,434	52,073	52,710	53,345	53,977	54,607	55,234
Commercial Customers	6,077	6,176	6,274	6,373	6,473	6,574	6,675	6,776	6,879	6,981
Industrial Customers	60	60	60	60	60	60	61	61	61	61
Interruptible Customers	15	15	16	16	16	17	17	17	18	18
Total Core Customers	55,670	56,403	57,141	57,883	58,623	59,361	60,098	60,831	61,564	62,294

Yakima Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.77%	1.22%	0.28%	0.73%	0.71%	1.15%	0.20%	0.64%	0.63%	1.07%
Residential Therms	13,063,555	13,203,680	13,215,452	13,289,846	13,361,616	13,495,764	13,497,138	13,560,987	13,622,261	13,747,467
Commercial Therms	13,266,580	13,471,589	13,552,948	13,694,378	13,834,640	14,036,157	14,108,012	14,241,700	14,374,339	14,569,986
Industrial Therms	2,955,924	2,968,075	2,956,654	2,956,130	2,955,034	2,964,820	2,951,333	2,949,001	2,946,101	2,954,295
Ind., Inst., & Cmcl. Interrup. Therms	865,538	876,563	880,662	888,075	895,460	906,320	909,991	917,091	924,148	934,737
Total Core Therms	30,151,597	30,519,907	30,605,716	30,828,429	31,046,750	31,403,062	31,466,473	31,668,780	31,866,849	32,206,485
Daily Baseload Therms	18,517	18,648	18,777	18,904	19,029	19,150	19,268	19,383	19,496	19,605
Peak Day Therms	340,987	343,612	346,207	348,770	351,283	353,728	356,116	358,446	360,728	362,940
Therms Per Residential Customer	660	663	660	660	660	663	660	660	660	663
Therms Per Commercial Customer	3,455	3,471	3,455	3,455	3,455	3,471	3,455	3,455	3,455	3,471
Therms Per Industrial Customer	38,396	38,546	38,396	38,396	38,396	38,546	38,396	38,396	38,396	38,546
Residential Customers	19,790	19,905	20,020	20,132	20,241	20,346	20,446	20,543	20,636	20,725
Commercial Customers	3,840	3,881	3,923	3,964	4,004	4,044	4,083	4,122	4,160	4,198
Industrial Customers	77	77	77	77	77	77	77	77	77	77
Interruptible Customers	13	13	13	13	14	14	14	14	14	14
Total Core Customers	23,719	23,877	24,033	24,186	24,336	24,480	24,620	24,756	24,887	25,014

Zone 10	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.85%	1.16%	0.50%	0.81%	0.79%	1.09%	0.42%	0.73%	0.71%	1.01%
Residential Therms	3,250,791	3,285,390	3,294,793	3,316,511	3,337,642	3,371,016	3,378,110	3,397,466	3,416,247	3,447,657
Commercial Therms	5,415,347	5,497,677	5,538,062	5,598,868	5,659,290	5,740,709	5,777,937	5,836,199	5,894,145	5,973,530
Industrial Therms	1,942,145	1,947,190	1,950,407	1,953,939	1,957,067	1,960,601	1,962,410	1,964,669	1,966,561	1,968,939
Ind., Inst., & Cmcl. Interrup. Therms	234,486	238,013	239,934	242,632	245,314	248,795	250,572	253,151	255,713	259,094
Total Core Therms	10,842,769	10,968,269	11,023,196	11,111,950	11,199,314	11,321,122	11,369,029	11,451,485	11,532,666	11,649,220
Daily Baseload Therms	8,700	8,758	8,814	8,870	8,925	8,978	9,030	9,080	9,130	9,178
Peak Day Therms	124,937	126,003	127,061	128,107	129,138	130,149	131,141	132,114	133,072	134,007
Therms Per Residential Customer	577	580	577	577	577	579	577	577	577	579
Therms Per Commercial Customer	3,446	3,459	3,446	3,446	3,446	3,459	3,446	3,446	3,446	3,459
Therms Per Industrial Customer	35,178	35,204	35,204	35,217	35,231	35,257	35,258	35,271	35,285	35,311
Residential Customers	5,630	5,669	5,708	5,746	5,783	5,820	5,855	5,889	5,922	5,955
Commercial Customers	1,572	1,589	1,607	1,625	1,642	1,660	1,677	1,694	1,711	1,727
Industrial Customers	55	55	55	55	56	56	56	56	56	56
Interruptible Customers	3	4	4	4	4	4	4	4	4	4
Total Core Customers	7,261	7,318	7,374	7,430	7,485	7,539	7,591	7,642	7,692	7,741

Zone 11	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.86%	1.27%	0.41%	0.82%	0.80%	1.20%	0.33%	0.74%	0.72%	1.12%
Residential Therms	14,171,778	14,327,368	14,345,018	14,430,096	14,512,450	14,662,053	14,668,772	14,742,850	14,814,235	14,954,629
Commercial Therms	18,826,897	19,123,422	19,258,274	19,471,759	19,684,624	19,978,414	20,101,774	20,306,919	20,510,756	20,798,688
Industrial Therms	3,871,961	3,891,741	3,887,830	3,894,630	3,900,858	3,917,814	3,911,429	3,916,052	3,920,036	3,935,005
Ind., Inst., & Cmcl. Interrup. Therms	1,585,142	1,602,666	1,613,324	1,627,151	1,641,025	1,658,274	1,668,317	1,681,721	1,695,021	1,711,853
Total Core Therms	38,455,778	38,945,197	39,104,447	39,423,636	39,738,957	40,216,555	40,350,292	40,647,542	40,940,049	41,400,175
Daily Baseload Therms	25,808	26,030	26,250	26,468	26,683	26,894	27,102	27,306	27,507	27,704
Peak Day Therms	427,580	431,263	434,919	438,532	442,100	445,591	449,018	452,381	455,689	458,925
Therms Per Residential Customer	609	611	608	608	608	611	608	608	607	610
Therms Per Commercial Customer	3,528	3,543	3,528	3,527	3,527	3,542	3,527	3,527	3,526	3,541
Therms Per Industrial Customer	33,111	33,170	33,033	32,995	32,956	33,014	32,879	32,841	32,802	32,860
Residential Customers	23,282	23,432	23,579	23,726	23,867	24,005	24,137	24,266	24,390	24,510
Commercial Customers	5,336	5,398	5,459	5,520	5,581	5,641	5,700	5,758	5,816	5,874
Industrial Customers	117	117	118	118	118	119	119	119	120	120
Interruptible Customers	23	24	24	24	24	25	25	25	25	25
Total Core Customers	28,759	28,970	29,180	29,388	29,591	29,788	29,981	30,168	30,351	30,529

Zone 20	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.59%	1.96%	1.18%	1.55%	1.53%	1.89%	1.11%	1.47%	1.45%	1.82%
Residential Therms	18,424,890	18,783,187	18,990,736	19,277,343	19,563,979	19,932,142	20,137,197	20,423,715	20,710,280	21,083,445
Commercial Therms	16,869,318	17,232,281	17,463,929	17,764,842	18,067,603	18,444,350	18,678,676	18,985,926	19,295,991	19,684,075
Industrial Therms	3,876,226	3,924,676	3,945,832	3,979,654	4,013,298	4,060,180	4,078,852	4,110,782	4,142,218	4,188,016
Ind., Inst., & Cmcl. Interrup. Therms	2,045,492	2,082,525	2,117,744	2,154,328	2,191,196	2,229,558	2,265,767	2,303,243	2,341,116	2,380,447
Total Core Therms	41,215,926	42,022,668	42,518,241	43,176,167	43,836,077	44,666,231	45,160,492	45,823,665	46,489,605	47,335,984
Daily Baseload Therms	35,498	36,044	36,596	37,149	37,704	38,260	38,818	39,376	39,937	40,498
Peak Day Therms	572,454	581,536	590,698	599,920	609,169	618,437	627,730	637,024	646,356	655,700
Therms Per Residential Customer	619	622	620	620	621	623	621	621	622	625
Therms Per Commercial Customer	3,775	3,791	3,777	3,779	3,780	3,796	3,782	3,783	3,784	3,800
Therms Per Industrial Customer	91,875	92,351	92,183	92,336	92,494	92,957	92,787	92,921	93,057	93,502
Residential Customers	29,744	30,184	30,629	31,077	31,525	31,972	32,419	32,866	33,313	33,759
Commercial Customers	4,468	4,545	4,623	4,702	4,780	4,859	4,939	5,019	5,099	5,180
Industrial Customers	42	42	43	43	43	44	44	44	45	45
Interruptible Customers	24	25	25	26	26	26	27	27	28	28
Total Core Customers	34,278	34,797	35,320	35,847	36,374	36,902	37,429	37,957	38,484	39,012

Zone 24	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.26%	0.68%	-0.20%	0.21%	0.21%	0.60%	-0.29%	0.12%	0.12%	0.52%
Residential Therms	4,162,285	4,191,791	4,178,768	4,186,327	4,193,186	4,220,178	4,204,113	4,208,390	4,211,758	4,235,804
Commercial Therms	4,118,300	4,152,545	4,146,666	4,158,910	4,172,409	4,203,718	4,193,421	4,203,065	4,213,582	4,242,297
Industrial Therms	230,161	229,317	228,552	227,672	226,750	225,810	224,797	223,754	222,720	221,692
Ind., Inst., & Cmcl. Interrup. Therms	960,206	961,792	962,432	963,072	963,379	962,997	962,359	961,287	960,138	958,478
Total Core Therms	9,470,952	9,535,444	9,516,418	9,535,980	9,555,724	9,612,703	9,584,690	9,596,497	9,608,198	9,658,269
Daily Baseload Therms	3,712	3,711	3,709	3,707	3,705	3,701	3,697	3,691	3,686	3,681
Peak Day Therms	119,320	119,616	119,896	120,146	120,391	120,585	120,754	120,901	121,044	121,143
Therms Per Residential Customer	580	583	580	580	580	583	580	580	580	583
Therms Per Commercial Customer	2,761	2,775	2,762	2,763	2,763	2,778	2,765	2,766	2,766	2,781
Therms Per Industrial Customer	10,243	10,240	10,241	10,241	10,239	10,239	10,239	10,238	10,240	10,239
Residential Customers	7,178	7,193	7,206	7,219	7,230	7,240	7,249	7,256	7,261	7,266
Commercial Customers	1,492	1,497	1,501	1,505	1,510	1,513	1,517	1,520	1,523	1,526
Industrial Customers	22	22	22	22	22	22	22	22	22	22
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,694	8,713	8,732	8,749	8,764	8,778	8,789	8,799	8,808	8,815

Zone 26	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.08%	1.39%	0.72%	1.04%	1.03%	1.34%	0.66%	0.98%	0.96%	1.27%
Residential Therms	1,779,541	1,803,402	1,817,698	1,836,888	1,855,912	1,879,734	1,893,512	1,912,088	1,930,510	1,953,860
Commercial Therms	5,309,405	5,391,400	5,436,065	5,499,655	5,562,994	5,645,973	5,689,054	5,752,069	5,814,420	5,897,278
Industrial Therms	808,613	808,780	804,449	802,079	799,653	799,154	794,317	791,493	788,521	787,585
Ind., Inst., & Cmcl. Interrup. Therms	951,279	968,383	978,748	992,467	1,006,151	1,023,309	1,032,878	1,046,288	1,059,261	1,076,295
Total Core Therms	8,848,838	8,971,965	9,036,960	9,131,089	9,224,710	9,348,171	9,409,761	9,501,938	9,592,712	9,715,018
Daily Baseload Therms	8,370	8,443	8,515	8,588	8,659	8,730	8,800	8,869	8,938	9,006
Peak Day Therms	87,541	88,536	89,535	90,535	91,531	92,524	93,506	94,491	95,465	96,442
Therms Per Residential Customer	583	585	583	583	583	585	583	583	584	585
Therms Per Commercial Customer	3,887	3,900	3,885	3,885	3,884	3,897	3,883	3,882	3,882	3,895
Therms Per Industrial Customer	26,269	26,332	26,254	26,247	26,240	26,304	26,226	26,219	26,212	26,276
Residential Customers	3,051	3,084	3,116	3,149	3,181	3,214	3,245	3,277	3,308	3,340
Commercial Customers	1,366	1,383	1,399	1,416	1,432	1,449	1,465	1,482	1,498	1,514
Industrial Customers	31	31	31	31	30	30	30	30	30	30
Interruptible Customers	9	9	9	9	9	9	9	10	10	10
Total Core Customers	4,457	4,506	4,555	4,604	4,653	4,702	4,750	4,798	4,846	4,893

Zone 30-S	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.16%	1.57%	0.71%	1.12%	1.10%	1.50%	0.64%	1.04%	1.02%	1.42%
Residential Therms	26,754,649	27,154,785	27,310,456	27,589,171	27,865,307	28,266,120	28,409,020	28,676,669	28,941,649	29,336,653
Commercial Therms	15,510,283	15,781,608	15,921,844	16,126,728	16,333,114	16,608,257	16,742,963	16,946,329	17,149,704	17,425,216
Industrial Therms	565,975	569,183	570,487	572,562	574,642	577,660	578,711	580,750	582,730	585,543
Ind., Inst., & Cmcl. Interrup. Therms	3,923,150	3,981,349	4,023,398	4,072,315	4,120,418	4,176,181	4,213,985	4,259,268	4,303,624	4,355,405
Total Core Therms	46,754,056	47,486,925	47,826,185	48,360,775	48,893,481	49,628,218	49,944,679	50,463,016	50,977,707	51,702,818
Daily Baseload Therms	37,618	38,061	38,505	38,947	39,387	39,823	40,254	40,682	41,106	41,526
Peak Day Therms	458,645	463,881	469,136	474,371	479,587	484,757	489,878	494,953	499,992	504,987
Therms Per Residential Customer	679	682	679	679	679	682	679	679	679	682
Therms Per Commercial Customer	3,557	3,572	3,557	3,558	3,558	3,573	3,558	3,559	3,559	3,574
Therms Per Industrial Customer	17,834	17,873	17,854	17,864	17,874	17,912	17,894	17,903	17,913	17,951
Residential Customers	39,378	39,788	40,199	40,611	41,019	41,423	41,823	42,218	42,610	42,998
Commercial Customers	4,361	4,418	4,476	4,533	4,591	4,648	4,705	4,762	4,819	4,875
Industrial Customers	32	32	32	32	32	32	32	32	33	33
Interruptible Customers	16	16	16	17	17	17	17	17	18	18
Total Core Customers	43,787	44,254	44,724	45,193	45,659	46,120	46,577	47,030	47,479	47,923

Zone 30-W	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.33%	1.77%	0.87%	1.30%	1.29%	1.72%	0.80%	1.23%	1.22%	1.65%
Residential Therms	64,491,544	65,586,560	66,092,703	66,899,722	67,702,679	68,812,930	69,296,768	70,087,628	70,874,550	71,983,996
Commercial Therms	33,288,443	33,955,455	34,333,714	34,860,676	35,391,395	36,080,096	36,459,941	36,997,381	37,539,529	38,248,005
Industrial Therms	2,917,108	2,937,549	2,936,689	2,945,547	2,954,132	2,972,569	2,969,834	2,977,295	2,984,322	3,001,764
Ind., Inst., & Cmcl. Interrup. Therms	3,163,144	3,222,296	3,254,239	3,300,425	3,347,040	3,408,304	3,440,822	3,488,005	3,535,396	3,598,392
Total Core Therms	103,860,240	105,701,860	106,617,344	108,006,371	109,395,247	111,273,899	112,167,364	113,550,310	114,933,797	116,832,157
Daily Baseload Therms	76,671	77,678	78,691	79,708	80,726	81,743	82,759	83,774	84,790	85,806
Peak Day Therms	1,079,399	1,093,697	1,108,081	1,122,534	1,136,981	1,151,407	1,165,814	1,180,195	1,194,578	1,208,943
Therms Per Residential Customer	695	699	695	696	696	699	696	696	696	699
Therms Per Commercial Customer	2,816	2,828	2,816	2,816	2,816	2,828	2,815	2,815	2,815	2,827
Therms Per Industrial Customer	15,728	15,788	15,738	15,743	15,749	15,810	15,760	15,766	15,772	15,834
Residential Customers	92,730	93,876	95,029	96,188	97,341	98,488	99,630	100,766	101,896	103,021
Commercial Customers	11,821	12,006	12,193	12,381	12,569	12,759	12,950	13,141	13,335	13,528
Industrial Customers	185	186	187	187	188	188	188	189	189	190
Interruptible Customers	33	34	34	35	35	36	36	37	38	38
Total Core Customers	104,769	106,102	107,443	108,791	110,134	111,472	112,805	114,133	115,457	116,777

Zone GTN	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.96%	2.39%	1.49%	1.91%	1.90%	2.32%	1.41%	1.84%	1.82%	2.25%
Residential Therms	39,297,209	40,254,620	40,862,169	41,661,237	42,466,252	43,471,836	44,093,956	44,916,788	45,745,427	46,789,987
Commercial Therms	24,200,360	24,806,064	25,201,793	25,708,000	26,221,748	26,857,023	27,262,670	27,791,094	28,325,541	28,992,013
Industrial Therms	2,203,691	2,224,110	2,230,085	2,243,018	2,255,993	2,275,838	2,281,284	2,293,774	2,305,931	2,325,728
Ind., Inst., & Cmcl. Interrup. Therms	1,092,412	1,104,445	1,112,554	1,122,272	1,132,260	1,143,968	1,151,805	1,161,410	1,171,159	1,182,766
Total Core Therms	66,793,672	68,389,239	69,406,602	70,734,527	72,076,253	73,748,665	74,789,715	76,163,065	77,548,058	79,290,494
Daily Baseload Therms	43,481	44,328	45,186	46,052	46,928	47,810	48,699	49,596	50,501	51,414
Peak Day Therms	830,407	846,491	862,779	879,234	895,856	912,599	929,470	946,480	963,629	980,931
Therms Per Residential Customer	747	750	747	748	748	751	748	749	749	753
Therms Per Commercial Customer	2,848	2,860	2,848	2,848	2,848	2,861	2,848	2,849	2,849	2,861
Therms Per Industrial Customer	25,730	25,797	25,699	25,686	25,668	25,732	25,635	25,618	25,599	25,662
Residential Customers	52,625	53,645	54,679	55,728	56,784	57,847	58,918	59,997	61,082	62,176
Commercial Customers	8,498	8,672	8,849	9,026	9,206	9,388	9,571	9,756	9,944	10,133
Industrial Customers	86	86	87	87	88	88	89	90	90	91
Interruptible Customers	8	8	8	8	8	8	8	9	9	9
Total Core Customers	61,217	62,412	63,623	64,850	66,087	67,332	68,587	69,851	71,125	72,408

Zone ME-OR	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.96%	1.30%	0.56%	0.91%	0.90%	1.24%	0.49%	0.83%	0.81%	1.17%
Residential Therms	5,134,328	5,180,511	5,193,615	5,222,767	5,251,112	5,295,248	5,304,958	5,330,582	5,355,337	5,396,392
Commercial Therms	6,480,103	6,594,324	6,650,383	6,735,267	6,820,924	6,937,203	6,991,221	7,074,739	7,157,845	7,274,630
Industrial Therms	486,964	488,510	487,823	488,227	488,423	489,669	488,624	488,522	488,389	489,336
Ind., Inst., & Cmcl. Interrup. Therms	1,730,521	1,749,025	1,759,678	1,773,567	1,787,129	1,803,956	1,812,962	1,825,008	1,836,472	1,851,984
Total Core Therms	13,831,916	14,012,370	14,091,500	14,219,828	14,347,588	14,526,076	14,597,766	14,718,851	14,838,044	15,012,343
Daily Baseload Therms	10,908	11,019	11,130	11,240	11,350	11,458	11,565	11,670	11,774	11,877
Peak Day Therms	205,306	207,121	208,948	210,746	212,531	214,276	216,014	217,695	219,346	220,990
Therms Per Residential Customer	459	460	459	459	459	460	459	459	459	460
Therms Per Commercial Customer	3,016	3,030	3,017	3,018	3,018	3,033	3,019	3,020	3,021	3,035
Therms Per Industrial Customer	17,181	17,210	17,162	17,152	17,142	17,170	17,122	17,113	17,103	17,130
Residential Customers	11,188	11,253	11,317	11,381	11,442	11,502	11,560	11,616	11,670	11,722
Commercial Customers	2,148	2,176	2,204	2,232	2,260	2,288	2,315	2,343	2,370	2,397
Industrial Customers	28	28	28	28	28	29	29	29	29	29
Interruptible Customers	9	9	10	10	10	10	10	10	10	10
Total Core Customers	13,374	13,467	13,559	13,651	13,740	13,828	13,914	13,997	14,078	14,158

Zone ME-WA	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.86%	1.31%	0.35%	0.80%	0.77%	1.22%	0.26%	0.70%	0.68%	1.12%
Residential Therms	6,940,885	7,013,976	7,017,271	7,054,606	7,090,547	7,160,392	7,158,029	7,189,678	7,219,932	7,284,922
Commercial Therms	4,847,563	4,920,572	4,946,565	4,995,301	5,042,884	5,114,096	5,135,909	5,180,885	5,225,460	5,292,899
Industrial Therms	89,507	89,711	89,893	90,053	90,191	90,328	90,422	90,536	90,609	90,681
Ind., Inst., & Cmcl. Interrup. Therms	2,042,805	2,078,966	2,098,760	2,126,063	2,152,609	2,187,128	2,204,701	2,229,464	2,253,902	2,286,499
Total Core Therms	13,920,760	14,103,224	14,152,489	14,266,023	14,376,230	14,551,944	14,589,062	14,690,562	14,789,903	14,955,001
Daily Baseload Therms	14,510	14,639	14,766	14,890	15,012	15,130	15,246	15,357	15,466	15,572
Peak Day Therms	190,044	191,562	193,056	194,532	195,964	197,366	198,724	200,039	201,325	202,559
Therms Per Residential Customer	598	601	598	598	598	601	598	598	598	601
Therms Per Commercial Customer	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	11,606	11,670	11,734	11,796	11,856	11,914	11,969	12,022	12,073	12,121
Commercial Customers	1,465	1,480	1,495	1,510	1,524	1,539	1,552	1,566	1,580	1,592
Industrial Customers	16	16	16	16	16	16	16	16	16	16
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	13,091	13,170	13,249	13,326	13,401	13,472	13,542	13,608	13,672	13,734

Bellingham Disctrict	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.40%	1.84%	0.92%	1.36%	1.35%	1.78%	0.86%	1.29%	1.28%	1.71%
Residential Therms	35,442,109	36,059,995	36,353,389	36,813,122	37,270,988	37,899,093	38,181,406	38,633,671	39,084,212	39,713,663
Commercial Therms	17,352,346	17,708,709	17,914,278	18,198,132	18,484,200	18,852,660	19,060,317	19,350,153	19,642,970	20,022,500
Industrial Therms	1,205,507	1,213,679	1,212,468	1,215,610	1,218,576	1,225,947	1,224,033	1,226,519	1,228,930	1,235,872
Ind., Inst., & Cmcl. Interrup. Therms	1,329,358	1,364,060	1,386,702	1,415,973	1,445,763	1,482,825	1,506,600	1,537,486	1,568,821	1,607,886
Total Core Therms	55,329,320	56,346,442	56,866,836	57,642,837	58,419,528	59,460,525	59,972,356	60,747,830	61,524,933	62,579,920
Daily Baseload Therms	39,931	40,486	41,042	41,603	42,164	42,726	43,288	43,849	44,412	44,976
Peak Day Therms	575,653	583,620	591,635	599,701	607,773	615,843	623,908	631,963	640,033	648,097
Therms Per Residential Customer	713	716	713	713	713	716	713	713	713	716
Therms Per Commercial Customer	2,832	2,844	2,832	2,832	2,832	2,845	2,832	2,832	2,833	2,845
Therms Per Industrial Customer	19,825	19,899	19,822	19,821	19,819	19,892	19,816	19,815	19,814	19,887
Residential Customers	49,732	50,370	51,011	51,656	52,299	52,939	53,576	54,211	54,843	55,473
Commercial Customers	6,127	6,226	6,325	6,425	6,526	6,628	6,729	6,832	6,935	7,038
Industrial Customers	61	61	61	61	61	62	62	62	62	62
Interruptible Customers	16	17	17	18	18	18	19	19	19	20
Total Core Customers	55,937	56,673	57,415	58,160	58,904	59,646	60,386	61,123	61,859	62,593

Mount Vernon District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.26%	1.70%	0.80%	1.23%	1.22%	1.64%	0.74%	1.16%	1.15%	1.58%
Residential Therms	29,049,435	29,526,565	29,739,314	30,086,600	30,431,691	30,913,838	31,115,361	31,453,958	31,790,338	32,270,332
Commercial Therms	15,936,097	16,246,746	16,419,436	16,662,544	16,907,195	17,227,436	17,399,624	17,647,228	17,896,559	18,225,505
Industrial Therms	1,711,601	1,723,870	1,724,221	1,729,937	1,735,556	1,746,621	1,745,801	1,750,776	1,755,392	1,765,892
Ind., Inst., & Cmcl. Interrup. Therms	1,833,786	1,858,236	1,867,537	1,884,453	1,901,277	1,925,479	1,934,222	1,950,519	1,966,575	1,990,506
Total Core Therms	48,530,920	49,355,417	49,750,508	50,363,534	50,975,719	51,813,374	52,195,008	52,802,480	53,408,864	54,252,237
Daily Baseload Therms	36,739	37,193	37,649	38,106	38,562	39,017	39,471	39,925	40,378	40,830
Peak Day Therms	503,746	510,077	516,447	522,832	529,208	535,564	541,906	548,232	554,545	560,846
Therms Per Residential Customer	676	679	676	676	676	679	676	676	676	679
Therms Per Commercial Customer	2,799	2,811	2,798	2,798	2,798	2,809	2,797	2,797	2,796	2,808
Therms Per Industrial Customer	13,730	13,784	13,746	13,755	13,764	13,819	13,782	13,792	13,801	13,857
Residential Customers	42,997	43,507	44,018	44,532	45,043	45,550	46,054	46,555	47,053	47,548
Commercial Customers	5,694	5,780	5,868	5,955	6,043	6,132	6,221	6,310	6,400	6,490
Industrial Customers	125	125	125	126	126	126	127	127	127	127
Interruptible Customers	17	17	17	17	17	18	18	18	18	18
Total Core Customers	48,833	49,429	50,029	50,630	51,230	51,826	52,419	53,010	53,598	54,183

Bremerton District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.25%	1.65%	0.80%	1.20%	1.19%	1.59%	0.72%	1.12%	1.10%	1.50%
Residential Therms	24,078,462	24,453,815	24,609,661	24,876,355	25,140,967	25,518,128	25,663,086	25,920,700	26,176,071	26,549,120
Commercial Therms	12,802,820	13,040,737	13,171,140	13,354,241	13,539,503	13,781,193	13,907,353	14,090,077	14,272,902	14,516,041
Industrial Therms	343,003	346,224	349,439	352,562	355,737	358,930	362,065	365,218	368,388	371,510
Ind., Inst., & Cmcl. Interrup. Therms	2,881,580	2,928,682	2,966,765	3,008,745	3,050,229	3,095,819	3,131,236	3,170,622	3,209,353	3,252,380
Total Core Therms	40,105,865	40,769,458	41,097,004	41,591,903	42,086,436	42,754,069	43,063,739	43,546,617	44,026,713	44,689,051
Daily Baseload Therms	31,084	31,486	31,890	32,292	32,694	33,092	33,488	33,880	34,270	34,657
Peak Day Therms	399,675	404,564	409,473	414,367	419,254	424,098	428,908	433,678	438,418	443,127
Therms Per Residential Customer	675	678	675	675	675	678	675	675	675	678
Therms Per Commercial Customer	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	35,679	36,072	36,467	36,862	37,254	37,642	38,027	38,409	38,788	39,163
Commercial Customers	3,540	3,591	3,642	3,692	3,744	3,795	3,845	3,896	3,947	3,997
Industrial Customers	18	18	18	18	19	19	19	19	19	19
Interruptible Customers	12	12	12	13	13	13	13	13	13	14
Total Core Customers	39,249	39,693	40,139	40,585	41,029	41,468	41,905	42,337	42,767	43,193

Longview District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.09%	1.41%	0.73%	1.05%	1.04%	1.36%	0.66%	0.99%	0.97%	1.30%
Residential Therms	1,779,541	1,803,402	1,817,698	1,836,888	1,855,912	1,879,734	1,893,512	1,912,088	1,930,510	1,953,860
Commercial Therms	5,300,106	5,382,055	5,426,675	5,490,223	5,553,520	5,636,459	5,679,501	5,742,478	5,804,792	5,887,616
Industrial Therms	808,613	808,780	804,449	802,079	799,653	799,154	794,317	791,493	788,521	787,585
Ind., Inst., & Cmcl. Interrup. Therms	730,023	745,749	754,805	767,213	779,587	795,503	803,828	816,030	827,793	843,685
Total Core Therms	8,618,282	8,739,986	8,803,627	8,896,403	8,988,672	9,110,851	9,171,158	9,262,088	9,351,616	9,472,745
Daily Baseload Therms	8,085	8,156	8,226	8,296	8,366	8,435	8,502	8,570	8,636	8,703
Peak Day Therms	84,830	85,806	86,785	87,765	88,742	89,717	90,680	91,648	92,604	93,564
Therms Per Residential Customer	583	585	583	583	583	585	583	583	584	585
Therms Per Commercial Customer	3,890	3,903	3,888	3,888	3,887	3,900	3,886	3,885	3,885	3,898
Therms Per Industrial Customer	26,269	26,332	26,254	26,247	26,240	26,304	26,226	26,219	26,212	26,276
Residential Customers	3,051	3,084	3,116	3,149	3,181	3,214	3,245	3,277	3,308	3,340
Commercial Customers	1,363	1,379	1,396	1,412	1,429	1,445	1,462	1,478	1,494	1,511
Industrial Customers	31	31	31	31	30	30	30	30	30	30
Interruptible Customers	7	8	8	8	8	8	8	8	8	9
Total Core Customers	4,452	4,501	4,550	4,600	4,648	4,697	4,745	4,794	4,841	4,889

Aberdeen District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.63%	1.04%	0.17%	0.59%	0.56%	0.99%	0.10%	0.52%	0.50%	0.90%
Residential Therms	2,676,187	2,700,970	2,700,795	2,712,816	2,724,340	2,747,992	2,745,935	2,755,969	2,765,579	2,787,533
Commercial Therms	2,707,463	2,740,870	2,750,704	2,772,486	2,793,611	2,827,064	2,835,609	2,856,252	2,876,802	2,909,175
Industrial Therms	222,972	222,959	221,048	220,000	218,905	218,730	216,646	215,532	214,342	214,034
Ind., Inst., & Cmcl. Interrup. Therms	1,041,570	1,052,667	1,056,633	1,063,570	1,070,188	1,080,363	1,082,750	1,088,646	1,094,271	1,103,025
Total Core Therms	6,648,192	6,717,467	6,729,181	6,768,872	6,807,045	6,874,149	6,880,940	6,916,400	6,950,993	7,013,767
Daily Baseload Therms	6,533	6,574	6,615	6,655	6,693	6,731	6,767	6,802	6,836	6,868
Peak Day Therms	58,970	59,317	59,662	60,004	60,333	60,658	60,970	61,276	61,575	61,860
Therms Per Residential Customer	724	727	724	724	724	727	724	724	724	727
Therms Per Commercial Customer	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312
Therms Per Industrial Customer	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247
Residential Customers	3,699	3,716	3,733	3,749	3,765	3,780	3,795	3,809	3,822	3,835
Commercial Customers	821	828	834	841	847	854	860	866	872	878
Industrial Customers	14	14	14	14	14	13	13	13	13	13
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,537	4,561	4,584	4,608	4,630	4,652	4,672	4,692	4,712	4,731

Kennewick District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.69%	2.07%	1.28%	1.65%	1.63%	2.00%	1.20%	1.57%	1.55%	1.92%
Residential Therms	17,775,835	18,127,604	18,335,247	18,618,697	18,902,270	19,264,178	19,469,788	19,753,610	20,037,601	20,404,917
Commercial Therms	16,006,850	16,364,559	16,590,971	16,886,785	17,184,750	17,556,803	17,786,483	18,089,030	18,394,772	18,778,695
Industrial Therms	432,161	435,765	439,346	442,880	446,389	449,886	453,328	456,780	460,189	463,623
Ind., Inst., & Cmcl. Interrup. Therms	2,027,238	2,063,189	2,097,222	2,132,689	2,168,403	2,205,618	2,240,600	2,276,933	2,313,582	2,351,629
Total Core Therms	36,242,083	36,991,117	37,462,786	38,081,051	38,701,811	39,476,485	39,950,200	40,576,352	41,206,144	41,998,864
Daily Baseload Therms	29,594	30,096	30,602	31,113	31,626	32,141	32,658	33,177	33,699	34,222
Peak Day Therms	519,820	528,476	537,215	546,024	554,866	563,739	572,639	581,549	590,507	599,483
Therms Per Residential Customer	622	625	622	623	623	626	623	624	624	627
Therms Per Commercial Customer	3,846	3,862	3,846	3,847	3,847	3,863	3,848	3,848	3,848	3,865
Therms Per Industrial Customer	19,514	19,514	19,515	19,515	19,516	19,517	19,517	19,518	19,519	19,519
Residential Customers	28,588	29,023	29,461	29,904	30,346	30,788	31,230	31,672	32,114	32,556
Commercial Customers	4,162	4,237	4,313	4,390	4,467	4,545	4,623	4,701	4,780	4,859
Industrial Customers	22	22	23	23	23	23	23	23	24	24
Interruptible Customers	22	23	23	23	24	24	25	25	25	26
Total Core Customers	32,795	33,305	33,820	34,340	34,860	35,380	35,901	36,421	36,943	37,464

Walla Walla District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.86%	1.31%	0.35%	0.80%	0.77%	1.22%	0.26%	0.70%	0.68%	1.12%
Residential Therms	6,940,885	7,013,976	7,017,271	7,054,606	7,090,547	7,160,392	7,158,029	7,189,678	7,219,932	7,284,922
Commercial Therms	4,847,563	4,920,572	4,946,565	4,995,301	5,042,884	5,114,096	5,135,909	5,180,885	5,225,460	5,292,899
Industrial Therms	89,507	89,711	89,893	90,053	90,191	90,328	90,422	90,536	90,609	90,681
Ind., Inst., & Cmcl. Interrup. Therms	2,042,805	2,078,966	2,098,760	2,126,063	2,152,609	2,187,128	2,204,701	2,229,464	2,253,902	2,286,499
Total Core Therms	13,920,760	14,103,224	14,152,489	14,266,023	14,376,230	14,551,944	14,589,062	14,690,562	14,789,903	14,955,001
Daily Baseload Therms	13,190	13,311	13,429	13,545	13,658	13,769	13,877	13,982	14,084	14,183
Peak Day Therms	190,044	191,562	193,056	194,532	195,964	197,366	198,724	200,039	201,325	202,559
Therms Per Residential Customer	598	601	598	598	598	601	598	598	598	601
Therms Per Commercial Customer	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	11,606	11,670	11,734	11,796	11,856	11,914	11,969	12,022	12,073	12,121
Commercial Customers	1,465	1,480	1,495	1,510	1,524	1,539	1,552	1,566	1,580	1,592
Industrial Customers	16	16	16	16	16	16	16	16	16	16
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	13,091	13,170	13,249	13,326	13,401	13,472	13,542	13,608	13,672	13,734

Wenatchee District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.08%	1.39%	0.72%	1.02%	1.01%	1.32%	0.65%	0.95%	0.93%	1.25%
Residential Therms	1,399,456	1,417,622	1,422,622	1,434,170	1,445,566	1,463,501	1,467,691	1,478,492	1,489,094	1,506,475
Commercial Therms	5,439,247	5,524,248	5,574,570	5,641,671	5,709,081	5,794,377	5,842,523	5,908,881	5,974,756	6,059,707
Industrial Therms	4,048,345	4,098,604	4,121,495	4,156,953	4,192,262	4,240,707	4,260,940	4,294,316	4,327,187	4,374,300
Ind., Inst., & Cmcl. Interrup. Therms	608,598	614,601	620,672	626,584	632,594	638,455	644,412	650,191	656,006	661,815
Total Core Therms	11,495,645	11,655,076	11,739,359	11,859,378	11,979,502	12,137,040	12,215,565	12,331,880	12,447,043	12,602,297
Daily Baseload Therms	12,425	12,550	12,676	12,800	12,923	13,044	13,165	13,284	13,402	13,519
Peak Day Therms	121,629	122,905	124,181	125,439	126,695	127,933	129,164	130,380	131,583	132,778
Therms Per Residential Customer	497	499	497	497	497	499	496	496	496	498
Therms Per Commercial Customer	4,500	4,517	4,506	4,509	4,513	4,531	4,519	4,522	4,526	4,543
Therms Per Industrial Customer	93,229	93,673	93,496	93,637	93,779	94,223	94,052	94,182	94,315	94,754
Residential Customers	2,814	2,839	2,863	2,887	2,911	2,935	2,958	2,980	3,003	3,025
Commercial Customers	1,209	1,223	1,237	1,251	1,265	1,279	1,293	1,307	1,320	1,334
Industrial Customers	43	44	44	44	45	45	45	46	46	46
Interruptible Customers	8	8	8	8	8	8	8	8	8	9
Total Core Customers	4,075	4,113	4,152	4,191	4,229	4,267	4,304	4,341	4,377	4,413

Yakima District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.80%	1.20%	0.36%	0.75%	0.73%	1.12%	0.28%	0.67%	0.65%	1.05%
Residential Therms	16,672,169	16,850,718	16,872,678	16,971,083	17,066,235	17,237,531	17,246,600	17,331,929	17,414,066	17,574,339
Commercial Therms	19,674,765	19,973,918	20,104,115	20,316,446	20,527,160	20,821,808	20,938,934	21,140,723	21,340,993	21,627,553
Industrial Therms	5,209,826	5,229,237	5,223,228	5,228,390	5,232,573	5,248,003	5,238,423	5,240,408	5,241,440	5,254,037
Ind., Inst., & Cmcl. Interrup. Therms	1,450,541	1,468,047	1,477,051	1,490,091	1,503,102	1,520,359	1,528,694	1,541,250	1,553,729	1,570,561
Total Core Therms	43,007,300	43,521,921	43,677,072	44,006,010	44,329,070	44,827,702	44,952,651	45,254,310	45,550,228	46,026,490
Daily Baseload Therms	28,272	28,473	28,671	28,866	29,056	29,242	29,423	29,601	29,774	29,942
Peak Day Therms	486,233	490,152	494,032	497,866	501,634	505,312	508,911	512,432	515,888	519,250
Therms Per Residential Customer	612	614	612	611	611	614	611	611	611	614
Therms Per Commercial Customer	3,274	3,287	3,273	3,272	3,271	3,284	3,270	3,269	3,268	3,281
Therms Per Industrial Customer	35,020	35,084	34,983	34,965	34,947	35,010	34,911	34,893	34,875	34,937
Residential Customers	27,254	27,424	27,592	27,758	27,918	28,074	28,224	28,369	28,508	28,643
Commercial Customers	6,009	6,076	6,143	6,209	6,275	6,340	6,404	6,467	6,530	6,591
Industrial Customers	149	149	149	150	150	150	150	150	150	150
Interruptible Customers	22	22	23	23	23	23	24	24	24	24
Total Core Customers	33,434	33,671	33,906	34,139	34,366	34,587	34,801	35,010	35,212	35,409

Central Oregon (Bend) District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.96%	2.39%	1.49%	1.91%	1.90%	2.32%	1.41%	1.84%	1.82%	2.25%
Residential Therms	39,297,209	40,254,620	40,862,169	41,661,237	42,466,252	43,471,836	44,093,956	44,916,788	45,745,427	46,789,987
Commercial Therms	24,200,360	24,806,064	25,201,793	25,708,000	26,221,748	26,857,023	27,262,670	27,791,094	28,325,541	28,992,013
Industrial Therms	2,203,691	2,224,110	2,230,085	2,243,018	2,255,993	2,275,838	2,281,284	2,293,774	2,305,931	2,325,728
Ind., Inst., & Cmcl. Interrup. Therms	1,092,412	1,104,445	1,112,554	1,122,272	1,132,260	1,143,968	1,151,805	1,161,410	1,171,159	1,182,766
Total Core Therms	66,793,672	68,389,239	69,406,602	70,734,527	72,076,253	73,748,665	74,789,715	76,163,065	77,548,058	79,290,494
Daily Baseload Therms	43,481	44,328	45,186	46,052	46,928	47,810	48,699	49,596	50,501	51,414
Peak Day Therms	830,407	846,491	862,779	879,234	895,856	912,599	929,470	946,480	963,629	980,931
Therms Per Residential Customer	747	750	747	748	748	751	748	749	749	753
Therms Per Commercial Customer	2,848	2,860	2,848	2,848	2,848	2,861	2,848	2,849	2,849	2,861
Therms Per Industrial Customer	25,730	25,797	25,699	25,686	25,668	25,732	25,635	25,618	25,599	25,662
Residential Customers	52,625	53,645	54,679	55,728	56,784	57,847	58,918	59,997	61,082	62,176
Commercial Customers	8,498	8,672	8,849	9,026	9,206	9,388	9,571	9,756	9,944	10,133
Industrial Customers	86	86	87	87	88	88	89	90	90	91
Interruptible Customers	8	8	8	8	8	8	8	9	9	9
Total Core Customers	61,217	62,412	63,623	64,850	66,087	67,332	68,587	69,851	71,125	72,408

Pendleton District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.96%	1.30%	0.56%	0.91%	0.90%	1.24%	0.49%	0.83%	0.81%	1.17%
Residential Therms	5,134,328	5,180,511	5,193,615	5,222,767	5,251,112	5,295,248	5,304,958	5,330,582	5,355,337	5,396,392
Commercial Therms	6,480,103	6,594,324	6,650,383	6,735,267	6,820,924	6,937,203	6,991,221	7,074,739	7,157,845	7,274,630
Industrial Therms	486,964	488,510	487,823	488,227	488,423	489,669	488,624	488,522	488,389	489,336
Ind., Inst., & Cmcl. Interrup. Therms	1,730,521	1,749,025	1,759,678	1,773,567	1,787,129	1,803,956	1,812,962	1,825,008	1,836,472	1,851,984
Total Core Therms	13,831,916	14,012,370	14,091,500	14,219,828	14,347,588	14,526,076	14,597,766	14,718,851	14,838,044	15,012,343
Daily Baseload Therms	12,228	12,347	12,467	12,585	12,703	12,819	12,934	13,046	13,156	13,266
Peak Day Therms	205,306	207,121	208,948	210,746	212,531	214,276	216,014	217,695	219,346	220,990
Therms Per Residential Customer	459	460	459	459	459	460	459	459	459	460
Therms Per Commercial Customer	3,016	3,030	3,017	3,018	3,018	3,033	3,019	3,020	3,021	3,035
Therms Per Industrial Customer	17,181	17,210	17,162	17,152	17,142	17,170	17,122	17,113	17,103	17,130
Residential Customers	11,188	11,253	11,317	11,381	11,442	11,502	11,560	11,616	11,670	11,722
Commercial Customers	2,148	2,176	2,204	2,232	2,260	2,288	2,315	2,343	2,370	2,397
Industrial Customers	28	28	28	28	28	29	29	29	29	29
Interruptible Customers	9	9	10	10	10	10	10	10	10	10
Total Core Customers	13,374	13,467	13,559	13,651	13,740	13,828	13,914	13,997	14,078	14,158

Eastern Oregon (Ontario) District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.26%	0.68%	-0.20%	0.21%	0.21%	0.60%	-0.29%	0.12%	0.12%	0.52%
Residential Therms	4,162,285	4,191,791	4,178,768	4,186,327	4,193,186	4,220,178	4,204,113	4,208,390	4,211,758	4,235,804
Commercial Therms	4,118,300	4,152,545	4,146,666	4,158,910	4,172,409	4,203,718	4,193,421	4,203,065	4,213,582	4,242,297
Industrial Therms	230,161	229,317	228,552	227,672	226,750	225,810	224,797	223,754	222,720	221,692
Ind., Inst., & Cmcl. Interrup. Therms	960,206	961,792	962,432	963,072	963,379	962,997	962,359	961,287	960,138	958,478
Total Core Therms	9,470,952	9,535,444	9,516,418	9,535,980	9,555,724	9,612,703	9,584,690	9,596,497	9,608,198	9,658,269
Daily Baseload Therms	3,712	3,711	3,709	3,707	3,705	3,701	3,697	3,691	3,686	3,681
Peak Day Therms	119,320	119,616	119,896	120,146	120,391	120,585	120,754	120,901	121,044	121,143
Therms Per Residential Customer	580	583	580	580	580	583	580	580	580	583
Therms Per Commercial Customer	2,761	2,775	2,762	2,763	2,763	2,778	2,765	2,766	2,766	2,781
Therms Per Industrial Customer	10,243	10,240	10,241	10,241	10,239	10,239	10,239	10,238	10,240	10,239
Residential Customers	7,178	7,193	7,206	7,219	7,230	7,240	7,249	7,256	7,261	7,266
Commercial Customers	1,492	1,497	1,501	1,505	1,510	1,513	1,517	1,520	1,523	1,526
Industrial Customers	22	22	22	22	22	22	22	22	22	22
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,694	8,713	8,732	8,749	8,764	8,778	8,789	8,799	8,808	8,815

Oregon	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.62%	2.04%	1.17%	1.59%	1.58%	1.99%	1.11%	1.52%	1.51%	1.93%
Residential Therms	48,593,822	49,626,923	50,234,552	51,070,331	51,910,550	52,987,263	53,603,027	54,455,760	55,312,522	56,422,183
Commercial Therms	34,798,763	35,552,933	35,998,843	36,602,177	37,215,080	37,997,943	38,447,312	39,068,898	39,696,968	40,508,940
Industrial Therms	2,920,816	2,941,937	2,946,461	2,958,917	2,971,166	2,991,317	2,994,706	3,006,050	3,017,041	3,036,756
Ind., Inst., & Cmcl. Interrup. Therms	3,783,140	3,815,262	3,834,664	3,858,910	3,882,769	3,910,921	3,927,126	3,947,705	3,967,768	3,993,228
Total Core Therms	90,096,540	91,937,054	93,014,520	94,490,336	95,979,565	97,887,443	98,972,171	100,478,413	101,994,300	103,961,106
Daily Baseload Therms	59,468	60,434	61,411	62,392	63,385	64,378	65,378	66,381	67,392	68,410
Peak Day Therms	1,155,032	1,173,228	1,191,624	1,210,125	1,228,778	1,247,460	1,266,237	1,285,076	1,304,019	1,323,064
Therms Per Residential Customer	11,110	11,155	11,110	11,110	11,110	11,155	11,110	11,110	11,110	11,155
Therms Per Commercial Customer	62,670	62,943	62,670	62,670	62,670	62,943	62,670	62,670	62,670	62,943
Therms Per Industrial Customer	220,582	221,122	220,582	220,582	220,582	221,122	220,582	220,582	220,582	221,122
Residential Customers	70,991	72,090	73,203	74,328	75,457	76,590	77,727	78,868	80,013	81,163
Commercial Customers	12,138	12,345	12,555	12,764	12,976	13,189	13,403	13,619	13,837	14,056
Industrial Customers	136	137	138	138	139	139	139	140	140	141
Interruptible Customers	19	19	20	20	20	20	20	20	20	21
Total Core Customers	83,285	84,592	85,914	87,249	88,591	89,938	91,290	92,647	94,011	95,381

Washington	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.22%	1.63%	0.78%	1.18%	1.17%	1.57%	0.71%	1.11%	1.09%	1.50%
Residential Therms	135,814,077	137,954,668	138,868,676	140,404,337	141,928,516	144,084,388	144,941,407	146,430,094	147,907,403	150,045,161
Commercial Therms	100,067,257	101,902,414	102,898,453	104,317,828	105,741,904	107,611,896	108,586,253	110,005,708	111,430,006	113,319,692
Industrial Therms	14,071,535	14,168,828	14,185,586	14,238,465	14,289,842	14,378,306	14,385,976	14,431,577	14,474,997	14,557,534
Ind., Inst., & Cmcl. Interrup. Therms	13,945,498	14,174,198	14,326,147	14,515,380	14,703,753	14,931,549	15,077,042	15,261,140	15,444,032	15,667,985
Total Core Therms	263,898,367	268,200,108	270,278,862	273,476,011	276,664,014	281,006,139	282,990,679	286,128,518	289,256,438	293,590,373
Daily Baseload Therms	205,855	208,325	210,801	213,275	215,742	218,197	220,640	223,069	225,491	227,900
Peak Day Therms	2,940,600	2,976,478	3,012,485	3,048,531	3,084,470	3,120,230	3,155,810	3,191,197	3,226,477	3,261,564
Therms Per Residential Customer	34,914	35,045	34,913	34,912	34,912	35,044	34,911	34,911	34,910	35,042
Therms Per Commercial Customer	138,361	138,766	138,346	138,339	138,332	138,738	138,319	138,313	138,307	138,714
Therms Per Industrial Customer	1,026,676	1,028,957	1,026,573	1,026,523	1,026,475	1,028,762	1,026,384	1,026,340	1,026,297	1,028,590
Residential Customers	205,421	207,703	209,995	212,293	214,573	216,835	219,079	221,304	223,512	225,703
Commercial Customers	30,389	30,820	31,253	31,686	32,120	32,555	32,988	33,422	33,857	34,291
Industrial Customers	478	480	481	483	484	485	486	487	488	489
Interruptible Customers	113	114	116	117	119	121	122	124	125	127
Total Core Customers	236,402	239,117	241,844	244,579	247,296	249,995	252,675	255,337	257,982	260,609

System	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.32%	1.74%	0.88%	1.29%	1.27%	1.68%	0.81%	1.22%	1.20%	1.61%
Residential Therms	184,407,899	187,581,591	189,103,228	191,474,669	193,839,066	197,071,650	198,544,434	200,885,854	203,219,925	206,467,344
Commercial Therms	134,866,019	137,455,347	138,897,296	140,920,006	142,956,984	145,609,839	147,033,565	149,074,606	151,126,974	153,828,632
Industrial Therms	16,992,350	17,110,765	17,132,046	17,197,381	17,261,008	17,369,623	17,380,682	17,437,627	17,492,038	17,594,290
Ind., Inst., & Cmcl. Interrup. Therms	17,728,638	17,989,460	18,160,811	18,374,291	18,586,521	18,842,470	19,004,168	19,208,844	19,411,801	19,661,213
Total Core Therms	353,994,907	360,137,162	363,293,382	367,966,347	372,643,579	378,893,582	381,962,850	386,606,931	391,250,738	397,551,479
Daily Baseload Therms	265,323	268,759	272,212	275,667	279,127	282,576	286,018	289,450	292,883	296,310
Peak Day Therms	4,095,632	4,149,706	4,204,109	4,258,656	4,313,247	4,367,690	4,422,047	4,476,273	4,530,496	4,584,628
Therms Per Residential Customer	46,023	46,200	46,022	46,022	46,021	46,199	46,021	46,020	46,020	46,197
Therms Per Commercial Customer	201,031	201,709	201,016	201,009	201,002	201,681	200,989	200,983	200,977	201,657
Therms Per Industrial Customer	1,247,259	1,250,079	1,247,155	1,247,106	1,247,057	1,249,884	1,246,966	1,246,922	1,246,880	1,249,711
Residential Customers	276,412	279,793	283,197	286,620	290,030	293,424	296,806	300,172	303,525	306,867
Commercial Customers	42,528	43,165	43,807	44,449	45,096	45,744	46,392	47,041	47,694	48,346
Industrial Customers	615	617	619	621	622	624	625	627	628	630
Interruptible Customers	132	134	135	137	139	141	142	144	146	147
Total Core Customers	319,687	323,709	327,759	331,828	335,888	339,932	343,965	347,984	351,992	355,990

Athena	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.42%	0.41%	0.89%	-0.09%	0.39%	0.38%	0.87%	-0.11%	0.37%
Residential Therms	263,244	264,065	264,888	266,984	266,531	267,351	268,170	270,276	269,799	270,601
Commercial Therms	125,570	126,377	127,162	128,560	128,652	129,385	130,086	131,451	131,488	132,170
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	388,814	390,442	392,050	395,544	395,183	396,737	398,256	401,727	401,287	402,771
Daily Baseload Therms	423	425	426	428	429	431	433	434	436	437
Peak Day Therms	4,738	4,758	4,778	4,797	4,817	4,836	4,855	4,874	4,892	4,911
Therms Per Residential Customer	521	521	521	524	521	521	521	524	521	521
Therms Per Commercial Customer	1,964	1,964	1,964	1,974	1,964	1,964	1,964	1,974	1,964	1,964
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	505	506	508	510	511	513	514	516	517	519
Commercial Customers	64	64	65	65	65	66	66	67	67	67
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	569	571	573	575	577	579	580	582	584	586

Baker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.27%	0.26%	0.70%	-0.23%	0.24%	0.21%	0.68%	-0.25%	0.21%
Residential Therms	2,129,680	2,132,642	2,135,533	2,148,777	2,141,305	2,144,185	2,146,996	2,160,148	2,152,541	2,155,211
Commercial Therms	1,560,292	1,567,177	1,574,076	1,587,204	1,586,021	1,592,201	1,597,537	1,610,484	1,608,761	1,614,563
Industrial Therms	70,926	71,063	71,145	71,145	71,063	70,981	70,817	70,735	70,489	70,162
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	3,760,898	3,770,882	3,780,755	3,807,126	3,798,389	3,807,367	3,815,350	3,841,368	3,831,791	3,839,936
Daily Baseload Therms	1,621	1,626	1,631	1,635	1,638	1,642	1,645	1,649	1,652	1,655
Peak Day Therms	42,976	43,088	43,198	43,297	43,396	43,497	43,587	43,680	43,772	43,864
Therms Per Residential Customer	655	655	655	658	655	655	655	658	655	655
Therms Per Commercial Customer	3,127	3,127	3,127	3,141	3,127	3,127	3,127	3,141	3,127	3,127
Therms Per Industrial Customer	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523
Residential Customers	3,253	3,257	3,262	3,266	3,271	3,275	3,279	3,284	3,288	3,292
Commercial Customers	499	501	503	505	507	509	511	513	515	516
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,755	3,762	3,768	3,775	3,781	3,787	3,793	3,799	3,805	3,811

Umatilla	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.56%	0.51%	0.77%	0.17%	0.45%	0.41%	0.70%	0.09%	0.38%
Residential Therms	287,215	288,117	289,020	291,374	290,824	291,726	292,625	294,990	294,415	295,298
Commercial Therms	271,803	273,665	275,448	278,387	278,743	280,290	281,854	284,723	284,810	286,275
Industrial Therms	69,933	70,359	70,745	71,094	71,431	71,728	72,023	72,285	72,526	72,767
Ind., Inst., & Cmcl. Interrup. Therms	575,393	578,892	582,016	585,768	587,717	590,548	592,870	596,089	597,489	599,639
Total Core Therms	1,204,343	1,211,032	1,217,230	1,226,622	1,228,715	1,234,292	1,239,371	1,248,087	1,249,240	1,253,978
Daily Baseload Therms	1,190	1,197	1,204	1,210	1,216	1,221	1,226	1,232	1,236	1,241
Peak Day Therms	16,751	16,842	16,927	17,007	17,084	17,161	17,230	17,301	17,366	17,431
Therms Per Residential Customer	274	274	274	276	274	274	274	276	274	274
Therms Per Commercial Customer	1,686	1,686	1,686	1,694	1,686	1,686	1,686	1,694	1,686	1,686
Therms Per Industrial Customer	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970
Residential Customers	1,047	1,050	1,054	1,057	1,060	1,064	1,067	1,070	1,073	1,077
Commercial Customers	161	162	163	164	165	166	167	168	169	170
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	1,217	1,222	1,226	1,231	1,235	1,239	1,243	1,248	1,252	1,256

Chemult	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.31%	0.28%	0.61%	-0.09%	0.23%	0.23%	0.58%	-0.13%	0.20%
Residential Therms	9,981	10,000	10,020	10,074	10,059	10,079	10,098	10,152	10,136	10,155
Commercial Therms	37,261	37,385	37,498	37,734	37,705	37,797	37,887	38,111	38,064	38,141
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	47,241	47,385	47,518	47,809	47,764	47,876	47,985	48,263	48,200	48,296
Daily Baseload Therms	54	54	55	55	55	55	55	55	55	55
Peak Day Therms	578	580	581	583	584	586	587	588	590	591
Therms Per Residential Customer	399	399	399	400	399	399	399	400	399	399
Therms Per Commercial Customer	1,781	1,781	1,781	1,787	1,781	1,781	1,781	1,787	1,781	1,781
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	25	25	25	25	25	25	25	25	25	25
Commercial Customers	21	21	21	21	21	21	21	21	21	21
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	46	46	46	46	46	46	47	47	47	47

Gilchrist	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.25%	0.23%	0.67%	-0.24%	0.19%	0.18%	0.63%	-0.29%	0.15%
Residential Therms	96,001	96,191	96,381	96,999	96,758	96,946	97,132	97,749	97,500	97,679
Commercial Therms	126,894	127,266	127,590	128,474	128,166	128,406	128,621	129,426	129,017	129,169
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	222,895	223,458	223,971	225,473	224,924	225,352	225,754	227,175	226,517	226,848
Daily Baseload Therms	98	98	99	99	99	99	99	100	100	100
Peak Day Therms	2,980	2,987	2,994	3,001	3,007	3,013	3,018	3,023	3,028	3,033
Therms Per Residential Customer	527	527	527	530	527	527	527	530	527	527
Therms Per Commercial Customer	3,236	3,236	3,236	3,251	3,236	3,236	3,236	3,251	3,236	3,236
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	182	182	183	183	183	184	184	185	185	185
Commercial Customers	39	39	39	40	40	40	40	40	40	40
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	221	222	222	223	223	224	224	224	225	225

Hermiston	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.56%	0.54%	0.99%	0.07%	0.52%	0.51%	0.97%	0.04%	0.50%
Residential Therms	2,325,517	2,332,768	2,340,041	2,358,910	2,354,549	2,361,799	2,369,027	2,387,994	2,383,417	2,390,507
Commercial Therms	2,580,766	2,601,255	2,621,289	2,652,488	2,660,400	2,679,813	2,698,830	2,729,773	2,736,889	2,755,697
Industrial Therms	182,073	182,646	183,147	183,574	183,945	184,270	184,568	184,810	185,011	185,196
Ind., Inst., & Cmcl. Interrup. Therms	300,989	302,594	304,291	307,970	307,688	309,415	311,119	314,949	314,647	316,396
Total Core Therms	5,389,345	5,419,264	5,448,768	5,502,942	5,506,581	5,535,297	5,563,544	5,617,526	5,619,963	5,647,795
Daily Baseload Therms	4,362	4,389	4,416	4,442	4,467	4,493	4,518	4,542	4,567	4,592
Peak Day Therms	72,328	72,711	73,091	73,464	73,835	74,204	74,569	74,933	75,296	75,655
Therms Per Residential Customer	646	646	646	649	646	646	646	649	646	646
Therms Per Commercial Customer	3,623	3,623	3,623	3,639	3,623	3,623	3,623	3,639	3,623	3,623
Therms Per Industrial Customer	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585
Residential Customers	3,599	3,610	3,622	3,633	3,644	3,655	3,666	3,678	3,689	3,700
Commercial Customers	712	718	723	729	734	740	745	750	755	761
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	4,323	4,340	4,356	4,373	4,390	4,406	4,423	4,439	4,456	4,472

Huntington	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.19%	0.22%	0.71%	-0.38%	0.17%	0.16%	0.71%	-0.39%	0.16%
Residential Therms	51,675	51,747	51,817	52,172	51,957	52,027	52,095	52,448	52,230	52,295
Commercial Therms	28,057	28,140	28,244	28,461	28,373	28,442	28,500	28,715	28,621	28,689
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	79,732	79,887	80,061	80,633	80,331	80,469	80,595	81,164	80,850	80,983
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	1,237	1,239	1,242	1,244	1,246	1,248	1,250	1,252	1,254	1,256
Therms Per Residential Customer	408	408	408	410	408	408	408	410	408	408
Therms Per Commercial Customer	1,853	1,853	1,853	1,863	1,853	1,853	1,853	1,863	1,853	1,853
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	127	127	127	127	127	127	128	128	128	128
Commercial Customers	15	15	15	15	15	15	15	15	15	15
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	142	142	142	142	143	143	143	143	143	144

La Pine	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.21%	1.19%	1.51%	0.83%	1.15%	1.13%	1.45%	0.78%	1.09%
Residential Therms	120,428	121,713	123,009	124,315	125,631	126,958	128,293	129,639	130,992	132,353
Commercial Therms	343,271	347,603	351,888	357,736	360,426	364,697	368,942	374,827	377,394	381,594
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	463,699	469,315	474,896	482,051	486,057	491,655	497,235	504,465	508,387	513,947
Daily Baseload Therms	397	402	406	411	416	421	425	430	435	439
Peak Day Therms	5,483	5,549	5,615	5,681	5,747	5,813	5,879	5,945	6,010	6,076
Therms Per Residential Customer	579	579	579	579	579	579	579	579	579	579
Therms Per Commercial Customer	2,645	2,645	2,645	2,657	2,645	2,645	2,645	2,657	2,645	2,645
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	208	210	212	215	217	219	222	224	226	229
Commercial Customers	130	131	133	135	136	138	139	141	143	144
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	338	342	345	349	353	357	361	365	369	373

Madras	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.63%	0.62%	1.00%	0.14%	0.55%	0.54%	0.94%	0.08%	0.51%
Residential Therms	597,767	600,761	603,755	609,637	609,723	612,710	615,684	621,603	621,600	624,544
Commercial Therms	1,081,983	1,089,723	1,097,377	1,109,469	1,111,855	1,119,181	1,126,388	1,138,626	1,140,652	1,148,037
Industrial Therms	655,668	658,533	661,386	666,924	665,641	667,335	669,024	673,726	671,550	672,669
Ind., Inst., & Cmcl. Interrup. Therms	259,825	262,559	265,265	267,944	270,545	273,120	275,672	278,150	280,555	282,940
Total Core Therms	2,595,242	2,611,577	2,627,783	2,653,974	2,657,764	2,672,346	2,686,768	2,712,105	2,714,358	2,728,191
Daily Baseload Therms	1,203	1,211	1,220	1,228	1,236	1,243	1,251	1,259	1,266	1,274
Peak Day Therms	34,547	34,762	34,976	35,175	35,370	35,561	35,750	35,934	36,111	36,291
Therms Per Residential Customer	517	517	517	520	517	517	517	520	517	517
Therms Per Commercial Customer	2,887	2,887	2,887	2,900	2,887	2,887	2,887	2,900	2,887	2,887
Therms Per Industrial Customer	38,109	38,109	38,109	38,297	38,109	38,109	38,109	38,297	38,109	38,109
Residential Customers	1,155	1,161	1,167	1,172	1,178	1,184	1,190	1,195	1,201	1,207
Commercial Customers	375	377	380	383	385	388	390	393	395	398
Industrial Customers	17	17	17	17	17	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,548	1,557	1,565	1,573	1,582	1,590	1,599	1,607	1,615	1,623

Milton-Freewater	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.60%	0.58%	1.00%	0.08%	0.53%	0.51%	0.96%	0.05%	0.49%
Residential Therms	106,780	107,113	107,447	108,358	108,113	108,446	108,778	109,694	109,438	109,764
Commercial Therms	308,240	310,473	312,629	316,128	316,712	318,715	320,655	324,086	324,571	326,506
Industrial Therms	23,603	23,671	23,726	23,766	23,797	23,817	23,834	23,841	23,841	23,831
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	438,623	441,257	443,801	448,252	448,621	450,978	453,266	457,621	457,849	460,100
Daily Baseload Therms	432	435	438	440	443	445	448	450	452	454
Peak Day Therms	5,774	5,808	5,840	5,871	5,901	5,931	5,960	5,989	6,018	6,047
Therms Per Residential Customer	466	466	466	469	466	466	466	469	466	466
Therms Per Commercial Customer	3,056	3,056	3,056	3,070	3,056	3,056	3,056	3,070	3,056	3,056
Therms Per Industrial Customer	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072
Residential Customers	229	230	230	231	232	232	233	234	235	235
Commercial Customers	101	102	102	103	104	104	105	106	106	107
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	336	337	338	340	341	343	344	345	347	348

Mission Tap	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.65%	0.64%	1.07%	0.18%	0.63%	0.61%	1.06%	0.17%	0.60%
Residential Therms	105,987	106,318	106,649	107,481	107,310	107,641	107,970	108,807	108,626	108,949
Commercial Therms	359,926	362,608	365,282	369,510	370,543	373,228	375,816	380,100	381,125	383,746
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	465,913	468,926	471,931	476,992	477,853	480,869	483,786	488,907	489,751	492,695
Daily Baseload Therms	490	493	496	499	503	506	509	512	516	519
Peak Day Therms	5,585	5,620	5,656	5,691	5,726	5,762	5,796	5,832	5,867	5,902
Therms Per Residential Customer	495	495	495	497	495	495	495	497	495	495
Therms Per Commercial Customer	8,334	8,334	8,334	8,370	8,334	8,334	8,334	8,370	8,334	8,334
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	214	215	215	216	217	217	218	219	219	220
Commercial Customers	43	44	44	44	44	45	45	45	46	46
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	257	258	259	260	261	262	263	264	265	266

Nyssa-Ontario	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.19%	0.17%	0.56%	-0.28%	0.11%	0.11%	0.50%	-0.34%	0.06%
Residential Therms	1,873,451	1,875,567	1,877,680	1,889,689	1,881,778	1,883,762	1,885,714	1,897,634	1,889,459	1,891,223
Commercial Therms	2,314,737	2,319,734	2,323,937	2,339,423	2,330,613	2,333,306	2,336,084	2,350,313	2,340,489	2,342,219
Industrial Therms	161,832	161,819	161,717	161,382	161,072	160,692	160,222	159,706	159,076	158,401
Ind., Inst., & Cmcl. Interrup. Therms	913,752	916,881	919,746	921,994	924,108	925,699	927,160	928,226	928,918	929,343
Total Core Therms	5,263,771	5,274,001	5,283,080	5,312,488	5,297,571	5,303,459	5,309,180	5,335,879	5,317,942	5,321,186
Daily Baseload Therms	2,067	2,068	2,068	2,065	2,061	2,056	2,051	2,044	2,035	2,026
Peak Day Therms	70,482	70,625	70,752	70,865	70,967	71,059	71,149	71,230	71,299	71,362
Therms Per Residential Customer	518	518	518	521	518	518	518	521	518	518
Therms Per Commercial Customer	2,563	2,563	2,563	2,576	2,563	2,563	2,563	2,576	2,563	2,563
Therms Per Industrial Customer	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186
Residential Customers	3,616	3,620	3,624	3,628	3,632	3,636	3,639	3,643	3,647	3,650
Commercial Customers	903	905	907	908	910	911	912	913	913	914
Industrial Customers	20	20	20	20	20	20	20	20	19	19
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	4,541	4,547	4,552	4,558	4,563	4,568	4,572	4,577	4,581	4,585

Pendleton	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.58%	0.56%	0.79%	0.29%	0.52%	0.51%	0.75%	0.25%	0.49%
Residential Therms	1,712,103	1,717,441	1,722,796	1,728,145	1,733,477	1,738,815	1,744,136	1,749,452	1,754,730	1,759,950
Commercial Therms	1,884,856	1,899,857	1,914,569	1,938,131	1,943,301	1,957,601	1,971,582	1,995,021	1,999,664	2,013,548
Industrial Therms	190,036	190,584	191,022	192,419	191,594	191,758	191,894	193,021	191,948	191,866
Ind., Inst., & Cmcl. Interrup. Therms	658,946	663,723	668,283	673,433	676,857	680,888	684,802	689,381	692,218	695,740
Total Core Therms	4,445,941	4,471,605	4,496,670	4,532,127	4,545,230	4,569,062	4,592,413	4,626,875	4,638,560	4,661,105
Daily Baseload Therms	3,928	3,952	3,976	3,998	4,021	4,043	4,065	4,086	4,108	4,129
Peak Day Therms	79,077	79,489	79,892	80,287	80,676	81,062	81,441	81,817	82,189	82,555
Therms Per Residential Customer	352	352	352	352	352	352	352	352	352	352
Therms Per Commercial Customer	2,497	2,497	2,497	2,509	2,497	2,497	2,497	2,509	2,497	2,497
Therms Per Industrial Customer	31,415	31,415	31,415	31,591	31,415	31,415	31,415	31,591	31,415	31,415
Residential Customers	4,867	4,882	4,897	4,913	4,928	4,943	4,958	4,973	4,988	5,003
Commercial Customers	755	761	767	773	778	784	790	795	801	806
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	5,631	5,652	5,673	5,694	5,715	5,736	5,757	5,778	5,798	5,819

Prineville	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.51%	0.50%	0.94%	0.01%	0.46%	0.42%	0.87%	-0.03%	0.39%
Residential Therms	1,166,550	1,170,178	1,173,768	1,183,080	1,180,915	1,184,446	1,187,939	1,197,196	1,194,814	1,198,197
Commercial Therms	1,352,865	1,362,159	1,371,287	1,387,022	1,389,328	1,398,220	1,406,640	1,421,493	1,423,131	1,431,144
Industrial Therms	515,107	518,335	521,464	525,758	526,958	529,698	532,184	536,297	537,264	539,621
Ind., Inst., & Cmcl. Interrup. Therms	132,199	132,340	132,411	133,062	132,200	131,988	131,355	131,577	130,302	129,462
Total Core Therms	3,166,722	3,183,013	3,198,930	3,228,921	3,229,401	3,244,352	3,258,118	3,286,563	3,285,512	3,298,424
Daily Baseload Therms	1,321	1,328	1,336	1,343	1,350	1,357	1,364	1,371	1,377	1,383
Peak Day Therms	43,384	43,604	43,818	44,029	44,229	44,430	44,615	44,801	44,983	45,156
Therms Per Residential Customer	500	500	500	502	500	500	500	502	500	500
Therms Per Commercial Customer	2,672	2,672	2,672	2,685	2,672	2,672	2,672	2,685	2,672	2,672
Therms Per Industrial Customer	17,698	17,698	17,698	17,747	17,698	17,698	17,698	17,747	17,698	17,698
Residential Customers	2,334	2,341	2,348	2,355	2,362	2,369	2,376	2,383	2,390	2,397
Commercial Customers	506	510	513	517	520	523	526	530	533	536
Industrial Customers	29	29	29	30	30	30	30	30	30	30
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	2,871	2,882	2,893	2,903	2,914	2,925	2,935	2,945	2,955	2,965

Redmond	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.12%	1.10%	1.53%	0.63%	1.07%	1.05%	1.49%	0.59%	1.02%
Residential Therms	4,130,257	4,174,327	4,218,782	4,283,331	4,308,718	4,354,213	4,400,014	4,466,770	4,492,586	4,539,264
Commercial Therms	3,050,641	3,090,462	3,129,845	3,183,799	3,208,418	3,247,758	3,286,870	3,341,299	3,364,815	3,403,559
Industrial Therms	502,220	505,694	508,950	513,670	514,898	517,664	520,260	524,503	525,178	527,491
Ind., Inst., & Cmcl. Interrup. Therms	238,742	239,805	240,747	241,547	242,268	242,889	243,411	243,894	244,299	244,665
Total Core Therms	7,921,860	8,010,288	8,098,323	8,222,348	8,274,302	8,362,523	8,450,556	8,576,466	8,626,879	8,714,978
Daily Baseload Therms	4,687	4,734	4,781	4,827	4,873	4,919	4,964	5,010	5,054	5,099
Peak Day Therms	102,310	103,470	104,627	105,785	106,945	108,109	109,272	110,438	111,604	112,770
Therms Per Residential Customer	612	612	612	615	612	612	612	615	612	612
Therms Per Commercial Customer	2,636	2,636	2,636	2,648	2,636	2,636	2,636	2,648	2,636	2,636
Therms Per Industrial Customer	38,749	38,749	38,749	38,877	38,749	38,749	38,749	38,877	38,749	38,749
Residential Customers	6,744	6,816	6,889	6,962	7,036	7,110	7,185	7,260	7,336	7,412
Commercial Customers	1,157	1,172	1,187	1,202	1,217	1,232	1,247	1,262	1,276	1,291
Industrial Customers	13	13	13	13	13	13	13	13	14	14
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	7,916	8,003	8,090	8,179	8,267	8,357	8,446	8,537	8,627	8,718

Stanfield	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.44%	0.43%	0.57%	0.25%	0.41%	0.40%	0.56%	0.23%	0.38%
Residential Therms	123,140	123,524	123,909	124,294	124,677	125,061	125,444	125,826	126,206	126,581
Commercial Therms	68,186	68,640	69,082	69,804	69,915	70,327	70,717	71,424	71,508	71,892
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	191,326	192,164	192,991	194,098	194,592	195,388	196,161	197,250	197,714	198,473
Daily Baseload Therms	245	247	248	249	250	251	252	252	253	254
Peak Day Therms	2,939	2,951	2,964	2,976	2,987	2,999	3,011	3,022	3,034	3,045
Therms Per Residential Customer	400	400	400	400	400	400	400	400	400	400
Therms Per Commercial Customer	1,937	1,937	1,937	1,945	1,937	1,937	1,937	1,945	1,937	1,937
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	308	309	310	311	312	313	314	315	316	317
Commercial Customers	35	35	36	36	36	36	37	37	37	37
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	343	345	346	347	348	349	350	352	353	354

Stearns (Sunriver)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.11%	1.10%	1.53%	0.65%	1.08%	1.07%	1.50%	0.62%	1.05%
Residential Therms	3,442,039	3,478,765	3,515,812	3,569,453	3,590,763	3,628,676	3,666,846	3,722,319	3,743,993	3,782,893
Commercial Therms	1,098,220	1,111,828	1,125,307	1,142,830	1,152,164	1,165,622	1,178,968	1,196,577	1,205,576	1,218,762
Industrial Therms	17,906	18,016	18,121	18,219	18,313	18,403	18,488	18,572	18,652	18,730
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	4,558,165	4,608,609	4,659,240	4,730,502	4,761,239	4,812,701	4,864,302	4,937,468	4,968,221	5,020,386
Daily Baseload Therms	3,753	3,796	3,840	3,883	3,926	3,970	4,013	4,057	4,101	4,144
Peak Day Therms	52,922	53,500	54,082	54,666	55,254	55,846	56,440	57,039	57,639	58,242
Therms Per Residential Customer	957	957	957	962	957	957	957	962	957	957
Therms Per Commercial Customer	4,833	4,833	4,833	4,850	4,833	4,833	4,833	4,850	4,833	4,833
Therms Per Industrial Customer	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886
Residential Customers	3,596	3,634	3,673	3,712	3,751	3,791	3,831	3,871	3,911	3,952
Commercial Customers	227	230	233	236	238	241	244	247	249	252
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,826	3,867	3,909	3,951	3,993	4,035	4,078	4,121	4,164	4,207

Pronghorn	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.15%	1.14%	1.53%	0.73%	1.12%	1.10%	1.49%	0.69%	1.08%
Residential Therms	301,602	304,820	308,067	312,601	314,634	317,956	321,301	325,988	328,060	331,469
Commercial Therms	210,692	213,375	216,035	219,501	221,343	224,004	226,648	230,139	231,920	234,537
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	512,295	518,196	524,101	532,101	535,977	541,960	547,949	556,127	559,980	566,006
Daily Baseload Therms	687	695	703	711	719	727	735	743	751	759
Peak Day Therms	4,914	4,970	5,026	5,082	5,139	5,196	5,253	5,310	5,367	5,425
Therms Per Residential Customer	1,503	1,503	1,503	1,509	1,503	1,503	1,503	1,509	1,503	1,503
Therms Per Commercial Customer	8,544	8,544	8,544	8,576	8,544	8,544	8,544	8,576	8,544	8,544
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	201	203	205	207	209	212	214	216	218	221
Commercial Customers	25	25	25	26	26	26	27	27	27	27
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	225	228	230	233	235	238	240	243	245	248

Bend Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.14%	1.12%	1.56%	0.66%	1.10%	1.09%	1.52%	0.63%	1.06%
Residential Therms	21,536,266	21,766,058	21,997,854	22,331,314	22,466,809	22,704,028	22,942,849	23,287,676	23,425,546	23,668,936
Commercial Therms	11,550,914	11,699,894	11,846,790	12,045,300	12,139,031	12,284,948	12,429,805	12,628,932	12,717,745	12,860,527
Industrial Therms	308,216	309,875	311,391	312,745	314,003	315,155	316,198	317,205	318,127	319,010
Ind., Inst., & Cmcl. Interrup. Therms	332,563	335,154	337,654	341,147	342,461	344,795	347,077	350,469	351,617	353,883
Total Core Therms	33,727,959	34,110,981	34,493,689	35,030,506	35,262,303	35,648,925	36,035,930	36,584,282	36,813,035	37,202,357
Daily Baseload Therms	22,241	22,495	22,748	23,001	23,255	23,510	23,765	24,020	24,275	24,531
Peak Day Therms	414,715	419,414	424,111	428,822	433,551	438,301	443,057	447,831	452,611	457,399
Therms Per Residential Customer	779	779	779	782	779	779	779	782	779	779
Therms Per Commercial Customer	2,795	2,795	2,795	2,808	2,795	2,795	2,795	2,808	2,795	2,795
Therms Per Industrial Customer	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391
Residential Customers	27,653	27,948	28,246	28,545	28,848	29,152	29,459	29,768	30,079	30,391
Commercial Customers	4,132	4,185	4,238	4,290	4,342	4,395	4,446	4,498	4,549	4,600
Industrial Customers	15	15	15	15	15	15	16	16	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	31,803	32,152	32,502	32,854	33,209	33,566	33,924	34,285	34,647	35,011

McCleary (Aberdeen/Hoquiam)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.39%	0.37%	0.79%	-0.08%	0.33%	0.32%	0.74%	-0.13%	0.30%
Residential Therms	2,534,796	2,541,199	2,547,622	2,565,816	2,560,418	2,566,793	2,573,151	2,591,382	2,585,735	2,591,926
Commercial Therms	2,454,921	2,466,756	2,478,259	2,500,163	2,500,250	2,510,941	2,521,574	2,543,151	2,542,481	2,553,016
Industrial Therms	226,015	226,202	226,256	227,052	225,726	225,175	224,355	224,370	222,360	221,075
Ind., Inst., & Cmcl. Interrup. Therms	935,887	941,300	946,403	954,221	955,691	959,930	963,925	970,784	971,157	974,409
Total Core Therms	6,151,619	6,175,458	6,198,540	6,247,252	6,242,086	6,262,839	6,283,005	6,329,687	6,321,733	6,340,425
Daily Baseload Therms	6,005	6,031	6,056	6,080	6,102	6,123	6,144	6,163	6,182	6,199
Peak Day Therms	54,799	54,997	55,190	55,376	55,555	55,731	55,902	56,070	56,233	56,394
Therms Per Residential Customer	724	724	724	727	724	724	724	727	724	724
Therms Per Commercial Customer	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298
Therms Per Industrial Customer	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180
Residential Customers	3,503	3,512	3,521	3,530	3,539	3,547	3,556	3,565	3,574	3,582
Commercial Customers	744	748	751	755	758	761	765	768	771	774
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,265	4,278	4,290	4,302	4,314	4,327	4,338	4,350	4,362	4,374

Acme	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.73%	0.72%	1.18%	0.22%	0.69%	0.68%	1.16%	0.20%	0.66%
Residential Therms	50,420	50,755	51,091	51,671	51,768	52,109	52,452	53,045	53,140	53,485
Commercial Therms	35,521	35,812	36,096	36,549	36,649	36,920	37,186	37,630	37,712	37,970
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	85,941	86,567	87,188	88,220	88,417	89,029	89,638	90,674	90,852	91,455
Daily Baseload Therms	34	34	35	35	35	35	36	36	36	36
Peak Day Therms	972	979	986	993	1,000	1,007	1,014	1,021	1,028	1,035
Therms Per Residential Customer	754	754	754	757	754	754	754	757	754	754
Therms Per Commercial Customer	3,878	3,878	3,878	3,897	3,878	3,878	3,878	3,897	3,878	3,878
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	67	67	68	68	69	69	70	70	70	71
Commercial Customers	9	9	9	9	9	10	10	10	10	10
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	76	77	77	78	78	79	79	80	80	81

Arlington	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.66%	0.64%	1.03%	0.22%	0.61%	0.60%	0.99%	0.18%	0.57%
Residential Therms	3,439,335	3,461,032	3,482,854	3,519,063	3,526,787	3,548,897	3,571,081	3,608,007	3,615,655	3,637,965
Commercial Therms	1,915,125	1,929,306	1,942,744	1,963,229	1,968,008	1,980,092	1,991,835	2,011,181	2,014,675	2,025,806
Industrial Therms	327,053	328,836	330,437	333,116	333,232	334,462	335,575	337,833	337,536	338,401
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	5,681,513	5,719,174	5,756,035	5,815,408	5,828,027	5,863,451	5,898,491	5,957,020	5,967,866	6,002,172
Daily Baseload Therms	6,633	6,678	6,721	6,763	6,805	6,846	6,886	6,927	6,967	7,006
Peak Day Therms	53,841	54,197	54,546	54,889	55,228	55,564	55,896	56,226	56,554	56,879
Therms Per Residential Customer	731	731	731	734	731	731	731	734	731	731
Therms Per Commercial Customer	3,389	3,389	3,389	3,402	3,389	3,389	3,389	3,402	3,389	3,389
Therms Per Industrial Customer	11,772	11,772	11,772	11,816	11,772	11,772	11,772	11,816	11,772	11,772
Residential Customers	4,706	4,736	4,766	4,796	4,826	4,856	4,886	4,917	4,947	4,978
Commercial Customers	565	569	573	577	581	584	588	591	595	598
Industrial Customers	28	28	28	28	28	28	29	29	29	29
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	5,299	5,333	5,367	5,401	5,435	5,469	5,503	5,537	5,570	5,604

Bremerton (Shelton)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.68%	0.67%	1.08%	0.23%	0.65%	0.65%	1.06%	0.22%	0.63%
Residential Therms	21,268,797	21,390,760	21,513,239	21,734,224	21,759,607	21,883,403	22,007,555	22,232,276	22,256,548	22,380,927
Commercial Therms	10,787,924	10,878,910	10,967,343	11,101,338	11,140,379	11,225,639	11,310,993	11,443,079	11,479,878	11,563,883
Industrial Therms	302,393	304,446	306,435	308,266	310,034	311,750	313,389	314,988	316,564	318,098
Ind., Inst., & Cmcl. Interrup. Therms	2,398,726	2,420,364	2,441,785	2,466,663	2,483,967	2,504,931	2,525,511	2,549,750	2,566,251	2,586,113
Total Core Therms	34,757,840	34,994,480	35,228,802	35,610,492	35,693,987	35,925,723	36,157,448	36,540,093	36,619,241	36,849,021
Daily Baseload Therms	26,721	26,914	27,105	27,296	27,484	27,672	27,861	28,048	28,235	28,421
Peak Day Therms	346,834	349,170	351,485	353,793	356,085	358,377	360,669	362,952	365,239	367,512
Therms Per Residential Customer	675	675	675	678	675	675	675	678	675	675
Therms Per Commercial Customer	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	31,516	31,697	31,878	32,060	32,243	32,427	32,611	32,795	32,980	33,164
Commercial Customers	2,983	3,008	3,033	3,057	3,080	3,104	3,128	3,151	3,174	3,197
Industrial Customers	16	16	16	16	16	16	16	16	17	17
Interruptible Customers	10	10	10	10	10	11	11	11	11	11
Total Core Customers	34,525	34,731	34,937	35,144	35,350	35,558	35,765	35,973	36,181	36,389

Castle Rock	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.66%	0.64%	0.89%	0.33%	0.59%	0.58%	0.84%	0.29%	0.56%
Residential Therms	30,981	31,098	31,215	31,331	31,447	31,563	31,678	31,793	31,906	32,019
Commercial Therms	124,388	125,299	126,185	127,474	127,876	128,698	129,516	130,759	131,122	131,928
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	155,368	156,397	157,399	158,805	159,323	160,261	161,194	162,552	163,028	163,947
Daily Baseload Therms	175	177	178	179	180	181	182	183	185	186
Peak Day Therms	1,530	1,539	1,549	1,558	1,567	1,576	1,585	1,593	1,602	1,611
Therms Per Residential Customer	472	472	472	472	472	472	472	472	472	472
Therms Per Commercial Customer	2,506	2,506	2,506	2,514	2,506	2,506	2,506	2,514	2,506	2,506
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	66	66	66	66	67	67	67	67	68	68
Commercial Customers	50	50	50	51	51	51	52	52	52	53
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	115	116	116	117	118	118	119	119	120	120

Walla Walla	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.51%	0.50%	0.96%	0.01%	0.47%	0.46%	0.92%	-0.02%	0.44%
Residential Therms	6,496,930	6,517,187	6,537,434	6,590,206	6,577,635	6,597,539	6,617,330	6,669,992	6,656,475	6,675,623
Commercial Therms	4,256,017	4,283,927	4,311,143	4,357,825	4,363,267	4,388,806	4,413,770	4,459,420	4,462,676	4,486,723
Industrial Therms	84,071	84,444	84,774	85,053	85,312	85,529	85,715	85,879	86,021	86,152
Ind., Inst., & Cmcl. Interrup. Therms	1,701,780	1,717,658	1,733,246	1,755,331	1,763,723	1,778,445	1,792,907	1,813,746	1,820,647	1,834,130
Total Core Therms	12,538,799	12,603,217	12,666,597	12,788,415	12,789,937	12,850,319	12,909,722	13,029,036	13,025,819	13,082,627
Daily Baseload Therms	11,744	11,812	11,878	11,944	12,008	12,071	12,132	12,193	12,252	12,310
Peak Day Therms	172,119	172,954	173,777	174,583	175,377	176,162	176,934	177,696	178,446	179,186
Therms Per Residential Customer	598	598	598	601	598	598	598	601	598	598
Therms Per Commercial Customer	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	10,864	10,898	10,931	10,965	10,999	11,032	11,065	11,098	11,130	11,162
Commercial Customers	1,286	1,295	1,303	1,311	1,319	1,327	1,334	1,342	1,349	1,356
Industrial Customers	15	15	15	15	15	15	15	15	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	12,168	12,211	12,253	12,295	12,336	12,377	12,418	12,458	12,498	12,537

Deming	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.37%	1.35%	1.82%	0.90%	1.36%	1.35%	1.82%	0.87%	1.33%
Residential Therms	13,355	13,444	13,533	13,688	13,712	13,803	13,893	14,052	14,076	14,167
Commercial Therms	69,875	70,674	71,482	72,587	73,115	73,946	74,784	75,938	76,485	77,345
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	70,056	71,268	72,477	74,084	74,980	76,256	77,542	79,248	80,157	81,484
Total Core Therms	153,286	155,386	157,491	160,359	161,807	164,004	166,219	169,237	170,718	172,996
Daily Baseload Therms	99	100	101	102	103	104	106	107	108	109
Peak Day Therms	1,639	1,662	1,685	1,709	1,733	1,757	1,782	1,807	1,831	1,857
Therms Per Residential Customer	527	527	527	530	527	527	527	530	527	527
Therms Per Commercial Customer	5,690	5,690	5,690	5,713	5,690	5,690	5,690	5,713	5,690	5,690
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	25	26	26	26	26	26	26	27	27	27
Commercial Customers	12	12	13	13	13	13	13	13	13	14
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	39	39	39	40	40	40	41	41	41	42

Wenatchee	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.76%	0.74%	1.10%	0.31%	0.69%	0.68%	1.05%	0.28%	0.66%
Residential Therms	621,838	625,400	628,975	635,486	636,156	639,764	643,380	649,992	650,621	654,237
Commercial Therms	3,415,489	3,443,483	3,470,535	3,512,208	3,523,106	3,548,858	3,574,623	3,615,469	3,625,497	3,650,791
Industrial Therms	336,896	338,899	340,848	342,682	344,490	346,239	347,931	349,581	351,193	352,767
Ind., Inst., & Cmcl. Interrup. Therms	217,684	219,204	220,661	222,077	223,456	224,825	226,187	227,532	228,885	230,222
Total Core Therms	4,591,907	4,626,985	4,661,018	4,712,453	4,727,207	4,759,687	4,792,121	4,842,574	4,856,197	4,888,018
Daily Baseload Therms	4,452	4,487	4,520	4,553	4,585	4,616	4,648	4,679	4,711	4,742
Peak Day Therms	47,543	47,902	48,251	48,594	48,929	49,262	49,594	49,922	50,250	50,576
Therms Per Residential Customer	443	443	443	445	443	443	443	445	443	443
Therms Per Commercial Customer	4,889	4,889	4,889	4,910	4,889	4,889	4,889	4,910	4,889	4,889
Therms Per Industrial Customer	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936
Residential Customers	1,403	1,411	1,419	1,427	1,436	1,444	1,452	1,460	1,468	1,476
Commercial Customers	699	704	710	715	721	726	731	736	742	747
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	2,120	2,134	2,147	2,161	2,174	2,188	2,201	2,215	2,228	2,242

Finley	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.06%	1.02%	1.53%	0.45%	0.96%	0.94%	1.46%	0.38%	0.89%
Residential Therms	13,667	13,786	13,906	14,099	14,148	14,270	14,393	14,591	14,639	14,763
Commercial Therms	84,366	85,284	86,179	87,518	87,925	88,782	89,629	90,946	91,294	92,115
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	98,034	99,071	100,086	101,617	102,073	103,052	104,022	105,537	105,934	106,878
Daily Baseload Therms	38	38	39	39	40	40	40	41	41	41
Peak Day Therms	1,674	1,692	1,710	1,727	1,744	1,760	1,777	1,793	1,810	1,826
Therms Per Residential Customer	520	520	520	523	520	520	520	523	520	520
Therms Per Commercial Customer	6,295	6,295	6,295	6,328	6,295	6,295	6,295	6,328	6,295	6,295
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	26	27	27	27	27	27	28	28	28	28
Commercial Customers	13	14	14	14	14	14	14	14	15	15
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	40	40	40	41	41	42	42	42	43	43

Grandview	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.48%	0.45%	0.44%	0.42%	0.41%	0.40%	0.39%	0.38%	0.37%
Residential Therms	683,647	685,888	688,126	690,352	692,569	694,776	696,967	699,147	701,301	703,430
Commercial Therms	800,954	806,412	811,695	816,853	821,893	826,875	831,811	836,721	841,591	846,414
Industrial Therms	699,854	702,532	704,967	707,177	709,220	711,066	712,775	714,345	715,812	717,178
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	2,184,455	2,194,833	2,204,788	2,214,383	2,223,681	2,232,716	2,241,554	2,250,212	2,258,704	2,267,022
Daily Baseload Therms	1,506	1,513	1,519	1,525	1,531	1,536	1,541	1,546	1,550	1,555
Peak Day Therms	25,811	25,940	26,064	26,186	26,305	26,422	26,537	26,651	26,764	26,875
Therms Per Residential Customer	714	714	714	714	714	714	714	714	714	714
Therms Per Commercial Customer	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234
Therms Per Industrial Customer	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682
Residential Customers	957	960	963	967	970	973	976	979	982	985
Commercial Customers	189	190	192	193	194	195	196	198	199	200
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	1,154	1,159	1,163	1,168	1,172	1,176	1,181	1,185	1,189	1,193

Zillah (Toppenish)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.53%	0.52%	0.91%	0.08%	0.47%	0.46%	0.87%	0.04%	0.44%
Residential Therms	1,032,416	1,035,800	1,039,179	1,047,697	1,045,888	1,049,221	1,052,531	1,061,044	1,059,076	1,062,291
Commercial Therms	1,989,369	2,002,960	2,016,159	2,038,398	2,041,706	2,054,202	2,066,582	2,088,440	2,091,063	2,103,129
Industrial Therms	422,350	423,819	425,100	426,204	427,176	428,006	428,732	429,368	429,932	430,427
Ind., Inst., & Cmcl. Interrup. Therms	48,642	48,882	49,116	49,349	49,577	49,801	50,022	50,238	50,449	50,658
Total Core Therms	3,492,777	3,511,460	3,529,554	3,561,647	3,564,347	3,581,230	3,597,868	3,629,089	3,630,521	3,646,505
Daily Baseload Therms	3,000	3,015	3,029	3,042	3,055	3,068	3,080	3,091	3,103	3,114
Peak Day Therms	41,603	41,821	42,032	42,236	42,435	42,630	42,822	43,012	43,199	43,383
Therms Per Residential Customer	538	538	538	541	538	538	538	541	538	538
Therms Per Commercial Customer	3,861	3,861	3,861	3,879	3,861	3,861	3,861	3,879	3,861	3,861
Therms Per Industrial Customer	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025
Residential Customers	1,918	1,925	1,931	1,937	1,943	1,950	1,956	1,962	1,968	1,974
Commercial Customers	515	519	522	526	529	532	535	538	542	545
Industrial Customers	22	22	22	22	22	22	23	23	23	23
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,457	2,467	2,476	2,486	2,496	2,505	2,515	2,524	2,533	2,542

Kalama #2	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.27%	0.23%	0.30%	-0.03%	0.06%	0.02%	0.11%	-0.19%	-0.06%
Residential Therms	199,374	200,127	200,880	201,630	202,378	203,122	203,863	204,601	205,331	206,055
Commercial Therms	185,717	186,435	187,068	188,447	188,142	188,607	189,042	190,261	189,828	190,212
Industrial Therms	231,053	231,221	231,238	230,986	230,380	229,522	228,464	227,206	225,749	224,246
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	616,144	617,784	619,186	621,063	620,899	621,250	621,369	622,067	620,909	620,513
Daily Baseload Therms	1,091	1,093	1,094	1,095	1,095	1,093	1,091	1,089	1,086	1,083
Peak Day Therms	5,523	5,539	5,554	5,566	5,575	5,582	5,587	5,591	5,593	5,594
Therms Per Residential Customer	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169
Therms Per Commercial Customer	3,961	3,961	3,961	3,978	3,961	3,961	3,961	3,978	3,961	3,961
Therms Per Industrial Customer	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719
Residential Customers	171	171	172	172	173	174	174	175	176	176
Commercial Customers	47	47	47	47	47	48	48	48	48	48
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	220	221	222	223	224	224	225	226	227	227

Lawrence	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.72%	0.71%	1.17%	0.23%	0.69%	0.69%	1.15%	0.21%	0.67%
Residential Therms	43,927	44,218	44,511	45,010	45,101	45,398	45,697	46,207	46,296	46,597
Commercial Therms	20,495	20,670	20,842	21,114	21,174	21,338	21,500	21,770	21,821	21,981
Industrial Therms	681	685	689	692	695	698	701	704	707	710
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	65,104	65,574	66,042	66,817	66,970	67,434	67,898	68,681	68,825	69,287
Daily Baseload Therms	31	31	32	32	32	32	32	33	33	33
Peak Day Therms	737	743	748	753	758	764	769	774	780	785
Therms Per Residential Customer	720	720	720	724	720	720	720	724	720	720
Therms Per Commercial Customer	1,189	1,189	1,189	1,195	1,189	1,189	1,189	1,195	1,189	1,189
Therms Per Industrial Customer	671	671	671	671	671	671	671	671	671	671
Residential Customers	61	61	62	62	63	63	63	64	64	65
Commercial Customers	17	17	18	18	18	18	18	18	18	18
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	79	80	80	81	81	82	83	83	84	84

Moxee (Beauchene)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.52%	0.50%	0.57%	0.38%	0.46%	0.44%	0.53%	0.34%	0.42%
Residential Therms	329,276	330,382	331,491	333,971	333,710	334,821	335,931	338,436	338,146	339,247
Commercial Therms	587,515	590,981	594,317	597,556	600,736	603,916	607,027	610,146	613,204	616,254
Industrial Therms	283,457	284,883	286,242	287,529	288,771	289,971	291,121	292,244	293,343	294,414
Ind., Inst., & Cmcl. Interrup. Therms	312,635	314,569	316,380	318,078	319,705	321,277	322,776	324,247	325,698	327,109
Total Core Therms	1,512,882	1,520,814	1,528,429	1,537,134	1,542,922	1,549,986	1,556,854	1,565,073	1,570,392	1,577,024
Daily Baseload Therms	671	676	681	686	691	695	699	704	708	712
Peak Day Therms	13,864	13,967	14,065	14,160	14,252	14,343	14,432	14,519	14,606	14,691
Therms Per Residential Customer	200	200	200	201	199	199	199	200	199	199
Therms Per Commercial Customer	1,429	1,426	1,422	1,419	1,416	1,413	1,410	1,407	1,404	1,401
Therms Per Industrial Customer	19,568	19,525	19,484	19,446	19,409	19,375	19,342	19,310	19,279	19,250
Residential Customers	1,644	1,651	1,658	1,666	1,673	1,680	1,687	1,695	1,702	1,709
Commercial Customers	411	415	418	421	424	427	431	434	437	440
Industrial Customers	14	15	15	15	15	15	15	15	15	15
Interruptible Customers	5	5	5	5	5	5	5	5	5	5
Total Core Customers	2,074	2,085	2,096	2,106	2,117	2,128	2,138	2,149	2,159	2,169

Othello	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.38%	0.37%	0.53%	0.17%	0.33%	0.32%	0.48%	0.13%	0.30%
Residential Therms	612,052	613,728	615,414	620,193	618,757	620,429	622,082	626,862	625,358	626,982
Commercial Therms	711,472	714,417	717,206	719,793	722,343	724,763	727,045	729,266	731,512	733,805
Industrial Therms	190,478	191,315	192,092	192,744	193,373	193,965	194,485	194,933	195,402	195,799
Ind., Inst., & Cmcl. Interrup. Therms	212,880	214,050	215,265	216,384	217,544	218,697	219,804	220,902	222,040	223,134
Total Core Therms	1,726,882	1,733,509	1,739,976	1,749,114	1,752,017	1,757,854	1,763,416	1,771,963	1,774,312	1,779,720
Daily Baseload Therms	2,554	2,564	2,574	2,583	2,592	2,601	2,608	2,616	2,623	2,631
Peak Day Therms	21,568	21,654	21,738	21,817	21,896	21,973	22,046	22,118	22,191	22,263
Therms Per Residential Customer	563	563	563	565	562	562	562	565	562	562
Therms Per Commercial Customer	2,538	2,537	2,537	2,536	2,536	2,535	2,535	2,535	2,534	2,534
Therms Per Industrial Customer	17,140	17,138	17,136	17,135	17,134	17,133	17,132	17,131	17,130	17,130
Residential Customers	1,088	1,091	1,094	1,097	1,100	1,103	1,106	1,109	1,112	1,115
Commercial Customers	280	282	283	284	285	286	287	288	289	290
Industrial Customers	11	11	11	11	11	11	11	11	11	11
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	1,382	1,386	1,391	1,395	1,399	1,403	1,407	1,411	1,415	1,419

North Pasco	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.85%	0.84%	1.16%	0.50%	0.82%	0.81%	1.13%	0.47%	0.79%
Residential Therms	2,518,639	2,539,628	2,560,742	2,596,028	2,603,310	2,624,758	2,646,294	2,682,473	2,689,648	2,711,398
Commercial Therms	1,454,031	1,467,046	1,479,766	1,492,226	1,504,699	1,516,986	1,529,240	1,541,397	1,553,609	1,565,631
Industrial Therms	77,774	78,219	78,630	79,026	79,401	79,757	80,092	80,419	80,730	81,035
Ind., Inst., & Cmcl. Interrup. Therms	150,240	151,665	153,060	154,432	155,791	157,157	158,518	159,888	161,259	162,629
Total Core Therms	4,200,684	4,236,558	4,272,198	4,321,713	4,343,201	4,378,658	4,414,143	4,464,177	4,485,247	4,520,693
Daily Baseload Therms	2,118	2,136	2,154	2,171	2,189	2,206	2,223	2,241	2,258	2,275
Peak Day Therms	66,548	67,119	67,686	68,250	68,815	69,379	69,943	70,508	71,075	71,638
Therms Per Residential Customer	1,316	1,316	1,316	1,323	1,316	1,316	1,316	1,323	1,316	1,316
Therms Per Commercial Customer	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178
Therms Per Industrial Customer	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394
Residential Customers	1,914	1,929	1,945	1,962	1,978	1,994	2,010	2,027	2,043	2,060
Commercial Customers	203	204	206	208	210	211	213	215	216	218
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,119	2,137	2,155	2,173	2,191	2,209	2,227	2,245	2,263	2,281

Patterson	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.38%	0.37%	0.37%	0.36%	0.34%	0.34%	0.33%	0.33%	0.32%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	8,658	8,692	8,725	8,755	8,784	8,812	8,838	8,863	8,887	8,910
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	204,826	205,607	206,369	207,127	207,865	208,583	209,298	209,995	210,688	211,362
Total Core Therms	213,484	214,300	215,093	215,882	216,649	217,395	218,136	218,858	219,575	220,273
Daily Baseload Therms	259	260	261	263	264	265	266	267	268	269
Peak Day Therms	2,465	2,477	2,488	2,500	2,511	2,521	2,532	2,542	2,553	2,563
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	2,706	2,704	2,703	2,701	2,700	2,698	2,697	2,696	2,695	2,694
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	3	3	3	3	3	3	3	3	3	3
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4	4	4	4	4	4	4	4	4	4

Prosser	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.80%	0.77%	1.23%	0.27%	0.72%	0.72%	1.18%	0.23%	0.69%
Residential Therms	234,059	236,099	238,152	241,422	242,294	244,383	246,482	249,839	250,709	252,832
Commercial Therms	432,363	436,444	440,453	446,476	448,350	452,270	456,196	462,251	464,058	467,999
Industrial Therms	159,947	160,407	160,784	161,787	161,307	161,470	161,584	162,360	161,681	161,633
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	826,370	832,951	839,390	849,685	851,951	858,122	864,262	874,449	876,449	882,464
Daily Baseload Therms	494	498	501	505	508	511	515	518	521	524
Peak Day Therms	9,175	9,249	9,321	9,393	9,463	9,533	9,603	9,672	9,741	9,809
Therms Per Residential Customer	516	516	516	519	516	516	516	519	516	516
Therms Per Commercial Customer	3,110	3,110	3,110	3,124	3,110	3,110	3,110	3,124	3,110	3,110
Therms Per Industrial Customer	31,722	31,722	31,722	31,861	31,722	31,722	31,722	31,861	31,722	31,722
Residential Customers	453	457	461	465	469	473	477	481	485	490
Commercial Customers	139	140	142	143	144	145	147	148	149	151
Industrial Customers	5	5	5	5	5	5	5	5	5	5
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	597	603	608	613	618	624	629	634	640	645

Quincy	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.73%	0.70%	0.67%	0.65%	0.64%	0.62%	0.62%	0.60%	0.59%
Residential Therms	39,907	40,197	40,490	40,784	41,079	41,376	41,674	41,974	42,274	42,575
Commercial Therms	459,503	463,247	466,874	470,411	473,888	477,362	480,773	484,195	487,557	490,910
Industrial Therms	199,470	200,831	202,139	203,397	204,618	205,804	206,941	208,057	209,140	210,204
Ind., Inst., & Cmcl. Interrup. Therms	109,228	109,760	110,259	110,697	111,105	111,482	111,858	112,204	112,577	112,892
Total Core Therms	808,108	814,035	819,762	825,289	830,690	836,024	841,246	846,429	851,549	856,581
Daily Baseload Therms	895	902	908	914	920	926	932	938	943	949
Peak Day Therms	9,421	9,491	9,558	9,624	9,688	9,751	9,812	9,874	9,934	9,994
Therms Per Residential Customer	659	659	659	659	659	659	659	659	659	659
Therms Per Commercial Customer	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167
Therms Per Industrial Customer	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756
Residential Customers	61	61	61	62	62	63	63	64	64	65
Commercial Customers	64	65	65	66	66	67	67	68	68	68
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	132	133	134	135	136	137	138	139	140	141

Sunnyside	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.50%	0.48%	0.84%	0.05%	0.43%	0.42%	0.80%	0.01%	0.39%
Residential Therms	1,041,407	1,044,821	1,048,230	1,056,772	1,054,998	1,058,359	1,061,698	1,070,234	1,068,300	1,071,543
Commercial Therms	1,487,401	1,496,924	1,506,061	1,521,768	1,523,473	1,531,905	1,540,221	1,555,497	1,556,636	1,564,706
Industrial Therms	556,782	558,852	560,688	562,302	563,765	565,040	566,156	567,129	567,989	568,731
Ind., Inst., & Cmcl. Interrup. Therms	155,492	156,640	157,757	159,540	159,925	160,995	162,061	163,841	164,200	165,269
Total Core Therms	3,241,083	3,257,237	3,272,736	3,300,381	3,302,160	3,316,299	3,330,136	3,356,702	3,357,125	3,370,250
Daily Baseload Therms	2,934	2,948	2,961	2,974	2,985	2,997	3,008	3,018	3,028	3,038
Peak Day Therms	35,554	35,731	35,901	36,065	36,225	36,382	36,535	36,687	36,836	36,983
Therms Per Residential Customer	562	562	562	565	562	562	562	565	562	562
Therms Per Commercial Customer	2,840	2,840	2,840	2,853	2,840	2,840	2,840	2,853	2,840	2,840
Therms Per Industrial Customer	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468
Residential Customers	1,852	1,858	1,864	1,870	1,876	1,882	1,888	1,894	1,900	1,905
Commercial Customers	524	527	530	533	536	539	542	545	548	551
Industrial Customers	16	16	16	16	16	16	16	16	16	17
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	2,394	2,403	2,412	2,422	2,431	2,440	2,449	2,458	2,466	2,475

Moses Lake	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.72%	0.68%	1.04%	0.21%	0.58%	0.55%	0.93%	0.12%	0.50%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	90,976	91,591	92,187	92,764	93,331	93,884	94,414	94,933	95,435	95,922
Industrial Therms	2,839,867	2,860,313	2,879,734	2,909,980	2,915,579	2,932,451	2,948,593	2,976,485	2,979,676	2,994,496
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	2,930,843	2,951,904	2,971,921	3,002,744	3,008,911	3,026,335	3,043,007	3,071,418	3,075,111	3,090,417
Daily Baseload Therms	3,015	3,036	3,057	3,076	3,095	3,113	3,130	3,147	3,163	3,179
Peak Day Therms	28,067	28,269	28,460	28,641	28,814	28,981	29,141	29,296	29,449	29,596
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929
Therms Per Industrial Customer	399,066	399,066	399,066	400,714	399,066	399,066	399,066	400,714	399,066	399,066
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	7	7	7	7	7	7	7	7	7	8
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	12	12	12	12	13	13	13	13	13	13

Woodland	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.89%	0.86%	0.92%	0.72%	0.80%	0.79%	0.87%	0.68%	0.76%
Residential Therms	364,514	368,607	372,740	376,933	381,113	385,355	389,630	393,968	398,283	402,651
Commercial Therms	702,299	709,586	716,705	723,715	730,648	737,567	744,464	751,387	758,307	765,242
Industrial Therms	348,320	349,488	350,444	352,540	351,871	352,391	352,800	354,439	353,376	353,563
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,415,133	1,427,681	1,439,889	1,453,189	1,463,633	1,475,313	1,486,895	1,499,794	1,509,966	1,521,456
Daily Baseload Therms	1,130	1,138	1,146	1,153	1,160	1,167	1,174	1,180	1,187	1,193
Peak Day Therms	16,183	16,338	16,491	16,641	16,790	16,938	17,086	17,233	17,381	17,529
Therms Per Residential Customer	593	593	593	593	593	593	593	593	593	593
Therms Per Commercial Customer	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488
Therms Per Industrial Customer	24,651	24,651	24,651	24,743	24,651	24,651	24,651	24,743	24,651	24,651
Residential Customers	615	622	629	636	643	650	658	665	672	680
Commercial Customers	201	203	205	208	209	211	213	215	217	219
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	831	840	849	858	867	876	885	895	904	913

A/M Rendering	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.67%	0.66%	1.04%	0.29%	0.66%	0.66%	1.03%	0.28%	0.65%
Residential Therms	431,624	434,486	437,365	441,884	443,162	446,082	449,014	453,628	454,907	457,859
Commercial Therms	3,832	3,869	3,904	3,953	3,975	4,010	4,044	4,093	4,114	4,149
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	435,456	438,355	441,269	445,837	447,137	450,092	453,058	457,721	459,020	462,008
Daily Baseload Therms	710	714	719	724	729	734	738	743	748	753
Peak Day Therms	2,998	3,018	3,038	3,058	3,078	3,099	3,119	3,139	3,160	3,181
Therms Per Residential Customer	14,198	14,198	14,198	14,251	14,198	14,198	14,198	14,251	14,198	14,198
Therms Per Commercial Customer	3,753	3,753	3,753	3,766	3,753	3,753	3,753	3,766	3,753	3,753
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	30	31	31	31	31	31	32	32	32	32
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	31	32	32	32	32	32	33	33	33	33

LDS Church	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.77%	0.74%	1.22%	0.20%	0.69%	0.68%	1.18%	0.16%	0.65%
Residential Therms	2,539	2,555	2,572	2,602	2,606	2,624	2,641	2,672	2,675	2,693
Commercial Therms	7,008	7,064	7,118	7,207	7,222	7,273	7,324	7,410	7,423	7,471
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	9,546	9,619	9,691	9,809	9,829	9,897	9,964	10,082	10,098	10,164
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	121	122	123	124	125	126	126	127	128	129
Therms Per Residential Customer	1,253	1,253	1,253	1,259	1,253	1,253	1,253	1,259	1,253	1,253
Therms Per Commercial Customer	6,883	6,883	6,883	6,917	6,883	6,883	6,883	6,917	6,883	6,883
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	3	3	3	3	3	3	3

Kalama #1	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.38%	0.38%	0.37%	0.37%	0.37%	0.36%	0.36%	0.36%	0.35%
Residential Therms	968	972	976	979	983	987	990	994	997	1,001
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	968	972	976	979	983	987	990	994	997	1,001
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	11	11	11	11	11	11	11	11	11	11
Therms Per Residential Customer	320	320	320	320	320	320	320	320	320	320
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	3	3	3	3	3	3	3	3	3	3
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	3	3	3	3	3	3	3

Dehawn Dairy	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.33%	0.33%	0.79%	-0.14%	0.32%	0.32%	0.78%	-0.16%	0.30%
Residential Therms	1,269	1,273	1,277	1,287	1,286	1,290	1,294	1,304	1,302	1,306
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,269	1,273	1,277	1,287	1,286	1,290	1,294	1,304	1,302	1,306
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	15	15	15	15	15	15	15	15	15	15
Therms Per Residential Customer	630	630	630	633	630	630	630	633	630	630
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

Yakima Chief Ranch	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.33%	0.33%	0.98%	-0.33%	0.32%	0.32%	0.97%	-0.35%	0.30%
Residential Therms	423	424	426	430	429	430	431	435	434	435
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	423	424	426	430	429	430	431	435	434	435
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	6	6	6	6	6	6	6	6	6	6
Therms Per Residential Customer	210	210	210	212	210	210	210	212	210	210
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

7th Day School	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.40%	0.39%	0.89%	-0.13%	0.36%	0.35%	0.85%	-0.16%	0.33%
Residential Therms	9,998	10,030	10,063	10,149	10,128	10,160	10,192	10,279	10,256	10,287
Commercial Therms	3,436	3,458	3,479	3,517	3,519	3,539	3,558	3,595	3,596	3,615
Industrial Therms	1,779	1,786	1,791	1,803	1,801	1,805	1,809	1,818	1,815	1,817
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	15,213	15,274	15,334	15,470	15,449	15,505	15,560	15,692	15,667	15,719
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	198	198	199	200	201	201	202	203	203	204
Therms Per Residential Customer	903	903	903	908	903	903	903	908	903	903
Therms Per Commercial Customer	3,386	3,386	3,386	3,404	3,386	3,386	3,386	3,404	3,386	3,386
Therms Per Industrial Customer	1,762	1,762	1,762	1,768	1,762	1,762	1,762	1,768	1,762	1,762
Residential Customers	11	11	11	11	11	11	11	11	11	11
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	13	13	13	13	13	13	13	13	13	13

Yakima Training Center	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.65%	0.62%	1.12%	0.09%	0.58%	0.57%	1.07%	0.05%	0.55%
Residential Therms	3,330	3,341	3,351	3,379	3,373	3,384	3,395	3,422	3,416	3,426
Commercial Therms	290,248	292,137	293,964	297,254	297,516	299,262	300,980	304,222	304,386	306,070
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	293,578	295,477	297,315	300,633	300,890	302,646	304,374	307,645	307,802	309,496
Daily Baseload Therms	244	246	247	249	250	252	253	255	256	258
Peak Day Therms	3,781	3,805	3,829	3,852	3,875	3,898	3,920	3,942	3,964	3,986
Therms Per Residential Customer	132	132	132	133	132	132	132	133	132	132
Therms Per Commercial Customer	2,968	2,968	2,968	2,983	2,968	2,968	2,968	2,983	2,968	2,968
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	25	25	25	25	25	26	26	26	26	26
Commercial Customers	98	98	99	100	100	101	101	102	103	103
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	123	124	124	125	126	126	127	128	128	129

Burbank Heights Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.74%	0.73%	0.94%	0.49%	0.70%	0.70%	0.92%	0.46%	0.68%
Residential Therms	3,075,715	3,094,964	3,114,323	3,133,864	3,153,295	3,172,895	3,192,560	3,212,405	3,232,080	3,251,846
Commercial Therms	2,218,729	2,238,544	2,257,916	2,288,859	2,295,908	2,314,632	2,333,306	2,364,185	2,370,444	2,388,763
Industrial Therms	134,317	135,086	135,795	136,480	137,127	137,742	138,320	138,886	139,423	139,949
Ind., Inst., & Cmcl. Interrup. Therms	207,590	209,560	211,488	214,324	215,261	217,148	219,029	221,896	222,817	224,709
Total Core Therms	5,636,352	5,678,154	5,719,522	5,773,528	5,801,591	5,842,418	5,883,215	5,937,371	5,964,763	6,005,267
Daily Baseload Therms	4,417	4,450	4,482	4,513	4,545	4,577	4,608	4,639	4,671	4,702
Peak Day Therms	84,805	85,433	86,056	86,674	87,293	87,909	88,525	89,140	89,757	90,369
Therms Per Residential Customer	397	397	397	397	397	397	397	397	397	397
Therms Per Commercial Customer	2,679	2,679	2,679	2,693	2,679	2,679	2,679	2,693	2,679	2,679
Therms Per Industrial Customer	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873
Residential Customers	7,752	7,801	7,849	7,898	7,948	7,997	8,047	8,096	8,146	8,196
Commercial Customers	828	836	843	850	857	864	871	878	885	892
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	8,593	8,649	8,705	8,761	8,818	8,874	8,931	8,988	9,044	9,101

East Stanwood Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.71%	0.70%	1.13%	0.26%	0.69%	0.68%	1.11%	0.25%	0.67%
Residential Therms	5,408,017	5,441,133	5,474,433	5,532,644	5,541,466	5,575,192	5,609,029	5,668,367	5,676,995	5,711,005
Commercial Therms	3,280,844	3,309,769	3,338,073	3,380,682	3,394,252	3,422,415	3,450,473	3,493,377	3,506,818	3,535,007
Industrial Therms	140,947	142,078	143,130	144,134	145,090	146,026	146,956	147,880	148,785	149,711
Ind., Inst., & Cmcl. Interrup. Therms	444,559	447,243	449,961	454,064	455,438	458,235	461,064	465,324	466,781	469,679
Total Core Therms	9,274,367	9,340,224	9,405,597	9,511,524	9,536,246	9,601,867	9,667,522	9,774,948	9,799,379	9,865,403
Daily Baseload Therms	8,347	8,409	8,470	8,531	8,591	8,651	8,712	8,773	8,833	8,894
Peak Day Therms	92,750	93,402	94,050	94,699	95,346	95,997	96,648	97,301	97,956	98,611
Therms Per Residential Customer	676	676	676	679	676	676	676	679	676	676
Therms Per Commercial Customer	3,501	3,501	3,501	3,516	3,501	3,501	3,501	3,516	3,501	3,501
Therms Per Industrial Customer	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076
Residential Customers	8,005	8,054	8,103	8,153	8,203	8,253	8,303	8,353	8,403	8,454
Commercial Customers	937	945	953	961	969	977	985	993	1,002	1,010
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	5	5	5	5	5	5	5	5	5	5
Total Core Customers	8,950	9,007	9,065	9,122	9,180	9,238	9,296	9,355	9,413	9,472

Kennewick Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.98%	0.96%	1.40%	0.50%	0.94%	0.93%	1.37%	0.48%	0.91%
Residential Therms	9,303,964	9,385,036	9,466,660	9,596,032	9,631,295	9,714,330	9,797,774	9,930,569	9,965,802	10,050,190
Commercial Therms	9,186,021	9,284,921	9,382,654	9,522,444	9,576,856	9,673,925	9,771,147	9,912,737	9,966,163	10,063,988
Industrial Therms	173,509	174,650	175,753	176,832	177,893	178,925	179,934	180,912	181,877	182,811
Ind., Inst., & Cmcl. Interrup. Therms	1,098,081	1,109,958	1,121,619	1,133,164	1,144,602	1,156,027	1,167,458	1,178,938	1,190,416	1,201,947
Total Core Therms	19,761,575	19,954,565	20,146,686	20,428,473	20,530,646	20,723,206	20,916,313	21,203,155	21,304,258	21,498,937
Daily Baseload Therms	17,517	17,691	17,864	18,038	18,210	18,383	18,557	18,731	18,905	19,080
Peak Day Therms	274,127	276,778	279,419	282,062	284,703	287,354	290,014	292,683	295,358	298,041
Therms Per Residential Customer	645	645	645	649	645	645	645	649	645	645
Therms Per Commercial Customer	3,953	3,953	3,953	3,971	3,953	3,953	3,953	3,971	3,953	3,953
Therms Per Industrial Customer	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924
Residential Customers	14,415	14,541	14,667	14,794	14,922	15,051	15,180	15,310	15,441	15,571
Commercial Customers	2,324	2,349	2,373	2,398	2,423	2,447	2,472	2,496	2,521	2,546
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	12	12	12	13	13	13	13	13	13	13
Total Core Customers	16,760	16,911	17,062	17,214	17,367	17,520	17,674	17,829	17,984	18,140

Longview South Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.65%	0.63%	1.04%	0.15%	0.57%	0.55%	0.97%	0.10%	0.52%
Residential Therms	982,575	986,288	989,996	998,138	997,379	1,001,046	1,004,700	1,012,845	1,011,935	1,015,499
Commercial Therms	3,559,286	3,584,770	3,609,202	3,647,952	3,655,498	3,677,878	3,700,052	3,737,299	3,743,236	3,764,729
Industrial Therms	222,690	222,908	222,978	223,741	222,488	221,845	221,009	220,819	218,785	217,529
Ind., Inst., & Cmcl. Interrup. Therms	597,345	603,046	608,788	617,361	620,172	625,864	631,382	639,898	642,660	648,280
Total Core Therms	5,361,896	5,397,011	5,430,963	5,487,193	5,495,538	5,526,634	5,557,142	5,610,860	5,616,615	5,646,037
Daily Baseload Therms	4,825	4,857	4,887	4,916	4,943	4,970	4,997	5,023	5,048	5,073
Peak Day Therms	50,526	50,857	51,179	51,490	51,791	52,087	52,378	52,662	52,945	53,226
Therms Per Residential Customer	530	530	530	532	530	530	530	532	530	530
Therms Per Commercial Customer	4,064	4,064	4,064	4,082	4,064	4,064	4,064	4,082	4,064	4,064
Therms Per Industrial Customer	16,733	16,733	16,733	16,796	16,733	16,733	16,733	16,796	16,733	16,733
Residential Customers	1,854	1,861	1,868	1,875	1,882	1,889	1,895	1,902	1,909	1,916
Commercial Customers	876	882	888	894	899	905	910	916	921	926
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	6	6	6	6	6	6	6	7	7	7
Total Core Customers	2,749	2,762	2,775	2,788	2,801	2,813	2,825	2,838	2,850	2,862

Sedro-Woolley Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.70%	0.68%	1.13%	0.21%	0.66%	0.65%	1.10%	0.19%	0.64%
Residential Therms	16,583,395	16,684,827	16,786,703	16,967,283	16,991,887	17,095,112	17,198,621	17,382,652	17,406,531	17,510,543
Commercial Therms	8,117,350	8,192,801	8,266,221	8,375,314	8,409,137	8,479,866	8,549,913	8,658,993	8,690,081	8,760,135
Industrial Therms	1,120,273	1,125,109	1,129,293	1,137,161	1,136,181	1,139,042	1,141,552	1,148,025	1,145,684	1,147,440
Ind., Inst., & Cmcl. Interrup. Therms	1,185,511	1,192,718	1,199,501	1,211,320	1,212,052	1,217,975	1,223,725	1,234,576	1,234,547	1,239,851
Total Core Therms	27,006,529	27,195,456	27,381,718	27,691,078	27,749,256	27,931,994	28,113,811	28,424,245	28,476,843	28,657,969
Daily Baseload Therms	16,797	16,915	17,030	17,143	17,256	17,368	17,478	17,589	17,698	17,808
Peak Day Therms	288,939	290,960	292,954	294,930	296,898	298,861	300,815	302,773	304,722	306,672
Therms Per Residential Customer	665	665	665	668	665	665	665	668	665	665
Therms Per Commercial Customer	2,499	2,499	2,499	2,511	2,499	2,499	2,499	2,511	2,499	2,499
Therms Per Industrial Customer	13,114	13,114	13,114	13,163	13,114	13,114	13,114	13,163	13,114	13,114
Residential Customers	24,932	25,084	25,237	25,391	25,546	25,701	25,857	26,013	26,169	26,326
Commercial Customers	3,248	3,278	3,307	3,336	3,365	3,393	3,421	3,449	3,477	3,505
Industrial Customers	85	86	86	86	87	87	87	87	87	87
Interruptible Customers	10	10	10	10	10	10	10	11	11	11
Total Core Customers	28,275	28,458	28,641	28,824	29,007	29,191	29,375	29,560	29,744	29,929

Sumas SPE Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.75%	0.74%	1.18%	0.28%	0.72%	0.71%	1.16%	0.26%	0.70%
Residential Therms	30,159,536	30,359,492	30,560,630	30,903,423	30,965,744	31,169,752	31,374,589	31,724,749	31,786,355	31,992,663
Commercial Therms	14,200,121	14,332,903	14,462,979	14,653,693	14,717,573	14,843,857	14,969,425	15,160,018	15,219,934	15,344,592
Industrial Therms	1,128,134	1,133,198	1,137,630	1,145,798	1,144,922	1,147,998	1,150,688	1,157,489	1,155,355	1,157,376
Ind., Inst., & Cmcl. Interrup. Therms	976,669	987,335	997,843	1,012,904	1,018,815	1,029,363	1,039,982	1,055,525	1,061,526	1,072,430
Total Core Therms	46,464,459	46,812,927	47,159,082	47,715,819	47,847,054	48,190,968	48,534,684	49,097,781	49,223,170	49,567,061
Daily Baseload Therms	33,147	33,401	33,653	33,902	34,149	34,397	34,644	34,891	35,138	35,384
Peak Day Therms	484,985	488,601	492,196	495,775	499,351	502,930	506,509	510,097	513,681	517,265
Therms Per Residential Customer	703	703	703	706	703	703	703	706	703	703
Therms Per Commercial Customer	2,827	2,827	2,827	2,840	2,827	2,827	2,827	2,840	2,827	2,827
Therms Per Industrial Customer	20,187	20,187	20,187	20,263	20,187	20,187	20,187	20,263	20,187	20,187
Residential Customers	42,895	43,179	43,465	43,752	44,041	44,331	44,623	44,915	45,208	45,502
Commercial Customers	5,022	5,069	5,115	5,160	5,205	5,250	5,294	5,339	5,383	5,427
Industrial Customers	56	56	56	57	57	57	57	57	57	57
Interruptible Customers	12	12	12	12	12	13	13	13	13	13
Total Core Customers	47,985	48,316	48,649	48,982	49,316	49,651	49,987	50,324	50,661	50,999

Yakima Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.48%	0.46%	0.91%	-0.03%	0.42%	0.41%	0.87%	-0.06%	0.39%
Residential Therms	12,186,588	12,226,534	12,266,422	12,365,757	12,345,620	12,384,958	12,424,029	12,523,290	12,501,284	12,539,240
Commercial Therms	11,603,150	11,681,151	11,756,633	11,884,139	11,901,956	11,972,881	12,042,913	12,167,836	12,181,381	12,249,551
Industrial Therms	2,850,019	2,858,926	2,866,353	2,883,496	2,877,288	2,881,106	2,884,086	2,897,587	2,888,087	2,889,251
Ind., Inst., & Cmcl. Interrup. Therms	774,241	778,721	782,964	790,158	791,012	794,862	798,644	805,526	806,067	809,712
Total Core Therms	27,413,997	27,545,332	27,672,372	27,923,550	27,915,876	28,033,806	28,149,672	28,394,240	28,376,819	28,487,754
Daily Baseload Therms	16,868	16,951	17,029	17,104	17,176	17,247	17,315	17,382	17,447	17,511
Peak Day Therms	309,849	311,330	312,767	314,165	315,533	316,878	318,202	319,512	320,804	322,077
Therms Per Residential Customer	660	660	660	663	660	660	660	663	660	660
Therms Per Commercial Customer	3,455	3,455	3,455	3,471	3,455	3,455	3,455	3,471	3,455	3,455
Therms Per Industrial Customer	38,396	38,396	38,396	38,546	38,396	38,396	38,396	38,546	38,396	38,396
Residential Customers	18,461	18,522	18,582	18,642	18,702	18,762	18,821	18,880	18,938	18,995
Commercial Customers	3,358	3,381	3,403	3,424	3,445	3,465	3,486	3,506	3,526	3,545
Industrial Customers	74	74	75	75	75	75	75	75	75	75
Interruptible Customers	11	12	12	12	12	12	12	12	12	12
Total Core Customers	21,905	21,989	22,071	22,153	22,234	22,314	22,393	22,473	22,551	22,628

Zone 10	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.53%	0.51%	0.81%	0.16%	0.46%	0.45%	0.76%	0.12%	0.43%
Residential Therms	3,003,219	3,014,336	3,025,453	3,048,110	3,047,591	3,058,619	3,069,596	3,092,282	3,091,378	3,102,125
Commercial Therms	4,713,524	4,746,198	4,777,848	4,827,012	4,838,941	4,868,790	4,898,369	4,946,504	4,956,944	4,985,863
Industrial Therms	1,840,712	1,847,396	1,853,331	1,859,273	1,863,268	1,867,387	1,871,057	1,875,019	1,877,229	1,879,785
Ind., Inst., & Cmcl. Interrup. Therms	204,134	205,522	206,873	208,888	209,502	210,796	212,084	214,079	214,650	215,927
Total Core Therms	9,761,589	9,813,451	9,863,506	9,943,283	9,959,303	10,005,592	10,051,105	10,127,884	10,140,201	10,183,700
Daily Baseload Therms	7,935	7,975	8,012	8,047	8,081	8,113	8,144	8,174	8,204	8,232
Peak Day Therms	112,361	112,959	113,537	114,100	114,649	115,189	115,720	116,245	116,764	117,275
Therms Per Residential Customer	578	578	578	580	578	578	578	580	578	578
Therms Per Commercial Customer	3,445	3,445	3,445	3,458	3,445	3,445	3,445	3,458	3,445	3,445
Therms Per Industrial Customer	35,075	35,078	35,081	35,099	35,090	35,096	35,101	35,121	35,113	35,120
Residential Customers	5,196	5,215	5,235	5,254	5,273	5,293	5,312	5,331	5,350	5,369
Commercial Customers	1,368	1,378	1,387	1,396	1,405	1,413	1,422	1,430	1,439	1,447
Industrial Customers	52	53	53	53	53	53	53	53	53	54
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	6,619	6,648	6,677	6,706	6,734	6,762	6,790	6,818	6,846	6,873

Zone 11	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.53%	0.51%	0.92%	0.05%	0.47%	0.46%	0.87%	0.02%	0.43%
Residential Therms	13,180,938	13,225,853	13,270,729	13,379,377	13,359,938	13,404,302	13,448,408	13,557,114	13,535,742	13,578,725
Commercial Therms	16,355,905	16,470,998	16,582,323	16,761,568	16,797,203	16,902,280	17,006,316	17,181,869	17,212,025	17,313,576
Industrial Therms	3,669,841	3,683,539	3,695,582	3,717,104	3,715,166	3,723,120	3,730,078	3,747,469	3,741,763	3,746,636
Ind., Inst., & Cmcl. Interrup. Therms	1,413,788	1,422,254	1,430,263	1,441,011	1,445,278	1,452,446	1,459,464	1,469,509	1,473,227	1,479,936
Total Core Therms	34,620,472	34,802,643	34,978,897	35,299,059	35,317,585	35,482,149	35,644,267	35,955,961	35,962,757	36,118,873
Daily Baseload Therms	23,131	23,261	23,386	23,506	23,622	23,736	23,847	23,957	24,065	24,171
Peak Day Therms	384,458	386,495	388,470	390,395	392,277	394,131	395,960	397,770	399,558	401,324
Therms Per Residential Customer	610	610	610	613	610	610	610	613	610	610
Therms Per Commercial Customer	3,533	3,532	3,532	3,547	3,532	3,532	3,531	3,546	3,531	3,531
Therms Per Industrial Customer	33,518	33,500	33,482	33,565	33,446	33,427	33,408	33,489	33,370	33,351
Residential Customers	21,594	21,670	21,747	21,823	21,898	21,974	22,049	22,124	22,198	22,271
Commercial Customers	4,630	4,663	4,695	4,726	4,756	4,786	4,816	4,845	4,875	4,904
Industrial Customers	109	110	110	111	111	111	112	112	112	112
Interruptible Customers	20	21	21	21	21	21	21	21	21	22
Total Core Customers	26,354	26,464	26,572	26,680	26,786	26,892	26,998	27,102	27,206	27,309

Zone 20	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.87%	0.86%	1.22%	0.46%	0.82%	0.82%	1.19%	0.43%	0.80%
Residential Therms	15,524,038	15,647,142	15,771,044	15,960,217	16,020,805	16,146,682	16,273,102	16,466,899	16,527,527	16,655,180
Commercial Therms	13,745,595	13,881,804	14,015,907	14,203,604	14,281,062	14,412,973	14,544,781	14,733,464	14,808,457	14,940,223
Industrial Therms	3,415,945	3,439,584	3,462,004	3,495,062	3,503,374	3,522,841	3,541,424	3,571,635	3,577,107	3,594,091
Ind., Inst., & Cmcl. Interrup. Therms	1,668,791	1,685,233	1,701,433	1,718,305	1,733,198	1,749,029	1,764,809	1,781,623	1,796,532	1,812,419
Total Core Therms	34,354,369	34,653,762	34,950,388	35,377,189	35,538,439	35,831,524	36,124,116	36,553,621	36,709,624	37,001,913
Daily Baseload Therms	29,658	29,916	30,170	30,421	30,671	30,919	31,167	31,414	31,661	31,908
Peak Day Therms	476,789	480,944	485,069	489,170	493,265	497,357	501,446	505,539	509,639	513,732
Therms Per Residential Customer	616	616	616	619	617	617	617	620	617	618
Therms Per Commercial Customer	3,763	3,763	3,764	3,779	3,765	3,765	3,766	3,781	3,767	3,768
Therms Per Industrial Customer	89,905	90,002	90,097	90,497	90,273	90,356	90,439	90,836	90,608	90,691
Residential Customers	25,195	25,388	25,583	25,778	25,975	26,173	26,371	26,571	26,770	26,971
Commercial Customers	3,653	3,689	3,724	3,759	3,793	3,828	3,862	3,896	3,931	3,965
Industrial Customers	38	38	38	39	39	39	39	39	39	40
Interruptible Customers	20	20	20	20	21	21	21	21	21	22
Total Core Customers	28,906	29,135	29,365	29,596	29,828	30,060	30,293	30,527	30,762	30,997

Zone 24	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.22%	0.21%	0.62%	-0.26%	0.16%	0.15%	0.58%	-0.30%	0.12%
Residential Therms	4,054,806	4,059,955	4,065,031	4,090,638	4,075,040	4,079,974	4,084,805	4,110,230	4,094,231	4,098,728
Commercial Therms	3,903,086	3,915,051	3,926,257	3,955,088	3,945,008	3,953,949	3,962,121	3,989,513	3,977,870	3,985,471
Industrial Therms	232,758	232,883	232,862	232,527	232,136	231,673	231,039	230,441	229,566	228,563
Ind., Inst., & Cmcl. Interrup. Therms	913,752	916,881	919,746	921,994	924,108	925,699	927,160	928,226	928,918	929,343
Total Core Therms	9,104,401	9,124,770	9,143,896	9,200,247	9,176,291	9,191,295	9,205,125	9,258,410	9,230,584	9,242,106
Daily Baseload Therms	3,642	3,648	3,652	3,653	3,653	3,652	3,650	3,646	3,641	3,634
Peak Day Therms	114,695	114,951	115,191	115,406	115,608	115,803	115,985	116,162	116,325	116,482
Therms Per Residential Customer	580	580	580	583	580	580	580	583	580	580
Therms Per Commercial Customer	2,754	2,754	2,754	2,768	2,755	2,755	2,755	2,769	2,756	2,756
Therms Per Industrial Customer	10,215	10,219	10,222	10,226	10,227	10,229	10,230	10,234	10,235	10,234
Residential Customers	6,995	7,004	7,013	7,021	7,030	7,038	7,046	7,055	7,062	7,070
Commercial Customers	1,417	1,422	1,426	1,429	1,432	1,435	1,438	1,441	1,443	1,446
Industrial Customers	23	23	23	23	23	23	23	23	22	22
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,437	8,450	8,463	8,475	8,486	8,498	8,509	8,520	8,530	8,540

Zone 26	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.66%	0.63%	0.94%	0.25%	0.56%	0.55%	0.86%	0.20%	0.52%
Residential Therms	1,578,412	1,587,092	1,595,805	1,609,012	1,613,301	1,622,073	1,630,862	1,644,200	1,648,453	1,657,225
Commercial Therms	4,580,347	4,614,782	4,647,884	4,696,344	4,710,948	4,741,561	4,771,912	4,818,569	4,831,380	4,861,022
Industrial Therms	802,063	803,617	804,660	807,267	804,739	803,758	802,273	802,463	797,910	795,337
Ind., Inst., & Cmcl. Interrup. Therms	802,171	808,653	815,157	824,488	828,036	834,447	840,680	849,893	853,348	859,642
Total Core Therms	7,762,993	7,814,144	7,863,506	7,937,110	7,957,025	8,001,839	8,045,727	8,115,125	8,131,091	8,173,225
Daily Baseload Therms	7,481	7,525	7,567	7,606	7,643	7,678	7,711	7,743	7,774	7,804
Peak Day Therms	76,237	76,762	77,271	77,766	78,244	78,715	79,178	79,633	80,085	80,534
Therms Per Residential Customer	583	583	583	585	583	583	583	585	583	583
Therms Per Commercial Customer	3,892	3,892	3,892	3,905	3,891	3,891	3,891	3,904	3,890	3,890
Therms Per Industrial Customer	26,340	26,337	26,334	26,399	26,322	26,314	26,306	26,368	26,288	26,279
Residential Customers	2,708	2,723	2,738	2,753	2,768	2,783	2,798	2,813	2,828	2,843
Commercial Customers	1,177	1,186	1,194	1,203	1,211	1,219	1,226	1,234	1,242	1,250
Industrial Customers	30	31	31	31	31	31	30	30	30	30
Interruptible Customers	7	7	7	7	7	7	8	8	8	8
Total Core Customers	3,922	3,946	3,970	3,993	4,016	4,039	4,062	4,085	4,108	4,130

Zone 30-S	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.64%	0.63%	1.04%	0.19%	0.60%	0.60%	1.01%	0.17%	0.58%
Residential Therms	23,803,593	23,931,959	24,060,861	24,300,039	24,320,025	24,450,196	24,580,706	24,823,658	24,842,283	24,972,853
Commercial Therms	13,242,845	13,345,666	13,445,603	13,601,502	13,640,628	13,736,580	13,832,567	13,986,230	14,022,359	14,116,899
Industrial Therms	528,408	530,648	532,691	535,318	535,761	536,925	537,744	539,358	538,925	539,173
Ind., Inst., & Cmcl. Interrup. Therms	3,334,613	3,361,664	3,388,188	3,420,885	3,439,659	3,464,861	3,489,436	3,520,534	3,537,408	3,560,522
Total Core Therms	40,909,459	41,169,937	41,427,342	41,857,744	41,936,073	42,188,562	42,440,453	42,869,779	42,940,974	43,189,446
Daily Baseload Therms	32,726	32,946	33,162	33,375	33,586	33,796	34,004	34,211	34,417	34,621
Peak Day Therms	401,633	404,167	406,675	409,169	411,640	414,108	416,571	419,023	421,471	423,906
Therms Per Residential Customer	680	680	680	683	680	680	680	683	680	680
Therms Per Commercial Customer	3,553	3,553	3,553	3,568	3,554	3,554	3,554	3,569	3,554	3,554
Therms Per Industrial Customer	17,733	17,738	17,742	17,779	17,752	17,758	17,765	17,802	17,779	17,786
Residential Customers	35,019	35,209	35,399	35,590	35,782	35,974	36,167	36,360	36,553	36,746
Commercial Customers	3,727	3,756	3,784	3,812	3,838	3,865	3,892	3,919	3,945	3,972
Industrial Customers	30	30	30	30	30	30	30	30	30	30
Interruptible Customers	14	14	14	14	14	14	14	15	15	15
Total Core Customers	38,790	39,009	39,227	39,446	39,665	39,884	40,104	40,324	40,543	40,763

Zone 30-W	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.73%	0.71%	1.15%	0.25%	0.69%	0.68%	1.13%	0.23%	0.67%
Residential Therms	56,132,149	56,491,943	56,853,692	57,477,270	57,582,234	57,948,968	58,317,015	58,953,377	59,056,631	59,426,978
Commercial Therms	27,650,170	27,902,867	28,149,458	28,514,327	28,631,105	28,869,715	29,106,484	29,470,409	29,579,063	29,814,455
Industrial Therms	2,717,088	2,729,906	2,741,180	2,760,901	2,760,120	2,768,226	2,775,473	2,791,930	2,788,066	2,793,637
Ind., Inst., & Cmcl. Interrup. Therms	2,676,794	2,698,565	2,719,781	2,752,373	2,761,285	2,781,828	2,802,313	2,834,672	2,843,010	2,863,445
Total Core Therms	89,176,201	89,823,281	90,464,111	91,504,871	91,734,745	92,368,738	93,001,285	94,050,388	94,266,770	94,898,515
Daily Baseload Therms	65,799	66,283	66,760	67,232	67,701	68,168	68,634	69,099	69,562	70,025
Peak Day Therms	926,982	933,683	940,327	946,931	953,517	960,104	966,679	973,266	979,840	986,413
Therms Per Residential Customer	695	695	695	699	695	695	695	699	695	695
Therms Per Commercial Customer	2,818	2,818	2,818	2,830	2,817	2,817	2,817	2,829	2,817	2,817
Therms Per Industrial Customer	15,691	15,692	15,693	15,750	15,696	15,698	15,699	15,757	15,703	15,705
Residential Customers	80,723	81,240	81,760	82,282	82,806	83,333	83,861	84,392	84,924	85,456
Commercial Customers	9,813	9,903	9,991	10,077	10,162	10,247	10,331	10,416	10,500	10,583
Industrial Customers	173	174	175	175	176	176	177	177	178	178
Interruptible Customers	28	28	28	29	29	29	29	30	30	30
Total Core Customers	90,737	91,345	91,953	92,562	93,173	93,785	94,399	95,015	95,631	96,247

Zone GTN	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.06%	1.05%	1.48%	0.59%	1.02%	1.01%	1.44%	0.55%	0.98%
Residential Therms	31,524,030	31,846,339	32,171,356	32,645,098	32,828,688	33,161,073	33,495,600	33,984,920	34,171,434	34,512,072
Commercial Therms	18,920,927	19,148,336	19,372,697	19,681,670	19,818,351	20,040,959	20,261,487	20,570,853	20,699,822	20,917,363
Industrial Therms	1,999,117	2,010,453	2,021,313	2,037,314	2,039,813	2,048,255	2,056,154	2,070,303	2,070,771	2,077,521
Ind., Inst., & Cmcl. Interrup. Therms	963,329	969,859	976,077	983,701	987,473	992,793	997,516	1,004,090	1,006,774	1,010,950
Total Core Therms	53,407,404	53,974,987	54,541,443	55,347,783	55,674,325	56,243,079	56,810,757	57,630,166	57,948,801	58,517,906
Daily Baseload Therms	34,686	35,061	35,434	35,806	36,179	36,552	36,924	37,296	37,668	38,040
Peak Day Therms	664,771	671,788	678,794	685,799	692,813	699,853	706,881	713,931	720,977	728,028
Therms Per Residential Customer	743	744	744	747	744	744	744	748	745	745
Therms Per Commercial Customer	2,846	2,846	2,847	2,859	2,847	2,847	2,847	2,859	2,847	2,847
Therms Per Industrial Customer	25,819	25,816	25,813	25,892	25,807	25,802	25,798	25,874	25,787	25,781
Residential Customers	42,406	42,830	43,258	43,688	44,122	44,559	44,999	45,443	45,888	46,336
Commercial Customers	6,647	6,727	6,806	6,884	6,962	7,040	7,117	7,194	7,271	7,347
Industrial Customers	77	78	78	79	79	79	80	80	80	81
Interruptible Customers	7	7	7	7	7	7	7	8	8	8
Total Core Customers	49,138	49,642	50,149	50,658	51,171	51,686	52,204	52,724	53,247	53,771

Zone ME-OR	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.56%	0.55%	0.90%	0.16%	0.52%	0.50%	0.86%	0.12%	0.48%
Residential Therms	4,800,846	4,815,821	4,830,841	4,861,252	4,860,804	4,875,778	4,890,705	4,921,212	4,920,425	4,935,068
Commercial Therms	5,531,160	5,574,235	5,616,379	5,683,203	5,698,351	5,739,032	5,778,822	5,845,154	5,858,547	5,897,942
Industrial Therms	465,644	467,261	468,640	470,854	470,767	471,572	472,319	473,956	473,325	473,660
Ind., Inst., & Cmcl. Interrup. Therms	1,535,329	1,545,208	1,554,589	1,567,171	1,572,262	1,580,852	1,588,790	1,600,419	1,604,354	1,611,774
Total Core Therms	12,332,979	12,402,525	12,470,449	12,582,479	12,602,184	12,667,234	12,730,636	12,840,742	12,856,651	12,918,445
Daily Baseload Therms	9,635	9,694	9,751	9,807	9,863	9,918	9,972	10,025	10,078	10,131
Peak Day Therms	184,253	185,228	186,183	187,117	188,039	188,956	189,851	190,746	191,629	192,500
Therms Per Residential Customer	459	459	459	460	459	459	459	460	459	459
Therms Per Commercial Customer	3,012	3,012	3,012	3,026	3,013	3,013	3,013	3,027	3,013	3,014
Therms Per Industrial Customer	17,296	17,290	17,285	17,319	17,274	17,269	17,264	17,298	17,254	17,250
Residential Customers	10,461	10,494	10,526	10,559	10,592	10,624	10,657	10,689	10,722	10,754
Commercial Customers	1,836	1,851	1,865	1,878	1,892	1,905	1,918	1,931	1,944	1,957
Industrial Customers	27	27	27	27	27	27	27	27	27	27
Interruptible Customers	8	8	8	8	9	9	9	9	9	9
Total Core Customers	12,333	12,380	12,427	12,473	12,519	12,565	12,611	12,657	12,702	12,747

Zone ME-WA	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.51%	0.50%	0.96%	0.01%	0.47%	0.46%	0.92%	-0.02%	0.44%
Residential Therms	6,496,930	6,517,187	6,537,434	6,590,206	6,577,635	6,597,539	6,617,330	6,669,992	6,656,475	6,675,623
Commercial Therms	4,256,017	4,283,927	4,311,143	4,357,825	4,363,267	4,388,806	4,413,770	4,459,420	4,462,676	4,486,723
Industrial Therms	84,071	84,444	84,774	85,053	85,312	85,529	85,715	85,879	86,021	86,152
Ind., Inst., & Cmcl. Interrup. Therms	1,701,780	1,717,658	1,733,246	1,755,331	1,763,723	1,778,445	1,792,907	1,813,746	1,820,647	1,834,130
Total Core Therms	12,538,799	12,603,217	12,666,597	12,788,415	12,789,937	12,850,319	12,909,722	13,029,036	13,025,819	13,082,627
Daily Baseload Therms	12,934	13,009	13,082	13,154	13,223	13,292	13,359	13,424	13,488	13,551
Peak Day Therms	172,119	172,954	173,777	174,583	175,377	176,162	176,934	177,696	178,446	179,186
Therms Per Residential Customer	598	598	598	601	598	598	598	601	598	598
Therms Per Commercial Customer	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	10,864	10,898	10,931	10,965	10,999	11,032	11,065	11,098	11,130	11,162
Commercial Customers	1,286	1,295	1,303	1,311	1,319	1,327	1,334	1,342	1,349	1,356
Industrial Customers	15	15	15	15	15	15	15	15	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	12,168	12,211	12,253	12,295	12,336	12,377	12,418	12,458	12,498	12,537

Bellingham Disctrict	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.75%	0.74%	1.18%	0.28%	0.72%	0.71%	1.16%	0.26%	0.70%
Residential Therms	30,701,401	30,904,950	31,109,702	31,458,280	31,522,095	31,729,767	31,938,285	32,294,352	32,357,450	32,567,464
Commercial Therms	14,336,851	14,470,991	14,602,421	14,795,103	14,859,708	14,987,343	15,114,263	15,306,859	15,367,489	15,493,507
Industrial Therms	1,128,815	1,133,883	1,138,319	1,146,490	1,145,618	1,148,696	1,151,390	1,158,193	1,156,062	1,158,085
Ind., Inst., & Cmcl. Interrup. Therms	1,046,724	1,058,603	1,070,320	1,086,989	1,093,795	1,105,619	1,117,524	1,134,773	1,141,683	1,153,915
Total Core Therms	47,213,792	47,568,428	47,920,762	48,486,861	48,621,215	48,971,425	49,321,461	49,894,176	50,022,683	50,372,971
Daily Baseload Therms	34,022	34,282	34,540	34,795	35,050	35,304	35,557	35,811	36,064	36,317
Peak Day Therms	491,452	495,124	498,776	502,412	506,046	509,683	513,320	516,966	520,609	524,251
Therms Per Residential Customer	713	713	713	716	713	713	713	716	713	713
Therms Per Commercial Customer	2,832	2,832	2,832	2,844	2,832	2,832	2,832	2,844	2,832	2,832
Therms Per Industrial Customer	19,839	19,838	19,838	19,912	19,837	19,836	19,835	19,909	19,834	19,833
Residential Customers	43,080	43,366	43,653	43,942	44,232	44,523	44,816	45,110	45,404	45,699
Commercial Customers	5,063	5,110	5,157	5,202	5,247	5,292	5,337	5,382	5,427	5,471
Industrial Customers	57	57	57	58	58	58	58	58	58	58
Interruptible Customers	13	13	13	13	13	14	14	14	14	14
Total Core Customers	48,213	48,546	48,880	49,215	49,550	49,887	50,225	50,564	50,903	51,242

Mount Vernon District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.70%	0.68%	1.12%	0.22%	0.66%	0.65%	1.09%	0.20%	0.64%
Residential Therms	25,430,747	25,586,992	25,743,990	26,018,990	26,060,140	26,219,201	26,378,730	26,659,025	26,699,181	26,859,514
Commercial Therms	13,313,319	13,431,876	13,547,037	13,719,224	13,771,397	13,882,373	13,992,222	14,163,550	14,211,574	14,320,948
Industrial Therms	1,588,273	1,596,023	1,602,861	1,614,411	1,614,503	1,619,530	1,624,083	1,633,737	1,632,005	1,635,552
Ind., Inst., & Cmcl. Interrup. Therms	1,630,070	1,639,962	1,649,462	1,665,385	1,667,489	1,676,209	1,684,789	1,699,899	1,701,328	1,709,531
Total Core Therms	41,962,409	42,254,853	42,543,349	43,018,010	43,113,529	43,397,313	43,679,824	44,156,212	44,244,088	44,525,543
Daily Baseload Therms	31,777	32,001	32,220	32,437	32,651	32,865	33,076	33,288	33,498	33,708
Peak Day Therms	435,530	438,559	441,551	444,518	447,471	450,421	453,359	456,300	459,232	462,162
Therms Per Residential Customer	676	676	676	679	676	676	676	679	676	676
Therms Per Commercial Customer	2,803	2,803	2,802	2,814	2,802	2,802	2,802	2,814	2,801	2,801
Therms Per Industrial Customer	13,661	13,663	13,666	13,715	13,671	13,674	13,677	13,727	13,684	13,688
Residential Customers	37,643	37,874	38,106	38,340	38,574	38,810	39,046	39,283	39,520	39,757
Commercial Customers	4,750	4,793	4,834	4,875	4,915	4,955	4,994	5,034	5,073	5,112
Industrial Customers	116	117	117	118	118	118	119	119	119	119
Interruptible Customers	15	15	15	15	15	15	16	16	16	16
Total Core Customers	42,524	42,799	43,073	43,347	43,622	43,898	44,174	44,451	44,728	45,005

Bremerton District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.68%	0.67%	1.08%	0.23%	0.65%	0.65%	1.06%	0.22%	0.63%
Residential Therms	21,268,797	21,390,760	21,513,239	21,734,224	21,759,607	21,883,403	22,007,555	22,232,276	22,256,548	22,380,927
Commercial Therms	10,787,924	10,878,910	10,967,343	11,101,338	11,140,379	11,225,639	11,310,993	11,443,079	11,479,878	11,563,883
Industrial Therms	302,393	304,446	306,435	308,266	310,034	311,750	313,389	314,988	316,564	318,098
Ind., Inst., & Cmcl. Interrup. Therms	2,398,726	2,420,364	2,441,785	2,466,663	2,483,967	2,504,931	2,525,511	2,549,750	2,566,251	2,586,113
Total Core Therms	34,757,840	34,994,480	35,228,802	35,610,492	35,693,987	35,925,723	36,157,448	36,540,093	36,619,241	36,849,021
Daily Baseload Therms	26,721	26,914	27,105	27,296	27,484	27,672	27,861	28,048	28,235	28,421
Peak Day Therms	346,834	349,170	351,485	353,793	356,085	358,377	360,669	362,952	365,239	367,512
Therms Per Residential Customer	675	675	675	678	675	675	675	678	675	675
Therms Per Commercial Customer	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	31,516	31,697	31,878	32,060	32,243	32,427	32,611	32,795	32,980	33,164
Commercial Customers	2,983	3,008	3,033	3,057	3,080	3,104	3,128	3,151	3,174	3,197
Industrial Customers	16	16	16	16	16	16	16	16	17	17
Interruptible Customers	10	10	10	10	10	11	11	11	11	11
Total Core Customers	34,525	34,731	34,937	35,144	35,350	35,558	35,765	35,973	36,181	36,389

Longview District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.67%	0.64%	0.95%	0.25%	0.57%	0.55%	0.88%	0.19%	0.52%
Residential Therms	1,578,412	1,587,092	1,595,805	1,609,012	1,613,301	1,622,073	1,630,862	1,644,200	1,648,453	1,657,225
Commercial Therms	4,571,689	4,606,089	4,639,160	4,687,588	4,702,164	4,732,750	4,763,074	4,809,706	4,822,493	4,852,111
Industrial Therms	802,063	803,617	804,660	807,267	804,739	803,758	802,273	802,463	797,910	795,337
Ind., Inst., & Cmcl. Interrup. Therms	597,345	603,046	608,788	617,361	620,172	625,864	631,382	639,898	642,660	648,280
Total Core Therms	7,549,509	7,599,845	7,648,413	7,721,229	7,740,376	7,784,445	7,827,590	7,896,268	7,911,516	7,952,953
Daily Baseload Therms	7,222	7,265	7,305	7,343	7,379	7,413	7,445	7,476	7,506	7,535
Peak Day Therms	73,772	74,285	74,783	75,266	75,734	76,194	76,646	77,091	77,532	77,972
Therms Per Residential Customer	583	583	583	585	583	583	583	585	583	583
Therms Per Commercial Customer	3,895	3,895	3,895	3,908	3,894	3,894	3,894	3,907	3,893	3,893
Therms Per Industrial Customer	26,340	26,337	26,334	26,399	26,322	26,314	26,306	26,368	26,288	26,279
Residential Customers	2,708	2,723	2,738	2,753	2,768	2,783	2,798	2,813	2,828	2,843
Commercial Customers	1,174	1,183	1,191	1,199	1,207	1,215	1,223	1,231	1,239	1,246
Industrial Customers	30	31	31	31	31	31	30	30	30	30
Interruptible Customers	6	6	6	6	6	6	6	7	7	7
Total Core Customers	3,918	3,942	3,966	3,989	4,012	4,035	4,058	4,080	4,103	4,126

Aberdeen District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.39%	0.37%	0.79%	-0.08%	0.33%	0.32%	0.74%	-0.13%	0.30%
Residential Therms	2,534,796	2,541,199	2,547,622	2,565,816	2,560,418	2,566,793	2,573,151	2,591,382	2,585,735	2,591,926
Commercial Therms	2,454,921	2,466,756	2,478,259	2,500,163	2,500,250	2,510,941	2,521,574	2,543,151	2,542,481	2,553,016
Industrial Therms	226,015	226,202	226,256	227,052	225,726	225,175	224,355	224,370	222,360	221,075
Ind., Inst., & Cmcl. Interrup. Therms	935,887	941,300	946,403	954,221	955,691	959,930	963,925	970,784	971,157	974,409
Total Core Therms	6,151,619	6,175,458	6,198,540	6,247,252	6,242,086	6,262,839	6,283,005	6,329,687	6,321,733	6,340,425
Daily Baseload Therms	6,005	6,031	6,056	6,080	6,102	6,123	6,144	6,163	6,182	6,199
Peak Day Therms	54,799	54,997	55,190	55,376	55,555	55,731	55,902	56,070	56,233	56,394
Therms Per Residential Customer	724	724	724	727	724	724	724	727	724	724
Therms Per Commercial Customer	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298
Therms Per Industrial Customer	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180
Residential Customers	3,503	3,512	3,521	3,530	3,539	3,547	3,556	3,565	3,574	3,582
Commercial Customers	744	748	751	755	758	761	765	768	771	774
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,265	4,278	4,290	4,302	4,314	4,327	4,338	4,350	4,362	4,374

Kennewick District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.91%	0.90%	1.27%	0.50%	0.87%	0.87%	1.25%	0.47%	0.85%
Residential Therms	14,911,986	15,033,414	15,155,631	15,340,024	15,402,048	15,526,253	15,651,020	15,840,037	15,902,169	16,028,197
Commercial Therms	12,951,805	13,084,488	13,215,239	13,399,802	13,474,172	13,603,137	13,732,160	13,918,128	13,990,398	14,119,407
Industrial Therms	385,600	387,955	390,178	392,338	394,421	396,424	398,346	400,217	402,030	403,796
Ind., Inst., & Cmcl. Interrup. Therms	1,660,737	1,676,791	1,692,537	1,709,048	1,723,519	1,738,915	1,754,304	1,770,716	1,785,180	1,800,647
Total Core Therms	29,910,128	30,182,648	30,453,585	30,841,212	30,994,160	31,264,729	31,535,830	31,929,098	32,079,777	32,352,047
Daily Baseload Therms	24,349	24,576	24,800	25,024	25,247	25,471	25,695	25,919	26,143	26,368
Peak Day Therms	429,619	433,499	437,359	441,212	445,065	448,924	452,791	456,667	460,552	464,436
Therms Per Residential Customer	619	619	619	622	619	619	619	622	620	620
Therms Per Commercial Customer	3,842	3,842	3,842	3,858	3,843	3,843	3,843	3,859	3,843	3,844
Therms Per Industrial Customer	19,509	19,509	19,509	19,509	19,510	19,510	19,510	19,510	19,511	19,511
Residential Customers	24,107	24,297	24,489	24,681	24,875	25,070	25,265	25,461	25,658	25,856
Commercial Customers	3,371	3,405	3,439	3,473	3,506	3,540	3,573	3,607	3,640	3,674
Industrial Customers	20	20	20	20	20	20	20	21	21	21
Interruptible Customers	18	18	18	19	19	19	19	19	19	20
Total Core Customers	27,516	27,741	27,967	28,193	28,420	28,649	28,878	29,108	29,338	29,569

Walla Walla District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.51%	0.50%	0.96%	0.01%	0.47%	0.46%	0.92%	-0.02%	0.44%
Residential Therms	6,496,930	6,517,187	6,537,434	6,590,206	6,577,635	6,597,539	6,617,330	6,669,992	6,656,475	6,675,623
Commercial Therms	4,256,017	4,283,927	4,311,143	4,357,825	4,363,267	4,388,806	4,413,770	4,459,420	4,462,676	4,486,723
Industrial Therms	84,071	84,444	84,774	85,053	85,312	85,529	85,715	85,879	86,021	86,152
Ind., Inst., & Cmcl. Interrup. Therms	1,701,780	1,717,658	1,733,246	1,755,331	1,763,723	1,778,445	1,792,907	1,813,746	1,820,647	1,834,130
Total Core Therms	12,538,799	12,603,217	12,666,597	12,788,415	12,789,937	12,850,319	12,909,722	13,029,036	13,025,819	13,082,627
Daily Baseload Therms	11,744	11,812	11,878	11,944	12,008	12,071	12,132	12,193	12,252	12,310
Peak Day Therms	172,119	172,954	173,777	174,583	175,377	176,162	176,934	177,696	178,446	179,186
Therms Per Residential Customer	598	598	598	601	598	598	598	601	598	598
Therms Per Commercial Customer	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	10,864	10,898	10,931	10,965	10,999	11,032	11,065	11,098	11,130	11,162
Commercial Customers	1,286	1,295	1,303	1,311	1,319	1,327	1,334	1,342	1,349	1,356
Industrial Customers	15	15	15	15	15	15	15	15	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	12,168	12,211	12,253	12,295	12,336	12,377	12,418	12,458	12,498	12,537

Wenatchee District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.68%	0.65%	0.95%	0.28%	0.59%	0.58%	0.89%	0.24%	0.55%
Residential Therms	1,273,796	1,279,325	1,284,879	1,296,463	1,295,992	1,301,569	1,307,135	1,318,827	1,318,254	1,323,795
Commercial Therms	4,677,440	4,712,737	4,746,802	4,795,177	4,812,668	4,844,868	4,876,855	4,923,863	4,940,001	4,971,427
Industrial Therms	3,566,711	3,591,358	3,614,813	3,648,803	3,658,061	3,678,459	3,697,950	3,729,056	3,735,411	3,753,266
Ind., Inst., & Cmcl. Interrup. Therms	539,793	543,014	546,184	549,159	552,105	555,004	557,849	560,638	563,502	566,248
Total Core Therms	10,057,741	10,126,433	10,192,677	10,289,600	10,318,825	10,379,900	10,439,789	10,532,384	10,557,168	10,614,736
Daily Baseload Therms	10,916	10,989	11,059	11,126	11,192	11,256	11,318	11,379	11,440	11,500
Peak Day Therms	106,599	107,315	108,007	108,675	109,327	109,966	110,593	111,210	111,824	112,428
Therms Per Residential Customer	499	499	499	501	499	499	499	501	498	498
Therms Per Commercial Customer	4,462	4,464	4,466	4,482	4,469	4,471	4,473	4,489	4,476	4,478
Therms Per Industrial Customer	91,436	91,528	91,613	92,001	91,777	91,851	91,925	92,303	92,073	92,146
Residential Customers	2,552	2,563	2,575	2,586	2,598	2,610	2,621	2,633	2,645	2,656
Commercial Customers	1,048	1,056	1,063	1,070	1,077	1,084	1,090	1,097	1,104	1,110
Industrial Customers	39	39	39	40	40	40	40	40	41	41
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
Total Core Customers	3,646	3,665	3,684	3,703	3,722	3,740	3,759	3,778	3,796	3,814

Yakima District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.50%	0.48%	0.87%	0.04%	0.44%	0.43%	0.83%	0.00%	0.40%
Residential Therms	15,522,413	15,574,592	15,626,717	15,751,217	15,730,294	15,781,781	15,832,950	15,957,430	15,934,224	15,984,038
Commercial Therms	17,194,436	17,310,466	17,422,763	17,605,961	17,639,150	17,744,849	17,849,289	18,028,709	18,055,915	18,157,738
Industrial Therms	4,974,187	4,991,205	5,005,925	5,030,297	5,029,327	5,038,464	5,046,263	5,064,851	5,058,659	5,063,450
Ind., Inst., & Cmcl. Interrup. Therms	1,291,010	1,298,812	1,306,217	1,317,124	1,320,220	1,326,936	1,333,504	1,343,852	1,346,415	1,352,748
Total Core Therms	38,982,046	39,175,075	39,361,622	39,704,600	39,718,990	39,892,030	40,062,005	40,394,842	40,395,213	40,557,975
Daily Baseload Therms	25,719	25,847	25,969	26,086	26,198	26,306	26,412	26,514	26,615	26,713
Peak Day Therms	439,856	442,061	444,199	446,277	448,310	450,308	452,274	454,219	456,138	458,029
Therms Per Residential Customer	613	613	613	616	613	613	613	615	612	612
Therms Per Commercial Customer	3,284	3,284	3,283	3,297	3,282	3,282	3,282	3,295	3,281	3,280
Therms Per Industrial Customer	35,230	35,220	35,210	35,284	35,191	35,182	35,173	35,247	35,155	35,146
Residential Customers	25,326	25,413	25,500	25,587	25,674	25,760	25,846	25,931	26,016	26,099
Commercial Customers	5,235	5,271	5,306	5,341	5,374	5,407	5,439	5,472	5,504	5,535
Industrial Customers	141	142	142	143	143	143	143	144	144	144
Interruptible Customers	19	20	20	20	20	20	20	20	20	20
Total Core Customers	30,722	30,846	30,969	31,090	31,210	31,330	31,449	31,567	31,684	31,799

Central Oregon (Bend) District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.06%	1.05%	1.48%	0.59%	1.02%	1.01%	1.44%	0.55%	0.98%
Residential Therms	31,524,030	31,846,339	32,171,356	32,645,098	32,828,688	33,161,073	33,495,600	33,984,920	34,171,434	34,512,072
Commercial Therms	18,920,927	19,148,336	19,372,697	19,681,670	19,818,351	20,040,959	20,261,487	20,570,853	20,699,822	20,917,363
Industrial Therms	1,999,117	2,010,453	2,021,313	2,037,314	2,039,813	2,048,255	2,056,154	2,070,303	2,070,771	2,077,521
Ind., Inst., & Cmcl. Interrup. Therms	963,329	969,859	976,077	983,701	987,473	992,793	997,516	1,004,090	1,006,774	1,010,950
Total Core Therms	53,407,404	53,974,987	54,541,443	55,347,783	55,674,325	56,243,079	56,810,757	57,630,166	57,948,801	58,517,906
Daily Baseload Therms	34,686	35,061	35,434	35,806	36,179	36,552	36,924	37,296	37,668	38,040
Peak Day Therms	664,771	671,788	678,794	685,799	692,813	699,853	706,881	713,931	720,977	728,028
Therms Per Residential Customer	743	744	744	747	744	744	744	748	745	745
Therms Per Commercial Customer	2,846	2,846	2,847	2,859	2,847	2,847	2,847	2,859	2,847	2,847
Therms Per Industrial Customer	25,819	25,816	25,813	25,892	25,807	25,802	25,798	25,874	25,787	25,781
Residential Customers	42,406	42,830	43,258	43,688	44,122	44,559	44,999	45,443	45,888	46,336
Commercial Customers	6,647	6,727	6,806	6,884	6,962	7,040	7,117	7,194	7,271	7,347
Industrial Customers	77	78	78	79	79	79	80	80	80	81
Interruptible Customers	7	7	7	7	7	7	7	8	8	8
Total Core Customers	49,138	49,642	50,149	50,658	51,171	51,686	52,204	52,724	53,247	53,771

Pendleton District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.56%	0.55%	0.90%	0.16%	0.52%	0.50%	0.86%	0.12%	0.48%
Residential Therms	4,800,846	4,815,821	4,830,841	4,861,252	4,860,804	4,875,778	4,890,705	4,921,212	4,920,425	4,935,068
Commercial Therms	5,531,160	5,574,235	5,616,379	5,683,203	5,698,351	5,739,032	5,778,822	5,845,154	5,858,547	5,897,942
Industrial Therms	465,644	467,261	468,640	470,854	470,767	471,572	472,319	473,956	473,325	473,660
Ind., Inst., & Cmcl. Interrup. Therms	1,535,329	1,545,208	1,554,589	1,567,171	1,572,262	1,580,852	1,588,790	1,600,419	1,604,354	1,611,774
Total Core Therms	12,332,979	12,402,525	12,470,449	12,582,479	12,602,184	12,667,234	12,730,636	12,840,742	12,856,651	12,918,445
Daily Baseload Therms	10,825	10,891	10,955	11,017	11,078	11,139	11,198	11,257	11,314	11,371
Peak Day Therms	184,253	185,228	186,183	187,117	188,039	188,956	189,851	190,746	191,629	192,500
Therms Per Residential Customer	459	459	459	460	459	459	459	460	459	459
Therms Per Commercial Customer	3,012	3,012	3,012	3,026	3,013	3,013	3,013	3,027	3,013	3,014
Therms Per Industrial Customer	17,296	17,290	17,285	17,319	17,274	17,269	17,264	17,298	17,254	17,250
Residential Customers	10,461	10,494	10,526	10,559	10,592	10,624	10,657	10,689	10,722	10,754
Commercial Customers	1,836	1,851	1,865	1,878	1,892	1,905	1,918	1,931	1,944	1,957
Industrial Customers	27	27	27	27	27	27	27	27	27	27
Interruptible Customers	8	8	8	8	9	9	9	9	9	9
Total Core Customers	12,333	12,380	12,427	12,473	12,519	12,565	12,611	12,657	12,702	12,747

Eastern Oregon (Ontario) District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.22%	0.21%	0.62%	-0.26%	0.16%	0.15%	0.58%	-0.30%	0.12%
Residential Therms	4,054,806	4,059,955	4,065,031	4,090,638	4,075,040	4,079,974	4,084,805	4,110,230	4,094,231	4,098,728
Commercial Therms	3,903,086	3,915,051	3,926,257	3,955,088	3,945,008	3,953,949	3,962,121	3,989,513	3,977,870	3,985,471
Industrial Therms	232,758	232,883	232,862	232,527	232,136	231,673	231,039	230,441	229,566	228,563
Ind., Inst., & Cmcl. Interrup. Therms	913,752	916,881	919,746	921,994	924,108	925,699	927,160	928,226	928,918	929,343
Total Core Therms	9,104,401	9,124,770	9,143,896	9,200,247	9,176,291	9,191,295	9,205,125	9,258,410	9,230,584	9,242,106
Daily Baseload Therms	3,642	3,648	3,652	3,653	3,653	3,652	3,650	3,646	3,641	3,634
Peak Day Therms	114,695	114,951	115,191	115,406	115,608	115,803	115,985	116,162	116,325	116,482
Therms Per Residential Customer	580	580	580	583	580	580	580	583	580	580
Therms Per Commercial Customer	2,754	2,754	2,754	2,768	2,755	2,755	2,755	2,769	2,756	2,756
Therms Per Industrial Customer	10,215	10,219	10,222	10,226	10,227	10,229	10,230	10,234	10,235	10,234
Residential Customers	6,995	7,004	7,013	7,021	7,030	7,038	7,046	7,055	7,062	7,070
Commercial Customers	1,417	1,422	1,426	1,429	1,432	1,435	1,438	1,441	1,443	1,446
Industrial Customers	23	23	23	23	23	23	23	23	22	22
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,437	8,450	8,463	8,475	8,486	8,498	8,509	8,520	8,530	8,540

Oregon	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.88%	0.87%	1.28%	0.42%	0.84%	0.83%	1.25%	0.38%	0.80%
Residential Therms	40,379,681	40,722,115	41,067,228	41,596,988	41,764,532	42,116,825	42,471,110	43,016,362	43,186,090	43,545,869
Commercial Therms	28,355,173	28,637,622	28,915,333	29,319,961	29,461,710	29,733,940	30,002,431	30,405,520	30,536,239	30,800,776
Industrial Therms	2,697,519	2,710,596	2,722,814	2,740,695	2,742,716	2,751,500	2,759,511	2,774,700	2,773,662	2,779,745
Ind., Inst., & Cmcl. Interrup. Therms	3,412,410	3,431,949	3,450,412	3,472,865	3,483,842	3,499,343	3,513,466	3,532,736	3,540,046	3,552,067
Total Core Therms	74,844,784	75,502,282	76,155,787	77,130,510	77,452,800	78,101,608	78,746,519	79,729,318	80,036,036	80,678,457
Daily Baseload Therms	49,199	49,646	50,088	50,523	50,957	51,389	51,818	52,245	52,670	53,092
Peak Day Therms	963,720	971,967	980,169	988,322	996,460	1,004,612	1,012,718	1,020,838	1,028,930	1,037,009
Therms Per Residential Customer	11,110	11,110	11,110	11,155	11,110	11,110	11,110	11,155	11,110	11,110
Therms Per Commercial Customer	62,670	62,670	62,670	62,943	62,670	62,670	62,670	62,943	62,670	62,670
Therms Per Industrial Customer	220,582	220,582	220,582	221,122	220,582	220,582	220,582	221,122	220,582	220,582
Residential Customers	59,862	60,327	60,797	61,269	61,744	62,222	62,703	63,186	63,672	64,159
Commercial Customers	9,901	9,999	10,096	10,191	10,286	10,380	10,473	10,566	10,658	10,750
Industrial Customers	127	128	128	129	129	129	130	130	130	130
Interruptible Customers	17	18	18	18	18	18	18	18	18	18
Total Core Customers	69,908	70,472	71,038	71,606	72,176	72,749	73,323	73,900	74,479	75,058

Washington	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.68%	0.66%	1.07%	0.22%	0.64%	0.63%	1.04%	0.20%	0.61%
Residential Therms	119,719,279	120,415,511	121,115,017	122,364,231	122,521,530	123,228,378	123,937,019	125,207,522	125,358,489	126,068,708
Commercial Therms	84,544,402	85,246,243	85,930,168	86,962,182	87,263,155	87,920,705	88,574,199	89,596,465	89,872,905	90,518,760
Industrial Therms	13,058,128	13,119,133	13,174,221	13,259,977	13,267,740	13,307,786	13,343,764	13,413,754	13,407,022	13,434,811
Ind., Inst., & Cmcl. Interrup. Therms	11,802,073	11,899,549	11,994,940	12,121,281	12,180,681	12,271,853	12,361,693	12,484,055	12,538,822	12,626,020
Total Core Therms	229,123,882	230,680,436	232,214,347	234,707,672	235,233,107	236,728,722	238,216,674	240,701,796	241,177,238	242,648,299
Daily Baseload Therms	178,475	179,717	180,934	182,131	183,311	184,481	185,640	186,791	187,936	189,073
Peak Day Therms	2,550,580	2,567,965	2,585,126	2,602,113	2,618,970	2,635,765	2,652,488	2,669,172	2,685,803	2,702,370
Therms Per Residential Customer	34,919	34,919	34,918	35,050	34,918	34,918	34,917	35,049	34,917	34,917
Therms Per Commercial Customer	138,467	138,461	138,456	138,863	138,445	138,441	138,436	138,844	138,427	138,423
Therms Per Industrial Customer	1,027,459	1,027,414	1,027,372	1,029,667	1,027,295	1,027,260	1,027,226	1,029,527	1,027,162	1,027,131
Residential Customers	181,298	182,343	183,392	184,445	185,501	186,561	187,623	188,688	189,754	190,818
Commercial Customers	25,655	25,869	26,078	26,282	26,484	26,685	26,884	27,082	27,280	27,477
Industrial Customers	449	450	452	454	455	456	457	458	459	460
Interruptible Customers	95	96	97	98	98	99	100	100	101	102
Total Core Customers	207,497	208,758	210,018	211,278	212,538	213,800	215,064	216,329	217,594	218,856

System	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.73%	0.71%	1.12%	0.27%	0.69%	0.68%	1.09%	0.24%	0.66%
Residential Therms	160,098,960	161,137,626	162,182,245	163,961,219	164,286,062	165,345,203	166,408,129	168,223,884	168,544,578	169,614,577
Commercial Therms	112,899,575	113,883,864	114,845,500	116,282,143	116,724,865	117,654,645	118,576,630	120,001,985	120,409,144	121,319,536
Industrial Therms	15,755,648	15,829,729	15,897,036	16,000,673	16,010,456	16,059,286	16,103,275	16,188,454	16,180,684	16,214,556
Ind., Inst., & Cmcl. Interrup. Therms	15,214,483	15,331,498	15,445,353	15,594,146	15,664,524	15,771,196	15,875,159	16,016,791	16,078,868	16,178,087
Total Core Therms	303,968,666	306,182,718	308,370,134	311,838,181	312,685,907	314,830,330	316,963,193	320,431,114	321,213,274	323,326,756
Daily Baseload Therms	227,674	229,363	231,022	232,654	234,268	235,870	237,458	239,036	240,606	242,164
Peak Day Therms	3,514,300	3,539,932	3,565,295	3,590,434	3,615,429	3,640,377	3,665,206	3,690,010	3,714,734	3,739,379
Therms Per Residential Customer	46,028	46,028	46,028	46,205	46,027	46,027	46,027	46,204	46,026	46,026
Therms Per Commercial Customer	201,137	201,131	201,125	201,806	201,115	201,110	201,105	201,787	201,096	201,092
Therms Per Industrial Customer	1,248,042	1,247,997	1,247,954	1,250,788	1,247,878	1,247,842	1,247,808	1,250,649	1,247,744	1,247,713
Residential Customers	241,160	242,670	244,188	245,713	247,245	248,783	250,326	251,875	253,426	254,977
Commercial Customers	35,556	35,868	36,173	36,473	36,770	37,065	37,357	37,648	37,938	38,227
Industrial Customers	576	578	580	582	584	585	587	588	589	590
Interruptible Customers	113	114	114	115	116	117	118	118	119	120
Total Core Customers	277,405	279,230	281,057	282,884	284,714	286,550	288,387	290,230	292,072	293,914

Athena	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.37%	0.85%	-0.13%	0.35%	0.34%	0.82%	-0.17%	0.31%	0.30%	0.78%
Residential Therms	271,396	273,487	272,960	273,726	274,468	276,502	275,873	276,539	277,181	279,132
Commercial Therms	132,853	134,182	134,171	134,821	135,463	136,779	136,720	137,318	137,915	139,201
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	404,249	407,669	407,132	408,547	409,931	413,281	412,593	413,858	415,096	418,333
Daily Baseload Therms	439	440	442	443	445	446	447	449	450	451
Peak Day Therms	4,929	4,947	4,965	4,982	4,999	5,016	5,032	5,048	5,063	5,078
Therms Per Residential Customer	521	524	521	521	521	524	521	521	521	524
Therms Per Commercial Customer	1,964	1,974	1,964	1,964	1,964	1,974	1,964	1,964	1,964	1,974
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	520	522	523	525	526	528	529	530	532	533
Commercial Customers	68	68	68	69	69	69	70	70	70	71
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	588	590	592	594	595	597	599	600	602	603

Baker	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.20%	0.65%	-0.27%	0.17%	0.19%	0.62%	-0.31%	0.15%	0.15%	0.59%
Residential Therms	2,157,747	2,170,676	2,162,681	2,164,950	2,167,086	2,179,334	2,170,577	2,172,062	2,173,288	2,184,848
Commercial Therms	1,619,853	1,632,537	1,630,547	1,635,389	1,640,972	1,653,289	1,650,395	1,655,093	1,659,927	1,671,940
Industrial Therms	69,917	69,427	69,102	68,695	68,208	67,804	67,319	66,835	66,433	65,952
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	3,847,517	3,872,640	3,862,329	3,869,034	3,876,266	3,900,426	3,888,291	3,893,990	3,899,649	3,922,740
Daily Baseload Therms	1,658	1,660	1,662	1,664	1,667	1,668	1,670	1,671	1,673	1,675
Peak Day Therms	43,950	44,033	44,118	44,194	44,276	44,347	44,413	44,478	44,541	44,598
Therms Per Residential Customer	655	658	655	655	655	658	655	655	655	658
Therms Per Commercial Customer	3,127	3,141	3,127	3,127	3,127	3,141	3,127	3,127	3,127	3,141
Therms Per Industrial Customer	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523
Residential Customers	3,296	3,300	3,303	3,307	3,310	3,313	3,315	3,318	3,319	3,321
Commercial Customers	518	520	521	523	525	526	528	529	531	532
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,817	3,822	3,828	3,833	3,838	3,842	3,846	3,850	3,853	3,856

Umatilla	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.36%	0.62%	0.05%	0.30%	0.31%	0.56%	0.01%	0.26%	0.23%	0.53%
Residential Therms	296,172	298,520	297,890	298,734	299,550	301,837	301,096	301,829	302,535	304,733
Commercial Therms	287,762	290,504	290,556	291,804	293,190	295,876	295,826	297,045	298,173	300,838
Industrial Therms	73,007	73,214	73,417	73,620	73,823	74,009	74,191	74,360	74,526	74,704
Ind., Inst., & Cmcl. Interrup. Therms	601,536	604,099	605,121	606,664	608,202	610,224	610,932	612,126	613,077	614,857
Total Core Therms	1,258,476	1,266,336	1,266,985	1,270,821	1,274,764	1,281,947	1,282,046	1,285,360	1,288,310	1,295,132
Daily Baseload Therms	1,245	1,249	1,254	1,257	1,261	1,265	1,268	1,272	1,275	1,278
Peak Day Therms	17,493	17,551	17,610	17,662	17,716	17,764	17,815	17,860	17,900	17,941
Therms Per Residential Customer	274	276	274	274	274	276	274	274	274	276
Therms Per Commercial Customer	1,686	1,694	1,686	1,686	1,686	1,694	1,686	1,686	1,686	1,694
Therms Per Industrial Customer	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970
Residential Customers	1,080	1,083	1,086	1,089	1,092	1,095	1,098	1,100	1,103	1,105
Commercial Customers	171	172	172	173	174	175	175	176	177	178
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	1,260	1,264	1,268	1,272	1,276	1,279	1,283	1,286	1,289	1,293

Chemult	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.19%	0.53%	-0.16%	0.18%	0.16%	0.51%	-0.20%	0.13%	0.13%	0.46%
Residential Therms	10,173	10,226	10,209	10,226	10,242	10,292	10,271	10,284	10,296	10,343
Commercial Therms	38,217	38,422	38,359	38,429	38,489	38,685	38,609	38,661	38,712	38,889
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	48,390	48,648	48,568	48,654	48,731	48,977	48,880	48,945	49,008	49,232
Daily Baseload Therms	56	56	56	56	56	56	56	56	56	56
Peak Day Therms	592	593	594	595	596	597	598	599	599	600
Therms Per Residential Customer	399	400	399	399	399	400	399	399	399	400
Therms Per Commercial Customer	1,781	1,787	1,781	1,781	1,781	1,787	1,781	1,781	1,781	1,787
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	25	26	26	26	26	26	26	26	26	26
Commercial Customers	21	21	22	22	22	22	22	22	22	22
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	47	47	47	47	47	47	47	47	48	48

Gilchrist	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.14%	0.58%	-0.33%	0.12%	0.10%	0.55%	-0.37%	0.07%	0.06%	0.49%
Residential Therms	97,855	98,462	98,195	98,360	98,514	99,097	98,795	98,921	99,038	99,587
Commercial Therms	129,313	130,026	129,546	129,653	129,719	130,389	129,847	129,879	129,903	130,485
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	227,168	228,489	227,742	228,013	228,233	229,486	228,642	228,800	228,940	230,072
Daily Baseload Therms	100	100	100	100	100	101	101	101	101	101
Peak Day Therms	3,037	3,041	3,045	3,048	3,051	3,054	3,057	3,059	3,061	3,062
Therms Per Residential Customer	527	530	527	527	527	530	527	527	527	530
Therms Per Commercial Customer	3,236	3,251	3,236	3,236	3,236	3,251	3,236	3,236	3,236	3,251
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	186	186	186	187	187	187	187	188	188	188
Commercial Customers	40	40	40	40	40	40	40	40	40	40
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	226	226	226	227	227	227	227	228	228	228

Hermiston	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.49%	0.94%	0.02%	0.47%	0.46%	0.91%	-0.01%	0.43%	0.42%	0.88%
Residential Therms	2,397,532	2,416,365	2,411,349	2,418,113	2,424,672	2,443,001	2,437,081	2,442,964	2,448,634	2,466,238
Commercial Therms	2,774,577	2,805,337	2,811,760	2,830,126	2,848,497	2,879,172	2,884,712	2,902,366	2,919,850	2,950,225
Industrial Therms	185,356	185,486	185,593	185,700	185,767	185,833	185,874	185,889	185,893	185,870
Ind., Inst., & Cmcl. Interrup. Therms	318,178	321,986	321,642	323,366	325,052	328,882	328,398	330,001	331,596	335,350
Total Core Therms	5,675,644	5,729,174	5,730,344	5,757,305	5,783,987	5,836,889	5,836,065	5,861,219	5,885,972	5,937,683
Daily Baseload Therms	4,616	4,640	4,664	4,688	4,711	4,735	4,757	4,780	4,802	4,824
Peak Day Therms	76,014	76,366	76,719	77,066	77,409	77,746	78,078	78,401	78,718	79,032
Therms Per Residential Customer	646	649	646	646	646	649	646	646	646	649
Therms Per Commercial Customer	3,623	3,639	3,623	3,623	3,623	3,639	3,623	3,623	3,623	3,639
Therms Per Industrial Customer	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585
Residential Customers	3,711	3,721	3,732	3,742	3,753	3,762	3,772	3,781	3,790	3,798
Commercial Customers	766	771	776	781	786	791	796	801	806	811
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	3	3	4	4	4	4	4	4	4	4
Total Core Customers	4,488	4,504	4,520	4,535	4,550	4,565	4,580	4,594	4,607	4,621

Huntington	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.14%	0.70%	-0.40%	0.12%	0.13%	0.67%	-0.46%	0.10%	0.08%	0.63%
Residential Therms	52,356	52,704	52,476	52,531	52,583	52,914	52,667	52,703	52,733	53,048
Commercial Therms	28,738	28,954	28,853	28,892	28,949	29,166	29,034	29,083	29,119	29,321
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	81,094	81,658	81,328	81,422	81,531	82,080	81,701	81,786	81,852	82,369
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	1,258	1,260	1,261	1,263	1,264	1,266	1,267	1,268	1,269	1,271
Therms Per Residential Customer	408	410	408	408	408	410	408	408	408	410
Therms Per Commercial Customer	1,853	1,863	1,853	1,853	1,853	1,863	1,853	1,853	1,853	1,863
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	128	128	129	129	129	129	129	129	129	129
Commercial Customers	16	16	16	16	16	16	16	16	16	16
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	144	144	144	144	144	145	145	145	145	145

La Pine	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.08%	1.40%	0.73%	1.05%	1.04%	1.36%	0.69%	1.01%	1.00%	1.32%
Residential Therms	133,721	135,094	136,473	137,859	139,241	140,621	141,999	143,374	144,747	146,117
Commercial Therms	385,793	391,704	394,175	398,363	402,561	408,544	410,932	415,122	419,321	425,386
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	519,514	526,798	530,648	536,222	541,803	549,166	552,931	558,496	564,067	571,503
Daily Baseload Therms	444	449	454	458	463	468	473	477	482	487
Peak Day Therms	6,142	6,207	6,273	6,339	6,405	6,471	6,537	6,602	6,668	6,734
Therms Per Residential Customer	579	579	579	579	579	579	579	579	579	579
Therms Per Commercial Customer	2,645	2,657	2,645	2,645	2,645	2,657	2,645	2,645	2,645	2,657
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	231	233	236	238	240	243	245	248	250	252
Commercial Customers	146	147	149	151	152	154	155	157	159	160
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	377	381	385	389	393	397	401	405	408	412

Madras	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.47%	0.90%	0.05%	0.46%	0.46%	0.87%	0.02%	0.42%	0.41%	0.84%
Residential Therms	627,449	633,344	633,206	636,046	638,825	644,600	644,200	646,786	649,325	654,900
Commercial Therms	1,154,634	1,167,088	1,169,030	1,175,926	1,183,147	1,195,669	1,197,227	1,204,085	1,210,800	1,223,184
Industrial Therms	673,786	677,942	675,180	676,015	676,571	680,457	677,682	678,236	678,513	682,407
Ind., Inst., & Cmcl. Interrup. Therms	285,256	287,554	289,784	291,950	294,099	296,186	298,257	300,222	302,173	304,065
Total Core Therms	2,741,125	2,765,927	2,767,200	2,779,937	2,792,642	2,816,912	2,817,366	2,829,329	2,840,811	2,864,557
Daily Baseload Therms	1,281	1,289	1,296	1,303	1,310	1,317	1,324	1,331	1,338	1,345
Peak Day Therms	36,460	36,632	36,798	36,964	37,128	37,291	37,448	37,603	37,751	37,904
Therms Per Residential Customer	517	520	517	517	517	520	517	517	517	520
Therms Per Commercial Customer	2,887	2,900	2,887	2,887	2,887	2,900	2,887	2,887	2,887	2,900
Therms Per Industrial Customer	38,109	38,297	38,109	38,109	38,109	38,297	38,109	38,109	38,109	38,297
Residential Customers	1,212	1,218	1,224	1,229	1,234	1,240	1,245	1,250	1,255	1,260
Commercial Customers	400	402	405	407	410	412	415	417	419	422
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,631	1,639	1,647	1,655	1,663	1,671	1,678	1,686	1,693	1,700

Milton-Freewater	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.49%	0.92%	0.02%	0.47%	0.46%	0.90%	-0.01%	0.42%	0.42%	0.87%
Residential Therms	110,086	110,997	110,721	111,031	111,333	112,221	111,902	112,172	112,433	113,288
Commercial Therms	328,455	331,851	332,276	334,182	336,089	339,516	339,860	341,688	343,515	346,915
Industrial Therms	23,810	23,770	23,729	23,689	23,628	23,568	23,497	23,417	23,336	23,256
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	462,352	466,618	466,726	468,903	471,050	475,304	475,260	477,278	479,284	483,459
Daily Baseload Therms	457	459	461	463	466	468	470	472	474	476
Peak Day Therms	6,075	6,103	6,131	6,158	6,185	6,212	6,238	6,264	6,289	6,314
Therms Per Residential Customer	466	469	466	466	466	469	466	466	466	469
Therms Per Commercial Customer	3,056	3,070	3,056	3,056	3,056	3,070	3,056	3,056	3,056	3,070
Therms Per Industrial Customer	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072
Residential Customers	236	237	237	238	239	239	240	240	241	242
Commercial Customers	107	108	109	109	110	111	111	112	112	113
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	349	351	352	353	354	356	357	358	359	360

Mission Tap	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.61%	1.02%	0.15%	0.58%	0.58%	1.00%	0.11%	0.54%	0.53%	0.96%
Residential Therms	109,269	110,099	109,899	110,207	110,506	111,313	111,072	111,340	111,598	112,372
Commercial Therms	386,409	390,658	391,587	394,191	396,795	401,080	401,910	404,396	406,861	411,084
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	495,678	500,757	501,486	504,398	507,302	512,393	512,982	515,736	518,459	523,456
Daily Baseload Therms	522	525	528	531	535	538	541	544	547	550
Peak Day Therms	5,937	5,971	6,006	6,040	6,075	6,108	6,142	6,174	6,206	6,238
Therms Per Residential Customer	495	497	495	495	495	497	495	495	495	497
Therms Per Commercial Customer	8,334	8,370	8,334	8,334	8,334	8,370	8,334	8,334	8,334	8,370
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	221	221	222	223	223	224	224	225	225	226
Commercial Customers	46	47	47	47	48	48	48	49	49	49
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	267	268	269	270	271	272	273	273	274	275

Nyssa-Ontario	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.05%	0.46%	-0.38%	0.02%	0.01%	0.40%	-0.44%	-0.05%	-0.04%	0.32%
Residential Therms	1,892,894	1,904,509	1,895,958	1,897,352	1,898,533	1,909,595	1,900,318	1,900,892	1,901,285	1,911,601
Commercial Therms	2,343,995	2,357,358	2,346,764	2,347,710	2,348,469	2,360,704	2,348,846	2,348,104	2,348,139	2,358,017
Industrial Therms	157,752	156,989	156,182	155,287	154,414	153,434	152,431	151,385	150,274	149,254
Ind., Inst., & Cmcl. Interrup. Therms	929,397	929,452	928,876	928,302	927,747	926,688	925,509	923,953	922,292	919,898
Total Core Therms	5,324,037	5,348,308	5,327,779	5,328,650	5,329,163	5,350,420	5,327,103	5,324,333	5,321,990	5,338,770
Daily Baseload Therms	2,016	2,005	1,993	1,980	1,969	1,955	1,941	1,926	1,911	1,896
Peak Day Therms	71,418	71,469	71,509	71,543	71,568	71,580	71,583	71,570	71,559	71,509
Therms Per Residential Customer	518	521	518	518	518	521	518	518	518	521
Therms Per Commercial Customer	2,563	2,576	2,563	2,563	2,563	2,576	2,563	2,563	2,563	2,576
Therms Per Industrial Customer	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186
Residential Customers	3,653	3,656	3,659	3,662	3,664	3,666	3,668	3,669	3,669	3,670
Commercial Customers	915	915	916	916	916	917	917	916	916	916
Industrial Customers	19	19	19	19	19	19	19	18	18	18
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	4,589	4,593	4,596	4,599	4,601	4,603	4,605	4,605	4,606	4,605

Pendleton	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.48%	0.71%	0.22%	0.45%	0.44%	0.68%	0.17%	0.40%	0.39%	0.64%
Residential Therms	1,765,122	1,770,237	1,775,295	1,780,274	1,785,103	1,789,751	1,794,239	1,798,570	1,802,745	1,806,774
Commercial Therms	2,027,483	2,050,790	2,054,916	2,068,512	2,082,077	2,105,411	2,108,855	2,121,886	2,134,802	2,157,896
Industrial Therms	191,704	192,448	191,052	190,727	190,239	190,812	189,184	188,535	187,887	188,287
Ind., Inst., & Cmcl. Interrup. Therms	699,211	703,322	705,720	708,865	711,876	715,615	717,600	720,273	722,905	726,280
Total Core Therms	4,683,521	4,716,797	4,726,983	4,748,378	4,769,294	4,801,589	4,809,878	4,829,264	4,848,339	4,879,236
Daily Baseload Therms	4,149	4,170	4,190	4,210	4,229	4,248	4,267	4,285	4,303	4,320
Peak Day Therms	82,917	83,269	83,620	83,965	84,301	84,629	84,950	85,258	85,561	85,859
Therms Per Residential Customer	352	352	352	352	352	352	352	352	352	352
Therms Per Commercial Customer	2,497	2,509	2,497	2,497	2,497	2,509	2,497	2,497	2,497	2,509
Therms Per Industrial Customer	31,415	31,591	31,415	31,415	31,415	31,591	31,415	31,415	31,415	31,591
Residential Customers	5,018	5,032	5,047	5,061	5,075	5,088	5,101	5,113	5,125	5,136
Commercial Customers	812	818	823	828	834	839	845	850	855	860
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	5,839	5,859	5,879	5,899	5,918	5,936	5,954	5,972	5,989	6,006

Prineville	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.38%	0.83%	-0.06%	0.34%	0.36%	0.80%	-0.11%	0.33%	0.32%	0.76%
Residential Therms	1,201,491	1,210,616	1,207,946	1,211,055	1,214,051	1,222,835	1,219,629	1,222,213	1,224,687	1,233,001
Commercial Therms	1,438,817	1,453,280	1,454,264	1,461,325	1,468,657	1,483,055	1,483,363	1,490,530	1,497,354	1,511,334
Industrial Therms	542,071	546,013	547,023	549,356	551,949	556,004	556,968	559,461	562,034	566,171
Ind., Inst., & Cmcl. Interrup. Therms	128,623	128,414	126,951	125,909	125,078	124,651	123,007	121,977	120,949	120,513
Total Core Therms	3,311,002	3,338,323	3,336,183	3,347,646	3,359,735	3,386,544	3,382,967	3,394,180	3,405,023	3,431,019
Daily Baseload Therms	1,389	1,396	1,402	1,407	1,413	1,419	1,425	1,431	1,437	1,442
Peak Day Therms	45,325	45,493	45,663	45,817	45,980	46,138	46,291	46,441	46,586	46,730
Therms Per Residential Customer	500	502	500	500	500	502	500	500	500	502
Therms Per Commercial Customer	2,672	2,685	2,672	2,672	2,672	2,685	2,672	2,672	2,672	2,685
Therms Per Industrial Customer	17,698	17,747	17,698	17,698	17,698	17,747	17,698	17,698	17,698	17,747
Residential Customers	2,403	2,410	2,416	2,423	2,429	2,434	2,440	2,445	2,450	2,455
Commercial Customers	538	541	544	547	550	552	555	558	560	563
Industrial Customers	31	31	31	31	31	31	31	32	32	32
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	2,974	2,984	2,993	3,002	3,011	3,020	3,028	3,036	3,044	3,051

Redmond	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.01%	1.45%	0.55%	0.99%	0.98%	1.41%	0.51%	0.94%	0.94%	1.37%
Residential Therms	4,586,161	4,654,731	4,680,567	4,728,084	4,775,507	4,845,176	4,870,079	4,917,244	4,964,316	5,034,546
Commercial Therms	3,442,315	3,497,104	3,519,795	3,558,559	3,597,432	3,653,057	3,675,096	3,714,032	3,753,106	3,809,743
Industrial Therms	529,741	533,670	534,050	536,116	538,184	541,997	542,202	544,162	546,132	549,848
Ind., Inst., & Cmcl. Interrup. Therms	244,992	245,280	245,529	245,740	245,950	246,141	246,294	246,428	246,561	246,657
Total Core Therms	8,803,209	8,930,784	8,979,942	9,068,499	9,157,073	9,286,370	9,333,671	9,421,866	9,510,115	9,640,794
Daily Baseload Therms	5,144	5,188	5,232	5,277	5,321	5,365	5,409	5,453	5,497	5,541
Peak Day Therms	113,939	115,109	116,282	117,457	118,632	119,804	120,976	122,147	123,318	124,488
Therms Per Residential Customer	612	615	612	612	612	615	612	612	612	615
Therms Per Commercial Customer	2,636	2,648	2,636	2,636	2,636	2,648	2,636	2,636	2,636	2,648
Therms Per Industrial Customer	38,749	38,877	38,749	38,749	38,749	38,877	38,749	38,749	38,749	38,877
Residential Customers	7,489	7,566	7,643	7,721	7,798	7,875	7,953	8,030	8,106	8,183
Commercial Customers	1,306	1,320	1,335	1,350	1,365	1,379	1,394	1,409	1,424	1,439
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	8,809	8,901	8,993	9,085	9,178	9,270	9,362	9,454	9,545	9,637

Stanfield	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.38%	0.53%	0.21%	0.36%	0.35%	0.50%	0.17%	0.32%	0.31%	0.46%
Residential Therms	126,953	127,321	127,685	128,043	128,391	128,725	129,048	129,359	129,659	129,949
Commercial Therms	72,280	72,962	73,022	73,388	73,754	74,433	74,463	74,800	75,137	75,795
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	199,233	200,284	200,707	201,431	202,144	203,157	203,511	204,159	204,796	205,744
Daily Baseload Therms	255	256	257	258	259	260	261	262	262	263
Peak Day Therms	3,056	3,067	3,078	3,089	3,099	3,109	3,119	3,129	3,138	3,148
Therms Per Residential Customer	400	400	400	400	400	400	400	400	400	400
Therms Per Commercial Customer	1,937	1,945	1,937	1,937	1,937	1,945	1,937	1,937	1,937	1,945
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	318	319	320	320	321	322	323	324	324	325
Commercial Customers	37	38	38	38	38	38	38	39	39	39
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	355	356	357	358	359	360	361	362	363	364

Stearns (Sunriver)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.04%	1.47%	0.59%	1.02%	1.01%	1.43%	0.55%	0.97%	0.96%	1.39%
Residential Therms	3,821,976	3,878,954	3,900,651	3,940,250	3,979,771	4,037,659	4,058,585	4,097,891	4,137,119	4,195,467
Commercial Therms	1,231,946	1,249,535	1,258,230	1,271,351	1,284,488	1,302,225	1,310,640	1,323,716	1,336,817	1,354,695
Industrial Therms	18,807	18,882	18,956	19,028	19,100	19,171	19,239	19,306	19,374	19,438
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	5,072,729	5,147,371	5,177,837	5,230,629	5,283,359	5,359,054	5,388,464	5,440,914	5,493,309	5,569,601
Daily Baseload Therms	4,188	4,232	4,276	4,319	4,363	4,407	4,451	4,494	4,538	4,582
Peak Day Therms	58,847	59,454	60,063	60,674	61,284	61,893	62,501	63,108	63,714	64,319
Therms Per Residential Customer	957	962	957	957	957	962	957	957	957	962
Therms Per Commercial Customer	4,833	4,850	4,833	4,833	4,833	4,850	4,833	4,833	4,833	4,850
Therms Per Industrial Customer	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886
Residential Customers	3,993	4,034	4,075	4,116	4,158	4,199	4,240	4,281	4,322	4,363
Commercial Customers	255	258	260	263	266	269	271	274	277	279
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	4,251	4,295	4,338	4,383	4,427	4,470	4,514	4,558	4,602	4,645

Pronghorn	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.07%	1.45%	0.66%	1.04%	1.03%	1.41%	0.61%	1.00%	0.99%	1.37%
Residential Therms	334,894	339,706	341,787	345,257	348,720	353,605	355,626	359,070	362,507	367,425
Commercial Therms	237,155	240,653	242,381	244,992	247,608	251,144	252,824	255,435	258,051	261,628
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	572,048	580,359	584,168	590,249	596,328	604,748	608,450	614,505	620,559	629,053
Daily Baseload Therms	768	776	784	792	800	809	817	825	833	841
Peak Day Therms	5,482	5,540	5,598	5,656	5,714	5,772	5,830	5,887	5,945	6,003
Therms Per Residential Customer	1,503	1,509	1,503	1,503	1,503	1,509	1,503	1,503	1,503	1,509
Therms Per Commercial Customer	8,544	8,576	8,544	8,544	8,544	8,576	8,544	8,544	8,544	8,576
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	223	225	227	230	232	234	237	239	241	244
Commercial Customers	28	28	28	29	29	29	30	30	30	31
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	251	253	256	258	261	264	266	269	271	274

Bend Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.05%	1.48%	0.59%	1.02%	1.01%	1.45%	0.55%	0.98%	0.97%	1.41%
Residential Therms	23,913,470	24,267,619	24,405,729	24,653,495	24,900,768	25,260,511	25,393,894	25,639,825	25,885,267	26,247,798
Commercial Therms	13,003,201	13,202,679	13,287,944	13,430,219	13,572,825	13,774,894	13,857,646	14,000,376	14,143,689	14,349,210
Industrial Therms	319,858	320,664	321,435	322,166	322,903	323,621	324,298	324,960	325,625	326,247
Ind., Inst., & Cmcl. Interrup. Therms	356,147	359,563	360,712	363,005	365,343	368,862	370,076	372,478	374,928	378,580
Total Core Therms	37,592,676	38,150,526	38,375,820	38,768,886	39,161,839	39,727,888	39,945,914	40,337,638	40,729,509	41,301,836
Daily Baseload Therms	24,787	25,043	25,300	25,557	25,815	26,072	26,329	26,586	26,843	27,100
Peak Day Therms	462,201	467,010	471,836	476,672	481,507	486,332	491,153	495,971	500,791	505,606
Therms Per Residential Customer	779	782	779	779	779	782	779	779	779	782
Therms Per Commercial Customer	2,795	2,808	2,795	2,795	2,795	2,808	2,795	2,795	2,795	2,808
Therms Per Industrial Customer	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391
Residential Customers	30,705	31,021	31,337	31,655	31,973	32,290	32,606	32,922	33,237	33,552
Commercial Customers	4,652	4,702	4,753	4,804	4,855	4,906	4,957	5,008	5,059	5,111
Industrial Customers	16	16	16	16	16	16	16	16	16	16
Interruptible Customers	3	3	3	4	4	4	4	4	4	4
Total Core Customers	35,376	35,742	36,110	36,479	36,848	37,215	37,583	37,950	38,316	38,682

McCleary (Aberdeen/Hoquiam)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.29%	0.71%	-0.15%	0.27%	0.25%	0.68%	-0.19%	0.23%	0.22%	0.63%
Residential Therms	2,598,033	2,616,058	2,609,964	2,615,772	2,621,328	2,638,756	2,631,707	2,636,516	2,641,112	2,657,690
Commercial Therms	2,563,444	2,584,792	2,583,873	2,594,104	2,603,987	2,625,198	2,623,524	2,633,073	2,642,546	2,663,118
Industrial Therms	219,749	219,270	216,909	215,366	213,757	213,054	210,454	208,830	207,100	206,220
Ind., Inst., & Cmcl. Interrup. Therms	977,521	983,699	983,278	985,799	988,163	993,785	992,514	994,522	996,360	1,001,267
Total Core Therms	6,358,747	6,403,818	6,394,024	6,411,041	6,427,236	6,470,794	6,458,199	6,472,941	6,487,118	6,528,295
Daily Baseload Therms	6,217	6,234	6,250	6,265	6,280	6,294	6,307	6,321	6,333	6,344
Peak Day Therms	56,552	56,706	56,858	57,007	57,149	57,288	57,420	57,550	57,675	57,793
Therms Per Residential Customer	724	727	724	724	724	727	724	724	724	727
Therms Per Commercial Customer	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312
Therms Per Industrial Customer	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247
Residential Customers	3,591	3,599	3,607	3,615	3,623	3,630	3,637	3,644	3,650	3,656
Commercial Customers	777	780	783	787	790	793	796	798	801	804
Industrial Customers	14	13	13	13	13	13	13	13	13	13
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,385	4,397	4,408	4,419	4,429	4,440	4,450	4,459	4,468	4,477

Acme	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.66%	1.13%	0.17%	0.64%	0.63%	1.09%	0.13%	0.60%	0.59%	1.05%
Residential Therms	53,830	54,431	54,520	54,865	55,206	55,806	55,878	56,209	56,537	57,130
Commercial Therms	38,227	38,665	38,733	38,982	39,229	39,661	39,714	39,952	40,189	40,615
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	92,057	93,096	93,253	93,846	94,435	95,466	95,592	96,161	96,726	97,745
Daily Baseload Therms	36	37	37	37	37	38	38	38	38	39
Peak Day Therms	1,041	1,048	1,055	1,062	1,068	1,075	1,081	1,088	1,094	1,101
Therms Per Residential Customer	754	757	754	754	754	757	754	754	754	757
Therms Per Commercial Customer	3,878	3,897	3,878	3,878	3,878	3,897	3,878	3,878	3,878	3,897
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	71	72	72	73	73	74	74	75	75	75
Commercial Customers	10	10	10	10	10	10	10	10	10	10
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	81	82	82	83	83	84	84	85	85	86

Arlington	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.57%	0.96%	0.16%	0.55%	0.54%	0.93%	0.12%	0.52%	0.51%	0.90%
Residential Therms	3,660,280	3,697,578	3,704,833	3,727,076	3,749,068	3,786,181	3,792,305	3,813,561	3,834,578	3,871,108
Commercial Therms	2,036,819	2,055,689	2,058,494	2,069,170	2,079,800	2,098,492	2,100,798	2,111,183	2,121,543	2,140,147
Industrial Therms	339,207	341,214	340,674	341,343	341,982	343,850	343,170	343,727	344,263	346,051
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	6,036,306	6,094,481	6,104,001	6,137,588	6,170,849	6,228,523	6,236,273	6,268,471	6,300,385	6,357,306
Daily Baseload Therms	7,046	7,085	7,124	7,163	7,201	7,239	7,276	7,314	7,350	7,387
Peak Day Therms	57,203	57,525	57,845	58,164	58,480	58,792	59,101	59,406	59,709	60,009
Therms Per Residential Customer	731	734	731	731	731	734	731	731	731	734
Therms Per Commercial Customer	3,389	3,402	3,389	3,389	3,389	3,402	3,389	3,389	3,389	3,402
Therms Per Industrial Customer	11,772	11,816	11,772	11,772	11,772	11,816	11,772	11,772	11,772	11,816
Residential Customers	5,008	5,039	5,069	5,100	5,130	5,160	5,189	5,218	5,247	5,275
Commercial Customers	601	604	607	611	614	617	620	623	626	629
Industrial Customers	29	29	29	29	29	29	29	29	29	29
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	5,638	5,672	5,706	5,739	5,773	5,805	5,838	5,870	5,902	5,934

Bremerton (Shelton)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.62%	1.04%	0.19%	0.60%	0.59%	1.00%	0.15%	0.56%	0.55%	0.96%
Residential Therms	22,505,221	22,731,602	22,752,789	22,876,075	22,997,742	23,222,329	23,235,933	23,352,558	23,467,593	23,687,964
Commercial Therms	11,648,193	11,780,880	11,815,150	11,897,276	11,979,800	12,111,878	12,141,993	12,221,757	12,301,049	12,431,651
Industrial Therms	319,626	321,126	322,617	324,059	325,518	326,979	328,407	329,837	331,268	332,672
Ind., Inst., & Cmcl. Interrup. Therms	2,605,872	2,629,137	2,644,240	2,662,944	2,681,297	2,703,357	2,716,773	2,733,854	2,750,547	2,771,059
Total Core Therms	37,078,911	37,462,745	37,534,797	37,760,353	37,984,357	38,364,543	38,423,106	38,638,007	38,850,456	39,223,346
Daily Baseload Therms	28,608	28,792	28,977	29,159	29,340	29,518	29,694	29,867	30,039	30,208
Peak Day Therms	369,787	372,044	374,297	376,529	378,745	380,928	383,084	385,208	387,308	389,383
Therms Per Residential Customer	675	678	675	675	675	678	675	675	675	678
Therms Per Commercial Customer	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	33,348	33,532	33,715	33,898	34,078	34,256	34,431	34,604	34,774	34,942
Commercial Customers	3,221	3,244	3,267	3,290	3,312	3,335	3,357	3,379	3,401	3,423
Industrial Customers	17	17	17	17	17	17	17	17	17	17
Interruptible Customers	11	11	11	11	11	11	11	11	12	12
Total Core Customers	36,597	36,803	37,010	37,215	37,419	37,619	37,817	38,012	38,204	38,395

Castle Rock	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.56%	0.82%	0.26%	0.53%	0.52%	0.79%	0.21%	0.49%	0.47%	0.74%
Residential Therms	32,130	32,239	32,347	32,454	32,557	32,657	32,753	32,846	32,935	33,022
Commercial Therms	132,728	133,968	134,292	135,068	135,829	137,057	137,321	138,056	138,769	139,956
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	164,858	166,208	166,639	167,522	168,386	169,713	170,074	170,902	171,704	172,978
Daily Baseload Therms	187	188	189	190	191	192	193	194	195	196
Peak Day Therms	1,619	1,628	1,636	1,644	1,652	1,660	1,668	1,676	1,683	1,691
Therms Per Residential Customer	472	472	472	472	472	472	472	472	472	472
Therms Per Commercial Customer	2,506	2,514	2,506	2,506	2,506	2,514	2,506	2,506	2,506	2,514
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	68	68	68	69	69	69	69	70	70	70
Commercial Customers	53	53	54	54	54	55	55	55	55	56
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	121	122	122	123	123	124	124	125	125	126

Walla Walla	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.43%	0.89%	-0.06%	0.40%	0.38%	0.84%	-0.11%	0.34%	0.33%	0.79%
Residential Therms	6,694,509	6,746,391	6,731,296	6,749,203	6,766,395	6,816,534	6,798,555	6,813,585	6,827,921	6,875,617
Commercial Therms	4,510,291	4,554,898	4,556,231	4,578,677	4,600,484	4,643,821	4,642,819	4,663,148	4,683,208	4,724,479
Industrial Therms	86,261	86,359	86,447	86,524	86,590	86,656	86,701	86,756	86,791	86,825
Ind., Inst., & Cmcl. Interrup. Therms	1,847,394	1,867,231	1,872,591	1,884,761	1,896,518	1,915,303	1,919,377	1,930,143	1,940,712	1,958,407
Total Core Therms	13,138,455	13,254,879	13,246,565	13,299,164	13,349,987	13,462,314	13,447,453	13,493,632	13,538,632	13,645,328
Daily Baseload Therms	12,368	12,423	12,478	12,531	12,583	12,633	12,682	12,729	12,775	12,819
Peak Day Therms	179,913	180,626	181,324	182,011	182,674	183,320	183,943	184,545	185,130	185,690
Therms Per Residential Customer	598	601	598	598	598	601	598	598	598	601
Therms Per Commercial Customer	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	11,194	11,225	11,256	11,285	11,314	11,342	11,368	11,393	11,417	11,440
Commercial Customers	1,363	1,370	1,377	1,384	1,391	1,397	1,403	1,410	1,416	1,421
Industrial Customers	16	16	16	16	16	16	16	16	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	12,576	12,614	12,652	12,688	12,724	12,758	12,790	12,822	12,852	12,880

Deming	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.32%	1.78%	0.84%	1.28%	1.27%	1.72%	0.77%	1.21%	1.19%	1.64%
Residential Therms	14,258	14,419	14,441	14,532	14,623	14,783	14,801	14,889	14,975	15,134
Commercial Therms	78,210	79,402	79,953	80,827	81,701	82,905	83,436	84,299	85,161	86,366
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	82,805	84,570	85,498	86,841	88,191	89,996	90,896	92,238	93,574	95,393
Total Core Therms	175,274	178,391	179,892	182,200	184,514	187,684	189,132	191,426	193,711	196,893
Daily Baseload Therms	111	112	113	114	116	117	118	120	121	122
Peak Day Therms	1,882	1,907	1,933	1,958	1,984	2,010	2,035	2,060	2,086	2,111
Therms Per Residential Customer	527	530	527	527	527	530	527	527	527	530
Therms Per Commercial Customer	5,690	5,713	5,690	5,690	5,690	5,713	5,690	5,690	5,690	5,713
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	27	27	27	28	28	28	28	28	28	29
Commercial Customers	14	14	14	14	14	15	15	15	15	15
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	42	42	43	43	43	44	44	44	45	45

Wenatchee	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.65%	1.03%	0.25%	0.62%	0.62%	0.99%	0.21%	0.59%	0.58%	0.95%
Residential Therms	657,851	664,505	665,037	668,609	672,136	678,731	679,028	682,399	685,721	692,183
Commercial Therms	3,676,131	3,717,094	3,726,299	3,750,935	3,775,725	3,816,444	3,824,401	3,848,332	3,872,129	3,912,396
Industrial Therms	354,306	355,820	357,302	358,724	360,148	361,535	362,898	364,227	365,534	366,806
Ind., Inst., & Cmcl. Interrup. Therms	231,581	232,917	234,260	235,581	236,922	238,250	239,576	240,896	242,215	243,527
Total Core Therms	4,919,869	4,970,336	4,982,897	5,013,849	5,044,931	5,094,960	5,105,903	5,135,854	5,165,599	5,214,912
Daily Baseload Therms	4,773	4,803	4,834	4,864	4,895	4,924	4,954	4,983	5,012	5,041
Peak Day Therms	50,902	51,224	51,547	51,863	52,181	52,494	52,805	53,111	53,416	53,717
Therms Per Residential Customer	443	445	443	443	443	445	443	443	443	445
Therms Per Commercial Customer	4,889	4,910	4,889	4,889	4,889	4,910	4,889	4,889	4,889	4,910
Therms Per Industrial Customer	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936
Residential Customers	1,485	1,493	1,501	1,509	1,517	1,525	1,532	1,540	1,547	1,555
Commercial Customers	752	757	762	767	772	777	782	787	792	797
Industrial Customers	15	16	16	16	16	16	16	16	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	2,255	2,269	2,282	2,295	2,308	2,321	2,334	2,346	2,359	2,371

Finley	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.88%	1.39%	0.32%	0.83%	0.82%	1.34%	0.27%	0.78%	0.77%	1.29%
Residential Therms	14,888	15,090	15,137	15,262	15,386	15,589	15,631	15,753	15,874	16,077
Commercial Therms	92,928	94,227	94,531	95,321	96,102	97,392	97,650	98,413	99,169	100,446
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	107,816	109,317	109,667	110,583	111,488	112,981	113,282	114,166	115,043	116,524
Daily Baseload Therms	42	42	43	43	43	44	44	44	45	45
Peak Day Therms	1,842	1,858	1,873	1,889	1,905	1,920	1,935	1,950	1,965	1,980
Therms Per Residential Customer	520	523	520	520	520	523	520	520	520	523
Therms Per Commercial Customer	6,295	6,328	6,295	6,295	6,295	6,328	6,295	6,295	6,295	6,328
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	29	29	29	29	30	30	30	30	31	31
Commercial Customers	15	15	15	15	15	15	16	16	16	16
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	43	44	44	44	45	45	46	46	46	47

Grandview	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.36%	0.35%	0.34%	0.34%	0.33%	0.32%	0.31%	0.30%	0.29%	0.28%
Residential Therms	705,530	707,594	709,625	711,623	713,544	715,388	717,158	718,855	720,479	722,036
Commercial Therms	851,190	855,928	860,613	865,239	869,812	874,295	878,697	883,024	887,305	891,467
Industrial Therms	718,455	719,652	720,789	721,860	722,855	723,800	724,698	725,551	726,337	727,077
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	2,275,174	2,283,173	2,291,027	2,298,722	2,306,211	2,313,482	2,320,553	2,327,429	2,334,120	2,340,580
Daily Baseload Therms	1,559	1,563	1,568	1,572	1,575	1,579	1,583	1,586	1,589	1,593
Peak Day Therms	26,984	27,092	27,198	27,303	27,405	27,504	27,601	27,696	27,788	27,877
Therms Per Residential Customer	714	714	714	714	714	714	714	714	714	714
Therms Per Commercial Customer	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234
Therms Per Industrial Customer	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682
Residential Customers	988	991	994	996	999	1,002	1,004	1,007	1,009	1,011
Commercial Customers	201	202	203	204	205	207	208	209	210	211
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	1,197	1,201	1,205	1,209	1,213	1,217	1,220	1,223	1,227	1,230

Zillah (Toppenish)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.43%	0.84%	0.01%	0.41%	0.40%	0.80%	-0.04%	0.36%	0.35%	0.75%
Residential Therms	1,065,461	1,073,863	1,071,647	1,074,663	1,077,565	1,085,692	1,083,023	1,085,584	1,088,037	1,095,781
Commercial Therms	2,115,059	2,136,656	2,138,543	2,150,042	2,161,376	2,182,458	2,183,332	2,193,981	2,204,473	2,224,849
Industrial Therms	430,862	431,246	431,589	431,892	432,153	432,378	432,576	432,749	432,882	432,988
Ind., Inst., & Cmcl. Interrup. Therms	50,862	51,062	51,259	51,452	51,639	51,824	52,005	52,181	52,353	52,521
Total Core Therms	3,662,244	3,692,827	3,693,038	3,708,049	3,722,733	3,752,352	3,750,935	3,764,495	3,777,745	3,806,140
Daily Baseload Therms	3,124	3,135	3,145	3,155	3,165	3,175	3,184	3,193	3,201	3,210
Peak Day Therms	43,564	43,742	43,917	44,089	44,258	44,421	44,580	44,735	44,887	45,033
Therms Per Residential Customer	538	541	538	538	538	541	538	538	538	541
Therms Per Commercial Customer	3,861	3,879	3,861	3,861	3,861	3,879	3,861	3,861	3,861	3,879
Therms Per Industrial Customer	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025
Residential Customers	1,980	1,985	1,991	1,997	2,002	2,007	2,012	2,017	2,022	2,026
Commercial Customers	548	551	554	557	560	563	566	568	571	574
Industrial Customers	23	23	23	23	23	23	23	23	23	23
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,551	2,560	2,569	2,577	2,586	2,594	2,602	2,609	2,616	2,623

Kalama #2	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	-0.09%	0.02%	-0.25%	-0.14%	-0.14%	-0.03%	-0.30%	-0.18%	-0.19%	-0.07%
Residential Therms	206,770	207,474	208,170	208,856	209,518	210,159	210,779	211,377	211,953	212,509
Commercial Therms	190,572	191,739	191,258	191,587	191,920	193,069	192,552	192,865	193,162	194,294
Industrial Therms	222,596	220,850	219,059	217,174	215,294	213,321	211,354	209,344	207,291	205,197
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	619,938	620,063	618,486	617,616	616,732	616,549	614,684	613,586	612,407	612,000
Daily Baseload Therms	1,079	1,075	1,071	1,066	1,062	1,057	1,052	1,048	1,042	1,037
Peak Day Therms	5,595	5,594	5,593	5,591	5,589	5,586	5,583	5,579	5,574	5,569
Therms Per Residential Customer	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169
Therms Per Commercial Customer	3,961	3,978	3,961	3,961	3,961	3,978	3,961	3,961	3,961	3,978
Therms Per Industrial Customer	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719
Residential Customers	177	177	178	179	179	180	180	181	181	182
Commercial Customers	48	48	48	48	48	49	49	49	49	49
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	228	229	229	230	230	231	232	232	233	233

Lawrence	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.67%	1.13%	0.19%	0.65%	0.64%	1.10%	0.15%	0.61%	0.60%	1.06%
Residential Therms	46,898	47,414	47,499	47,799	48,096	48,612	48,682	48,970	49,256	49,765
Commercial Therms	22,140	22,410	22,455	22,612	22,769	23,039	23,078	23,231	23,384	23,654
Industrial Therms	712	715	717	720	722	724	727	729	731	732
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	69,750	70,539	70,671	71,131	71,587	72,375	72,486	72,930	73,370	74,151
Daily Baseload Therms	33	34	34	34	34	34	35	35	35	35
Peak Day Therms	790	795	801	806	811	816	821	827	832	837
Therms Per Residential Customer	720	724	720	720	720	724	720	720	720	724
Therms Per Commercial Customer	1,189	1,195	1,189	1,189	1,189	1,195	1,189	1,189	1,189	1,195
Therms Per Industrial Customer	671	671	671	671	671	671	671	671	671	671
Residential Customers	65	66	66	66	67	67	68	68	68	69
Commercial Customers	19	19	19	19	19	19	19	20	20	20
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	85	85	86	86	87	88	88	89	89	90

Moxee (Beauchene)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.42%	0.50%	0.32%	0.40%	0.39%	0.48%	0.29%	0.37%	0.37%	0.45%
Residential Therms	340,341	342,846	342,506	343,577	344,624	347,088	346,647	347,624	348,578	350,974
Commercial Therms	619,280	622,290	625,287	628,269	631,208	634,129	636,978	639,850	642,659	645,486
Industrial Therms	295,467	296,494	297,507	298,496	299,479	300,439	301,390	302,318	303,234	304,139
Ind., Inst., & Cmcl. Interrup. Therms	328,514	329,874	331,240	332,573	333,906	335,220	336,515	337,798	339,068	340,332
Total Core Therms	1,583,602	1,591,503	1,596,540	1,602,915	1,609,217	1,616,877	1,621,530	1,627,589	1,633,539	1,640,932
Daily Baseload Therms	717	721	725	729	733	737	741	745	748	752
Peak Day Therms	14,776	14,860	14,943	15,025	15,106	15,186	15,265	15,343	15,420	15,497
Therms Per Residential Customer	198	199	198	198	198	198	197	197	197	198
Therms Per Commercial Customer	1,398	1,396	1,393	1,390	1,388	1,385	1,383	1,380	1,378	1,376
Therms Per Industrial Customer	19,221	19,193	19,166	19,140	19,114	19,089	19,064	19,040	19,017	18,994
Residential Customers	1,716	1,723	1,730	1,737	1,744	1,751	1,757	1,764	1,770	1,776
Commercial Customers	443	446	449	452	455	458	461	464	466	469
Industrial Customers	15	15	16	16	16	16	16	16	16	16
Interruptible Customers	5	5	5	5	5	5	5	5	5	5
Total Core Customers	2,180	2,190	2,200	2,210	2,220	2,230	2,239	2,248	2,258	2,267

Othello	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.29%	0.46%	0.11%	0.27%	0.26%	0.43%	0.07%	0.24%	0.23%	0.40%
Residential Therms	628,573	633,309	631,681	633,200	634,672	639,262	637,398	638,684	639,909	644,295
Commercial Therms	735,844	737,899	739,951	741,941	743,786	745,590	747,371	749,184	750,820	752,382
Industrial Therms	196,195	196,570	196,958	197,283	197,580	197,884	198,152	198,427	198,667	198,941
Ind., Inst., & Cmcl. Interrup. Therms	224,217	225,304	226,398	227,449	228,503	229,515	230,552	231,527	232,527	233,515
Total Core Therms	1,784,829	1,793,082	1,794,990	1,799,874	1,804,540	1,812,251	1,813,473	1,817,823	1,821,924	1,829,133
Daily Baseload Therms	2,638	2,644	2,651	2,657	2,663	2,669	2,675	2,680	2,685	2,690
Peak Day Therms	22,331	22,399	22,466	22,532	22,594	22,655	22,714	22,772	22,827	22,880
Therms Per Residential Customer	562	565	562	562	562	565	562	562	562	565
Therms Per Commercial Customer	2,533	2,533	2,533	2,532	2,532	2,532	2,531	2,531	2,531	2,530
Therms Per Industrial Customer	17,129	17,128	17,128	17,127	17,127	17,126	17,125	17,125	17,125	17,124
Residential Customers	1,118	1,121	1,124	1,127	1,129	1,132	1,134	1,137	1,139	1,141
Commercial Customers	290	291	292	293	294	295	295	296	297	297
Industrial Customers	11	11	11	12	12	12	12	12	12	12
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	1,423	1,427	1,430	1,434	1,438	1,441	1,444	1,447	1,450	1,453

North Pasco	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.79%	1.11%	0.44%	0.76%	0.75%	1.07%	0.40%	0.72%	0.71%	1.03%
Residential Therms	2,733,178	2,769,979	2,776,800	2,798,641	2,820,325	2,857,322	2,863,214	2,884,425	2,905,493	2,942,359
Commercial Therms	1,577,690	1,589,639	1,601,561	1,613,421	1,625,252	1,636,995	1,648,661	1,660,150	1,671,622	1,683,059
Industrial Therms	81,329	81,612	81,889	82,159	82,425	82,685	82,934	83,183	83,421	83,660
Ind., Inst., & Cmcl. Interrup. Therms	164,008	165,382	166,766	168,149	169,532	170,920	172,304	173,674	175,044	176,416
Total Core Therms	4,556,205	4,606,611	4,627,016	4,662,370	4,697,535	4,747,923	4,767,112	4,801,431	4,835,580	4,885,494
Daily Baseload Therms	2,292	2,310	2,327	2,344	2,361	2,378	2,395	2,411	2,428	2,444
Peak Day Therms	72,203	72,767	73,330	73,893	74,452	75,008	75,559	76,105	76,649	77,190
Therms Per Residential Customer	1,316	1,323	1,316	1,316	1,316	1,323	1,316	1,316	1,316	1,323
Therms Per Commercial Customer	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178
Therms Per Industrial Customer	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394
Residential Customers	2,077	2,093	2,110	2,126	2,143	2,159	2,175	2,191	2,207	2,223
Commercial Customers	220	221	223	225	226	228	230	231	233	234
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,300	2,318	2,336	2,354	2,372	2,390	2,408	2,426	2,444	2,461

Patterson	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.31%	0.31%	0.29%	0.29%	0.28%	0.27%	0.27%	0.26%	0.26%	0.24%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	8,933	8,955	8,976	8,996	9,015	9,035	9,053	9,071	9,088	9,104
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	212,018	212,671	213,290	213,907	214,521	215,102	215,681	216,243	216,802	217,329
Total Core Therms	220,951	221,626	222,266	222,903	223,537	224,137	224,734	225,313	225,890	226,433
Daily Baseload Therms	270	271	272	273	274	275	276	277	278	279
Peak Day Therms	2,572	2,582	2,591	2,600	2,609	2,618	2,626	2,635	2,643	2,651
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	2,693	2,692	2,691	2,690	2,689	2,688	2,687	2,686	2,686	2,685
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	3	3	3	3	3	3	3	3	3	3
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4	4	4	4	4	4	4	4	4	4

Prosser	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.68%	1.14%	0.19%	0.64%	0.63%	1.10%	0.15%	0.60%	0.59%	1.06%
Residential Therms	254,961	258,381	259,226	261,364	263,488	266,932	267,699	269,784	271,857	275,293
Commercial Therms	471,960	478,111	479,878	483,835	487,781	494,000	495,671	499,586	503,509	509,740
Industrial Therms	161,535	162,098	161,194	160,902	160,561	160,925	159,831	159,394	158,909	159,120
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	888,456	898,591	900,298	906,101	911,830	921,857	923,201	928,763	934,275	944,154
Daily Baseload Therms	528	531	534	537	540	543	545	548	551	554
Peak Day Therms	9,877	9,945	10,012	10,078	10,144	10,209	10,274	10,338	10,401	10,463
Therms Per Residential Customer	516	519	516	516	516	519	516	516	516	519
Therms Per Commercial Customer	3,110	3,124	3,110	3,110	3,110	3,124	3,110	3,110	3,110	3,124
Therms Per Industrial Customer	31,722	31,861	31,722	31,722	31,722	31,861	31,722	31,722	31,722	31,861
Residential Customers	494	498	502	506	510	514	518	522	526	530
Commercial Customers	152	153	154	156	157	158	159	161	162	163
Industrial Customers	5	5	5	5	5	5	5	5	5	5
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	651	656	661	667	672	678	683	688	693	699

Quincy	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.58%	0.57%	0.56%	0.55%	0.54%	0.53%	0.52%	0.51%	0.49%	0.49%
Residential Therms	42,876	43,177	43,479	43,780	44,079	44,375	44,668	44,959	45,248	45,534
Commercial Therms	494,238	497,542	500,826	504,099	507,311	510,503	513,599	516,719	519,759	522,811
Industrial Therms	211,242	212,260	213,254	214,229	215,194	216,133	217,063	217,968	218,862	219,740
Ind., Inst., & Cmcl. Interrup. Therms	113,235	113,548	113,860	114,143	114,425	114,679	114,932	115,156	115,352	115,548
Total Core Therms	861,589	866,527	871,419	876,251	881,008	885,690	890,261	894,802	899,221	903,633
Daily Baseload Therms	955	960	965	971	976	981	986	991	996	1,001
Peak Day Therms	10,053	10,112	10,170	10,227	10,283	10,339	10,393	10,447	10,500	10,552
Therms Per Residential Customer	659	659	659	659	659	659	659	659	659	659
Therms Per Commercial Customer	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167
Therms Per Industrial Customer	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756
Residential Customers	65	66	66	66	67	67	68	68	69	69
Commercial Customers	69	69	70	70	71	71	72	72	73	73
Industrial Customers	6	6	7	7	7	7	7	7	7	7
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	142	142	143	144	145	146	147	148	149	150

Sunnyside	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.38%	0.76%	-0.02%	0.36%	0.35%	0.73%	-0.06%	0.32%	0.31%	0.69%
Residential Therms	1,074,741	1,083,164	1,080,980	1,084,023	1,086,950	1,095,096	1,092,455	1,095,039	1,097,513	1,105,272
Commercial Therms	1,572,681	1,587,753	1,588,379	1,596,061	1,603,642	1,618,365	1,618,332	1,625,462	1,632,506	1,646,776
Industrial Therms	569,375	569,927	570,415	570,840	571,201	571,493	571,742	571,943	572,088	572,193
Ind., Inst., & Cmcl. Interrup. Therms	166,330	168,120	168,443	169,482	170,513	172,267	172,514	173,489	174,455	176,157
Total Core Therms	3,383,127	3,408,963	3,408,217	3,420,406	3,432,306	3,457,221	3,455,043	3,465,933	3,476,562	3,500,398
Daily Baseload Therms	3,047	3,057	3,065	3,074	3,082	3,090	3,098	3,106	3,113	3,120
Peak Day Therms	37,128	37,270	37,409	37,547	37,681	37,810	37,937	38,060	38,180	38,296
Therms Per Residential Customer	562	565	562	562	562	565	562	562	562	565
Therms Per Commercial Customer	2,840	2,853	2,840	2,840	2,840	2,853	2,840	2,840	2,840	2,853
Therms Per Industrial Customer	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468
Residential Customers	1,911	1,917	1,922	1,928	1,933	1,938	1,943	1,947	1,952	1,956
Commercial Customers	554	556	559	562	565	567	570	572	575	577
Industrial Customers	17	17	17	17	17	17	17	17	17	17
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	2,483	2,492	2,500	2,508	2,516	2,524	2,531	2,538	2,545	2,552

Moses Lake	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.49%	0.87%	0.06%	0.45%	0.44%	0.83%	0.02%	0.41%	0.40%	0.80%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	96,396	96,862	97,312	97,752	98,185	98,603	99,016	99,416	99,810	100,195
Industrial Therms	3,009,154	3,035,830	3,037,337	3,050,959	3,064,478	3,090,301	3,090,605	3,103,222	3,115,616	3,140,794
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	3,105,550	3,132,692	3,134,649	3,148,711	3,162,663	3,188,904	3,189,621	3,202,638	3,215,426	3,240,989
Daily Baseload Therms	3,194	3,209	3,224	3,239	3,253	3,267	3,281	3,294	3,307	3,320
Peak Day Therms	29,741	29,881	30,019	30,154	30,288	30,417	30,546	30,670	30,793	30,914
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929
Therms Per Industrial Customer	399,066	400,714	399,066	399,066	399,066	400,714	399,066	399,066	399,066	400,714
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	5	5	5	5	5	5	6	6	6	6
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	13	13	13	13	13	13	13	13	13	13

Woodland	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.76%	0.84%	0.66%	0.74%	0.73%	0.81%	0.63%	0.70%	0.70%	0.77%
Residential Therms	407,046	411,491	415,906	420,372	424,835	429,323	433,753	438,209	442,662	447,143
Commercial Therms	772,219	779,217	786,247	793,300	800,400	807,521	814,676	821,850	829,074	836,320
Industrial Therms	353,700	355,102	353,835	353,841	353,785	354,909	353,364	353,020	352,573	353,388
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,532,966	1,545,810	1,555,988	1,567,513	1,579,020	1,591,753	1,601,793	1,613,079	1,624,309	1,636,851
Daily Baseload Therms	1,199	1,206	1,212	1,218	1,224	1,230	1,236	1,242	1,247	1,253
Peak Day Therms	17,677	17,826	17,975	18,125	18,274	18,423	18,572	18,721	18,869	19,017
Therms Per Residential Customer	593	593	593	593	593	593	593	593	593	593
Therms Per Commercial Customer	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488
Therms Per Industrial Customer	24,651	24,743	24,651	24,651	24,651	24,743	24,651	24,651	24,651	24,743
Residential Customers	687	694	702	709	717	725	732	740	747	755
Commercial Customers	221	223	225	227	229	232	234	236	238	240
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	923	932	942	951	961	970	980	990	999	1,009

A/M Rendering	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.65%	1.01%	0.27%	0.63%	0.62%	0.99%	0.23%	0.59%	0.58%	0.95%
Residential Therms	460,814	465,481	466,720	469,671	472,592	477,240	478,346	481,179	483,985	488,565
Commercial Therms	4,183	4,233	4,253	4,288	4,322	4,372	4,392	4,426	4,461	4,511
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	464,998	469,713	470,973	473,958	476,914	481,612	482,738	485,606	488,446	493,076
Daily Baseload Therms	758	763	768	772	777	782	787	791	796	801
Peak Day Therms	3,201	3,222	3,242	3,263	3,283	3,303	3,323	3,343	3,362	3,382
Therms Per Residential Customer	14,198	14,251	14,198	14,198	14,198	14,251	14,198	14,198	14,198	14,251
Therms Per Commercial Customer	3,753	3,766	3,753	3,753	3,753	3,766	3,753	3,753	3,753	3,766
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	32	33	33	33	33	33	34	34	34	34
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	34	34	34	34	34	35	35	35	35	35

LDS Church	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.65%	1.15%	0.13%	0.63%	0.62%	1.12%	0.11%	0.60%	0.60%	1.09%
Residential Therms	2,710	2,741	2,745	2,762	2,780	2,811	2,813	2,830	2,847	2,877
Commercial Therms	7,520	7,606	7,616	7,664	7,712	7,798	7,807	7,854	7,901	7,988
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	10,230	10,347	10,361	10,427	10,492	10,609	10,620	10,684	10,748	10,865
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	130	131	131	132	133	134	135	136	136	137
Therms Per Residential Customer	1,253	1,259	1,253	1,253	1,253	1,259	1,253	1,253	1,253	1,259
Therms Per Commercial Customer	6,883	6,917	6,883	6,883	6,883	6,917	6,883	6,883	6,883	6,917
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	3	3	3	3	3	3	3

Kalama #1	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.35%	0.34%	0.34%	0.33%	0.32%	0.31%	0.29%	0.28%	0.27%	0.26%
Residential Therms	1,004	1,008	1,011	1,014	1,018	1,021	1,024	1,027	1,029	1,032
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,004	1,008	1,011	1,014	1,018	1,021	1,024	1,027	1,029	1,032
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	11	11	11	12	12	12	12	12	12	12
Therms Per Residential Customer	320	320	320	320	320	320	320	320	320	320
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	3	3	3	3	3	3	3	3	3	3
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	3	3	3	3	3	3	3

Dehawn Dairy	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.30%	0.76%	-0.18%	0.28%	0.27%	0.73%	-0.22%	0.24%	0.23%	0.68%
Residential Therms	1,310	1,320	1,317	1,321	1,325	1,334	1,331	1,334	1,337	1,347
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,310	1,320	1,317	1,321	1,325	1,334	1,331	1,334	1,337	1,347
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	15	15	15	15	15	15	15	15	15	15
Therms Per Residential Customer	630	633	630	630	630	633	630	630	630	633
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

Yakima Chief Ranch	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.30%	0.95%	-0.37%	0.28%	0.27%	0.92%	-0.41%	0.24%	0.23%	0.87%
Residential Therms	437	441	439	440	442	446	444	445	446	450
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	437	441	439	440	442	446	444	445	446	450
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	6	6	6	6	6	6	6	6	6	6
Therms Per Residential Customer	210	212	210	210	210	212	210	210	210	212
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

7th Day School	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.33%	0.82%	-0.19%	0.30%	0.29%	0.79%	-0.23%	0.26%	0.25%	0.75%
Residential Therms	10,318	10,403	10,378	10,407	10,435	10,517	10,488	10,512	10,536	10,615
Commercial Therms	3,633	3,670	3,669	3,687	3,705	3,741	3,739	3,755	3,771	3,806
Industrial Therms	1,819	1,827	1,823	1,824	1,825	1,832	1,827	1,827	1,828	1,835
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	15,770	15,900	15,869	15,918	15,965	16,090	16,053	16,095	16,136	16,256
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	205	206	206	207	207	208	209	209	210	210
Therms Per Residential Customer	903	908	903	903	903	908	903	903	903	908
Therms Per Commercial Customer	3,386	3,404	3,386	3,386	3,386	3,404	3,386	3,386	3,386	3,404
Therms Per Industrial Customer	1,762	1,768	1,762	1,762	1,762	1,768	1,762	1,762	1,762	1,768
Residential Customers	11	11	11	12	12	12	12	12	12	12
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	14	14	14	14	14	14	14	14	14	14

Yakima Training Center	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.54%	1.04%	0.02%	0.51%	0.50%	0.99%	-0.03%	0.47%	0.45%	0.95%
Residential Therms	3,436	3,464	3,456	3,466	3,475	3,502	3,493	3,501	3,509	3,534
Commercial Therms	307,724	310,925	310,992	312,587	314,169	317,299	317,221	318,705	320,159	323,204
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	311,161	314,389	314,448	316,053	317,644	320,801	320,714	322,207	323,668	326,738
Daily Baseload Therms	259	260	262	263	264	266	267	268	269	271
Peak Day Therms	4,007	4,029	4,050	4,070	4,091	4,111	4,130	4,150	4,168	4,187
Therms Per Residential Customer	132	133	132	132	132	133	132	132	132	133
Therms Per Commercial Customer	2,968	2,983	2,968	2,968	2,968	2,983	2,968	2,968	2,968	2,983
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	26	26	26	26	26	26	26	26	27	27
Commercial Customers	104	104	105	105	106	106	107	107	108	108
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	130	130	131	132	132	133	133	134	134	135

Burbank Heights Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.68%	0.90%	0.43%	0.66%	0.65%	0.87%	0.40%	0.61%	0.61%	0.83%
Residential Therms	3,271,606	3,291,432	3,311,055	3,330,745	3,350,207	3,369,529	3,388,429	3,407,206	3,425,771	3,444,241
Commercial Therms	2,407,138	2,438,082	2,443,508	2,461,577	2,479,600	2,510,605	2,515,259	2,532,760	2,550,232	2,581,134
Industrial Therms	140,457	140,945	141,423	141,890	142,349	142,798	143,229	143,659	144,070	144,482
Ind., Inst., & Cmcl. Interrup. Therms	226,615	229,520	230,425	232,336	234,248	237,207	238,077	239,970	241,864	244,834
Total Core Therms	6,045,816	6,099,980	6,126,412	6,166,548	6,206,404	6,260,139	6,284,993	6,323,594	6,361,937	6,414,691
Daily Baseload Therms	4,733	4,764	4,794	4,825	4,856	4,886	4,916	4,945	4,974	5,003
Peak Day Therms	90,981	91,591	92,200	92,807	93,410	94,007	94,599	95,183	95,763	96,339
Therms Per Residential Customer	397	397	397	397	397	397	397	397	397	397
Therms Per Commercial Customer	2,679	2,693	2,679	2,679	2,679	2,693	2,679	2,679	2,679	2,693
Therms Per Industrial Customer	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873
Residential Customers	8,246	8,295	8,345	8,395	8,444	8,492	8,540	8,588	8,634	8,681
Commercial Customers	899	905	912	919	926	932	939	945	952	958
Industrial Customers	9	9	10	10	10	10	10	10	10	10
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	9,158	9,214	9,271	9,327	9,383	9,438	9,493	9,547	9,600	9,653

East Stanwood Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.67%	1.09%	0.23%	0.66%	0.65%	1.07%	0.20%	0.62%	0.61%	1.04%
Residential Therms	5,745,012	5,804,938	5,812,876	5,846,744	5,880,210	5,939,852	5,945,945	5,978,233	6,010,140	6,068,876
Commercial Therms	3,563,306	3,606,879	3,620,099	3,648,374	3,676,743	3,720,708	3,733,028	3,761,119	3,789,319	3,833,676
Industrial Therms	150,645	151,560	152,495	153,424	154,361	155,292	156,218	157,163	158,103	159,062
Ind., Inst., & Cmcl. Interrup. Therms	472,568	476,889	478,354	481,262	484,135	488,424	489,776	492,572	495,348	499,552
Total Core Therms	9,931,531	10,040,266	10,063,824	10,129,805	10,195,450	10,304,276	10,324,967	10,389,088	10,452,909	10,561,166
Daily Baseload Therms	8,955	9,016	9,077	9,138	9,199	9,259	9,319	9,378	9,437	9,496
Peak Day Therms	99,267	99,922	100,579	101,234	101,884	102,529	103,168	103,803	104,435	105,063
Therms Per Residential Customer	676	679	676	676	676	679	676	676	676	679
Therms Per Commercial Customer	3,501	3,516	3,501	3,501	3,501	3,516	3,501	3,501	3,501	3,516
Therms Per Industrial Customer	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076
Residential Customers	8,504	8,554	8,604	8,655	8,704	8,753	8,801	8,849	8,896	8,943
Commercial Customers	1,018	1,026	1,034	1,042	1,050	1,058	1,066	1,074	1,082	1,090
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	5	5	5	5	5	5	5	5	5	5
Total Core Customers	9,530	9,588	9,647	9,705	9,763	9,820	9,876	9,932	9,987	10,042

Kennewick Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.91%	1.35%	0.45%	0.89%	0.88%	1.31%	0.41%	0.84%	0.84%	1.27%
Residential Therms	10,134,798	10,270,092	10,304,347	10,389,327	10,473,765	10,609,976	10,641,135	10,724,026	10,806,447	10,942,323
Commercial Therms	10,162,124	10,306,238	10,358,763	10,457,188	10,555,485	10,701,388	10,751,826	10,849,594	10,947,667	11,094,587
Industrial Therms	183,739	184,657	185,572	186,477	187,375	188,278	189,177	190,075	190,976	191,882
Ind., Inst., & Cmcl. Interrup. Therms	1,213,515	1,225,083	1,236,672	1,248,262	1,259,823	1,271,398	1,282,931	1,294,441	1,305,955	1,317,416
Total Core Therms	21,694,175	21,986,071	22,085,355	22,281,253	22,476,449	22,771,040	22,865,069	23,058,136	23,251,045	23,546,207
Daily Baseload Therms	19,255	19,430	19,606	19,782	19,957	20,131	20,305	20,479	20,652	20,825
Peak Day Therms	300,731	303,423	306,121	308,820	311,510	314,191	316,862	319,520	322,175	324,815
Therms Per Residential Customer	645	649	645	645	645	649	645	645	645	649
Therms Per Commercial Customer	3,953	3,971	3,953	3,953	3,953	3,971	3,953	3,953	3,953	3,971
Therms Per Industrial Customer	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924
Residential Customers	15,702	15,834	15,965	16,097	16,228	16,358	16,487	16,615	16,743	16,870
Commercial Customers	2,571	2,595	2,620	2,645	2,670	2,695	2,720	2,745	2,769	2,794
Industrial Customers	9	9	9	9	9	9	9	10	10	10
Interruptible Customers	13	14	14	14	14	14	14	14	14	15
Total Core Customers	18,296	18,452	18,608	18,765	18,921	19,076	19,230	19,384	19,536	19,688

Longview South Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.51%	0.93%	0.07%	0.49%	0.47%	0.90%	0.02%	0.44%	0.43%	0.85%
Residential Therms	1,019,023	1,027,067	1,025,923	1,029,303	1,032,569	1,040,358	1,038,780	1,041,727	1,044,568	1,051,992
Commercial Therms	3,785,968	3,822,844	3,827,536	3,848,145	3,868,422	3,904,930	3,908,155	3,927,734	3,946,834	3,982,539
Industrial Therms	216,137	215,466	213,133	211,523	209,907	208,982	206,489	204,742	202,938	201,853
Ind., Inst., & Cmcl. Interrup. Therms	653,867	662,384	664,916	670,379	675,783	684,204	686,246	691,452	696,434	704,688
Total Core Therms	5,674,995	5,727,762	5,731,507	5,759,349	5,786,681	5,838,474	5,839,671	5,865,655	5,890,774	5,941,072
Daily Baseload Therms	5,098	5,122	5,146	5,170	5,193	5,216	5,238	5,260	5,281	5,302
Peak Day Therms	53,503	53,775	54,044	54,311	54,572	54,830	55,080	55,329	55,570	55,809
Therms Per Residential Customer	530	532	530	530	530	532	530	530	530	532
Therms Per Commercial Customer	4,064	4,082	4,064	4,064	4,064	4,082	4,064	4,064	4,064	4,082
Therms Per Industrial Customer	16,733	16,796	16,733	16,733	16,733	16,796	16,733	16,733	16,733	16,796
Residential Customers	1,922	1,929	1,935	1,942	1,948	1,954	1,960	1,965	1,971	1,976
Commercial Customers	931	937	942	947	952	957	962	966	971	976
Industrial Customers	13	13	13	13	13	12	12	12	12	12
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
Total Core Customers	2,874	2,885	2,897	2,908	2,919	2,930	2,941	2,951	2,961	2,971

Sedro-Woolley Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.63%	1.08%	0.16%	0.61%	0.60%	1.05%	0.13%	0.58%	0.57%	1.02%
Residential Therms	17,614,507	17,800,340	17,821,985	17,925,504	18,027,752	18,212,692	18,228,581	18,327,202	18,424,633	18,606,771
Commercial Therms	8,829,813	8,939,230	8,969,125	9,038,479	9,107,665	9,217,891	9,245,746	9,314,387	9,382,923	9,493,516
Industrial Therms	1,148,949	1,154,652	1,151,596	1,152,681	1,153,734	1,158,947	1,155,448	1,156,242	1,156,884	1,161,847
Ind., Inst., & Cmcl. Interrup. Therms	1,244,963	1,255,534	1,254,845	1,259,728	1,264,565	1,274,895	1,273,907	1,278,470	1,282,907	1,293,060
Total Core Therms	28,838,233	29,149,756	29,197,551	29,376,393	29,553,717	29,864,425	29,903,681	30,076,300	30,247,347	30,555,194
Daily Baseload Therms	17,917	18,025	18,133	18,241	18,347	18,453	18,558	18,661	18,764	18,866
Peak Day Therms	308,614	310,551	312,486	314,414	316,325	318,220	320,098	321,959	323,803	325,633
Therms Per Residential Customer	665	668	665	665	665	668	665	665	665	668
Therms Per Commercial Customer	2,499	2,511	2,499	2,499	2,499	2,511	2,499	2,499	2,499	2,511
Therms Per Industrial Customer	13,114	13,163	13,114	13,114	13,114	13,163	13,114	13,114	13,114	13,163
Residential Customers	26,482	26,638	26,794	26,949	27,103	27,255	27,405	27,553	27,700	27,845
Commercial Customers	3,533	3,561	3,589	3,616	3,644	3,672	3,699	3,727	3,754	3,781
Industrial Customers	88	88	88	88	88	88	88	88	88	88
Interruptible Customers	11	11	11	11	11	11	11	11	11	11
Total Core Customers	30,113	30,297	30,481	30,665	30,846	31,026	31,203	31,379	31,553	31,726

Sumas SPE Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.69%	1.14%	0.24%	0.68%	0.67%	1.11%	0.20%	0.64%	0.64%	1.08%
Residential Therms	32,199,160	32,553,666	32,611,795	32,818,003	33,022,091	33,376,060	33,424,190	33,622,147	33,818,196	34,168,061
Commercial Therms	15,469,515	15,661,535	15,718,672	15,843,044	15,967,410	16,160,812	16,214,992	16,338,132	16,461,612	16,655,984
Industrial Therms	1,159,257	1,165,369	1,162,598	1,164,103	1,165,522	1,171,242	1,168,127	1,169,312	1,170,460	1,175,970
Ind., Inst., & Cmcl. Interrup. Therms	1,083,407	1,099,485	1,105,634	1,116,809	1,128,065	1,144,573	1,150,694	1,162,015	1,173,395	1,190,183
Total Core Therms	49,911,338	50,480,055	50,598,700	50,941,960	51,283,088	51,852,687	51,958,003	52,291,606	52,623,663	53,190,198
Daily Baseload Therms	35,631	35,877	36,122	36,368	36,612	36,854	37,095	37,334	37,572	37,809
Peak Day Therms	520,853	524,438	528,018	531,596	535,152	538,681	542,184	545,660	549,118	552,551
Therms Per Residential Customer	703	706	703	703	703	706	703	703	703	706
Therms Per Commercial Customer	2,827	2,840	2,827	2,827	2,827	2,840	2,827	2,827	2,827	2,840
Therms Per Industrial Customer	20,187	20,263	20,187	20,187	20,187	20,263	20,187	20,187	20,187	20,263
Residential Customers	45,795	46,089	46,382	46,676	46,966	47,253	47,538	47,819	48,098	48,374
Commercial Customers	5,471	5,515	5,559	5,603	5,647	5,691	5,735	5,778	5,822	5,866
Industrial Customers	57	58	58	58	58	58	58	58	58	58
Interruptible Customers	13	13	13	14	14	14	14	14	14	14
Total Core Customers	51,337	51,675	52,013	52,350	52,685	53,016	53,344	53,670	53,992	54,312

Yakima Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.38%	0.84%	-0.09%	0.36%	0.35%	0.79%	-0.14%	0.31%	0.30%	0.75%
Residential Therms	12,576,658	12,674,589	12,649,670	12,685,275	12,719,527	12,814,204	12,783,951	12,814,188	12,843,138	12,933,286
Commercial Therms	12,316,887	12,440,186	12,449,466	12,514,423	12,578,512	12,698,852	12,702,483	12,762,668	12,822,100	12,938,646
Industrial Therms	2,889,989	2,901,546	2,890,346	2,889,578	2,887,971	2,896,704	2,882,546	2,879,130	2,874,882	2,881,289
Ind., Inst., & Cmcl. Interrup. Therms	813,311	820,087	820,398	823,850	827,273	833,913	833,968	837,220	840,440	846,903
Total Core Therms	28,596,845	28,836,408	28,809,881	28,913,126	29,013,283	29,243,674	29,202,948	29,293,207	29,380,560	29,600,125
Daily Baseload Therms	17,574	17,635	17,696	17,754	17,810	17,863	17,915	17,964	18,011	18,056
Peak Day Therms	323,331	324,566	325,781	326,972	328,129	329,245	330,327	331,376	332,392	333,371
Therms Per Residential Customer	660	663	660	660	660	663	660	660	660	663
Therms Per Commercial Customer	3,455	3,471	3,455	3,455	3,455	3,471	3,455	3,455	3,455	3,471
Therms Per Industrial Customer	38,396	38,546	38,396	38,396	38,396	38,546	38,396	38,396	38,396	38,546
Residential Customers	19,052	19,108	19,163	19,217	19,268	19,318	19,366	19,412	19,456	19,498
Commercial Customers	3,565	3,584	3,603	3,622	3,641	3,659	3,676	3,694	3,711	3,728
Industrial Customers	75	75	75	75	75	75	75	75	75	75
Interruptible Customers	12	12	12	12	12	12	13	13	13	13
Total Core Customers	22,704	22,779	22,853	22,926	22,997	23,065	23,130	23,193	23,254	23,313

Zone 10	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.42%	0.73%	0.09%	0.40%	0.39%	0.69%	0.05%	0.35%	0.34%	0.65%
Residential Therms	3,112,756	3,135,165	3,133,612	3,143,840	3,153,748	3,175,404	3,172,597	3,181,554	3,190,205	3,210,794
Commercial Therms	5,014,523	5,062,118	5,071,082	5,098,864	5,126,316	5,172,859	5,179,771	5,205,807	5,231,565	5,276,639
Industrial Therms	1,882,046	1,884,751	1,885,811	1,887,318	1,888,595	1,890,428	1,890,674	1,891,463	1,892,044	1,893,213
Ind., Inst., & Cmcl. Interrup. Therms	217,192	219,182	219,702	220,934	222,152	224,091	224,519	225,670	226,808	228,678
Total Core Therms	10,226,518	10,301,215	10,310,206	10,350,956	10,390,811	10,462,782	10,467,560	10,504,494	10,540,622	10,609,324
Daily Baseload Therms	8,260	8,287	8,313	8,339	8,364	8,388	8,411	8,434	8,456	8,477
Peak Day Therms	117,778	118,275	118,764	119,245	119,716	120,175	120,623	121,059	121,487	121,901
Therms Per Residential Customer	578	580	578	578	578	580	578	578	577	580
Therms Per Commercial Customer	3,445	3,459	3,445	3,445	3,446	3,459	3,446	3,446	3,446	3,459
Therms Per Industrial Customer	35,126	35,146	35,140	35,147	35,154	35,174	35,168	35,175	35,183	35,203
Residential Customers	5,388	5,406	5,425	5,443	5,460	5,477	5,493	5,509	5,524	5,539
Commercial Customers	1,455	1,464	1,472	1,480	1,488	1,496	1,503	1,511	1,518	1,526
Industrial Customers	54	54	54	54	54	54	54	54	54	54
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	6,900	6,927	6,953	6,979	7,005	7,030	7,054	7,077	7,100	7,122

Zone 11	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.43%	0.84%	-0.01%	0.40%	0.39%	0.80%	-0.06%	0.36%	0.35%	0.76%
Residential Therms	13,621,162	13,728,581	13,704,148	13,744,706	13,783,841	13,887,899	13,857,786	13,892,672	13,926,194	14,025,512
Commercial Therms	17,414,260	17,588,036	17,612,870	17,710,314	17,806,923	17,977,227	17,994,682	18,086,273	18,176,806	18,342,542
Industrial Therms	3,751,003	3,766,120	3,758,409	3,761,028	3,762,792	3,774,813	3,763,896	3,763,643	3,762,512	3,771,975
Ind., Inst., & Cmcl. Interrup. Therms	1,486,641	1,496,426	1,499,757	1,506,146	1,512,527	1,522,063	1,524,992	1,531,071	1,537,075	1,546,311
Total Core Therms	36,273,066	36,579,163	36,575,185	36,722,194	36,866,083	37,162,001	37,141,356	37,273,658	37,402,588	37,686,340
Daily Baseload Therms	24,276	24,380	24,481	24,581	24,678	24,771	24,862	24,951	25,037	25,120
Peak Day Therms	403,069	404,790	406,490	408,157	409,791	411,376	412,921	414,427	415,896	417,323
Therms Per Residential Customer	610	612	609	609	609	612	609	609	609	612
Therms Per Commercial Customer	3,531	3,545	3,530	3,530	3,530	3,545	3,530	3,530	3,530	3,544
Therms Per Industrial Customer	33,332	33,412	33,293	33,274	33,253	33,332	33,211	33,190	33,168	33,244
Residential Customers	22,344	22,415	22,486	22,555	22,623	22,687	22,750	22,810	22,868	22,924
Commercial Customers	4,932	4,961	4,989	5,017	5,044	5,071	5,098	5,124	5,150	5,175
Industrial Customers	113	113	113	113	113	113	113	113	113	113
Interruptible Customers	22	22	22	22	22	22	22	22	22	23
Total Core Customers	27,410	27,511	27,610	27,707	27,802	27,894	27,983	28,070	28,154	28,236

Zone 20	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.79%	1.16%	0.40%	0.77%	0.76%	1.13%	0.36%	0.73%	0.72%	1.09%
Residential Therms	16,783,042	16,979,903	17,039,021	17,167,175	17,294,355	17,491,677	17,545,807	17,670,094	17,793,494	17,989,296
Commercial Therms	15,072,120	15,262,947	15,335,627	15,467,200	15,598,410	15,790,574	15,859,783	15,989,517	16,119,319	16,311,803
Industrial Therms	3,610,874	3,639,614	3,643,180	3,658,769	3,674,208	3,701,945	3,704,097	3,718,565	3,732,751	3,759,759
Ind., Inst., & Cmcl. Interrup. Therms	1,828,354	1,845,289	1,860,262	1,876,195	1,892,107	1,909,041	1,923,864	1,939,612	1,955,391	1,972,180
Total Core Therms	37,294,391	37,727,753	37,878,089	38,169,340	38,459,079	38,893,238	39,033,550	39,317,789	39,600,955	40,033,038
Daily Baseload Therms	32,154	32,399	32,645	32,889	33,132	33,374	33,615	33,853	34,091	34,328
Peak Day Therms	517,829	521,918	526,010	530,095	534,158	538,197	542,215	546,201	550,172	554,118
Therms Per Residential Customer	618	620	618	618	618	621	619	619	619	621
Therms Per Commercial Customer	3,768	3,784	3,770	3,770	3,771	3,786	3,772	3,773	3,773	3,788
Therms Per Industrial Customer	90,774	91,166	90,928	91,006	91,085	91,471	91,233	91,300	91,369	91,746
Residential Customers	27,171	27,372	27,573	27,774	27,973	28,171	28,367	28,561	28,754	28,946
Commercial Customers	4,000	4,034	4,068	4,102	4,137	4,171	4,205	4,238	4,272	4,306
Industrial Customers	40	40	40	40	40	40	41	41	41	41
Interruptible Customers	22	22	22	22	22	23	23	23	23	23
Total Core Customers	31,232	31,468	31,703	31,939	32,172	32,404	32,635	32,863	33,090	33,316

Zone 24	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.11%	0.54%	-0.34%	0.08%	0.08%	0.49%	-0.38%	0.03%	0.04%	0.43%
Residential Therms	4,102,997	4,127,888	4,111,115	4,114,832	4,118,201	4,141,843	4,123,562	4,125,658	4,127,306	4,149,497
Commercial Therms	3,992,586	4,018,850	4,006,163	4,011,991	4,018,390	4,043,158	4,028,274	4,032,279	4,037,186	4,059,278
Industrial Therms	227,669	226,416	225,283	223,982	222,623	221,237	219,750	218,220	216,707	215,206
Ind., Inst., & Cmcl. Interrup. Therms	929,397	929,452	928,876	928,302	927,747	926,688	925,509	923,953	922,292	919,898
Total Core Therms	9,252,648	9,302,606	9,271,437	9,279,106	9,286,961	9,332,925	9,297,096	9,300,110	9,303,491	9,343,879
Daily Baseload Therms	3,627	3,618	3,609	3,598	3,588	3,576	3,564	3,550	3,537	3,523
Peak Day Therms	116,626	116,761	116,889	117,000	117,109	117,193	117,263	117,316	117,370	117,377
Therms Per Residential Customer	580	583	580	580	580	583	580	580	580	583
Therms Per Commercial Customer	2,757	2,771	2,757	2,758	2,758	2,772	2,759	2,759	2,760	2,774
Therms Per Industrial Customer	10,235	10,231	10,232	10,232	10,229	10,230	10,229	10,228	10,231	10,230
Residential Customers	7,077	7,084	7,091	7,097	7,103	7,108	7,112	7,115	7,118	7,120
Commercial Customers	1,448	1,451	1,453	1,455	1,457	1,459	1,460	1,461	1,463	1,464
Industrial Customers	22	22	22	22	22	22	21	21	21	21
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,550	8,559	8,568	8,576	8,583	8,590	8,595	8,600	8,604	8,607

Zone 26	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.51%	0.82%	0.16%	0.48%	0.47%	0.79%	0.12%	0.44%	0.43%	0.75%
Residential Therms	1,665,973	1,679,279	1,683,357	1,691,999	1,700,497	1,713,517	1,717,088	1,725,185	1,733,147	1,745,698
Commercial Therms	4,890,420	4,936,723	4,948,308	4,977,096	5,005,586	5,051,611	5,061,757	5,089,576	5,116,927	5,162,214
Industrial Therms	792,433	791,419	786,027	782,537	778,986	777,212	771,208	767,107	762,803	760,437
Ind., Inst., & Cmcl. Interrup. Therms	865,885	875,055	878,206	884,286	890,304	899,307	901,927	907,694	913,237	922,017
Total Core Therms	8,214,711	8,282,476	8,295,898	8,335,917	8,375,373	8,441,646	8,451,980	8,489,562	8,526,114	8,590,366
Daily Baseload Therms	7,834	7,863	7,891	7,918	7,945	7,971	7,996	8,021	8,044	8,067
Peak Day Therms	80,978	81,416	81,851	82,282	82,709	83,129	83,541	83,951	84,351	84,749
Therms Per Residential Customer	583	585	583	583	583	585	583	583	583	585
Therms Per Commercial Customer	3,890	3,903	3,889	3,889	3,888	3,902	3,888	3,888	3,887	3,901
Therms Per Industrial Customer	26,269	26,329	26,248	26,237	26,226	26,287	26,205	26,194	26,184	26,245
Residential Customers	2,857	2,872	2,887	2,902	2,916	2,931	2,945	2,958	2,972	2,985
Commercial Customers	1,257	1,265	1,272	1,280	1,287	1,295	1,302	1,309	1,316	1,323
Industrial Customers	30	30	30	30	30	30	29	29	29	29
Interruptible Customers	8	8	8	8	8	8	8	8	8	8
Total Core Customers	4,153	4,175	4,197	4,219	4,241	4,263	4,284	4,305	4,326	4,346

Zone 30-S	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.57%	0.99%	0.14%	0.55%	0.54%	0.95%	0.10%	0.51%	0.50%	0.91%
Residential Therms	25,103,254	25,347,660	25,362,754	25,491,848	25,619,071	25,861,086	25,867,640	25,989,074	26,108,705	26,345,655
Commercial Therms	14,211,636	14,365,672	14,399,024	14,491,380	14,583,787	14,737,076	14,765,517	14,854,831	14,943,594	15,094,768
Industrial Therms	539,375	540,396	539,526	539,424	539,275	540,033	538,861	538,667	538,368	538,892
Ind., Inst., & Cmcl. Interrup. Therms	3,583,393	3,612,836	3,627,518	3,648,743	3,669,460	3,697,142	3,709,287	3,728,376	3,746,907	3,772,327
Total Core Therms	43,437,658	43,866,564	43,928,821	44,171,394	44,411,593	44,835,336	44,881,305	45,110,948	45,337,574	45,751,641
Daily Baseload Therms	34,825	35,026	35,226	35,424	35,619	35,812	36,001	36,188	36,372	36,553
Peak Day Therms	426,338	428,750	431,155	433,536	435,893	438,217	440,504	442,758	444,983	447,176
Therms Per Residential Customer	680	683	680	680	680	683	680	679	679	683
Therms Per Commercial Customer	3,555	3,570	3,555	3,555	3,555	3,570	3,556	3,556	3,556	3,571
Therms Per Industrial Customer	17,794	17,832	17,810	17,819	17,827	17,865	17,845	17,853	17,862	17,900
Residential Customers	36,939	37,131	37,322	37,513	37,701	37,886	38,068	38,248	38,424	38,599
Commercial Customers	3,998	4,024	4,050	4,076	4,102	4,128	4,153	4,178	4,203	4,227
Industrial Customers	30	30	30	30	30	30	30	30	30	30
Interruptible Customers	15	15	15	15	15	15	15	15	15	15
Total Core Customers	40,982	41,200	41,418	41,634	41,848	42,059	42,266	42,471	42,672	42,871

Zone 30-W	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.67%	1.11%	0.21%	0.65%	0.64%	1.08%	0.18%	0.61%	0.61%	1.04%
Residential Therms	59,797,469	60,441,008	60,537,413	60,906,956	61,272,417	61,914,037	61,991,541	62,345,220	62,695,147	63,328,287
Commercial Therms	30,049,734	30,415,649	30,519,401	30,753,440	30,987,351	31,355,679	31,452,989	31,684,583	31,916,493	32,286,457
Industrial Therms	2,798,770	2,813,509	2,808,081	2,812,271	2,816,321	2,830,055	2,823,689	2,827,173	2,830,440	2,843,662
Ind., Inst., & Cmcl. Interrup. Therms	2,883,744	2,916,479	2,924,331	2,944,641	2,964,955	2,997,888	3,005,274	3,025,296	3,045,224	3,078,189
Total Core Therms	95,529,716	96,586,644	96,789,226	97,417,308	98,041,045	99,097,658	99,273,494	99,882,272	100,487,304	101,536,594
Daily Baseload Therms	70,488	70,949	71,409	71,868	72,325	72,777	73,226	73,672	74,116	74,556
Peak Day Therms	992,982	999,539	1,006,090	1,012,629	1,019,121	1,025,559	1,031,947	1,038,282	1,044,576	1,050,823
Therms Per Residential Customer	695	699	695	695	695	699	695	695	695	699
Therms Per Commercial Customer	2,817	2,829	2,817	2,817	2,817	2,829	2,817	2,817	2,817	2,829
Therms Per Industrial Customer	15,707	15,765	15,712	15,714	15,717	15,775	15,722	15,725	15,728	15,786
Residential Customers	85,988	86,519	87,051	87,581	88,106	88,625	89,139	89,647	90,149	90,647
Commercial Customers	10,667	10,751	10,834	10,918	11,001	11,084	11,167	11,249	11,332	11,414
Industrial Customers	178	178	179	179	179	179	180	180	180	180
Interruptible Customers	30	30	31	31	31	31	32	32	32	32
Total Core Customers	96,863	97,479	98,094	98,709	99,318	99,920	100,517	101,108	101,693	102,273

Zone GTN	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.97%	1.41%	0.52%	0.95%	0.94%	1.37%	0.48%	0.91%	0.90%	1.33%
Residential Therms	34,854,143	35,356,072	35,542,450	35,888,676	36,234,030	36,743,119	36,922,126	37,264,967	37,606,961	38,119,133
Commercial Therms	21,133,670	21,443,454	21,566,745	21,782,206	21,998,681	22,312,094	22,430,647	22,646,636	22,862,889	23,180,351
Industrial Therms	2,084,264	2,097,171	2,096,644	2,102,681	2,108,707	2,121,249	2,120,388	2,126,125	2,131,678	2,144,113
Ind., Inst., & Cmcl. Interrup. Therms	1,015,017	1,020,810	1,022,975	1,026,603	1,030,470	1,035,840	1,037,635	1,041,104	1,044,610	1,049,816
Total Core Therms	59,087,094	59,917,508	60,228,814	60,800,166	61,371,887	62,212,302	62,510,796	63,078,832	63,646,138	64,493,412
Daily Baseload Therms	38,411	38,783	39,156	39,529	39,902	40,274	40,645	41,016	41,387	41,757
Peak Day Therms	735,081	742,147	749,230	756,311	763,396	770,460	777,508	784,546	791,572	798,594
Therms Per Residential Customer	745	748	745	745	746	749	746	746	746	750
Therms Per Commercial Customer	2,847	2,860	2,847	2,847	2,847	2,860	2,847	2,847	2,848	2,860
Therms Per Industrial Customer	25,775	25,849	25,760	25,753	25,744	25,816	25,727	25,718	25,709	25,781
Residential Customers	46,785	47,237	47,690	48,144	48,598	49,050	49,501	49,951	50,399	50,847
Commercial Customers	7,423	7,499	7,575	7,650	7,726	7,802	7,877	7,953	8,029	8,105
Industrial Customers	81	81	81	82	82	82	82	83	83	83
Interruptible Customers	8	8	8	8	8	8	8	8	8	8
Total Core Customers	54,297	54,824	55,353	55,884	56,414	56,942	57,469	57,994	58,519	59,042

Zone ME-OR	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.48%	0.83%	0.09%	0.45%	0.44%	0.80%	0.06%	0.40%	0.39%	0.76%
Residential Therms	4,949,578	4,979,706	4,978,114	4,992,085	5,005,632	5,034,625	5,031,263	5,043,414	5,055,125	5,082,537
Commercial Therms	5,937,539	6,003,321	6,015,266	6,053,635	6,092,110	6,157,836	6,167,883	6,204,699	6,241,114	6,306,159
Industrial Therms	473,876	474,917	473,792	473,736	473,457	474,222	472,746	472,201	471,642	472,117
Ind., Inst., & Cmcl. Interrup. Therms	1,618,926	1,629,407	1,632,483	1,638,895	1,645,130	1,654,721	1,656,931	1,662,400	1,667,578	1,676,486
Total Core Therms	12,979,920	13,087,352	13,099,656	13,158,352	13,216,329	13,321,404	13,328,823	13,382,714	13,435,459	13,537,299
Daily Baseload Therms	10,183	10,234	10,285	10,335	10,385	10,434	10,482	10,529	10,575	10,621
Peak Day Therms	193,365	194,206	195,049	195,873	196,685	197,474	198,255	199,005	199,738	200,463
Therms Per Residential Customer	459	460	459	459	459	460	459	459	459	460
Therms Per Commercial Customer	3,014	3,028	3,014	3,015	3,015	3,029	3,016	3,016	3,016	3,030
Therms Per Industrial Customer	17,244	17,278	17,234	17,229	17,223	17,257	17,213	17,207	17,202	17,234
Residential Customers	10,785	10,816	10,847	10,878	10,907	10,936	10,963	10,990	11,015	11,040
Commercial Customers	1,970	1,983	1,995	2,008	2,021	2,033	2,045	2,057	2,069	2,081
Industrial Customers	27	27	27	27	27	27	27	27	27	27
Interruptible Customers	9	9	9	9	9	9	9	9	9	9
Total Core Customers	12,791	12,835	12,879	12,922	12,964	13,005	13,045	13,084	13,121	13,158

Zone ME-WA	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.43%	0.89%	-0.06%	0.40%	0.38%	0.84%	-0.11%	0.34%	0.33%	0.79%
Residential Therms	6,694,509	6,746,391	6,731,296	6,749,203	6,766,395	6,816,534	6,798,555	6,813,585	6,827,921	6,875,617
Commercial Therms	4,510,291	4,554,898	4,556,231	4,578,677	4,600,484	4,643,821	4,642,819	4,663,148	4,683,208	4,724,479
Industrial Therms	86,261	86,359	86,447	86,524	86,590	86,656	86,701	86,756	86,791	86,825
Ind., Inst., & Cmcl. Interrup. Therms	1,847,394	1,867,231	1,872,591	1,884,761	1,896,518	1,915,303	1,919,377	1,930,143	1,940,712	1,958,407
Total Core Therms	13,138,455	13,254,879	13,246,565	13,299,164	13,349,987	13,462,314	13,447,453	13,493,632	13,538,632	13,645,328
Daily Baseload Therms	13,613	13,673	13,731	13,789	13,844	13,898	13,951	14,001	14,050	14,097
Peak Day Therms	179,913	180,626	181,324	182,011	182,674	183,320	183,943	184,545	185,130	185,690
Therms Per Residential Customer	598	601	598	598	598	601	598	598	598	601
Therms Per Commercial Customer	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	11,194	11,225	11,256	11,285	11,314	11,342	11,368	11,393	11,417	11,440
Commercial Customers	1,363	1,370	1,377	1,384	1,391	1,397	1,403	1,410	1,416	1,421
Industrial Customers	16	16	16	16	16	16	16	16	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	12,576	12,614	12,652	12,688	12,724	12,758	12,790	12,822	12,852	12,880

Bellingham Disctrict	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.70%	1.14%	0.24%	0.68%	0.67%	1.11%	0.21%	0.64%	0.64%	1.08%
Residential Therms	32,777,670	33,138,152	33,197,719	33,407,632	33,615,387	33,975,311	34,024,710	34,226,224	34,425,796	34,781,532
Commercial Therms	15,619,795	15,813,851	15,871,682	15,997,417	16,123,143	16,318,587	16,373,418	16,497,895	16,622,708	16,819,117
Industrial Therms	1,159,969	1,166,083	1,163,316	1,164,823	1,166,244	1,171,966	1,168,854	1,170,041	1,171,191	1,176,702
Ind., Inst., & Cmcl. Interrup. Therms	1,166,212	1,184,055	1,191,133	1,203,650	1,216,255	1,234,569	1,241,590	1,254,253	1,266,969	1,285,576
Total Core Therms	50,723,646	51,302,142	51,423,850	51,773,523	52,121,029	52,700,434	52,808,573	53,148,413	53,486,664	54,062,928
Daily Baseload Therms	36,570	36,823	37,075	37,327	37,578	37,827	38,074	38,319	38,564	38,807
Peak Day Therms	527,897	531,541	535,180	538,817	542,431	546,019	549,580	553,113	556,628	560,118
Therms Per Residential Customer	713	716	713	713	713	716	713	713	713	716
Therms Per Commercial Customer	2,832	2,844	2,832	2,832	2,832	2,844	2,832	2,832	2,832	2,844
Therms Per Industrial Customer	19,833	19,907	19,831	19,830	19,830	19,904	19,828	19,828	19,827	19,901
Residential Customers	45,994	46,288	46,583	46,878	47,169	47,458	47,743	48,026	48,306	48,584
Commercial Customers	5,516	5,560	5,604	5,649	5,693	5,737	5,781	5,825	5,869	5,913
Industrial Customers	58	59	59	59	59	59	59	59	59	59
Interruptible Customers	14	15	15	15	15	15	15	15	16	16
Total Core Customers	51,582	51,922	52,261	52,600	52,936	53,269	53,599	53,926	54,250	54,572

Mount Vernon District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.63%	1.07%	0.18%	0.61%	0.61%	1.04%	0.15%	0.58%	0.57%	1.01%
Residential Therms	27,019,799	27,302,856	27,339,694	27,499,324	27,657,030	27,938,725	27,966,831	28,118,996	28,269,351	28,546,755
Commercial Therms	14,429,939	14,601,798	14,647,719	14,756,023	14,864,208	15,037,091	15,079,571	15,186,689	15,293,785	15,467,340
Industrial Therms	1,638,801	1,647,425	1,644,765	1,647,448	1,650,077	1,658,089	1,654,835	1,657,132	1,659,250	1,666,960
Ind., Inst., & Cmcl. Interrup. Therms	1,717,532	1,732,423	1,733,199	1,740,990	1,748,700	1,763,319	1,763,684	1,771,043	1,778,255	1,792,612
Total Core Therms	44,806,070	45,284,503	45,365,376	45,643,786	45,920,015	46,397,224	46,464,921	46,733,859	47,000,640	47,473,667
Daily Baseload Therms	33,918	34,126	34,334	34,541	34,747	34,951	35,153	35,353	35,552	35,749
Peak Day Therms	465,084	467,998	470,910	473,812	476,690	479,540	482,367	485,169	487,948	490,704
Therms Per Residential Customer	676	679	676	676	676	679	676	676	676	679
Therms Per Commercial Customer	2,801	2,813	2,801	2,801	2,800	2,812	2,800	2,800	2,800	2,812
Therms Per Industrial Customer	13,691	13,741	13,699	13,703	13,708	13,758	13,716	13,721	13,725	13,776
Residential Customers	39,994	40,231	40,468	40,704	40,937	41,168	41,395	41,621	41,843	42,063
Commercial Customers	5,152	5,191	5,230	5,269	5,308	5,347	5,385	5,424	5,462	5,501
Industrial Customers	120	120	120	120	120	121	121	121	121	121
Interruptible Customers	16	16	16	16	16	16	16	16	16	16
Total Core Customers	45,281	45,557	45,834	46,109	46,381	46,651	46,918	47,182	47,443	47,702

Bremerton District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.62%	1.04%	0.19%	0.60%	0.59%	1.00%	0.15%	0.56%	0.55%	0.96%
Residential Therms	22,505,221	22,731,602	22,752,789	22,876,075	22,997,742	23,222,329	23,235,933	23,352,558	23,467,593	23,687,964
Commercial Therms	11,648,193	11,780,880	11,815,150	11,897,276	11,979,800	12,111,878	12,141,993	12,221,757	12,301,049	12,431,651
Industrial Therms	319,626	321,126	322,617	324,059	325,518	326,979	328,407	329,837	331,268	332,672
Ind., Inst., & Cmcl. Interrup. Therms	2,605,872	2,629,137	2,644,240	2,662,944	2,681,297	2,703,357	2,716,773	2,733,854	2,750,547	2,771,059
Total Core Therms	37,078,911	37,462,745	37,534,797	37,760,353	37,984,357	38,364,543	38,423,106	38,638,007	38,850,456	39,223,346
Daily Baseload Therms	28,608	28,792	28,977	29,159	29,340	29,518	29,694	29,867	30,039	30,208
Peak Day Therms	369,787	372,044	374,297	376,529	378,745	380,928	383,084	385,208	387,308	389,383
Therms Per Residential Customer	675	678	675	675	675	678	675	675	675	678
Therms Per Commercial Customer	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	33,348	33,532	33,715	33,898	34,078	34,256	34,431	34,604	34,774	34,942
Commercial Customers	3,221	3,244	3,267	3,290	3,312	3,335	3,357	3,379	3,401	3,423
Industrial Customers	17	17	17	17	17	17	17	17	17	17
Interruptible Customers	11	11	11	11	11	11	11	11	12	12
Total Core Customers	36,597	36,803	37,010	37,215	37,419	37,619	37,817	38,012	38,204	38,395

Longview District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.51%	0.84%	0.16%	0.49%	0.48%	0.81%	0.12%	0.45%	0.44%	0.77%
Residential Therms	1,665,973	1,679,279	1,683,357	1,691,999	1,700,497	1,713,517	1,717,088	1,725,185	1,733,147	1,745,698
Commercial Therms	4,881,487	4,927,768	4,939,333	4,968,100	4,996,571	5,042,576	5,052,704	5,080,505	5,107,840	5,153,109
Industrial Therms	792,433	791,419	786,027	782,537	778,986	777,212	771,208	767,107	762,803	760,437
Ind., Inst., & Cmcl. Interrup. Therms	653,867	662,384	664,916	670,379	675,783	684,204	686,246	691,452	696,434	704,688
Total Core Therms	7,993,760	8,060,850	8,073,632	8,113,015	8,151,837	8,217,509	8,227,245	8,264,248	8,300,224	8,363,933
Daily Baseload Therms	7,564	7,591	7,618	7,645	7,670	7,695	7,720	7,743	7,766	7,788
Peak Day Therms	78,406	78,834	79,260	79,682	80,100	80,512	80,915	81,316	81,708	82,099
Therms Per Residential Customer	583	585	583	583	583	585	583	583	583	585
Therms Per Commercial Customer	3,893	3,906	3,892	3,892	3,892	3,905	3,891	3,891	3,890	3,904
Therms Per Industrial Customer	26,269	26,329	26,248	26,237	26,226	26,287	26,205	26,194	26,184	26,245
Residential Customers	2,857	2,872	2,887	2,902	2,916	2,931	2,945	2,958	2,972	2,985
Commercial Customers	1,254	1,262	1,269	1,277	1,284	1,291	1,299	1,306	1,313	1,320
Industrial Customers	30	30	30	30	30	30	29	29	29	29
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
Total Core Customers	4,148	4,171	4,193	4,215	4,237	4,258	4,280	4,301	4,321	4,342

Aberdeen District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.29%	0.71%	-0.15%	0.27%	0.25%	0.68%	-0.19%	0.23%	0.22%	0.63%
Residential Therms	2,598,033	2,616,058	2,609,964	2,615,772	2,621,328	2,638,756	2,631,707	2,636,516	2,641,112	2,657,690
Commercial Therms	2,563,444	2,584,792	2,583,873	2,594,104	2,603,987	2,625,198	2,623,524	2,633,073	2,642,546	2,663,118
Industrial Therms	219,749	219,270	216,909	215,366	213,757	213,054	210,454	208,830	207,100	206,220
Ind., Inst., & Cmcl. Interrup. Therms	977,521	983,699	983,278	985,799	988,163	993,785	992,514	994,522	996,360	1,001,267
Total Core Therms	6,358,747	6,403,818	6,394,024	6,411,041	6,427,236	6,470,794	6,458,199	6,472,941	6,487,118	6,528,295
Daily Baseload Therms	6,217	6,234	6,250	6,265	6,280	6,294	6,307	6,321	6,333	6,344
Peak Day Therms	56,552	56,706	56,858	57,007	57,149	57,288	57,420	57,550	57,675	57,793
Therms Per Residential Customer	724	727	724	724	724	727	724	724	724	727
Therms Per Commercial Customer	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312
Therms Per Industrial Customer	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247
Residential Customers	3,591	3,599	3,607	3,615	3,623	3,630	3,637	3,644	3,650	3,656
Commercial Customers	777	780	783	787	790	793	796	798	801	804
Industrial Customers	14	13	13	13	13	13	13	13	13	13
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,385	4,397	4,408	4,419	4,429	4,440	4,450	4,459	4,468	4,477

Kennewick District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.84%	1.22%	0.45%	0.82%	0.81%	1.19%	0.41%	0.78%	0.77%	1.15%
Residential Therms	16,154,470	16,346,594	16,407,340	16,533,974	16,659,683	16,852,416	16,908,409	17,031,410	17,153,585	17,345,001
Commercial Therms	14,248,813	14,437,141	14,507,339	14,636,503	14,765,455	14,955,416	15,022,449	15,149,987	15,277,777	15,468,330
Industrial Therms	405,525	407,214	408,885	410,527	412,150	413,761	415,340	416,916	418,467	420,023
Ind., Inst., & Cmcl. Interrup. Therms	1,816,155	1,832,656	1,847,153	1,862,653	1,878,125	1,894,628	1,908,993	1,924,327	1,939,666	1,955,995
Total Core Therms	32,624,963	33,023,605	33,170,716	33,443,657	33,715,413	34,116,219	34,255,190	34,522,641	34,789,496	35,189,349
Daily Baseload Therms	26,593	26,817	27,042	27,267	27,491	27,714	27,936	28,156	28,377	28,596
Peak Day Therms	468,330	472,220	476,115	480,009	483,885	487,743	491,581	495,393	499,195	502,975
Therms Per Residential Customer	620	623	620	620	621	623	621	621	621	624
Therms Per Commercial Customer	3,844	3,860	3,844	3,844	3,844	3,860	3,845	3,845	3,845	3,861
Therms Per Industrial Customer	19,511	19,511	19,512	19,512	19,512	19,513	19,513	19,513	19,514	19,514
Residential Customers	26,053	26,251	26,449	26,647	26,844	27,039	27,232	27,425	27,615	27,805
Commercial Customers	3,707	3,740	3,774	3,807	3,841	3,874	3,907	3,940	3,973	4,006
Industrial Customers	21	21	21	21	21	21	21	21	21	22
Interruptible Customers	20	20	20	20	20	21	21	21	21	21
Total Core Customers	29,801	30,032	30,264	30,496	30,726	30,955	31,182	31,407	31,631	31,854

Walla Walla District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.43%	0.89%	-0.06%	0.40%	0.38%	0.84%	-0.11%	0.34%	0.33%	0.79%
Residential Therms	6,694,509	6,746,391	6,731,296	6,749,203	6,766,395	6,816,534	6,798,555	6,813,585	6,827,921	6,875,617
Commercial Therms	4,510,291	4,554,898	4,556,231	4,578,677	4,600,484	4,643,821	4,642,819	4,663,148	4,683,208	4,724,479
Industrial Therms	86,261	86,359	86,447	86,524	86,590	86,656	86,701	86,756	86,791	86,825
Ind., Inst., & Cmcl. Interrup. Therms	1,847,394	1,867,231	1,872,591	1,884,761	1,896,518	1,915,303	1,919,377	1,930,143	1,940,712	1,958,407
Total Core Therms	13,138,455	13,254,879	13,246,565	13,299,164	13,349,987	13,462,314	13,447,453	13,493,632	13,538,632	13,645,328
Daily Baseload Therms	12,368	12,423	12,478	12,531	12,583	12,633	12,682	12,729	12,775	12,819
Peak Day Therms	179,913	180,626	181,324	182,011	182,674	183,320	183,943	184,545	185,130	185,690
Therms Per Residential Customer	598	601	598	598	598	601	598	598	598	601
Therms Per Commercial Customer	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	11,194	11,225	11,256	11,285	11,314	11,342	11,368	11,393	11,417	11,440
Commercial Customers	1,363	1,370	1,377	1,384	1,391	1,397	1,403	1,410	1,416	1,421
Industrial Customers	16	16	16	16	16	16	16	16	16	16
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	12,576	12,614	12,652	12,688	12,724	12,758	12,790	12,822	12,852	12,880

Wenatchee District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.54%	0.85%	0.20%	0.51%	0.50%	0.81%	0.16%	0.47%	0.46%	0.78%
Residential Therms	1,329,300	1,340,992	1,340,197	1,345,589	1,350,886	1,362,367	1,361,094	1,366,043	1,370,878	1,382,012
Commercial Therms	5,002,609	5,049,396	5,064,389	5,094,727	5,125,006	5,171,140	5,184,386	5,213,650	5,242,518	5,287,784
Industrial Therms	3,770,896	3,800,480	3,804,851	3,821,196	3,837,400	3,865,853	3,868,718	3,883,844	3,898,680	3,926,282
Ind., Inst., & Cmcl. Interrup. Therms	569,032	571,769	574,518	577,173	579,851	582,444	585,060	587,580	590,094	592,590
Total Core Therms	10,671,837	10,762,637	10,783,954	10,838,685	10,893,143	10,981,805	10,999,259	11,051,117	11,102,170	11,188,667
Daily Baseload Therms	11,559	11,617	11,675	11,731	11,787	11,841	11,896	11,949	12,001	12,052
Peak Day Therms	113,026	113,616	114,202	114,776	115,347	115,905	116,458	117,001	117,535	118,063
Therms Per Residential Customer	498	501	498	498	498	500	498	498	498	500
Therms Per Commercial Customer	4,480	4,495	4,483	4,485	4,486	4,502	4,490	4,491	4,493	4,509
Therms Per Industrial Customer	92,218	92,591	92,353	92,424	92,495	92,868	92,633	92,699	92,766	93,136
Residential Customers	2,668	2,679	2,690	2,702	2,713	2,724	2,734	2,745	2,755	2,765
Commercial Customers	1,117	1,123	1,130	1,136	1,142	1,149	1,155	1,161	1,167	1,173
Industrial Customers	41	41	41	41	41	42	42	42	42	42
Interruptible Customers	7	7	7	7	7	7	8	8	8	8
Total Core Customers	3,833	3,851	3,869	3,887	3,904	3,921	3,938	3,955	3,971	3,987

Yakima District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.39%	0.80%	-0.03%	0.37%	0.36%	0.76%	-0.08%	0.32%	0.31%	0.71%
Residential Therms	16,033,192	16,156,063	16,129,245	16,176,158	16,221,374	16,340,198	16,306,688	16,346,867	16,385,431	16,498,589
Commercial Therms	18,258,414	18,435,518	18,456,827	18,554,144	18,650,204	18,823,139	18,836,453	18,927,030	19,016,483	19,183,974
Industrial Therms	5,067,503	5,082,791	5,073,664	5,075,392	5,076,045	5,087,571	5,074,609	5,072,911	5,070,160	5,078,642
Ind., Inst., & Cmcl. Interrup. Therms	1,359,017	1,369,143	1,371,340	1,377,357	1,383,331	1,393,225	1,395,002	1,400,689	1,406,316	1,415,914
Total Core Therms	40,718,126	41,043,515	41,031,075	41,183,050	41,330,954	41,644,133	41,612,752	41,747,496	41,878,389	42,177,119
Daily Baseload Therms	26,809	26,903	26,995	27,085	27,171	27,253	27,333	27,410	27,484	27,555
Peak Day Therms	459,892	461,729	463,538	465,312	467,042	468,717	470,345	471,928	473,467	474,955
Therms Per Residential Customer	612	615	612	612	612	615	612	612	612	615
Therms Per Commercial Customer	3,280	3,293	3,279	3,279	3,278	3,292	3,277	3,277	3,277	3,290
Therms Per Industrial Customer	35,138	35,212	35,120	35,112	35,102	35,176	35,084	35,074	35,064	35,136
Residential Customers	26,182	26,263	26,344	26,423	26,499	26,572	26,643	26,711	26,776	26,839
Commercial Customers	5,567	5,598	5,629	5,659	5,689	5,718	5,747	5,776	5,804	5,831
Industrial Customers	144	144	144	145	145	145	145	145	145	145
Interruptible Customers	21	21	21	21	21	21	21	21	21	22
Total Core Customers	31,914	32,026	32,138	32,247	32,354	32,456	32,556	32,653	32,746	32,836

Central Oregon (Bend) District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.97%	1.41%	0.52%	0.95%	0.94%	1.37%	0.48%	0.91%	0.90%	1.33%
Residential Therms	34,854,143	35,356,072	35,542,450	35,888,676	36,234,030	36,743,119	36,922,126	37,264,967	37,606,961	38,119,133
Commercial Therms	21,133,670	21,443,454	21,566,745	21,782,206	21,998,681	22,312,094	22,430,647	22,646,636	22,862,889	23,180,351
Industrial Therms	2,084,264	2,097,171	2,096,644	2,102,681	2,108,707	2,121,249	2,120,388	2,126,125	2,131,678	2,144,113
Ind., Inst., & Cmcl. Interrup. Therms	1,015,017	1,020,810	1,022,975	1,026,603	1,030,470	1,035,840	1,037,635	1,041,104	1,044,610	1,049,816
Total Core Therms	59,087,094	59,917,508	60,228,814	60,800,166	61,371,887	62,212,302	62,510,796	63,078,832	63,646,138	64,493,412
Daily Baseload Therms	38,411	38,783	39,156	39,529	39,902	40,274	40,645	41,016	41,387	41,757
Peak Day Therms	735,081	742,147	749,230	756,311	763,396	770,460	777,508	784,546	791,572	798,594
Therms Per Residential Customer	745	748	745	745	746	749	746	746	746	750
Therms Per Commercial Customer	2,847	2,860	2,847	2,847	2,847	2,860	2,847	2,847	2,848	2,860
Therms Per Industrial Customer	25,775	25,849	25,760	25,753	25,744	25,816	25,727	25,718	25,709	25,781
Residential Customers	46,785	47,237	47,690	48,144	48,598	49,050	49,501	49,951	50,399	50,847
Commercial Customers	7,423	7,499	7,575	7,650	7,726	7,802	7,877	7,953	8,029	8,105
Industrial Customers	81	81	81	82	82	82	82	83	83	83
Interruptible Customers	8	8	8	8	8	8	8	8	8	8
Total Core Customers	54,297	54,824	55,353	55,884	56,414	56,942	57,469	57,994	58,519	59,042

Pendleton District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.48%	0.83%	0.09%	0.45%	0.44%	0.80%	0.06%	0.40%	0.39%	0.76%
Residential Therms	4,949,578	4,979,706	4,978,114	4,992,085	5,005,632	5,034,625	5,031,263	5,043,414	5,055,125	5,082,537
Commercial Therms	5,937,539	6,003,321	6,015,266	6,053,635	6,092,110	6,157,836	6,167,883	6,204,699	6,241,114	6,306,159
Industrial Therms	473,876	474,917	473,792	473,736	473,457	474,222	472,746	472,201	471,642	472,117
Ind., Inst., & Cmcl. Interrup. Therms	1,618,926	1,629,407	1,632,483	1,638,895	1,645,130	1,654,721	1,656,931	1,662,400	1,667,578	1,676,486
Total Core Therms	12,979,920	13,087,352	13,099,656	13,158,352	13,216,329	13,321,404	13,328,823	13,382,714	13,435,459	13,537,299
Daily Baseload Therms	11,428	11,483	11,539	11,593	11,646	11,699	11,751	11,800	11,849	11,898
Peak Day Therms	193,365	194,206	195,049	195,873	196,685	197,474	198,255	199,005	199,738	200,463
Therms Per Residential Customer	459	460	459	459	459	460	459	459	459	460
Therms Per Commercial Customer	3,014	3,028	3,014	3,015	3,015	3,029	3,016	3,016	3,016	3,030
Therms Per Industrial Customer	17,244	17,278	17,234	17,229	17,223	17,257	17,213	17,207	17,202	17,234
Residential Customers	10,785	10,816	10,847	10,878	10,907	10,936	10,963	10,990	11,015	11,040
Commercial Customers	1,970	1,983	1,995	2,008	2,021	2,033	2,045	2,057	2,069	2,081
Industrial Customers	27	27	27	27	27	27	27	27	27	27
Interruptible Customers	9	9	9	9	9	9	9	9	9	9
Total Core Customers	12,791	12,835	12,879	12,922	12,964	13,005	13,045	13,084	13,121	13,158

Eastern Oregon (Ontario) District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.11%	0.54%	-0.34%	0.08%	0.08%	0.49%	-0.38%	0.03%	0.04%	0.43%
Residential Therms	4,102,997	4,127,888	4,111,115	4,114,832	4,118,201	4,141,843	4,123,562	4,125,658	4,127,306	4,149,497
Commercial Therms	3,992,586	4,018,850	4,006,163	4,011,991	4,018,390	4,043,158	4,028,274	4,032,279	4,037,186	4,059,278
Industrial Therms	227,669	226,416	225,283	223,982	222,623	221,237	219,750	218,220	216,707	215,206
Ind., Inst., & Cmcl. Interrup. Therms	929,397	929,452	928,876	928,302	927,747	926,688	925,509	923,953	922,292	919,898
Total Core Therms	9,252,648	9,302,606	9,271,437	9,279,106	9,286,961	9,332,925	9,297,096	9,300,110	9,303,491	9,343,879
Daily Baseload Therms	3,627	3,618	3,609	3,598	3,588	3,576	3,564	3,550	3,537	3,523
Peak Day Therms	116,626	116,761	116,889	117,000	117,109	117,193	117,263	117,316	117,370	117,377
Therms Per Residential Customer	580	583	580	580	580	583	580	580	580	583
Therms Per Commercial Customer	2,757	2,771	2,757	2,758	2,758	2,772	2,759	2,759	2,760	2,774
Therms Per Industrial Customer	10,235	10,231	10,232	10,232	10,229	10,230	10,229	10,228	10,231	10,230
Residential Customers	7,077	7,084	7,091	7,097	7,103	7,108	7,112	7,115	7,118	7,120
Commercial Customers	1,448	1,451	1,453	1,455	1,457	1,459	1,460	1,461	1,463	1,464
Industrial Customers	22	22	22	22	22	22	21	21	21	21
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,550	8,559	8,568	8,576	8,583	8,590	8,595	8,600	8,604	8,607

Oregon	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.79%	1.21%	0.36%	0.77%	0.77%	1.18%	0.32%	0.73%	0.73%	1.15%
Residential Therms	43,906,719	44,463,667	44,631,679	44,995,593	45,357,863	45,919,587	46,076,952	46,434,040	46,789,392	47,351,167
Commercial Therms	31,063,794	31,465,625	31,588,174	31,847,831	32,109,181	32,513,088	32,626,804	32,883,614	33,141,189	33,545,788
Industrial Therms	2,785,809	2,798,504	2,795,719	2,800,399	2,804,786	2,816,708	2,812,883	2,816,546	2,820,027	2,831,436
Ind., Inst., & Cmcl. Interrup. Therms	3,563,340	3,579,669	3,584,334	3,593,801	3,603,347	3,617,249	3,620,075	3,627,456	3,634,480	3,646,200
Total Core Therms	81,319,662	82,307,466	82,599,906	83,237,624	83,875,177	84,866,632	85,136,715	85,761,656	86,385,088	87,374,590
Daily Baseload Therms	53,513	53,932	54,351	54,766	55,183	55,596	56,006	56,413	56,820	57,226
Peak Day Therms	1,045,072	1,053,114	1,061,167	1,069,185	1,077,191	1,085,127	1,093,027	1,100,867	1,108,679	1,116,434
Therms Per Residential Customer	11,110	11,155	11,110	11,110	11,110	11,155	11,110	11,110	11,110	11,155
Therms Per Commercial Customer	62,670	62,943	62,670	62,670	62,670	62,943	62,670	62,670	62,670	62,943
Therms Per Industrial Customer	220,582	221,122	220,582	220,582	220,582	221,122	220,582	220,582	220,582	221,122
Residential Customers	64,648	65,137	65,628	66,120	66,608	67,094	67,576	68,056	68,533	69,007
Commercial Customers	10,841	10,932	11,023	11,113	11,204	11,293	11,383	11,472	11,561	11,650
Industrial Customers	131	131	131	131	131	131	131	131	132	132
Interruptible Customers	18	18	18	18	18	18	18	19	19	19
Total Core Customers	75,638	76,218	76,800	77,382	77,961	78,537	79,109	79,678	80,244	80,807

Washington	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.60%	1.02%	0.17%	0.58%	0.57%	0.98%	0.14%	0.54%	0.54%	0.95%
Residential Therms	126,778,166	128,057,986	128,191,601	128,895,727	129,590,323	130,860,154	130,951,016	131,617,384	132,274,814	133,520,859
Commercial Therms	91,162,984	92,186,042	92,442,543	93,076,970	93,708,857	94,728,847	94,957,318	95,573,735	96,187,913	97,198,901
Industrial Therms	13,460,763	13,522,169	13,507,479	13,527,871	13,546,768	13,601,140	13,579,125	13,593,373	13,605,709	13,654,763
Ind., Inst., & Cmcl. Interrup. Therms	12,712,603	12,832,497	12,882,366	12,965,706	13,048,023	13,164,834	13,209,239	13,287,862	13,365,353	13,478,109
Total Core Therms	244,114,515	246,598,694	247,023,989	248,466,274	249,893,971	252,354,975	252,696,698	254,072,354	255,433,789	257,852,631
Daily Baseload Therms	190,204	191,326	192,444	193,551	194,646	195,727	196,795	197,849	198,891	199,921
Peak Day Therms	2,718,887	2,735,313	2,751,684	2,767,955	2,784,062	2,799,973	2,815,694	2,831,223	2,846,595	2,861,781
Therms Per Residential Customer	34,916	35,048	34,916	34,916	34,915	35,047	34,915	34,915	34,915	35,047
Therms Per Commercial Customer	138,418	138,827	138,410	138,406	138,403	138,812	138,395	138,392	138,388	138,798
Therms Per Industrial Customer	1,027,102	1,029,407	1,027,045	1,027,018	1,026,992	1,029,300	1,026,941	1,026,917	1,026,893	1,029,204
Residential Customers	191,881	192,941	193,999	195,053	196,093	197,118	198,129	199,126	200,110	201,080
Commercial Customers	27,673	27,869	28,063	28,257	28,450	28,641	28,831	29,019	29,207	29,392
Industrial Customers	460	461	461	462	462	462	463	463	463	463
Interruptible Customers	103	103	104	105	105	106	107	107	108	109
Total Core Customers	220,117	221,373	222,627	223,876	225,110	226,328	227,530	228,716	229,887	231,044

System	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.65%	1.07%	0.22%	0.63%	0.62%	1.03%	0.18%	0.59%	0.58%	1.00%
Residential Therms	170,684,885	172,521,653	172,823,280	173,891,321	174,948,187	176,779,740	177,027,968	178,051,423	179,064,206	180,872,026
Commercial Therms	122,226,778	123,651,667	124,030,717	124,924,802	125,818,038	127,241,935	127,584,122	128,457,349	129,329,102	130,744,689
Industrial Therms	16,246,571	16,320,673	16,303,198	16,328,270	16,351,554	16,417,848	16,392,009	16,409,919	16,425,736	16,486,199
Ind., Inst., & Cmcl. Interrup. Therms	16,275,943	16,412,166	16,466,701	16,559,506	16,651,370	16,782,084	16,829,315	16,915,318	16,999,833	17,124,309
Total Core Therms	325,434,178	328,906,160	329,623,896	331,703,899	333,769,148	337,221,607	337,833,413	339,834,009	341,818,877	345,227,222
Daily Baseload Therms	243,718	245,258	246,794	248,317	249,829	251,323	252,801	254,262	255,711	257,146
Peak Day Therms	3,763,959	3,788,427	3,812,852	3,837,140	3,861,252	3,885,100	3,908,720	3,932,090	3,955,275	3,978,214
Therms Per Residential Customer	46,026	46,203	46,025	46,025	46,025	46,202	46,025	46,024	46,024	46,202
Therms Per Commercial Customer	201,088	201,770	201,080	201,076	201,072	201,754	201,065	201,061	201,058	201,741
Therms Per Industrial Customer	1,247,684	1,250,529	1,247,628	1,247,601	1,247,574	1,250,422	1,247,524	1,247,499	1,247,476	1,250,325
Residential Customers	256,529	258,078	259,627	261,173	262,701	264,212	265,706	267,182	268,642	270,087
Commercial Customers	38,515	38,801	39,087	39,370	39,653	39,935	40,214	40,491	40,768	41,042
Industrial Customers	591	591	592	593	593	594	594	594	594	595
Interruptible Customers	121	122	122	123	124	125	125	126	127	127
Total Core Customers	295,755	297,592	299,428	301,258	303,072	304,864	306,639	308,394	310,131	311,851

Athena	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.26%	1.24%	1.70%	0.70%	1.19%	1.16%	1.65%	0.65%	1.12%
Residential Therms	266,538	269,031	271,547	275,390	276,614	279,169	281,732	285,671	286,882	289,442
Commercial Therms	129,239	131,732	134,185	137,256	138,931	141,306	143,603	146,673	148,271	150,578
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	395,777	400,763	405,733	412,647	415,545	420,475	425,335	432,343	435,152	440,019
Daily Baseload Therms	430	435	440	445	450	455	460	465	470	475
Peak Day Therms	4,824	4,886	4,948	5,009	5,070	5,131	5,191	5,252	5,313	5,373
Therms Per Residential Customer	521	521	521	524	521	521	521	524	521	521
Therms Per Commercial Customer	1,964	1,964	1,964	1,974	1,964	1,964	1,964	1,974	1,964	1,964
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	511	516	521	526	530	535	540	545	550	555
Commercial Customers	66	67	68	70	71	72	73	74	75	77
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	577	583	589	595	601	607	613	619	626	632

Baker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.80%	0.79%	1.17%	0.24%	0.72%	0.65%	1.13%	0.20%	0.67%
Residential Therms	2,141,443	2,150,377	2,159,124	2,178,515	2,176,654	2,185,437	2,194,032	2,213,237	2,211,054	2,219,281
Commercial Therms	1,595,077	1,616,192	1,637,537	1,663,536	1,674,958	1,694,537	1,711,575	1,737,541	1,747,776	1,766,688
Industrial Therms	71,645	72,061	72,311	72,311	72,283	72,255	72,200	72,172	72,088	71,976
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	3,808,165	3,838,630	3,868,972	3,914,362	3,923,896	3,952,229	3,977,806	4,022,949	4,030,918	4,057,945
Daily Baseload Therms	1,645	1,660	1,674	1,687	1,699	1,712	1,723	1,735	1,747	1,759
Peak Day Therms	43,500	43,840	44,178	44,485	44,793	45,111	45,398	45,696	45,993	46,296
Therms Per Residential Customer	655	655	655	658	655	655	655	658	655	655
Therms Per Commercial Customer	3,127	3,127	3,127	3,141	3,127	3,127	3,127	3,141	3,127	3,127
Therms Per Industrial Customer	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523
Residential Customers	3,271	3,284	3,298	3,312	3,325	3,338	3,351	3,364	3,377	3,390
Commercial Customers	510	517	524	530	536	542	547	553	559	565
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,784	3,804	3,825	3,844	3,863	3,883	3,902	3,921	3,939	3,958

Umatilla	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.67%	1.54%	1.75%	1.09%	1.37%	1.24%	1.54%	0.85%	1.14%
Residential Therms	290,833	293,573	296,335	300,612	301,901	304,710	307,527	311,909	313,186	316,004
Commercial Therms	279,713	285,463	291,042	297,617	301,549	306,570	311,700	318,286	321,560	326,522
Industrial Therms	71,903	73,216	74,424	75,524	76,599	77,553	78,510	79,366	80,162	80,960
Ind., Inst., & Cmcl. Interrup. Therms	590,382	601,152	610,887	621,153	628,928	638,015	645,542	654,419	660,687	667,817
Total Core Therms	1,232,831	1,253,404	1,272,689	1,294,907	1,308,978	1,326,847	1,343,279	1,363,979	1,375,595	1,391,302
Daily Baseload Therms	1,221	1,242	1,263	1,282	1,300	1,318	1,335	1,352	1,367	1,383
Peak Day Therms	17,137	17,418	17,681	17,934	18,177	18,423	18,647	18,879	19,092	19,308
Therms Per Residential Customer	274	274	274	276	274	274	274	276	274	274
Therms Per Commercial Customer	1,686	1,686	1,686	1,694	1,686	1,686	1,686	1,694	1,686	1,686
Therms Per Industrial Customer	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970
Residential Customers	1,060	1,070	1,080	1,090	1,101	1,111	1,121	1,131	1,142	1,152
Commercial Customers	166	169	173	176	179	182	185	188	191	194
Industrial Customers	7	7	7	8	8	8	8	8	8	8
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	1,235	1,249	1,263	1,276	1,289	1,303	1,316	1,330	1,343	1,356

Chemult	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.92%	0.84%	1.15%	0.41%	0.70%	0.69%	1.04%	0.30%	0.60%
Residential Therms	10,060	10,120	10,179	10,274	10,299	10,359	10,419	10,514	10,537	10,595
Commercial Therms	37,872	38,251	38,597	39,061	39,237	39,526	39,809	40,238	40,367	40,613
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	47,932	48,371	48,776	49,336	49,537	49,885	50,227	50,752	50,904	51,208
Daily Baseload Therms	55	56	56	56	57	57	58	58	58	59
Peak Day Therms	586	592	596	601	606	610	614	618	622	626
Therms Per Residential Customer	399	399	399	400	399	399	399	400	399	399
Therms Per Commercial Customer	1,781	1,781	1,781	1,787	1,781	1,781	1,781	1,787	1,781	1,781
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	25	25	26	26	26	26	26	26	26	27
Commercial Customers	21	21	22	22	22	22	22	23	23	23
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	46	47	47	48	48	48	48	49	49	49

Gilchrist	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.76%	0.69%	1.11%	0.17%	0.57%	0.53%	0.99%	0.03%	0.44%
Residential Therms	96,763	97,338	97,913	98,927	99,066	99,643	100,216	101,236	101,355	101,914
Commercial Therms	128,842	129,975	130,967	132,499	132,745	133,490	134,163	135,460	135,403	135,882
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	225,605	227,313	228,880	231,426	231,811	233,132	234,379	236,696	236,759	237,796
Daily Baseload Therms	99	100	101	101	102	103	103	104	104	105
Peak Day Therms	3,016	3,039	3,060	3,080	3,099	3,117	3,133	3,150	3,165	3,179
Therms Per Residential Customer	527	527	527	530	527	527	527	530	527	527
Therms Per Commercial Customer	3,236	3,236	3,236	3,251	3,236	3,236	3,236	3,251	3,236	3,236
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	183	185	186	187	188	189	190	191	192	193
Commercial Customers	40	40	40	41	41	41	41	42	42	42
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	223	225	226	228	229	230	232	233	234	235

Hermiston	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.67%	1.64%	2.08%	1.13%	1.58%	1.55%	2.01%	1.07%	1.51%
Residential Therms	2,354,613	2,376,638	2,398,867	2,433,179	2,443,623	2,466,196	2,488,839	2,524,011	2,534,329	2,556,945
Commercial Therms	2,671,606	2,735,237	2,798,434	2,873,856	2,924,623	2,988,648	3,052,273	3,130,536	3,182,307	3,247,913
Industrial Therms	184,882	186,629	188,163	189,480	190,628	191,638	192,568	193,326	193,956	194,540
Ind., Inst., & Cmcl. Interrup. Therms	307,369	312,285	317,539	324,873	328,232	333,759	339,273	347,333	350,879	356,731
Total Core Therms	5,518,469	5,610,789	5,703,003	5,821,389	5,887,106	5,980,241	6,072,953	6,195,206	6,261,471	6,356,129
Daily Baseload Therms	4,481	4,565	4,648	4,730	4,813	4,896	4,978	5,062	5,146	5,230
Peak Day Therms	73,975	75,158	76,341	77,519	78,705	79,902	81,093	82,300	83,515	84,730
Therms Per Residential Customer	646	646	646	649	646	646	646	649	646	646
Therms Per Commercial Customer	3,623	3,623	3,623	3,639	3,623	3,623	3,623	3,639	3,623	3,623
Therms Per Industrial Customer	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585
Residential Customers	3,644	3,678	3,713	3,747	3,782	3,817	3,852	3,887	3,922	3,957
Commercial Customers	737	755	772	790	807	825	842	860	878	896
Industrial Customers	8	8	8	8	8	8	9	9	9	9
Interruptible Customers	3	3	3	4	4	4	4	4	4	4
Total Core Customers	4,393	4,445	4,497	4,549	4,601	4,654	4,706	4,760	4,813	4,866

Huntington	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.58%	0.66%	1.05%	-0.03%	0.52%	0.47%	1.02%	-0.07%	0.50%
Residential Therms	51,961	52,177	52,390	52,894	52,815	53,028	53,237	53,737	53,650	53,849
Commercial Therms	28,582	28,835	29,154	29,504	29,556	29,771	29,953	30,301	30,334	30,550
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	80,543	81,012	81,543	82,399	82,371	82,799	83,189	84,038	83,984	84,399
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	1,249	1,256	1,265	1,271	1,278	1,284	1,290	1,296	1,303	1,309
Therms Per Residential Customer	408	408	408	410	408	408	408	410	408	408
Therms Per Commercial Customer	1,853	1,853	1,853	1,863	1,853	1,853	1,853	1,863	1,853	1,853
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	127	128	128	129	129	130	130	131	131	132
Commercial Customers	15	16	16	16	16	16	16	16	16	16
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	143	143	144	145	145	146	147	147	148	148

La Pine	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		3.64%	3.57%	3.87%	3.15%	3.46%	3.41%	3.71%	2.98%	3.28%
Residential Therms	125,585	129,605	133,745	138,005	142,389	146,899	151,535	156,303	161,199	166,224
Commercial Therms	361,837	375,535	389,423	405,399	418,110	432,974	448,092	465,575	479,239	495,237
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	487,422	505,140	523,168	543,405	560,499	579,874	599,627	621,878	640,438	661,461
Daily Baseload Therms	417	432	447	462	478	495	511	528	546	564
Peak Day Therms	5,763	5,971	6,184	6,402	6,624	6,853	7,086	7,324	7,567	7,815
Therms Per Residential Customer	579	579	579	579	579	579	579	579	579	579
Therms Per Commercial Customer	2,645	2,645	2,645	2,657	2,645	2,645	2,645	2,657	2,645	2,645
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	217	224	231	238	246	254	262	270	278	287
Commercial Customers	137	142	147	153	158	164	169	175	181	187
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	354	366	378	391	404	417	431	445	460	474

Madras	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.89%	1.87%	2.15%	1.28%	1.66%	1.63%	2.00%	1.11%	1.55%
Residential Therms	609,794	618,960	628,212	640,587	646,932	656,443	666,000	678,863	685,292	695,027
Commercial Therms	1,116,589	1,140,552	1,164,582	1,192,631	1,210,982	1,234,916	1,258,775	1,288,506	1,306,897	1,332,282
Industrial Therms	671,420	680,223	689,065	699,593	702,406	707,768	713,143	721,164	721,234	724,840
Ind., Inst., & Cmcl. Interrup. Therms	271,233	279,797	288,449	297,188	305,840	314,575	323,392	332,111	340,728	349,419
Total Core Therms	2,669,037	2,719,532	2,770,308	2,829,999	2,866,160	2,913,702	2,961,310	3,020,645	3,054,151	3,101,568
Daily Baseload Therms	1,240	1,266	1,293	1,318	1,344	1,369	1,395	1,421	1,446	1,473
Peak Day Therms	35,522	36,188	36,857	37,488	38,118	38,740	39,364	39,976	40,576	41,194
Therms Per Residential Customer	517	517	517	520	517	517	517	520	517	517
Therms Per Commercial Customer	2,887	2,887	2,887	2,900	2,887	2,887	2,887	2,900	2,887	2,887
Therms Per Industrial Customer	38,109	38,109	38,109	38,297	38,109	38,109	38,109	38,297	38,109	38,109
Residential Customers	1,178	1,196	1,214	1,232	1,250	1,269	1,287	1,306	1,324	1,343
Commercial Customers	387	395	403	411	419	428	436	444	453	461
Industrial Customers	18	18	18	18	18	19	19	19	19	19
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,584	1,610	1,637	1,663	1,689	1,716	1,743	1,770	1,797	1,825

Milton-Freewater	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.81%	1.74%	2.11%	1.16%	1.59%	1.53%	1.99%	1.06%	1.50%
Residential Therms	108,116	109,127	110,148	111,769	112,203	113,239	114,279	115,942	116,368	117,406
Commercial Therms	318,671	325,597	332,381	340,507	345,487	352,043	358,471	366,708	371,683	378,332
Industrial Therms	23,989	24,197	24,364	24,489	24,583	24,646	24,699	24,720	24,720	24,716
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	450,776	458,921	466,893	476,766	482,273	489,928	497,448	507,369	512,770	520,454
Daily Baseload Therms	445	454	462	470	478	486	494	502	509	517
Peak Day Therms	5,928	6,031	6,131	6,229	6,326	6,423	6,519	6,615	6,712	6,810
Therms Per Residential Customer	466	466	466	469	466	466	466	469	466	466
Therms Per Commercial Customer	3,056	3,056	3,056	3,070	3,056	3,056	3,056	3,070	3,056	3,056
Therms Per Industrial Customer	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072
Residential Customers	232	234	236	238	241	243	245	247	249	252
Commercial Customers	104	107	109	111	113	115	117	119	122	124
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	342	346	351	355	360	364	368	373	377	382

Mission Tap	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.94%	1.93%	2.34%	1.43%	1.90%	1.83%	2.31%	1.41%	1.82%
Residential Therms	107,313	108,317	109,330	110,866	111,370	112,399	113,431	115,004	115,504	116,535
Commercial Therms	371,507	379,814	388,215	398,334	405,110	413,917	422,527	433,316	440,560	449,649
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	478,820	488,131	497,545	509,199	516,480	526,316	535,957	548,320	556,064	566,183
Daily Baseload Therms	504	514	524	534	545	555	566	576	587	598
Peak Day Therms	5,737	5,848	5,959	6,070	6,183	6,299	6,413	6,531	6,651	6,771
Therms Per Residential Customer	495	495	495	497	495	495	495	497	495	495
Therms Per Commercial Customer	8,334	8,334	8,334	8,370	8,334	8,334	8,334	8,370	8,334	8,334
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	217	219	221	223	225	227	229	231	233	235
Commercial Customers	45	46	47	48	49	50	51	52	53	54
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	261	264	267	270	274	277	280	283	286	289

Nyssa-Ontario	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.59%	0.52%	0.88%	0.01%	0.38%	0.38%	0.75%	-0.11%	0.27%
Residential Therms	1,882,067	1,888,443	1,894,827	1,911,105	1,907,246	1,913,280	1,919,227	1,935,287	1,930,675	1,936,081
Commercial Therms	2,343,783	2,358,962	2,371,786	2,395,118	2,392,255	2,400,547	2,409,122	2,428,681	2,422,761	2,428,135
Industrial Therms	162,159	162,155	162,121	162,009	161,905	161,778	161,620	161,446	161,234	161,006
Ind., Inst., & Cmcl. Interrup. Therms	928,275	937,824	946,635	954,338	961,675	968,162	974,274	979,917	984,389	988,779
Total Core Therms	5,316,284	5,347,385	5,375,368	5,422,569	5,423,081	5,443,767	5,464,242	5,505,331	5,499,059	5,514,000
Daily Baseload Therms	2,079	2,083	2,086	2,087	2,087	2,087	2,087	2,085	2,083	2,081
Peak Day Therms	71,194	71,627	72,017	72,371	72,693	72,988	73,280	73,548	73,781	73,999
Therms Per Residential Customer	518	518	518	521	518	518	518	521	518	518
Therms Per Commercial Customer	2,563	2,563	2,563	2,576	2,563	2,563	2,563	2,576	2,563	2,563
Therms Per Industrial Customer	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186
Residential Customers	3,632	3,645	3,657	3,669	3,681	3,693	3,704	3,715	3,726	3,737
Commercial Customers	915	921	926	930	934	937	940	943	945	948
Industrial Customers	20	20	20	20	20	20	20	20	20	20
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	4,569	4,587	4,604	4,621	4,636	4,651	4,666	4,680	4,693	4,706

Pendleton	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.74%	1.69%	1.90%	1.36%	1.59%	1.55%	1.79%	1.27%	1.49%
Residential Therms	1,733,524	1,749,739	1,766,105	1,782,555	1,799,056	1,815,675	1,832,344	1,849,099	1,865,836	1,882,486
Commercial Therms	1,951,139	1,997,722	2,044,134	2,100,257	2,136,847	2,184,020	2,230,813	2,289,265	2,326,810	2,375,279
Industrial Therms	193,145	194,818	196,160	198,271	197,927	198,433	198,855	200,136	199,024	198,995
Ind., Inst., & Cmcl. Interrup. Therms	680,256	695,059	709,403	724,127	736,961	750,187	763,192	776,746	788,295	800,425
Total Core Therms	4,558,065	4,637,338	4,715,802	4,805,210	4,870,791	4,948,315	5,025,205	5,115,246	5,179,964	5,257,185
Daily Baseload Therms	4,033	4,108	4,181	4,254	4,326	4,398	4,470	4,542	4,614	4,685
Peak Day Therms	80,848	82,115	83,374	84,621	85,867	87,115	88,354	89,598	90,844	92,085
Therms Per Residential Customer	352	352	352	352	352	352	352	352	352	352
Therms Per Commercial Customer	2,497	2,497	2,497	2,509	2,497	2,497	2,497	2,509	2,497	2,497
Therms Per Industrial Customer	31,415	31,415	31,415	31,591	31,415	31,415	31,415	31,591	31,415	31,415
Residential Customers	4,928	4,974	5,021	5,067	5,114	5,161	5,209	5,256	5,304	5,351
Commercial Customers	781	800	819	837	856	875	894	913	932	951
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	3	3	3	3	3	3	3	3	4	4
Total Core Customers	5,719	5,784	5,849	5,914	5,980	6,046	6,112	6,179	6,246	6,313

Prineville	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.55%	1.51%	1.93%	0.96%	1.42%	1.34%	1.78%	0.86%	1.26%
Residential Therms	1,181,144	1,192,166	1,203,138	1,220,056	1,225,183	1,236,172	1,247,109	1,264,119	1,268,825	1,279,603
Commercial Therms	1,396,474	1,425,254	1,453,906	1,490,294	1,511,664	1,540,687	1,568,522	1,603,472	1,624,009	1,651,442
Industrial Therms	530,836	540,815	550,610	561,151	568,104	576,966	585,088	595,404	601,924	609,845
Ind., Inst., & Cmcl. Interrup. Therms	133,478	133,906	134,120	134,779	134,048	133,977	133,763	134,276	133,405	133,118
Total Core Therms	3,241,933	3,292,140	3,341,774	3,406,280	3,438,999	3,487,802	3,534,482	3,597,271	3,628,163	3,674,008
Daily Baseload Therms	1,357	1,381	1,404	1,428	1,450	1,473	1,495	1,517	1,539	1,561
Peak Day Therms	44,398	45,075	45,744	46,409	47,053	47,710	48,339	48,970	49,600	50,217
Therms Per Residential Customer	500	500	500	502	500	500	500	502	500	500
Therms Per Commercial Customer	2,672	2,672	2,672	2,685	2,672	2,672	2,672	2,685	2,672	2,672
Therms Per Industrial Customer	17,698	17,698	17,698	17,747	17,698	17,698	17,698	17,747	17,698	17,698
Residential Customers	2,363	2,385	2,407	2,429	2,451	2,473	2,495	2,516	2,538	2,560
Commercial Customers	523	533	544	555	566	577	587	597	608	618
Industrial Customers	30	31	31	32	32	33	33	34	34	34
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	2,917	2,951	2,984	3,018	3,051	3,084	3,117	3,149	3,182	3,214

Redmond	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		3.35%	3.30%	3.72%	2.78%	3.21%	3.18%	3.61%	2.66%	3.09%
Residential Therms	4,307,124	4,444,995	4,587,005	4,755,046	4,883,459	5,038,147	5,197,135	5,385,517	5,528,578	5,700,903
Commercial Therms	3,221,875	3,348,044	3,476,039	3,623,659	3,741,078	3,878,692	4,018,823	4,181,302	4,308,081	4,456,894
Industrial Therms	518,755	529,518	539,749	551,215	558,781	567,785	576,328	586,640	592,748	600,579
Ind., Inst., & Cmcl. Interrup. Therms	244,231	247,495	250,409	252,908	255,170	257,133	258,793	260,334	261,630	262,805
Total Core Therms	8,291,985	8,570,052	8,853,202	9,182,829	9,438,490	9,741,758	10,051,079	10,413,793	10,691,038	11,021,182
Daily Baseload Therms	4,890	5,039	5,189	5,340	5,494	5,650	5,808	5,970	6,133	6,299
Peak Day Therms	107,148	110,798	114,521	118,331	122,235	126,240	130,330	134,520	138,801	143,177
Therms Per Residential Customer	612	612	612	615	612	612	612	615	612	612
Therms Per Commercial Customer	2,636	2,636	2,636	2,648	2,636	2,636	2,636	2,648	2,636	2,636
Therms Per Industrial Customer	38,749	38,749	38,749	38,877	38,749	38,749	38,749	38,877	38,749	38,749
Residential Customers	7,033	7,258	7,490	7,729	7,974	8,227	8,487	8,754	9,028	9,309
Commercial Customers	1,222	1,270	1,319	1,368	1,419	1,471	1,525	1,579	1,634	1,691
Industrial Customers	13	14	14	14	14	15	15	15	15	15
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	8,270	8,543	8,824	9,112	9,409	9,714	10,027	10,349	10,678	11,017

Stanfield	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.32%	1.30%	1.42%	1.08%	1.24%	1.20%	1.37%	1.02%	1.16%
Residential Therms	124,681	125,847	127,024	128,207	129,394	130,589	131,788	132,993	134,197	135,395
Commercial Therms	70,292	71,697	73,080	74,736	75,741	77,079	78,362	80,030	81,006	82,310
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	194,973	197,544	200,104	202,943	205,135	207,669	210,151	213,023	215,203	217,705
Daily Baseload Therms	250	253	256	260	263	266	269	272	275	278
Peak Day Therms	2,992	3,030	3,068	3,105	3,142	3,179	3,216	3,253	3,291	3,327
Therms Per Residential Customer	400	400	400	400	400	400	400	400	400	400
Therms Per Commercial Customer	1,937	1,937	1,937	1,945	1,937	1,937	1,937	1,945	1,937	1,937
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	312	315	318	321	324	327	330	333	336	339
Commercial Customers	36	37	38	38	39	40	40	41	42	42
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	348	352	356	359	363	367	370	374	378	381

Stearns (Sunriver)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		3.32%	3.30%	3.72%	2.81%	3.24%	3.22%	3.65%	2.73%	3.15%
Residential Therms	3,589,434	3,704,332	3,822,679	3,962,550	4,069,736	4,198,648	4,331,144	4,487,944	4,607,359	4,750,970
Commercial Therms	1,156,571	1,199,562	1,243,193	1,292,363	1,333,252	1,379,971	1,427,373	1,481,109	1,525,093	1,575,138
Industrial Therms	18,407	18,746	19,072	19,381	19,681	19,972	20,249	20,524	20,791	21,053
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	4,764,412	4,922,640	5,084,944	5,274,295	5,422,669	5,598,591	5,778,765	5,989,578	6,153,243	6,347,161
Daily Baseload Therms	3,933	4,069	4,208	4,350	4,496	4,646	4,799	4,955	5,115	5,279
Peak Day Therms	55,271	57,082	58,943	60,854	62,819	64,839	66,910	69,038	71,220	73,455
Therms Per Residential Customer	957	957	957	962	957	957	957	962	957	957
Therms Per Commercial Customer	4,833	4,833	4,833	4,850	4,833	4,833	4,833	4,850	4,833	4,833
Therms Per Industrial Customer	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886
Residential Customers	3,750	3,870	3,993	4,121	4,252	4,386	4,525	4,667	4,813	4,963
Commercial Customers	239	248	257	266	276	286	295	305	316	326
Industrial Customers	3	3	3	3	3	3	3	3	4	4
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,992	4,121	4,254	4,390	4,531	4,675	4,823	4,976	5,132	5,293

Pronghorn	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		3.46%	3.42%	3.80%	2.97%	3.35%	3.32%	3.70%	2.86%	3.23%
Residential Therms	314,518	324,585	334,955	347,027	356,603	367,899	379,508	393,039	403,711	416,295
Commercial Therms	222,169	230,657	239,281	249,025	257,135	266,409	275,842	286,544	295,311	305,308
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	536,687	555,243	574,236	596,052	613,738	634,308	655,351	679,583	699,022	721,603
Daily Baseload Therms	720	745	771	798	825	853	881	911	941	971
Peak Day Therms	5,144	5,320	5,500	5,685	5,875	6,070	6,270	6,475	6,685	6,900
Therms Per Residential Customer	1,503	1,503	1,503	1,509	1,503	1,503	1,503	1,509	1,503	1,503
Therms Per Commercial Customer	8,544	8,544	8,544	8,576	8,544	8,544	8,544	8,576	8,544	8,544
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	209	216	223	230	237	245	253	261	269	277
Commercial Customers	26	27	28	29	30	31	32	33	35	36
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	235	243	251	259	267	276	285	294	303	313

Bend Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		3.41%	3.37%	3.79%	2.86%	3.29%	3.26%	3.69%	2.76%	3.18%
Residential Therms	22,458,495	23,177,393	23,917,871	24,790,617	25,463,662	26,270,246	27,099,249	28,077,602	28,827,485	29,726,033
Commercial Therms	12,195,801	12,667,695	13,144,834	13,691,169	14,129,472	14,638,999	15,156,846	15,753,322	16,222,243	16,768,626
Industrial Therms	316,411	321,521	326,240	330,494	334,483	338,165	341,522	344,784	347,791	350,689
Ind., Inst., & Cmcl. Interrup. Therms	343,901	351,937	359,813	368,706	375,288	382,964	390,568	399,549	405,994	413,842
Total Core Therms	35,314,608	36,518,546	37,748,758	39,180,986	40,302,905	41,630,374	42,988,185	44,575,258	45,803,513	47,259,190
Daily Baseload Therms	23,300	24,099	24,913	25,747	26,601	27,477	28,372	29,289	30,225	31,182
Peak Day Therms	434,145	448,911	464,008	479,485	495,364	511,665	528,345	545,447	562,941	580,834
Therms Per Residential Customer	779	779	779	782	779	779	779	782	779	779
Therms Per Commercial Customer	2,795	2,795	2,795	2,808	2,795	2,795	2,795	2,808	2,795	2,795
Therms Per Industrial Customer	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391
Residential Customers	28,837	29,760	30,711	31,689	32,696	33,731	34,796	35,891	37,015	38,169
Commercial Customers	4,363	4,531	4,702	4,876	5,054	5,237	5,422	5,611	5,803	5,998
Industrial Customers	16	16	16	16	16	17	17	17	17	17
Interruptible Customers	3	3	3	4	4	4	4	4	4	4
Total Core Customers	33,219	34,311	35,433	36,585	37,770	38,988	40,238	41,522	42,839	44,188

McCleary (Aberdeen/Hoquiam)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.17%	1.13%	1.53%	0.64%	1.05%	1.04%	1.45%	0.56%	0.99%
Residential Therms	2,560,533	2,579,938	2,599,499	2,631,197	2,638,769	2,658,477	2,678,234	2,710,437	2,717,622	2,737,142
Commercial Therms	2,512,326	2,548,661	2,584,317	2,630,529	2,653,415	2,687,454	2,721,595	2,767,963	2,789,571	2,824,247
Industrial Therms	227,714	228,281	228,445	229,350	228,266	228,081	227,804	228,445	227,128	226,690
Ind., Inst., & Cmcl. Interrup. Therms	959,165	975,845	992,115	1,011,196	1,023,721	1,039,018	1,054,044	1,071,934	1,082,588	1,096,297
Total Core Therms	6,259,739	6,332,726	6,404,376	6,502,272	6,544,171	6,613,030	6,681,677	6,778,779	6,816,908	6,884,376
Daily Baseload Therms	6,124	6,204	6,282	6,358	6,434	6,508	6,581	6,654	6,725	6,796
Peak Day Therms	55,701	56,307	56,902	57,488	58,067	58,642	59,217	59,792	60,356	60,927
Therms Per Residential Customer	724	724	724	727	724	724	724	727	724	724
Therms Per Commercial Customer	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298
Therms Per Industrial Customer	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180
Residential Customers	3,539	3,566	3,593	3,620	3,647	3,674	3,701	3,729	3,756	3,783
Commercial Customers	762	773	784	794	805	815	825	836	846	856
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,318	4,356	4,394	4,432	4,470	4,507	4,545	4,583	4,620	4,657

Acme	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.18%	2.15%	2.61%	1.62%	2.08%	2.05%	2.52%	1.53%	1.99%
Residential Therms	51,759	52,788	53,837	55,164	55,992	57,099	58,225	59,650	60,532	61,711
Commercial Therms	36,769	37,674	38,572	39,654	40,357	41,252	42,145	43,250	43,944	44,848
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	88,528	90,462	92,410	94,818	96,350	98,351	100,370	102,900	104,476	106,559
Daily Baseload Therms	35	36	37	37	38	39	40	41	41	42
Peak Day Therms	1,002	1,023	1,045	1,068	1,090	1,113	1,136	1,159	1,182	1,206
Therms Per Residential Customer	754	754	754	757	754	754	754	757	754	754
Therms Per Commercial Customer	3,878	3,878	3,878	3,897	3,878	3,878	3,878	3,897	3,878	3,878
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	69	70	71	73	74	76	77	79	80	82
Commercial Customers	9	10	10	10	10	11	11	11	11	12
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	78	80	81	83	85	86	88	90	92	93

Arlington	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.99%	1.93%	2.30%	1.45%	1.82%	1.79%	2.18%	1.34%	1.73%
Residential Therms	3,526,216	3,592,951	3,660,913	3,745,237	3,800,319	3,871,792	3,944,399	4,034,587	4,093,017	4,168,785
Commercial Therms	1,980,367	2,024,358	2,066,657	2,115,897	2,147,805	2,187,369	2,226,287	2,273,773	2,303,309	2,341,484
Industrial Therms	335,724	341,214	346,198	352,068	355,019	358,952	362,536	367,183	368,908	371,744
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	5,842,307	5,958,524	6,073,769	6,213,202	6,303,144	6,418,113	6,533,222	6,675,543	6,765,234	6,882,013
Daily Baseload Therms	6,823	6,960	7,094	7,228	7,362	7,496	7,629	7,763	7,898	8,033
Peak Day Therms	55,360	56,459	57,550	58,636	59,722	60,812	61,903	63,001	64,103	65,211
Therms Per Residential Customer	731	731	731	734	731	731	731	734	731	731
Therms Per Commercial Customer	3,389	3,389	3,389	3,402	3,389	3,389	3,389	3,402	3,389	3,389
Therms Per Industrial Customer	11,772	11,772	11,772	11,816	11,772	11,772	11,772	11,816	11,772	11,772
Residential Customers	4,825	4,916	5,009	5,104	5,200	5,298	5,397	5,498	5,600	5,704
Commercial Customers	584	597	610	622	634	646	657	668	680	691
Industrial Customers	29	29	29	30	30	30	31	31	31	32
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	5,438	5,543	5,648	5,756	5,864	5,974	6,085	6,197	6,311	6,427

Bremerton (Shelton)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.05%	2.01%	2.42%	1.54%	1.95%	1.94%	2.34%	1.49%	1.89%
Residential Therms	21,757,098	22,131,387	22,511,546	23,001,339	23,289,352	23,686,850	24,090,001	24,609,730	24,912,261	25,329,921
Commercial Therms	11,189,906	11,473,035	11,752,823	12,084,893	12,313,461	12,596,175	12,883,499	13,226,647	13,464,868	13,760,461
Industrial Therms	311,863	318,213	324,450	330,268	335,950	341,527	346,914	352,224	357,513	362,708
Ind., Inst., & Cmcl. Interrup. Therms	2,488,280	2,555,621	2,623,475	2,695,729	2,760,614	2,830,518	2,900,294	2,975,038	3,041,809	3,112,458
Total Core Therms	35,747,148	36,478,255	37,212,295	38,112,229	38,699,378	39,455,070	40,220,707	41,163,639	41,776,451	42,565,548
Daily Baseload Therms	27,535	28,134	28,734	29,341	29,950	30,567	31,193	31,824	32,464	33,109
Peak Day Therms	356,572	363,786	371,035	378,360	385,728	393,197	400,763	408,396	416,138	423,936
Therms Per Residential Customer	675	675	675	678	675	675	675	678	675	675
Therms Per Commercial Customer	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	32,240	32,794	33,358	33,930	34,510	35,099	35,696	36,302	36,915	37,534
Commercial Customers	3,094	3,172	3,250	3,328	3,405	3,483	3,562	3,642	3,723	3,805
Industrial Customers	16	17	17	17	18	18	18	18	19	19
Interruptible Customers	10	11	11	11	12	12	12	12	13	13
Total Core Customers	35,360	35,994	36,635	37,286	37,944	38,612	39,289	39,975	40,669	41,371

Castle Rock	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.99%	1.93%	2.14%	1.53%	1.77%	1.75%	1.99%	1.43%	1.70%
Residential Therms	31,453	31,809	32,168	32,529	32,890	33,253	33,617	33,982	34,346	34,709
Commercial Therms	128,467	131,292	134,075	137,269	139,501	142,193	144,904	148,086	150,328	153,101
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	159,920	163,101	166,243	169,797	172,392	175,447	178,521	182,069	184,674	187,810
Daily Baseload Therms	181	185	189	192	196	200	203	207	211	215
Peak Day Therms	1,572	1,602	1,631	1,660	1,689	1,718	1,747	1,776	1,805	1,834
Therms Per Residential Customer	472	472	472	472	472	472	472	472	472	472
Therms Per Commercial Customer	2,506	2,506	2,506	2,514	2,506	2,506	2,506	2,514	2,506	2,506
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	67	67	68	69	70	70	71	72	73	73
Commercial Customers	51	52	54	55	56	57	58	59	60	61
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	118	120	122	123	125	127	129	131	133	135

Walla Walla	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.55%	1.52%	1.96%	0.98%	1.43%	1.40%	1.85%	0.88%	1.33%
Residential Therms	6,578,831	6,640,366	6,702,255	6,797,950	6,826,279	6,888,247	6,950,236	7,047,093	7,073,943	7,134,990
Commercial Therms	4,380,119	4,466,293	4,551,416	4,656,312	4,717,495	4,800,332	4,882,246	4,987,652	5,045,432	5,126,991
Industrial Therms	85,987	87,130	88,152	89,023	89,836	90,521	91,112	91,634	92,089	92,509
Ind., Inst., & Cmcl. Interrup. Therms	1,767,510	1,817,014	1,866,519	1,923,782	1,965,927	2,015,207	2,064,423	2,120,839	2,161,103	2,209,180
Total Core Therms	12,812,447	13,010,803	13,208,343	13,467,067	13,599,537	13,794,307	13,988,017	14,247,218	14,372,566	14,563,670
Daily Baseload Therms	12,035	12,245	12,454	12,662	12,868	13,072	13,275	13,476	13,676	13,874
Peak Day Therms	175,670	178,239	180,797	183,331	185,857	188,377	190,883	193,381	195,862	198,336
Therms Per Residential Customer	598	598	598	601	598	598	598	601	598	598
Therms Per Commercial Customer	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	11,001	11,103	11,207	11,311	11,414	11,518	11,622	11,725	11,828	11,931
Commercial Customers	1,324	1,350	1,376	1,401	1,426	1,451	1,476	1,501	1,525	1,550
Industrial Customers	16	16	16	16	16	16	16	17	17	17
Interruptible Customers	3	3	3	3	3	3	4	4	4	4
Total Core Customers	12,343	12,472	12,602	12,731	12,860	12,989	13,117	13,246	13,374	13,501

Deming	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		4.12%	4.08%	4.58%	3.65%	4.11%	4.10%	4.59%	3.59%	4.07%
Residential Therms	13,710	13,982	14,260	14,613	14,831	15,124	15,422	15,801	16,034	16,346
Commercial Therms	73,129	75,638	78,231	81,226	83,655	86,506	89,448	92,863	95,622	98,844
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	74,798	78,682	82,685	87,358	91,398	96,064	100,924	106,573	111,303	116,833
Total Core Therms	161,636	168,302	175,177	183,197	189,884	197,694	205,794	215,238	222,958	232,024
Daily Baseload Therms	103	107	111	115	119	123	127	132	136	141
Peak Day Therms	1,731	1,805	1,880	1,960	2,044	2,130	2,220	2,314	2,411	2,512
Therms Per Residential Customer	527	527	527	530	527	527	527	530	527	527
Therms Per Commercial Customer	5,690	5,690	5,690	5,713	5,690	5,690	5,690	5,713	5,690	5,690
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	26	27	27	28	28	29	29	30	30	31
Commercial Customers	13	13	14	14	15	15	16	16	17	17
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	2	2	2
Total Core Customers	40	41	42	43	44	45	46	48	49	50

Wenatchee	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.29%	2.21%	2.55%	1.70%	2.06%	2.05%	2.40%	1.61%	1.97%
Residential Therms	636,105	647,035	658,132	672,485	680,802	692,385	704,125	719,323	728,035	740,173
Commercial Therms	3,540,921	3,627,989	3,713,492	3,815,412	3,883,515	3,968,676	4,055,114	4,159,342	4,229,473	4,317,995
Industrial Therms	345,625	351,788	357,859	363,636	369,390	375,017	380,515	385,927	391,268	396,529
Ind., Inst., & Cmcl. Interrup. Therms	224,545	229,248	233,817	238,321	242,758	247,222	251,713	256,206	260,775	265,346
Total Core Therms	4,747,196	4,856,059	4,963,300	5,089,854	5,176,465	5,283,300	5,391,467	5,520,799	5,609,551	5,720,043
Daily Baseload Therms	4,605	4,712	4,817	4,922	5,025	5,130	5,235	5,341	5,448	5,556
Peak Day Therms	49,132	50,247	51,346	52,443	53,529	54,623	55,729	56,837	57,960	59,089
Therms Per Residential Customer	443	443	443	445	443	443	443	445	443	443
Therms Per Commercial Customer	4,889	4,889	4,889	4,910	4,889	4,889	4,889	4,910	4,889	4,889
Therms Per Industrial Customer	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936
Residential Customers	1,435	1,460	1,485	1,511	1,536	1,562	1,589	1,616	1,643	1,670
Commercial Customers	724	742	760	777	794	812	829	847	865	883
Industrial Customers	15	15	16	16	16	16	17	17	17	17
Interruptible Customers	3	3	3	3	3	3	4	4	4	4
Total Core Customers	2,178	2,221	2,264	2,307	2,350	2,394	2,439	2,483	2,529	2,575

Finley	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		3.17%	3.07%	3.54%	2.39%	2.88%	2.82%	3.32%	2.18%	2.67%
Residential Therms	14,145	14,515	14,894	15,360	15,677	16,083	16,497	17,008	17,353	17,794
Commercial Therms	88,457	91,345	94,221	97,614	100,002	102,929	105,874	109,423	111,830	114,844
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	102,602	105,860	109,114	112,974	115,679	119,012	122,372	126,432	129,183	132,638
Daily Baseload Therms	40	41	42	44	45	46	47	49	50	51
Peak Day Therms	1,753	1,809	1,864	1,920	1,977	2,034	2,091	2,149	2,208	2,267
Therms Per Residential Customer	520	520	520	523	520	520	520	523	520	520
Therms Per Commercial Customer	6,295	6,295	6,295	6,328	6,295	6,295	6,295	6,328	6,295	6,295
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	27	28	29	29	30	31	32	33	33	34
Commercial Customers	14	15	15	15	16	16	17	17	18	18
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	41	42	44	45	46	47	49	50	51	52

Grandview	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.43%	1.37%	1.31%	1.27%	1.23%	1.20%	1.17%	1.15%	1.12%
Residential Therms	692,683	699,495	706,341	713,197	720,067	726,950	733,830	740,714	747,562	754,371
Commercial Therms	825,376	842,251	858,805	875,177	891,374	907,584	923,839	940,198	956,614	973,060
Industrial Therms	712,741	720,924	728,420	735,272	741,642	747,433	752,824	757,797	762,466	766,831
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	2,230,801	2,262,671	2,293,565	2,323,646	2,353,082	2,381,967	2,410,492	2,438,709	2,466,641	2,494,262
Daily Baseload Therms	1,537	1,557	1,576	1,594	1,612	1,628	1,644	1,660	1,675	1,690
Peak Day Therms	26,376	26,771	27,159	27,541	27,918	28,293	28,667	29,040	29,411	29,781
Therms Per Residential Customer	714	714	714	714	714	714	714	714	714	714
Therms Per Commercial Customer	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234
Therms Per Industrial Customer	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682
Residential Customers	970	979	989	999	1,008	1,018	1,027	1,037	1,047	1,056
Commercial Customers	195	199	203	207	211	214	218	222	226	230
Industrial Customers	8	8	8	8	9	9	9	9	9	9
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	1,173	1,187	1,200	1,214	1,227	1,241	1,254	1,268	1,281	1,295

Zillah (Toppenish)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.61%	1.55%	1.92%	1.05%	1.43%	1.41%	1.80%	0.95%	1.34%
Residential Therms	1,046,061	1,056,348	1,066,687	1,082,367	1,087,414	1,097,809	1,108,199	1,124,128	1,128,936	1,139,219
Commercial Therms	2,049,417	2,091,418	2,132,766	2,183,728	2,214,348	2,255,007	2,295,779	2,347,512	2,377,847	2,419,008
Industrial Therms	430,005	434,491	438,432	441,847	444,871	447,465	449,743	451,742	453,523	455,088
Ind., Inst., & Cmcl. Interrup. Therms	49,634	50,369	51,094	51,819	52,540	53,251	53,962	54,659	55,351	56,038
Total Core Therms	3,575,117	3,632,626	3,688,979	3,759,761	3,799,173	3,853,532	3,907,682	3,978,041	4,015,657	4,069,352
Daily Baseload Therms	3,068	3,114	3,158	3,200	3,241	3,281	3,320	3,358	3,396	3,433
Peak Day Therms	42,566	43,236	43,891	44,535	45,168	45,796	46,421	47,044	47,664	48,281
Therms Per Residential Customer	538	538	538	541	538	538	538	541	538	538
Therms Per Commercial Customer	3,861	3,861	3,861	3,879	3,861	3,861	3,861	3,879	3,861	3,861
Therms Per Industrial Customer	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025
Residential Customers	1,944	1,963	1,982	2,001	2,020	2,040	2,059	2,078	2,098	2,117
Commercial Customers	531	542	552	563	574	584	595	605	616	627
Industrial Customers	23	23	23	23	23	24	24	24	24	24
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,498	2,528	2,558	2,589	2,618	2,648	2,678	2,709	2,739	2,768

Kalama #2	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.80%	0.68%	0.77%	0.45%	0.55%	0.52%	0.63%	0.34%	0.47%
Residential Therms	202,412	204,706	207,015	209,335	211,664	213,999	216,342	218,691	221,033	223,368
Commercial Therms	189,444	191,642	193,594	196,210	196,938	198,397	199,770	201,914	202,269	203,496
Industrial Therms	232,849	233,359	233,410	233,325	233,121	232,832	232,474	232,047	231,551	231,037
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	624,706	629,708	634,019	638,870	641,723	645,227	648,586	652,652	654,853	657,901
Daily Baseload Therms	1,103	1,109	1,114	1,118	1,122	1,125	1,128	1,131	1,133	1,136
Peak Day Therms	5,604	5,653	5,698	5,740	5,779	5,817	5,854	5,890	5,924	5,959
Therms Per Residential Customer	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169
Therms Per Commercial Customer	3,961	3,961	3,961	3,978	3,961	3,961	3,961	3,978	3,961	3,961
Therms Per Industrial Customer	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719
Residential Customers	173	175	177	179	181	183	185	187	189	191
Commercial Customers	48	48	49	49	50	50	50	51	51	51
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	224	227	229	231	234	236	239	241	243	245

Lawrence	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.17%	2.14%	2.59%	1.62%	2.08%	2.06%	2.53%	1.56%	2.02%
Residential Therms	45,093	45,990	46,904	48,053	48,781	49,745	50,726	51,960	52,736	53,763
Commercial Therms	21,252	21,796	22,338	22,991	23,415	23,959	24,504	25,182	25,613	26,173
Industrial Therms	702	714	726	736	746	756	765	774	783	792
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	67,047	68,500	69,967	71,780	72,943	74,460	75,995	77,917	79,132	80,729
Daily Baseload Therms	32	33	33	34	35	35	36	37	38	38
Peak Day Therms	759	776	793	810	827	844	862	880	898	916
Therms Per Residential Customer	720	720	720	724	720	720	720	724	720	720
Therms Per Commercial Customer	1,189	1,189	1,189	1,195	1,189	1,189	1,189	1,195	1,189	1,189
Therms Per Industrial Customer	671	671	671	671	671	671	671	671	671	671
Residential Customers	63	64	65	66	68	69	70	72	73	75
Commercial Customers	18	18	19	19	20	20	21	21	22	22
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	81	83	85	87	89	90	92	94	96	98

Moxee (Beauchene)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.59%	1.52%	1.56%	1.34%	1.41%	1.37%	1.45%	1.25%	1.32%
Residential Therms	333,711	337,087	340,502	345,379	347,425	350,936	354,475	359,553	361,630	365,229
Commercial Therms	602,767	613,550	624,107	634,518	644,898	655,435	665,896	676,535	687,119	697,821
Industrial Therms	289,920	294,341	298,611	302,713	306,721	310,643	314,443	318,198	321,913	325,571
Ind., Inst., & Cmcl. Interrup. Therms	321,783	327,807	333,540	338,997	344,298	349,487	354,496	359,475	364,442	369,328
Total Core Therms	1,548,180	1,572,785	1,596,760	1,621,607	1,643,342	1,666,501	1,689,310	1,713,761	1,735,103	1,757,949
Daily Baseload Therms	694	709	725	740	754	769	784	799	813	828
Peak Day Therms	14,322	14,640	14,950	15,252	15,551	15,850	16,144	16,440	16,735	17,030
Therms Per Residential Customer	199	199	198	199	197	197	196	196	195	194
Therms Per Commercial Customer	1,414	1,403	1,394	1,385	1,376	1,368	1,360	1,352	1,345	1,338
Therms Per Industrial Customer	19,376	19,252	19,136	19,030	18,930	18,835	18,747	18,663	18,582	18,504
Residential Customers	1,673	1,695	1,717	1,740	1,762	1,785	1,808	1,832	1,855	1,879
Commercial Customers	426	437	448	458	469	479	490	500	511	522
Industrial Customers	15	15	16	16	16	16	17	17	17	18
Interruptible Customers	5	5	5	5	5	6	6	6	6	6
Total Core Customers	2,119	2,152	2,186	2,219	2,253	2,287	2,321	2,355	2,389	2,424

Othello	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.16%	1.13%	1.23%	0.87%	1.01%	0.97%	1.12%	0.78%	0.94%
Residential Therms	618,781	623,865	629,010	637,355	639,296	644,484	649,640	658,102	659,946	665,096
Commercial Therms	724,830	733,839	742,445	750,496	758,488	766,132	773,390	780,499	787,736	795,172
Industrial Therms	194,314	196,877	199,275	201,308	203,281	205,149	206,801	208,232	209,735	211,016
Ind., Inst., & Cmcl. Interrup. Therms	217,816	221,456	225,311	228,936	232,770	236,652	240,467	244,334	248,418	252,438
Total Core Therms	1,755,740	1,776,037	1,796,041	1,818,095	1,833,835	1,852,419	1,870,297	1,891,167	1,905,835	1,923,722
Daily Baseload Therms	2,600	2,632	2,663	2,692	2,719	2,747	2,772	2,796	2,821	2,845
Peak Day Therms	21,941	22,205	22,465	22,712	22,960	23,204	23,439	23,672	23,909	24,146
Therms Per Residential Customer	562	562	562	565	562	562	562	564	561	561
Therms Per Commercial Customer	2,535	2,534	2,532	2,531	2,529	2,528	2,527	2,526	2,525	2,523
Therms Per Industrial Customer	17,132	17,128	17,124	17,120	17,117	17,114	17,111	17,109	17,106	17,104
Residential Customers	1,100	1,109	1,119	1,128	1,138	1,147	1,157	1,166	1,176	1,185
Commercial Customers	286	290	293	297	300	303	306	309	312	315
Industrial Customers	11	11	12	12	12	12	12	12	12	12
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	1,400	1,414	1,427	1,440	1,453	1,465	1,478	1,491	1,503	1,516

North Pasco	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.56%	2.52%	2.82%	2.14%	2.45%	2.43%	2.75%	2.07%	2.37%
Residential Therms	2,602,851	2,667,921	2,734,464	2,817,718	2,871,955	2,942,938	3,015,378	3,106,207	3,164,786	3,241,562
Commercial Therms	1,511,016	1,551,592	1,591,950	1,632,163	1,673,094	1,714,078	1,755,616	1,797,487	1,840,211	1,882,929
Industrial Therms	79,765	81,135	82,413	83,659	84,849	85,991	87,074	88,142	89,164	90,174
Ind., Inst., & Cmcl. Interrup. Therms	156,472	160,927	165,368	169,815	174,297	178,881	183,528	188,287	193,132	198,053
Total Core Therms	4,350,103	4,461,575	4,574,195	4,703,356	4,804,194	4,921,888	5,041,596	5,180,122	5,287,293	5,412,718
Daily Baseload Therms	2,193	2,248	2,304	2,360	2,417	2,475	2,533	2,592	2,653	2,714
Peak Day Therms	68,927	70,701	72,492	74,304	76,151	78,023	79,928	81,865	83,838	85,834
Therms Per Residential Customer	1,316	1,316	1,316	1,323	1,316	1,316	1,316	1,323	1,316	1,316
Therms Per Commercial Customer	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178
Therms Per Industrial Customer	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394
Residential Customers	1,977	2,027	2,077	2,129	2,182	2,236	2,291	2,347	2,404	2,463
Commercial Customers	211	216	222	227	233	239	245	250	256	262
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,191	2,246	2,303	2,360	2,418	2,478	2,539	2,601	2,664	2,729

Patterson	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.15%	1.12%	1.11%	1.08%	1.04%	1.04%	1.01%	1.00%	0.97%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	8,814	8,918	9,018	9,113	9,205	9,291	9,375	9,456	9,534	9,609
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	208,067	210,458	212,810	215,172	217,494	219,775	222,065	224,312	226,569	228,782
Total Core Therms	216,880	219,376	221,828	224,286	226,699	229,066	231,440	233,768	236,103	238,392
Daily Baseload Therms	264	268	272	275	279	283	286	290	294	297
Peak Day Therms	2,514	2,550	2,586	2,621	2,656	2,690	2,724	2,757	2,790	2,823
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	2,698	2,693	2,689	2,685	2,681	2,677	2,673	2,670	2,667	2,664
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	3	3	3	3	3	3	4	4	4	4
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4	4	4	4	5	5	5	5	5	5

Prosser	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.40%	2.33%	2.76%	1.75%	2.20%	2.18%	2.64%	1.66%	2.12%
Residential Therms	242,243	248,576	255,061	263,009	268,483	275,427	282,525	291,233	297,184	304,734
Commercial Therms	450,007	462,750	475,502	490,619	501,304	514,452	527,851	543,998	555,374	569,526
Industrial Therms	162,643	164,046	165,202	166,840	166,816	167,322	167,676	168,617	167,980	167,963
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	854,892	875,372	895,766	920,468	936,604	957,201	978,052	1,003,848	1,020,538	1,042,222
Daily Baseload Therms	510	522	533	545	556	567	578	589	601	612
Peak Day Therms	9,494	9,724	9,953	10,183	10,414	10,647	10,883	11,122	11,365	11,611
Therms Per Residential Customer	516	516	516	519	516	516	516	519	516	516
Therms Per Commercial Customer	3,110	3,110	3,110	3,124	3,110	3,110	3,110	3,124	3,110	3,110
Therms Per Industrial Customer	31,722	31,722	31,722	31,861	31,722	31,722	31,722	31,861	31,722	31,722
Residential Customers	469	481	494	507	520	533	547	561	575	590
Commercial Customers	145	149	153	157	161	165	170	174	179	183
Industrial Customers	5	5	5	5	5	5	5	5	5	5
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	619	635	652	669	686	704	722	741	759	779

Quincy	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.20%	2.11%	2.03%	1.97%	1.93%	1.88%	1.86%	1.82%	1.78%
Residential Therms	41,071	41,969	42,885	43,819	44,770	45,741	46,730	47,738	48,763	49,803
Commercial Therms	475,731	487,359	498,806	510,144	521,456	532,923	544,347	555,969	567,552	579,261
Industrial Therms	205,405	209,609	213,707	217,695	221,616	225,469	229,206	232,916	236,554	240,163
Ind., Inst., & Cmcl. Interrup. Therms	112,178	113,815	115,368	116,744	118,033	119,235	120,441	121,558	122,772	123,802
Total Core Therms	834,385	852,752	870,765	888,401	905,876	923,370	940,724	958,182	975,640	993,029
Daily Baseload Therms	924	945	965	984	1,004	1,023	1,042	1,062	1,081	1,100
Peak Day Therms	9,729	9,945	10,157	10,365	10,572	10,779	10,984	11,191	11,397	11,603
Therms Per Residential Customer	659	659	659	659	659	659	659	659	659	659
Therms Per Commercial Customer	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167
Therms Per Industrial Customer	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756
Residential Customers	62	64	65	66	68	69	71	72	74	76
Commercial Customers	66	68	70	71	73	74	76	78	79	81
Industrial Customers	6	6	7	7	7	7	7	7	7	7
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	136	139	142	145	149	152	155	158	162	165

Sunnyside	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.50%	1.43%	1.77%	0.94%	1.29%	1.26%	1.63%	0.82%	1.19%
Residential Therms	1,055,172	1,065,548	1,075,977	1,091,742	1,096,885	1,107,371	1,117,851	1,133,864	1,138,769	1,149,141
Commercial Therms	1,530,956	1,560,360	1,588,934	1,624,234	1,644,362	1,671,663	1,698,887	1,734,027	1,753,492	1,780,766
Industrial Therms	567,459	573,788	579,444	584,447	589,007	593,004	596,519	599,595	602,323	604,684
Ind., Inst., & Cmcl. Interrup. Therms	160,633	164,189	167,703	171,930	174,663	178,171	181,710	186,117	188,952	192,641
Total Core Therms	3,314,220	3,363,885	3,412,059	3,472,353	3,504,918	3,550,208	3,594,967	3,653,603	3,683,536	3,727,232
Daily Baseload Therms	3,001	3,044	3,085	3,124	3,162	3,198	3,234	3,268	3,301	3,334
Peak Day Therms	36,347	36,890	37,418	37,934	38,442	38,943	39,440	39,935	40,427	40,916
Therms Per Residential Customer	562	562	562	565	562	562	562	565	562	562
Therms Per Commercial Customer	2,840	2,840	2,840	2,853	2,840	2,840	2,840	2,853	2,840	2,840
Therms Per Industrial Customer	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468
Residential Customers	1,876	1,895	1,913	1,932	1,950	1,969	1,988	2,006	2,025	2,043
Commercial Customers	539	549	559	569	579	589	598	608	617	627
Industrial Customers	16	17	17	17	17	17	17	17	17	18
Interruptible Customers	2	2	2	2	2	2	2	2	2	3
Total Core Customers	2,434	2,463	2,492	2,520	2,549	2,577	2,605	2,634	2,662	2,690

Moses Lake	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.16%	2.03%	2.31%	1.41%	1.74%	1.65%	2.00%	1.16%	1.49%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	93,670	95,569	97,436	99,267	101,086	102,883	104,623	106,350	108,036	109,690
Industrial Therms	2,933,822	2,997,189	3,058,239	3,129,340	3,173,147	3,228,234	3,281,545	3,347,563	3,385,867	3,436,386
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	3,027,491	3,092,758	3,155,675	3,228,607	3,274,233	3,331,117	3,386,168	3,453,913	3,493,902	3,546,076
Daily Baseload Therms	3,114	3,182	3,247	3,308	3,369	3,427	3,484	3,539	3,594	3,648
Peak Day Therms	28,989	29,613	30,214	30,789	31,349	31,894	32,422	32,940	33,455	33,955
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929
Therms Per Industrial Customer	399,066	399,066	399,066	400,714	399,066	399,066	399,066	400,714	399,066	399,066
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	5	5	5	6	6	6	6	6	6	6
Industrial Customers	7	8	8	8	8	8	8	8	8	9
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	13	13	13	13	14	14	14	14	15	15

Woodland	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.67%	2.58%	2.61%	2.38%	2.43%	2.40%	2.47%	2.29%	2.36%
Residential Therms	380,928	393,762	407,005	420,688	434,740	449,255	464,208	479,650	495,474	511,777
Commercial Therms	734,461	757,322	780,118	803,009	826,086	849,554	873,388	897,754	922,556	947,866
Industrial Therms	354,769	358,338	361,279	365,081	365,700	367,322	368,602	371,003	370,409	370,995
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,470,158	1,509,422	1,548,401	1,588,778	1,626,527	1,666,131	1,706,198	1,748,406	1,788,438	1,830,638
Daily Baseload Therms	1,167	1,192	1,216	1,239	1,263	1,285	1,308	1,331	1,354	1,377
Peak Day Therms	16,856	17,343	17,830	18,320	18,816	19,319	19,831	20,354	20,886	21,430
Therms Per Residential Customer	593	593	593	593	593	593	593	593	593	593
Therms Per Commercial Customer	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488
Therms Per Industrial Customer	24,651	24,651	24,651	24,743	24,651	24,651	24,651	24,743	24,651	24,651
Residential Customers	643	665	687	710	734	758	783	809	836	864
Commercial Customers	211	217	224	230	237	244	250	257	265	272
Industrial Customers	14	15	15	15	15	15	15	15	15	15
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	868	896	925	955	985	1,017	1,049	1,082	1,116	1,151

A/M Rendering	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.00%	1.99%	2.37%	1.61%	1.98%	1.98%	2.35%	1.59%	1.95%
Residential Therms	443,079	451,892	460,874	471,754	479,323	488,796	498,433	510,116	518,185	528,275
Commercial Therms	3,992	4,107	4,221	4,350	4,451	4,568	4,687	4,825	4,931	5,056
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	447,072	455,999	465,095	476,104	483,774	493,365	503,120	514,940	523,116	533,331
Daily Baseload Therms	729	743	758	773	788	804	820	836	853	869
Peak Day Therms	3,078	3,139	3,202	3,265	3,330	3,396	3,463	3,532	3,601	3,671
Therms Per Residential Customer	14,198	14,198	14,198	14,251	14,198	14,198	14,198	14,251	14,198	14,198
Therms Per Commercial Customer	3,753	3,753	3,753	3,766	3,753	3,753	3,753	3,766	3,753	3,753
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	31	32	32	33	34	34	35	36	36	37
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	32	33	34	34	35	36	36	37	38	39

LDS Church	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.30%	2.22%	2.67%	1.60%	2.08%	2.04%	2.53%	1.48%	1.96%
Residential Therms	2,606	2,658	2,711	2,778	2,819	2,875	2,931	3,004	3,048	3,107
Commercial Therms	7,261	7,436	7,607	7,815	7,944	8,112	8,280	8,491	8,618	8,788
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	9,867	10,094	10,318	10,593	10,763	10,987	11,211	11,495	11,665	11,895
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	125	128	131	134	137	139	142	145	148	151
Therms Per Residential Customer	1,253	1,253	1,253	1,259	1,253	1,253	1,253	1,259	1,253	1,253
Therms Per Commercial Customer	6,883	6,883	6,883	6,917	6,883	6,883	6,883	6,917	6,883	6,883
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	3	3	3	4	4	4	4

Kalama #1	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.13%	1.13%	1.12%	1.11%	1.10%	1.09%	1.09%	1.07%	1.06%
Residential Therms	983	994	1,005	1,017	1,028	1,039	1,051	1,062	1,074	1,085
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	983	994	1,005	1,017	1,028	1,039	1,051	1,062	1,074	1,085
Daily Baseload Therms	0	0	0	0	0	0	0	1	1	1
Peak Day Therms	11	11	11	12	12	12	12	12	12	12
Therms Per Residential Customer	320	320	320	320	320	320	320	320	320	320
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	3	3	3	3	3	3	3	3	3	3
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	3	3	3	3	3	3	3

Dehawn Dairy	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.98%	0.98%	1.44%	0.50%	0.96%	0.95%	1.41%	0.46%	0.91%
Residential Therms	1,286	1,298	1,311	1,330	1,337	1,349	1,362	1,381	1,388	1,400
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,286	1,298	1,311	1,330	1,337	1,349	1,362	1,381	1,388	1,400
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	15	15	15	15	15	15	16	16	16	16
Therms Per Residential Customer	630	630	630	633	630	630	630	633	630	630
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

Yakima Chief Ranch	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.98%	0.98%	1.63%	0.30%	0.96%	0.95%	1.60%	0.27%	0.91%
Residential Therms	429	433	437	444	446	450	454	461	463	467
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	429	433	437	444	446	450	454	461	463	467
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	6	6	6	6	6	6	6	6	6	6
Therms Per Residential Customer	210	210	210	212	210	210	210	212	210	210
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

7th Day School	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.21%	1.18%	1.65%	0.61%	1.09%	1.07%	1.56%	0.52%	1.01%
Residential Therms	10,130	10,229	10,330	10,485	10,530	10,631	10,731	10,890	10,932	11,032
Commercial Therms	3,537	3,605	3,671	3,754	3,799	3,862	3,925	4,008	4,051	4,114
Industrial Therms	1,813	1,833	1,851	1,874	1,882	1,895	1,906	1,922	1,924	1,932
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	15,480	15,667	15,852	16,113	16,211	16,387	16,562	16,820	16,908	17,078
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	201	203	206	208	210	213	215	217	220	222
Therms Per Residential Customer	903	903	903	908	903	903	903	908	903	903
Therms Per Commercial Customer	3,386	3,386	3,386	3,404	3,386	3,386	3,386	3,404	3,386	3,386
Therms Per Industrial Customer	1,762	1,762	1,762	1,768	1,762	1,762	1,762	1,768	1,762	1,762
Residential Customers	11	11	11	12	12	12	12	12	12	12
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	13	13	14	14	14	14	14	14	14	15

Yakima Training Center	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.94%	1.87%	2.34%	1.26%	1.75%	1.71%	2.21%	1.16%	1.65%
Residential Therms	3,374	3,407	3,440	3,491	3,507	3,541	3,574	3,626	3,641	3,674
Commercial Therms	298,545	304,372	310,084	317,367	321,393	327,051	332,681	340,077	344,040	349,750
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	301,918	307,779	313,524	320,858	324,900	330,592	336,256	343,703	347,681	353,424
Daily Baseload Therms	251	256	261	266	270	275	280	285	289	294
Peak Day Therms	3,888	3,964	4,038	4,111	4,184	4,258	4,330	4,404	4,478	4,552
Therms Per Residential Customer	132	132	132	133	132	132	132	133	132	132
Therms Per Commercial Customer	2,968	2,968	2,968	2,983	2,968	2,968	2,968	2,983	2,968	2,968
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	25	26	26	26	27	27	27	27	28	28
Commercial Customers	101	103	104	106	108	110	112	114	116	118
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	126	128	130	133	135	137	139	141	143	146

Burbank Heights Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.23%	2.19%	2.39%	1.91%	2.12%	2.10%	2.32%	1.84%	2.04%
Residential Therms	3,152,827	3,212,019	3,272,293	3,333,695	3,395,904	3,459,229	3,523,548	3,589,042	3,655,203	3,722,264
Commercial Therms	2,305,316	2,367,083	2,428,534	2,502,871	2,552,147	2,614,588	2,677,869	2,756,057	2,806,746	2,871,817
Industrial Therms	137,755	140,122	142,328	144,481	146,536	148,508	150,378	152,223	153,988	155,733
Ind., Inst., & Cmcl. Interrup. Therms	216,202	222,357	228,493	235,672	240,831	247,166	253,587	261,308	266,856	273,655
Total Core Therms	5,812,100	5,941,581	6,071,648	6,216,719	6,335,418	6,469,491	6,605,382	6,758,630	6,882,792	7,023,468
Daily Baseload Therms	4,554	4,655	4,756	4,857	4,959	5,063	5,167	5,273	5,380	5,488
Peak Day Therms	87,444	89,392	91,351	93,322	95,326	97,348	99,399	101,477	103,588	105,714
Therms Per Residential Customer	397	397	397	397	397	397	397	397	397	397
Therms Per Commercial Customer	2,679	2,679	2,679	2,693	2,679	2,679	2,679	2,693	2,679	2,679
Therms Per Industrial Customer	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873
Residential Customers	7,946	8,096	8,247	8,402	8,559	8,719	8,881	9,046	9,213	9,382
Commercial Customers	860	884	906	929	953	976	1,000	1,023	1,048	1,072
Industrial Customers	9	9	10	10	10	10	10	10	10	10
Interruptible Customers	4	4	4	4	4	5	5	5	5	5
Total Core Customers	8,820	8,993	9,168	9,345	9,526	9,709	9,895	10,084	10,276	10,469

East Stanwood Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.13%	2.10%	2.53%	1.64%	2.07%	2.06%	2.49%	1.61%	2.03%
Residential Therms	5,540,599	5,642,383	5,745,976	5,877,598	5,958,335	6,067,125	6,177,592	6,318,095	6,403,512	6,518,600
Commercial Therms	3,405,154	3,495,218	3,584,887	3,691,638	3,767,396	3,861,172	3,956,139	4,070,025	4,151,513	4,251,628
Industrial Therms	146,465	149,990	153,324	156,550	159,664	162,754	165,864	168,993	172,096	175,310
Ind., Inst., & Cmcl. Interrup. Therms	455,204	463,489	472,000	482,131	489,533	498,680	508,073	519,244	527,466	537,518
Total Core Therms	9,547,422	9,751,081	9,956,187	10,207,916	10,374,928	10,589,731	10,807,668	11,076,357	11,254,587	11,483,056
Daily Baseload Therms	8,609	8,801	8,993	9,187	9,382	9,581	9,783	9,989	10,197	10,409
Peak Day Therms	95,448	97,464	99,496	101,560	103,646	105,774	107,934	110,130	112,362	114,626
Therms Per Residential Customer	676	676	676	679	676	676	676	679	676	676
Therms Per Commercial Customer	3,501	3,501	3,501	3,516	3,501	3,501	3,501	3,516	3,501	3,501
Therms Per Industrial Customer	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076
Residential Customers	8,201	8,352	8,505	8,661	8,820	8,981	9,144	9,310	9,479	9,649
Commercial Customers	973	998	1,024	1,050	1,076	1,103	1,130	1,157	1,186	1,214
Industrial Customers	3	3	3	3	3	4	4	4	4	4
Interruptible Customers	5	5	5	5	5	5	6	6	6	6
Total Core Customers	9,182	9,359	9,538	9,720	9,905	10,092	10,283	10,477	10,674	10,873

Kennewick Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.93%	2.89%	3.32%	2.38%	2.82%	2.80%	3.24%	2.31%	2.75%
Residential Therms	9,629,267	9,880,988	10,138,798	10,454,064	10,672,333	10,948,362	11,230,493	11,575,915	11,813,202	12,113,297
Commercial Therms	9,609,866	9,920,256	10,233,516	10,599,344	10,875,464	11,206,158	11,544,023	11,942,562	12,242,050	12,602,544
Industrial Therms	178,552	182,074	185,526	188,941	192,344	195,690	199,000	202,244	205,481	208,649
Ind., Inst., & Cmcl. Interrup. Therms	1,149,478	1,186,790	1,224,221	1,262,059	1,300,321	1,339,312	1,379,105	1,419,848	1,461,386	1,503,918
Total Core Therms	20,567,163	21,170,108	21,782,061	22,504,408	23,040,461	23,689,523	24,352,621	25,140,569	25,722,119	26,428,408
Daily Baseload Therms	18,251	18,797	19,350	19,913	20,485	21,070	21,668	22,279	22,902	23,538
Peak Day Therms	285,154	293,430	301,838	310,409	319,138	328,064	337,185	346,506	356,022	365,737
Therms Per Residential Customer	645	645	645	649	645	645	645	649	645	645
Therms Per Commercial Customer	3,953	3,953	3,953	3,971	3,953	3,953	3,953	3,971	3,953	3,953
Therms Per Industrial Customer	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924
Residential Customers	14,919	15,309	15,709	16,117	16,535	16,963	17,400	17,847	18,303	18,768
Commercial Customers	2,431	2,509	2,589	2,669	2,751	2,835	2,920	3,008	3,097	3,188
Industrial Customers	9	9	9	9	10	10	10	10	10	10
Interruptible Customers	13	13	14	14	14	15	15	16	16	17
Total Core Customers	17,372	17,841	18,320	18,810	19,310	19,822	20,345	20,880	21,426	21,983

Longview South Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.97%	1.89%	2.26%	1.34%	1.74%	1.71%	2.11%	1.23%	1.65%
Residential Therms	997,547	1,008,854	1,020,233	1,036,282	1,043,146	1,054,651	1,066,199	1,082,593	1,089,316	1,100,826
Commercial Therms	3,675,608	3,754,558	3,831,328	3,922,444	3,979,703	4,052,796	4,126,099	4,215,935	4,271,406	4,344,985
Industrial Therms	224,651	225,311	225,523	226,348	225,358	225,141	224,858	225,359	224,102	223,673
Ind., Inst., & Cmcl. Interrup. Therms	622,279	640,094	658,378	680,249	695,657	714,818	733,727	756,801	773,411	793,713
Total Core Therms	5,520,085	5,628,818	5,735,461	5,865,323	5,943,863	6,047,406	6,150,883	6,280,688	6,358,235	6,463,196
Daily Baseload Therms	4,968	5,064	5,159	5,251	5,342	5,433	5,524	5,614	5,705	5,797
Peak Day Therms	52,016	53,042	54,051	55,046	56,027	57,010	57,991	58,970	59,961	60,959
Therms Per Residential Customer	530	530	530	532	530	530	530	532	530	530
Therms Per Commercial Customer	4,064	4,064	4,064	4,082	4,064	4,064	4,064	4,082	4,064	4,064
Therms Per Industrial Customer	16,733	16,733	16,733	16,796	16,733	16,733	16,733	16,796	16,733	16,733
Residential Customers	1,882	1,903	1,925	1,946	1,968	1,990	2,011	2,033	2,055	2,077
Commercial Customers	904	924	943	961	979	997	1,015	1,033	1,051	1,069
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	6	7	7	7	7	7	8	8	8	8
Total Core Customers	2,806	2,847	2,888	2,928	2,968	3,008	3,048	3,087	3,127	3,167

Sedro-Woolley Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.10%	2.06%	2.49%	1.54%	1.98%	1.96%	2.41%	1.47%	1.92%
Residential Therms	16,989,260	17,301,003	17,617,919	18,023,330	18,267,873	18,600,804	18,938,680	19,371,247	19,629,645	19,981,531
Commercial Therms	8,449,684	8,685,305	8,918,805	9,192,024	9,385,368	9,622,186	9,860,635	10,149,706	10,349,548	10,599,841
Industrial Therms	1,144,761	1,159,587	1,172,523	1,188,265	1,194,042	1,203,062	1,211,016	1,222,561	1,224,188	1,229,817
Ind., Inst., & Cmcl. Interrup. Therms	1,218,383	1,240,610	1,261,780	1,287,857	1,301,607	1,320,698	1,339,413	1,363,133	1,375,125	1,392,862
Total Core Therms	27,802,088	28,386,505	28,971,026	29,691,476	30,148,890	30,746,750	31,349,744	32,106,647	32,578,506	33,204,051
Daily Baseload Therms	17,300	17,665	18,027	18,389	18,752	19,118	19,486	19,858	20,232	20,612
Peak Day Therms	297,419	303,668	309,927	316,212	322,560	328,980	335,460	342,038	348,676	355,408
Therms Per Residential Customer	665	665	665	668	665	665	665	668	665	665
Therms Per Commercial Customer	2,499	2,499	2,499	2,511	2,499	2,499	2,499	2,511	2,499	2,499
Therms Per Industrial Customer	13,114	13,114	13,114	13,163	13,114	13,114	13,114	13,163	13,114	13,114
Residential Customers	25,542	26,011	26,487	26,972	27,464	27,965	28,473	28,989	29,512	30,041
Commercial Customers	3,381	3,475	3,568	3,661	3,755	3,850	3,945	4,043	4,141	4,241
Industrial Customers	87	88	89	90	91	92	92	93	93	94
Interruptible Customers	10	11	11	11	11	11	11	12	12	12
Total Core Customers	29,020	29,585	30,156	30,734	31,322	31,918	32,522	33,136	33,758	34,387

Sumas SPE Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.25%	2.22%	2.65%	1.72%	2.16%	2.15%	2.59%	1.67%	2.11%
Residential Therms	30,959,943	31,575,731	32,203,318	32,992,391	33,492,420	34,154,381	34,827,735	35,675,242	36,207,934	36,912,952
Commercial Therms	14,782,730	15,197,420	15,611,187	16,094,161	16,442,796	16,866,057	17,294,081	17,805,557	18,169,520	18,615,969
Industrial Therms	1,153,987	1,169,528	1,183,251	1,199,825	1,206,078	1,215,796	1,224,346	1,236,831	1,239,271	1,245,775
Ind., Inst., & Cmcl. Interrup. Therms	1,022,100	1,055,605	1,089,333	1,128,786	1,158,808	1,194,846	1,231,881	1,275,975	1,309,365	1,349,797
Total Core Therms	47,918,760	48,998,284	50,087,089	51,415,163	52,300,101	53,431,081	54,578,043	55,993,605	56,926,089	58,124,493
Daily Baseload Therms	34,220	35,007	35,799	36,595	37,401	38,217	39,044	39,884	40,734	41,596
Peak Day Therms	500,028	511,225	522,529	533,950	545,530	557,291	569,224	581,360	593,660	606,134
Therms Per Residential Customer	703	703	703	706	703	703	703	706	703	703
Therms Per Commercial Customer	2,827	2,827	2,827	2,840	2,827	2,827	2,827	2,840	2,827	2,827
Therms Per Industrial Customer	20,187	20,187	20,187	20,263	20,187	20,187	20,187	20,263	20,187	20,187
Residential Customers	44,033	44,909	45,801	46,710	47,635	48,576	49,534	50,508	51,497	52,500
Commercial Customers	5,228	5,375	5,521	5,668	5,815	5,965	6,116	6,270	6,426	6,584
Industrial Customers	57	58	59	59	60	60	61	61	61	62
Interruptible Customers	12	13	13	14	14	15	15	15	16	16
Total Core Customers	49,331	50,355	51,395	52,451	53,524	54,616	55,726	56,855	58,000	59,162

Yakima Loop	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.44%	1.39%	1.81%	0.84%	1.28%	1.25%	1.70%	0.75%	1.19%
Residential Therms	12,347,663	12,469,085	12,591,123	12,774,957	12,835,792	12,958,491	13,081,131	13,267,856	13,325,913	13,447,290
Commercial Therms	11,953,705	12,194,778	12,431,183	12,722,073	12,894,997	13,125,523	13,355,847	13,649,453	13,819,171	14,051,179
Industrial Therms	2,899,696	2,926,884	2,949,694	2,979,687	2,983,516	2,995,395	3,004,688	3,023,528	3,017,201	3,020,850
Ind., Inst., & Cmcl. Interrup. Therms	794,926	808,729	821,951	838,154	847,437	859,816	872,097	887,795	896,540	908,712
Total Core Therms	27,995,990	28,399,476	28,793,951	29,314,871	29,561,742	29,939,224	30,313,763	30,828,632	31,058,824	31,428,030
Daily Baseload Therms	17,244	17,497	17,741	17,976	18,206	18,431	18,652	18,872	19,088	19,303
Peak Day Therms	316,366	320,914	325,375	329,760	334,094	338,397	342,675	346,948	351,202	355,436
Therms Per Residential Customer	660	660	660	663	660	660	660	663	660	660
Therms Per Commercial Customer	3,455	3,455	3,455	3,471	3,455	3,455	3,455	3,471	3,455	3,455
Therms Per Industrial Customer	38,396	38,396	38,396	38,546	38,396	38,396	38,396	38,546	38,396	38,396
Residential Customers	18,705	18,889	19,074	19,259	19,445	19,630	19,816	20,002	20,187	20,371
Commercial Customers	3,460	3,529	3,598	3,665	3,732	3,799	3,866	3,933	4,000	4,067
Industrial Customers	76	76	77	77	78	78	78	78	79	79
Interruptible Customers	12	12	12	13	13	13	13	13	14	14
Total Core Customers	22,252	22,507	22,761	23,014	23,267	23,520	23,773	24,027	24,279	24,530

Zone 10	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.60%	1.54%	1.81%	1.12%	1.41%	1.38%	1.68%	1.01%	1.31%
Residential Therms	3,048,004	3,081,927	3,116,144	3,162,574	3,185,162	3,219,987	3,254,952	3,302,673	3,325,233	3,360,363
Commercial Therms	4,859,292	4,960,385	5,059,677	5,177,512	5,255,187	5,352,568	5,450,280	5,569,743	5,647,378	5,746,474
Industrial Therms	1,874,661	1,895,083	1,913,350	1,930,279	1,944,218	1,957,118	1,968,668	1,979,673	1,988,217	1,996,498
Ind., Inst., & Cmcl. Interrup. Therms	210,268	214,558	218,797	223,750	227,203	231,422	235,672	240,776	244,303	248,678
Total Core Therms	9,992,225	10,151,953	10,307,968	10,494,115	10,611,770	10,761,095	10,909,572	11,092,864	11,205,131	11,352,013
Daily Baseload Therms	8,117	8,238	8,354	8,465	8,572	8,676	8,777	8,877	8,975	9,070
Peak Day Therms	115,005	116,845	118,649	120,423	122,174	123,914	125,648	127,381	129,109	130,834
Therms Per Residential Customer	578	578	578	580	578	577	577	579	577	577
Therms Per Commercial Customer	3,445	3,445	3,445	3,458	3,445	3,445	3,445	3,459	3,446	3,446
Therms Per Industrial Customer	35,077	35,085	35,095	35,122	35,123	35,138	35,156	35,186	35,191	35,210
Residential Customers	5,274	5,334	5,394	5,454	5,515	5,576	5,638	5,699	5,761	5,823
Commercial Customers	1,411	1,440	1,469	1,497	1,525	1,554	1,582	1,610	1,639	1,668
Industrial Customers	53	54	55	55	55	56	56	56	56	57
Interruptible Customers	3	3	3	3	3	3	3	4	4	4
Total Core Customers	6,741	6,831	6,920	7,010	7,099	7,189	7,279	7,370	7,460	7,551

Zone 11	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.58%	1.53%	1.91%	1.01%	1.41%	1.39%	1.79%	0.92%	1.32%
Residential Therms	13,361,923	13,498,583	13,636,082	13,840,132	13,912,297	14,051,094	14,190,035	14,398,096	14,467,981	14,606,169
Commercial Therms	16,871,669	17,228,048	17,577,672	17,999,514	18,266,259	18,609,608	18,953,885	19,381,377	19,647,355	19,996,006
Industrial Therms	3,740,646	3,782,622	3,819,871	3,863,731	3,881,244	3,906,525	3,928,852	3,960,569	3,966,935	3,983,113
Ind., Inst., & Cmcl. Interrup. Therms	1,453,431	1,479,599	1,504,675	1,532,215	1,552,526	1,575,760	1,598,747	1,625,035	1,644,528	1,667,188
Total Core Therms	35,427,669	35,988,851	36,538,300	37,235,592	37,612,326	38,142,987	38,671,520	39,365,077	39,726,799	40,252,476
Daily Baseload Therms	23,718	24,119	24,508	24,887	25,260	25,628	25,994	26,357	26,720	27,081
Peak Day Therms	393,437	399,710	405,865	411,932	417,930	423,906	429,863	435,820	441,772	447,710
Therms Per Residential Customer	610	610	610	612	609	609	609	611	608	608
Therms Per Commercial Customer	3,532	3,531	3,530	3,544	3,529	3,528	3,528	3,542	3,527	3,526
Therms Per Industrial Customer	33,452	33,399	33,346	33,391	33,236	33,180	33,123	33,163	33,007	32,948
Residential Customers	21,901	22,134	22,367	22,602	22,838	23,074	23,312	23,549	23,787	24,023
Commercial Customers	4,777	4,879	4,979	5,078	5,176	5,274	5,373	5,472	5,571	5,670
Industrial Customers	112	113	115	116	117	118	119	119	120	121
Interruptible Customers	21	21	22	22	23	23	24	24	24	25
Total Core Customers	26,811	27,148	27,483	27,818	28,153	28,490	28,826	29,164	29,502	29,839

Zone 20	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.62%	2.57%	2.92%	2.12%	2.49%	2.46%	2.83%	2.05%	2.41%
Residential Therms	16,017,870	16,399,309	16,789,458	17,258,193	17,595,165	18,011,096	18,435,557	18,946,275	19,310,490	19,760,013
Commercial Therms	14,333,155	14,759,684	15,188,102	15,681,755	16,060,280	16,506,769	16,961,395	17,492,378	17,896,608	18,376,995
Industrial Therms	3,524,208	3,597,397	3,667,780	3,747,730	3,800,157	3,863,572	3,924,798	3,998,405	4,044,235	4,101,959
Ind., Inst., & Cmcl. Interrup. Therms	1,739,967	1,791,530	1,843,394	1,896,482	1,948,220	2,002,012	2,056,687	2,113,776	2,169,792	2,228,064
Total Core Therms	35,615,200	36,547,919	37,488,734	38,584,159	39,403,821	40,383,450	41,378,436	42,550,834	43,421,124	44,467,031
Daily Baseload Therms	30,752	31,555	32,361	33,173	33,994	34,828	35,671	36,528	37,400	38,284
Peak Day Therms	494,208	507,149	520,224	533,457	546,901	560,568	574,464	588,609	603,020	617,653
Therms Per Residential Customer	617	617	618	621	619	619	619	622	620	621
Therms Per Commercial Customer	3,765	3,767	3,768	3,785	3,772	3,773	3,775	3,791	3,778	3,780
Therms Per Industrial Customer	90,375	90,664	90,947	91,532	91,473	91,719	91,968	92,541	92,472	92,720
Residential Customers	25,970	26,569	27,181	27,806	28,444	29,096	29,760	30,438	31,129	31,831
Commercial Customers	3,807	3,919	4,031	4,144	4,258	4,375	4,493	4,614	4,737	4,862
Industrial Customers	39	40	40	41	42	42	43	43	44	44
Interruptible Customers	21	21	22	23	23	24	24	25	26	26
Total Core Customers	29,837	30,549	31,274	32,013	32,767	33,536	34,320	35,120	35,935	36,764

Zone 24	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.67%	0.64%	1.00%	0.11%	0.52%	0.49%	0.91%	0.02%	0.44%
Residential Therms	4,075,470	4,090,998	4,106,341	4,142,514	4,136,715	4,151,745	4,166,495	4,202,260	4,195,378	4,209,211
Commercial Therms	3,967,442	4,003,989	4,038,477	4,088,158	4,096,769	4,124,855	4,150,649	4,196,522	4,200,871	4,225,373
Industrial Therms	233,804	234,216	234,431	234,320	234,188	234,033	233,819	233,618	233,322	232,983
Ind., Inst., & Cmcl. Interrup. Therms	928,275	937,824	946,635	954,338	961,675	968,162	974,274	979,917	984,389	988,779
Total Core Therms	9,204,991	9,267,027	9,325,884	9,419,330	9,429,348	9,478,795	9,525,238	9,612,318	9,613,960	9,656,345
Daily Baseload Therms	3,678	3,696	3,713	3,726	3,739	3,751	3,762	3,772	3,782	3,791
Peak Day Therms	115,944	116,723	117,460	118,127	118,764	119,383	119,968	120,541	121,077	121,603
Therms Per Residential Customer	580	580	580	583	580	580	580	583	580	580
Therms Per Commercial Customer	2,755	2,756	2,757	2,771	2,758	2,759	2,760	2,775	2,762	2,763
Therms Per Industrial Customer	10,230	10,240	10,246	10,248	10,248	10,249	10,249	10,250	10,251	10,250
Residential Customers	7,030	7,057	7,083	7,109	7,135	7,161	7,186	7,211	7,235	7,258
Commercial Customers	1,440	1,453	1,465	1,475	1,485	1,495	1,504	1,512	1,521	1,529
Industrial Customers	23	23	23	23	23	23	23	23	23	23
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,495	8,535	8,573	8,610	8,645	8,680	8,714	8,748	8,780	8,812

Zone 26	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.99%	1.91%	2.18%	1.46%	1.77%	1.74%	2.04%	1.37%	1.69%
Residential Therms	1,613,323	1,640,126	1,667,426	1,699,851	1,723,469	1,752,198	1,781,417	1,815,978	1,841,242	1,871,765
Commercial Therms	4,736,794	4,843,732	4,948,132	5,068,044	5,151,433	5,252,231	5,353,537	5,473,145	5,556,093	5,659,058
Industrial Therms	812,269	817,008	820,211	824,753	824,179	825,294	825,933	828,408	826,062	825,705
Ind., Inst., & Cmcl. Interrup. Therms	830,346	850,552	871,188	895,422	913,151	934,593	955,792	981,113	999,980	1,022,495
Total Core Therms	7,992,733	8,151,419	8,306,957	8,488,070	8,612,232	8,764,315	8,916,679	9,098,645	9,223,378	9,379,023
Daily Baseload Therms	7,683	7,819	7,950	8,077	8,202	8,327	8,451	8,574	8,698	8,822
Peak Day Therms	78,573	80,202	81,807	83,399	84,978	86,565	88,159	89,758	91,379	93,017
Therms Per Residential Customer	583	583	583	585	583	583	583	585	583	583
Therms Per Commercial Customer	3,891	3,891	3,890	3,903	3,888	3,888	3,887	3,900	3,885	3,884
Therms Per Industrial Customer	26,328	26,319	26,309	26,373	26,297	26,291	26,286	26,352	26,277	26,273
Residential Customers	2,768	2,813	2,860	2,907	2,956	3,005	3,054	3,105	3,156	3,208
Commercial Customers	1,217	1,245	1,272	1,299	1,325	1,351	1,377	1,404	1,430	1,457
Industrial Customers	31	31	31	31	31	31	31	31	31	31
Interruptible Customers	7	8	8	8	8	8	9	9	9	9
Total Core Customers	4,023	4,097	4,171	4,245	4,320	4,395	4,472	4,549	4,627	4,706

Zone 30-S	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.91%	1.88%	2.29%	1.41%	1.82%	1.81%	2.22%	1.36%	1.76%
Residential Therms	24,317,631	24,711,325	25,111,046	25,632,537	25,928,121	26,345,327	26,768,235	27,320,167	27,629,883	28,067,063
Commercial Therms	13,702,232	14,021,696	14,337,140	14,715,422	14,966,876	15,283,629	15,605,094	15,994,610	16,254,439	16,584,708
Industrial Therms	539,577	546,494	552,895	559,618	564,217	569,608	574,717	580,669	584,640	589,398
Ind., Inst., & Cmcl. Interrup. Therms	3,447,446	3,531,466	3,615,590	3,706,925	3,784,335	3,869,536	3,954,338	4,046,972	4,124,397	4,208,755
Total Core Therms	42,006,887	42,810,982	43,616,671	44,614,501	45,243,549	46,068,099	46,902,384	47,942,418	48,593,359	49,449,924
Daily Baseload Therms	33,659	34,338	35,016	35,699	36,383	37,075	37,775	38,478	39,189	39,905
Peak Day Therms	412,272	420,093	427,938	435,848	443,795	451,840	459,980	468,188	476,495	484,863
Therms Per Residential Customer	680	680	680	683	680	679	679	682	679	679
Therms Per Commercial Customer	3,554	3,554	3,555	3,570	3,556	3,556	3,557	3,572	3,558	3,558
Therms Per Industrial Customer	17,750	17,763	17,777	17,820	17,803	17,815	17,827	17,868	17,851	17,863
Residential Customers	35,778	36,360	36,950	37,549	38,157	38,773	39,398	40,031	40,671	41,317
Commercial Customers	3,856	3,945	4,033	4,122	4,209	4,298	4,388	4,478	4,569	4,661
Industrial Customers	30	31	31	31	32	32	32	32	33	33
Interruptible Customers	14	15	15	15	16	16	16	17	17	17
Total Core Customers	39,679	40,350	41,030	41,718	42,414	43,119	43,834	44,558	45,289	46,028

Zone 30-W	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.18%	2.14%	2.57%	1.64%	2.08%	2.06%	2.51%	1.58%	2.02%
Residential Therms	57,572,264	58,679,379	59,806,711	61,230,918	62,120,694	63,307,741	64,514,144	66,039,703	66,984,642	68,245,070
Commercial Therms	28,760,339	29,548,953	30,332,505	31,249,757	31,903,188	32,701,182	33,506,207	34,473,671	35,152,617	35,992,631
Industrial Therms	2,781,640	2,821,033	2,856,022	2,897,444	2,915,549	2,941,320	2,964,526	2,996,342	3,005,247	3,023,438
Ind., Inst., & Cmcl. Interrup. Therms	2,770,485	2,838,386	2,905,799	2,986,131	3,041,346	3,110,288	3,180,291	3,264,925	3,323,259	3,397,011
Total Core Therms	91,884,728	93,887,751	95,901,037	98,364,250	99,980,776	102,060,531	104,165,168	106,774,642	108,465,765	110,658,150
Daily Baseload Therms	67,852	69,353	70,854	72,360	73,878	75,415	76,966	78,540	80,130	81,741
Peak Day Therms	954,950	975,687	996,553	1,017,595	1,038,885	1,060,481	1,082,345	1,104,559	1,127,041	1,149,834
Therms Per Residential Customer	695	695	695	699	695	695	695	699	696	696
Therms Per Commercial Customer	2,817	2,817	2,817	2,829	2,816	2,816	2,816	2,828	2,816	2,815
Therms Per Industrial Customer	15,698	15,702	15,706	15,766	15,715	15,719	15,724	15,786	15,736	15,743
Residential Customers	82,792	84,382	86,001	87,649	89,325	91,030	92,762	94,524	96,310	98,121
Commercial Customers	10,208	10,489	10,768	11,047	11,328	11,612	11,898	12,190	12,485	12,784
Industrial Customers	177	180	182	184	186	187	189	190	191	192
Interruptible Customers	29	30	30	31	32	33	33	34	35	36
Total Core Customers	93,206	95,080	96,982	98,911	100,870	102,861	104,883	106,938	109,021	111,132

Zone GTN	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		3.19%	3.16%	3.58%	2.65%	3.08%	3.05%	3.48%	2.56%	2.98%
Residential Therms	32,817,598	33,825,340	34,862,723	36,091,297	37,026,723	38,155,046	39,314,102	40,688,132	41,728,539	42,982,960
Commercial Therms	19,908,321	20,627,223	21,353,902	22,190,837	22,849,416	23,622,745	24,406,608	25,315,558	26,017,650	26,843,733
Industrial Therms	2,055,829	2,090,823	2,124,735	2,161,835	2,183,456	2,210,656	2,236,330	2,268,516	2,284,488	2,307,007
Ind., Inst., & Cmcl. Interrup. Therms	992,843	1,013,135	1,032,791	1,053,581	1,070,347	1,088,649	1,106,516	1,126,271	1,141,758	1,159,184
Total Core Therms	55,774,591	57,556,521	59,374,151	61,497,550	63,129,943	65,077,095	67,063,555	69,398,477	71,172,435	73,292,883
Daily Baseload Therms	36,261	37,439	38,638	39,860	41,110	42,389	43,692	45,025	46,384	47,770
Peak Day Therms	693,985	716,006	738,481	761,440	784,934	809,023	833,606	858,773	884,469	910,725
Therms Per Residential Customer	744	744	745	749	746	746	747	751	748	748
Therms Per Commercial Customer	2,847	2,847	2,847	2,860	2,847	2,847	2,848	2,860	2,848	2,848
Therms Per Industrial Customer	25,812	25,804	25,797	25,869	25,779	25,764	25,754	25,818	25,720	25,704
Residential Customers	44,108	45,434	46,798	48,201	49,643	51,126	52,649	54,214	55,820	57,467
Commercial Customers	6,994	7,246	7,501	7,760	8,025	8,296	8,571	8,851	9,135	9,425
Industrial Customers	80	81	82	84	85	86	87	88	89	90
Interruptible Customers	7	8	8	8	8	8	8	8	8	9
Total Core Customers	51,189	52,768	54,389	56,053	57,761	59,516	61,315	63,161	65,052	66,990

Zone ME-OR	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.70%	1.65%	1.98%	1.21%	1.56%	1.52%	1.89%	1.12%	1.47%
Residential Therms	4,860,937	4,906,425	4,952,333	5,014,372	5,044,767	5,091,388	5,138,151	5,201,635	5,232,104	5,278,818
Commercial Therms	5,721,874	5,855,565	5,988,392	6,147,828	6,252,548	6,386,503	6,519,387	6,684,784	6,791,191	6,928,271
Industrial Therms	473,919	478,861	483,111	487,765	489,737	492,269	494,632	497,548	497,861	499,211
Ind., Inst., & Cmcl. Interrup. Therms	1,578,007	1,608,496	1,637,829	1,670,153	1,694,121	1,721,962	1,748,007	1,778,498	1,799,861	1,824,972
Total Core Therms	12,634,737	12,849,346	13,061,664	13,320,118	13,481,173	13,692,122	13,900,177	14,162,464	14,321,016	14,531,272
Daily Baseload Therms	9,893	10,075	10,255	10,433	10,611	10,790	10,968	11,147	11,326	11,506
Peak Day Therms	188,449	191,455	194,434	197,383	200,328	203,293	206,217	209,175	212,128	215,076
Therms Per Residential Customer	459	459	459	460	459	459	459	460	459	459
Therms Per Commercial Customer	3,012	3,013	3,013	3,027	3,014	3,015	3,016	3,030	3,017	3,018
Therms Per Industrial Customer	17,272	17,255	17,239	17,262	17,207	17,192	17,176	17,200	17,147	17,132
Residential Customers	10,592	10,691	10,791	10,892	10,993	11,094	11,196	11,299	11,401	11,503
Commercial Customers	1,899	1,944	1,987	2,031	2,074	2,118	2,162	2,206	2,251	2,296
Industrial Customers	27	28	28	28	28	29	29	29	29	29
Interruptible Customers	9	9	9	9	9	9	9	10	10	10
Total Core Customers	12,527	12,671	12,815	12,960	13,105	13,250	13,396	13,543	13,691	13,838

Zone ME-WA	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.55%	1.52%	1.96%	0.98%	1.43%	1.40%	1.85%	0.88%	1.33%
Residential Therms	6,578,831	6,640,366	6,702,255	6,797,950	6,826,279	6,888,247	6,950,236	7,047,093	7,073,943	7,134,990
Commercial Therms	4,380,119	4,466,293	4,551,416	4,656,312	4,717,495	4,800,332	4,882,246	4,987,652	5,045,432	5,126,991
Industrial Therms	85,987	87,130	88,152	89,023	89,836	90,521	91,112	91,634	92,089	92,509
Ind., Inst., & Cmcl. Interrup. Therms	1,767,510	1,817,014	1,866,519	1,923,782	1,965,927	2,015,207	2,064,423	2,120,839	2,161,103	2,209,180
Total Core Therms	12,812,447	13,010,803	13,208,343	13,467,067	13,599,537	13,794,307	13,988,017	14,247,218	14,372,566	14,563,670
Daily Baseload Therms	13,255	13,488	13,717	13,944	14,168	14,390	14,610	14,828	15,043	15,257
Peak Day Therms	175,670	178,239	180,797	183,331	185,857	188,377	190,883	193,381	195,862	198,336
Therms Per Residential Customer	598	598	598	601	598	598	598	601	598	598
Therms Per Commercial Customer	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	11,001	11,103	11,207	11,311	11,414	11,518	11,622	11,725	11,828	11,931
Commercial Customers	1,324	1,350	1,376	1,401	1,426	1,451	1,476	1,501	1,525	1,550
Industrial Customers	16	16	16	16	16	16	16	17	17	17
Interruptible Customers	3	3	3	3	3	3	4	4	4	4
Total Core Customers	12,343	12,472	12,602	12,731	12,860	12,989	13,117	13,246	13,374	13,501

Bellingham Disctrict	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.26%	2.23%	2.66%	1.73%	2.17%	2.15%	2.60%	1.67%	2.11%
Residential Therms	31,516,189	32,143,041	32,781,903	33,584,754	34,094,166	34,768,021	35,453,472	36,315,774	36,858,469	37,576,154
Commercial Therms	14,925,134	15,344,071	15,762,156	16,250,198	16,602,619	17,030,454	17,463,146	17,980,168	18,348,247	18,799,678
Industrial Therms	1,154,689	1,170,242	1,183,976	1,200,561	1,206,824	1,216,552	1,225,110	1,237,605	1,240,054	1,246,567
Ind., Inst., & Cmcl. Interrup. Therms	1,096,898	1,134,287	1,172,019	1,216,143	1,250,206	1,290,910	1,332,805	1,382,548	1,420,668	1,466,631
Total Core Therms	48,692,910	49,791,641	50,900,055	52,251,656	53,153,814	54,305,937	55,474,533	56,916,096	57,867,438	59,089,029
Daily Baseload Therms	35,120	35,927	36,739	37,556	38,382	39,220	40,068	40,930	41,803	42,688
Peak Day Therms	506,722	518,096	529,580	541,187	552,957	564,914	577,047	589,389	601,899	614,590
Therms Per Residential Customer	713	713	713	716	713	713	713	716	713	713
Therms Per Commercial Customer	2,832	2,832	2,832	2,844	2,832	2,832	2,832	2,844	2,832	2,832
Therms Per Industrial Customer	19,836	19,835	19,833	19,907	19,830	19,829	19,827	19,899	19,823	19,820
Residential Customers	44,224	45,103	46,000	46,912	47,841	48,786	49,748	50,727	51,720	52,727
Commercial Customers	5,271	5,418	5,566	5,714	5,863	6,013	6,166	6,321	6,478	6,638
Industrial Customers	58	59	60	60	61	61	62	62	63	63
Interruptible Customers	14	14	14	15	15	16	16	17	18	18
Total Core Customers	49,566	50,595	51,640	52,701	53,780	54,877	55,993	57,127	58,278	59,445

Mount Vernon District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.09%	2.05%	2.47%	1.55%	1.98%	1.96%	2.40%	1.48%	1.92%
Residential Therms	26,056,075	26,536,338	27,024,808	27,646,164	28,026,528	28,539,720	29,060,672	29,723,929	30,126,173	30,668,916
Commercial Therms	13,835,205	14,204,882	14,570,349	14,999,559	15,300,569	15,670,728	16,043,062	16,493,504	16,804,371	17,192,953
Industrial Therms	1,626,950	1,650,791	1,672,045	1,696,883	1,708,725	1,724,768	1,739,415	1,758,737	1,765,192	1,776,871
Ind., Inst., & Cmcl. Interrup. Therms	1,673,587	1,704,099	1,733,780	1,769,988	1,791,140	1,819,378	1,847,486	1,882,377	1,902,591	1,930,380
Total Core Therms	43,191,817	44,096,111	45,000,982	46,112,594	46,826,962	47,754,594	48,690,635	49,858,546	50,598,328	51,569,121
Daily Baseload Therms	32,732	33,426	34,115	34,804	35,496	36,195	36,898	37,610	38,327	39,053
Peak Day Therms	448,227	457,591	466,972	476,408	485,928	495,566	505,297	515,169	525,142	535,244
Therms Per Residential Customer	676	676	676	679	676	676	676	679	676	676
Therms Per Commercial Customer	2,802	2,801	2,801	2,812	2,800	2,799	2,799	2,810	2,798	2,797
Therms Per Industrial Customer	13,673	13,681	13,689	13,744	13,706	13,714	13,724	13,781	13,745	13,757
Residential Customers	38,568	39,279	40,002	40,737	41,484	42,243	43,014	43,797	44,591	45,394
Commercial Customers	4,938	5,071	5,202	5,333	5,465	5,598	5,732	5,869	6,006	6,146
Industrial Customers	119	121	122	123	125	126	127	128	128	129
Interruptible Customers	15	16	16	16	16	17	17	17	17	18
Total Core Customers	43,640	44,486	45,342	46,210	47,090	47,984	48,890	49,811	50,743	51,687

Bremerton District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.05%	2.01%	2.42%	1.54%	1.95%	1.94%	2.34%	1.49%	1.89%
Residential Therms	21,757,098	22,131,387	22,511,546	23,001,339	23,289,352	23,686,850	24,090,001	24,609,730	24,912,261	25,329,921
Commercial Therms	11,189,906	11,473,035	11,752,823	12,084,893	12,313,461	12,596,175	12,883,499	13,226,647	13,464,868	13,760,461
Industrial Therms	311,863	318,213	324,450	330,268	335,950	341,527	346,914	352,224	357,513	362,708
Ind., Inst., & Cmcl. Interrup. Therms	2,488,280	2,555,621	2,623,475	2,695,729	2,760,614	2,830,518	2,900,294	2,975,038	3,041,809	3,112,458
Total Core Therms	35,747,148	36,478,255	37,212,295	38,112,229	38,699,378	39,455,070	40,220,707	41,163,639	41,776,451	42,565,548
Daily Baseload Therms	27,535	28,134	28,734	29,341	29,950	30,567	31,193	31,824	32,464	33,109
Peak Day Therms	356,572	363,786	371,035	378,360	385,728	393,197	400,763	408,396	416,138	423,936
Therms Per Residential Customer	675	675	675	678	675	675	675	678	675	675
Therms Per Commercial Customer	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	32,240	32,794	33,358	33,930	34,510	35,099	35,696	36,302	36,915	37,534
Commercial Customers	3,094	3,172	3,250	3,328	3,405	3,483	3,562	3,642	3,723	3,805
Industrial Customers	16	17	17	17	18	18	18	18	19	19
Interruptible Customers	10	11	11	11	12	12	12	12	13	13
Total Core Customers	35,360	35,994	36,635	37,286	37,944	38,612	39,289	39,975	40,669	41,371

Longview District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.01%	1.93%	2.21%	1.47%	1.79%	1.76%	2.07%	1.38%	1.71%
Residential Therms	1,613,323	1,640,126	1,667,426	1,699,851	1,723,469	1,752,198	1,781,417	1,815,978	1,841,242	1,871,765
Commercial Therms	4,727,980	4,834,814	4,939,114	5,058,931	5,142,229	5,242,940	5,344,162	5,463,689	5,546,559	5,649,448
Industrial Therms	812,269	817,008	820,211	824,753	824,179	825,294	825,933	828,408	826,062	825,705
Ind., Inst., & Cmcl. Interrup. Therms	622,279	640,094	658,378	680,249	695,657	714,818	733,727	756,801	773,411	793,713
Total Core Therms	7,775,852	7,932,042	8,085,130	8,263,784	8,385,533	8,535,250	8,685,239	8,864,877	8,987,275	9,140,631
Daily Baseload Therms	7,419	7,551	7,678	7,802	7,923	8,044	8,164	8,284	8,404	8,525
Peak Day Therms	76,059	77,652	79,222	80,778	82,323	83,876	85,435	87,001	88,589	90,194
Therms Per Residential Customer	583	583	583	585	583	583	583	585	583	583
Therms Per Commercial Customer	3,894	3,894	3,893	3,906	3,891	3,891	3,890	3,903	3,888	3,887
Therms Per Industrial Customer	26,328	26,319	26,309	26,373	26,297	26,291	26,286	26,352	26,277	26,273
Residential Customers	2,768	2,813	2,860	2,907	2,956	3,005	3,054	3,105	3,156	3,208
Commercial Customers	1,214	1,242	1,269	1,295	1,321	1,348	1,374	1,400	1,427	1,453
Industrial Customers	31	31	31	31	31	31	31	31	31	31
Interruptible Customers	6	7	7	7	7	7	8	8	8	8
Total Core Customers	4,019	4,093	4,167	4,241	4,315	4,391	4,467	4,544	4,622	4,701

Aberdeen District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.17%	1.13%	1.53%	0.64%	1.05%	1.04%	1.45%	0.56%	0.99%
Residential Therms	2,560,533	2,579,938	2,599,499	2,631,197	2,638,769	2,658,477	2,678,234	2,710,437	2,717,622	2,737,142
Commercial Therms	2,512,326	2,548,661	2,584,317	2,630,529	2,653,415	2,687,454	2,721,595	2,767,963	2,789,571	2,824,247
Industrial Therms	227,714	228,281	228,445	229,350	228,266	228,081	227,804	228,445	227,128	226,690
Ind., Inst., & Cmcl. Interrup. Therms	959,165	975,845	992,115	1,011,196	1,023,721	1,039,018	1,054,044	1,071,934	1,082,588	1,096,297
Total Core Therms	6,259,739	6,332,726	6,404,376	6,502,272	6,544,171	6,613,030	6,681,677	6,778,779	6,816,908	6,884,376
Daily Baseload Therms	6,124	6,204	6,282	6,358	6,434	6,508	6,581	6,654	6,725	6,796
Peak Day Therms	55,701	56,307	56,902	57,488	58,067	58,642	59,217	59,792	60,356	60,927
Therms Per Residential Customer	724	724	724	727	724	724	724	727	724	724
Therms Per Commercial Customer	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298
Therms Per Industrial Customer	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180
Residential Customers	3,539	3,566	3,593	3,620	3,647	3,674	3,701	3,729	3,756	3,783
Commercial Customers	762	773	784	794	805	815	825	836	846	856
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	4,318	4,356	4,394	4,432	4,470	4,507	4,545	4,583	4,620	4,657

Kennewick District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.74%	2.70%	3.06%	2.25%	2.63%	2.61%	2.99%	2.18%	2.56%
Residential Therms	15,399,089	15,775,443	16,160,448	16,620,837	16,955,868	17,366,612	17,785,917	18,288,172	18,650,544	19,094,917
Commercial Therms	13,523,470	13,939,194	14,357,239	14,841,106	15,209,911	15,647,045	16,092,757	16,614,985	17,010,370	17,481,742
Industrial Therms	396,072	403,330	410,266	417,082	423,729	430,189	436,452	442,609	448,633	454,556
Ind., Inst., & Cmcl. Interrup. Therms	1,730,218	1,780,532	1,830,893	1,882,719	1,932,944	1,985,134	2,038,285	2,093,754	2,147,942	2,204,408
Total Core Therms	31,048,849	31,898,500	32,758,846	33,761,744	34,522,451	35,428,980	36,353,410	37,439,521	38,257,489	39,235,624
Daily Baseload Therms	25,302	26,009	26,723	27,449	28,186	28,937	29,702	30,483	31,278	32,088
Peak Day Therms	445,792	457,882	470,131	482,576	495,247	508,159	521,327	534,754	548,447	562,375
Therms Per Residential Customer	619	620	620	623	621	621	622	625	623	623
Therms Per Commercial Customer	3,843	3,843	3,844	3,860	3,845	3,845	3,846	3,862	3,847	3,847
Therms Per Industrial Customer	19,509	19,510	19,511	19,511	19,512	19,512	19,513	19,514	19,515	19,516
Residential Customers	24,870	25,460	26,062	26,678	27,306	27,948	28,603	29,272	29,953	30,646
Commercial Customers	3,519	3,627	3,735	3,845	3,956	4,069	4,185	4,302	4,422	4,544
Industrial Customers	20	21	21	21	22	22	22	23	23	23
Interruptible Customers	19	19	20	21	21	22	22	23	23	24
Total Core Customers	28,429	29,127	29,838	30,565	31,305	32,061	32,833	33,620	34,422	35,238

Walla Walla District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.55%	1.52%	1.96%	0.98%	1.43%	1.40%	1.85%	0.88%	1.33%
Residential Therms	6,578,831	6,640,366	6,702,255	6,797,950	6,826,279	6,888,247	6,950,236	7,047,093	7,073,943	7,134,990
Commercial Therms	4,380,119	4,466,293	4,551,416	4,656,312	4,717,495	4,800,332	4,882,246	4,987,652	5,045,432	5,126,991
Industrial Therms	85,987	87,130	88,152	89,023	89,836	90,521	91,112	91,634	92,089	92,509
Ind., Inst., & Cmcl. Interrup. Therms	1,767,510	1,817,014	1,866,519	1,923,782	1,965,927	2,015,207	2,064,423	2,120,839	2,161,103	2,209,180
Total Core Therms	12,812,447	13,010,803	13,208,343	13,467,067	13,599,537	13,794,307	13,988,017	14,247,218	14,372,566	14,563,670
Daily Baseload Therms	12,035	12,245	12,454	12,662	12,868	13,072	13,275	13,476	13,676	13,874
Peak Day Therms	175,670	178,239	180,797	183,331	185,857	188,377	190,883	193,381	195,862	198,336
Therms Per Residential Customer	598	598	598	601	598	598	598	601	598	598
Therms Per Commercial Customer	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	11,001	11,103	11,207	11,311	11,414	11,518	11,622	11,725	11,828	11,931
Commercial Customers	1,324	1,350	1,376	1,401	1,426	1,451	1,476	1,501	1,525	1,550
Industrial Customers	16	16	16	16	16	16	16	17	17	17
Interruptible Customers	3	3	3	3	3	3	4	4	4	4
Total Core Customers	12,343	12,472	12,602	12,731	12,860	12,989	13,117	13,246	13,374	13,501

Wenatchee District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.05%	1.97%	2.22%	1.50%	1.79%	1.74%	2.03%	1.36%	1.65%
Residential Therms	1,295,957	1,312,869	1,330,027	1,353,659	1,364,869	1,382,611	1,400,495	1,425,164	1,436,743	1,455,073
Commercial Therms	4,835,152	4,944,755	5,052,180	5,175,318	5,264,544	5,370,615	5,477,474	5,602,161	5,692,796	5,802,118
Industrial Therms	3,679,166	3,755,463	3,829,079	3,911,979	3,967,435	4,033,870	4,098,067	4,174,639	4,223,423	4,284,094
Ind., Inst., & Cmcl. Interrup. Therms	554,539	564,518	574,496	584,001	593,562	603,110	612,621	622,098	631,965	641,587
Total Core Therms	10,364,812	10,577,606	10,785,782	11,024,957	11,190,410	11,390,205	11,588,657	11,824,061	11,984,928	12,182,871
Daily Baseload Therms	11,244	11,470	11,691	11,906	12,117	12,327	12,533	12,738	12,945	13,150
Peak Day Therms	109,791	112,010	114,182	116,310	118,410	120,499	122,574	124,639	126,720	128,794
Therms Per Residential Customer	499	499	498	500	498	498	497	499	497	496
Therms Per Commercial Customer	4,470	4,475	4,479	4,499	4,489	4,494	4,500	4,519	4,509	4,514
Therms Per Industrial Customer	91,902	92,177	92,428	92,991	92,917	93,138	93,357	93,892	93,800	94,015
Residential Customers	2,598	2,633	2,669	2,705	2,742	2,779	2,817	2,854	2,892	2,931
Commercial Customers	1,082	1,105	1,128	1,150	1,173	1,195	1,217	1,240	1,262	1,285
Industrial Customers	40	41	41	42	43	43	44	44	45	46
Interruptible Customers	7	7	7	8	8	8	8	8	8	8
Total Core Customers	3,727	3,786	3,846	3,905	3,965	4,025	4,086	4,147	4,208	4,270

Yakima District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.49%	1.44%	1.80%	0.93%	1.32%	1.29%	1.69%	0.84%	1.23%
Residential Therms	15,732,752	15,891,507	16,051,209	16,286,402	16,371,886	16,532,955	16,694,132	16,933,707	17,016,417	17,176,556
Commercial Therms	17,714,309	18,073,085	18,425,051	18,851,470	19,116,476	19,460,577	19,804,705	20,235,808	20,497,708	20,845,224
Industrial Therms	5,064,276	5,116,308	5,161,655	5,212,679	5,234,456	5,263,156	5,287,799	5,321,399	5,327,331	5,342,919
Ind., Inst., & Cmcl. Interrup. Therms	1,326,976	1,351,095	1,374,288	1,400,900	1,418,938	1,440,725	1,462,264	1,488,046	1,505,284	1,526,718
Total Core Therms	39,838,313	40,431,994	41,012,202	41,751,451	42,141,755	42,697,412	43,248,900	43,978,960	44,346,740	44,891,416
Daily Baseload Therms	26,306	26,700	27,080	27,446	27,803	28,151	28,493	28,831	29,165	29,495
Peak Day Therms	449,581	456,363	463,011	469,547	476,004	482,419	488,797	495,174	501,524	507,851
Therms Per Residential Customer	613	613	612	615	612	612	612	614	611	611
Therms Per Commercial Customer	3,282	3,281	3,279	3,292	3,277	3,275	3,274	3,286	3,272	3,270
Therms Per Industrial Customer	35,186	35,156	35,127	35,181	35,069	35,041	35,012	35,066	34,956	34,928
Residential Customers	25,678	25,943	26,211	26,479	26,748	27,019	27,289	27,561	27,831	28,100
Commercial Customers	5,397	5,509	5,619	5,727	5,834	5,942	6,049	6,157	6,265	6,374
Industrial Customers	144	146	147	148	149	150	151	152	152	153
Interruptible Customers	20	20	21	21	22	22	22	23	23	24
Total Core Customers	31,239	31,618	31,997	32,376	32,754	33,133	33,512	33,892	34,272	34,651

Central Oregon (Bend) District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		3.19%	3.16%	3.58%	2.65%	3.08%	3.05%	3.48%	2.56%	2.98%
Residential Therms	32,817,598	33,825,340	34,862,723	36,091,297	37,026,723	38,155,046	39,314,102	40,688,132	41,728,539	42,982,960
Commercial Therms	19,908,321	20,627,223	21,353,902	22,190,837	22,849,416	23,622,745	24,406,608	25,315,558	26,017,650	26,843,733
Industrial Therms	2,055,829	2,090,823	2,124,735	2,161,835	2,183,456	2,210,656	2,236,330	2,268,516	2,284,488	2,307,007
Ind., Inst., & Cmcl. Interrup. Therms	992,843	1,013,135	1,032,791	1,053,581	1,070,347	1,088,649	1,106,516	1,126,271	1,141,758	1,159,184
Total Core Therms	55,774,591	57,556,521	59,374,151	61,497,550	63,129,943	65,077,095	67,063,555	69,398,477	71,172,435	73,292,883
Daily Baseload Therms	36,261	37,439	38,638	39,860	41,110	42,389	43,692	45,025	46,384	47,770
Peak Day Therms	693,985	716,006	738,481	761,440	784,934	809,023	833,606	858,773	884,469	910,725
Therms Per Residential Customer	744	744	745	749	746	746	747	751	748	748
Therms Per Commercial Customer	2,847	2,847	2,847	2,860	2,847	2,847	2,848	2,860	2,848	2,848
Therms Per Industrial Customer	25,812	25,804	25,797	25,869	25,779	25,764	25,754	25,818	25,720	25,704
Residential Customers	44,108	45,434	46,798	48,201	49,643	51,126	52,649	54,214	55,820	57,467
Commercial Customers	6,994	7,246	7,501	7,760	8,025	8,296	8,571	8,851	9,135	9,425
Industrial Customers	80	81	82	84	85	86	87	88	89	90
Interruptible Customers	7	8	8	8	8	8	8	8	8	9
Total Core Customers	51,189	52,768	54,389	56,053	57,761	59,516	61,315	63,161	65,052	66,990

Pendleton District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		1.70%	1.65%	1.98%	1.21%	1.56%	1.52%	1.89%	1.12%	1.47%
Residential Therms	4,860,937	4,906,425	4,952,333	5,014,372	5,044,767	5,091,388	5,138,151	5,201,635	5,232,104	5,278,818
Commercial Therms	5,721,874	5,855,565	5,988,392	6,147,828	6,252,548	6,386,503	6,519,387	6,684,784	6,791,191	6,928,271
Industrial Therms	473,919	478,861	483,111	487,765	489,737	492,269	494,632	497,548	497,861	499,211
Ind., Inst., & Cmcl. Interrup. Therms	1,578,007	1,608,496	1,637,829	1,670,153	1,694,121	1,721,962	1,748,007	1,778,498	1,799,861	1,824,972
Total Core Therms	12,634,737	12,849,346	13,061,664	13,320,118	13,481,173	13,692,122	13,900,177	14,162,464	14,321,016	14,531,272
Daily Baseload Therms	11,114	11,317	11,518	11,715	11,911	12,109	12,303	12,498	12,694	12,889
Peak Day Therms	188,449	191,455	194,434	197,383	200,328	203,293	206,217	209,175	212,128	215,076
Therms Per Residential Customer	459	459	459	460	459	459	459	460	459	459
Therms Per Commercial Customer	3,012	3,013	3,013	3,027	3,014	3,015	3,016	3,030	3,017	3,018
Therms Per Industrial Customer	17,272	17,255	17,239	17,262	17,207	17,192	17,176	17,200	17,147	17,132
Residential Customers	10,592	10,691	10,791	10,892	10,993	11,094	11,196	11,299	11,401	11,503
Commercial Customers	1,899	1,944	1,987	2,031	2,074	2,118	2,162	2,206	2,251	2,296
Industrial Customers	27	28	28	28	28	29	29	29	29	29
Interruptible Customers	9	9	9	9	9	9	9	10	10	10
Total Core Customers	12,527	12,671	12,815	12,960	13,105	13,250	13,396	13,543	13,691	13,838

Eastern Oregon (Ontario) District	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		0.67%	0.64%	1.00%	0.11%	0.52%	0.49%	0.91%	0.02%	0.44%
Residential Therms	4,075,470	4,090,998	4,106,341	4,142,514	4,136,715	4,151,745	4,166,495	4,202,260	4,195,378	4,209,211
Commercial Therms	3,967,442	4,003,989	4,038,477	4,088,158	4,096,769	4,124,855	4,150,649	4,196,522	4,200,871	4,225,373
Industrial Therms	233,804	234,216	234,431	234,320	234,188	234,033	233,819	233,618	233,322	232,983
Ind., Inst., & Cmcl. Interrup. Therms	928,275	937,824	946,635	954,338	961,675	968,162	974,274	979,917	984,389	988,779
Total Core Therms	9,204,991	9,267,027	9,325,884	9,419,330	9,429,348	9,478,795	9,525,238	9,612,318	9,613,960	9,656,345
Daily Baseload Therms	3,678	3,696	3,713	3,726	3,739	3,751	3,762	3,772	3,782	3,791
Peak Day Therms	115,944	116,723	117,460	118,127	118,764	119,383	119,968	120,541	121,077	121,603
Therms Per Residential Customer	580	580	580	583	580	580	580	583	580	580
Therms Per Commercial Customer	2,755	2,756	2,757	2,771	2,758	2,759	2,760	2,775	2,762	2,763
Therms Per Industrial Customer	10,230	10,240	10,246	10,248	10,248	10,249	10,249	10,250	10,251	10,250
Residential Customers	7,030	7,057	7,083	7,109	7,135	7,161	7,186	7,211	7,235	7,258
Commercial Customers	1,440	1,453	1,465	1,475	1,485	1,495	1,504	1,512	1,521	1,529
Industrial Customers	23	23	23	23	23	23	23	23	23	23
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,495	8,535	8,573	8,610	8,645	8,680	8,714	8,748	8,780	8,812

Oregon	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.65%	2.62%	3.03%	2.14%	2.57%	2.54%	2.97%	2.08%	2.50%
Residential Therms	41,754,005	42,822,763	43,921,397	45,248,183	46,208,206	47,398,178	48,618,748	50,092,027	51,156,022	52,470,989
Commercial Therms	29,597,637	30,486,777	31,380,770	32,426,823	33,198,734	34,134,103	35,076,644	36,196,864	37,009,711	37,997,376
Industrial Therms	2,763,552	2,803,899	2,842,277	2,883,919	2,907,381	2,936,958	2,964,782	2,999,682	3,015,671	3,039,200
Ind., Inst., & Cmcl. Interrup. Therms	3,499,126	3,559,455	3,617,255	3,678,071	3,726,143	3,778,773	3,828,797	3,884,686	3,926,007	3,972,935
Total Core Therms	77,614,319	79,672,894	81,761,699	84,236,997	86,040,464	88,248,012	90,488,970	93,173,260	95,107,411	97,480,500
Daily Baseload Therms	51,099	52,499	53,916	55,349	56,808	58,297	59,805	61,344	62,908	64,499
Peak Day Therms	998,378	1,024,185	1,050,375	1,076,951	1,104,027	1,131,699	1,159,792	1,188,489	1,217,673	1,247,405
Therms Per Residential Customer	11,110	11,110	11,110	11,155	11,110	11,110	11,110	11,155	11,110	11,110
Therms Per Commercial Customer	62,670	62,670	62,670	62,943	62,670	62,670	62,670	62,943	62,670	62,670
Therms Per Industrial Customer	220,582	220,582	220,582	221,122	220,582	220,582	220,582	221,122	220,582	220,582
Residential Customers	61,731	63,182	64,673	66,202	67,771	69,381	71,031	72,723	74,456	76,228
Commercial Customers	10,333	10,642	10,953	11,266	11,584	11,909	12,236	12,569	12,907	13,250
Industrial Customers	130	132	133	135	136	137	138	140	141	142
Interruptible Customers	18	18	18	19	19	19	20	20	20	20
Total Core Customers	72,212	73,974	75,777	77,622	79,510	81,447	83,425	85,452	87,523	89,639

Washington	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.04%	2.00%	2.40%	1.52%	1.93%	1.91%	2.32%	1.45%	1.86%
Residential Therms	122,509,847	124,651,016	126,829,122	129,622,155	131,291,186	133,575,690	135,894,576	138,869,984	140,633,413	143,045,433
Commercial Therms	87,643,600	89,828,791	91,994,645	94,548,315	96,320,718	98,506,318	100,712,644	103,372,577	105,199,922	107,482,862
Industrial Therms	13,358,987	13,546,767	13,718,281	13,912,578	14,019,399	14,153,958	14,278,605	14,435,700	14,507,425	14,612,619
Ind., Inst., & Cmcl. Interrup. Therms	12,219,453	12,523,105	12,825,963	13,164,706	13,432,708	13,738,818	14,045,950	14,393,435	14,667,362	14,981,371
Total Core Therms	235,731,888	240,549,678	245,368,011	251,247,754	255,064,011	259,974,784	264,931,775	271,071,697	275,008,122	280,122,286
Daily Baseload Therms	183,817	187,667	191,497	195,323	199,158	203,021	206,910	210,830	214,788	218,778
Peak Day Therms	2,624,115	2,677,925	2,731,833	2,785,984	2,840,520	2,895,650	2,951,341	3,007,696	3,064,679	3,122,245
Therms Per Residential Customer	34,918	34,917	34,916	35,048	34,915	34,914	34,913	35,045	34,912	34,912
Therms Per Commercial Customer	138,442	138,425	138,409	138,807	138,380	138,367	138,354	138,755	138,330	138,319
Therms Per Industrial Customer	1,027,260	1,027,131	1,027,012	1,029,236	1,026,799	1,026,701	1,026,610	1,028,857	1,026,440	1,026,361
Residential Customers	185,484	188,695	191,961	195,279	198,649	202,072	205,546	209,072	212,643	216,254
Commercial Customers	26,600	27,267	27,928	28,587	29,247	29,914	30,587	31,267	31,955	32,652
Industrial Customers	458	464	469	474	478	482	486	489	492	495
Interruptible Customers	99	101	103	106	108	111	113	116	118	121
Total Core Customers	212,641	216,527	220,461	224,446	228,483	232,579	236,731	240,945	245,209	249,521

System	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Therms Pct. Growth		2.19%	2.16%	2.55%	1.68%	2.09%	2.07%	2.48%	1.61%	2.02%
Residential Therms	164,263,852	167,473,778	170,750,519	174,870,338	177,499,392	180,973,868	184,513,324	188,962,012	191,789,435	195,516,422
Commercial Therms	117,241,237	120,315,567	123,375,415	126,975,138	129,519,452	132,640,421	135,789,288	139,569,441	142,209,633	145,480,238
Industrial Therms	16,122,540	16,350,666	16,560,558	16,796,498	16,926,780	17,090,916	17,243,387	17,435,383	17,523,096	17,651,819
Ind., Inst., & Cmcl. Interrup. Therms	15,718,579	16,082,560	16,443,217	16,842,778	17,158,852	17,517,591	17,874,746	18,278,121	18,593,369	18,954,306
Total Core Therms	313,346,208	320,222,572	327,129,710	335,484,752	341,104,474	348,222,796	355,420,745	364,244,956	370,115,533	377,602,786
Daily Baseload Therms	234,916	240,166	245,413	250,672	255,966	261,317	266,714	272,174	277,696	283,277
Peak Day Therms	3,622,493	3,702,110	3,782,208	3,862,935	3,944,547	4,027,350	4,111,134	4,196,185	4,282,352	4,369,650
Therms Per Residential Customer	46,027	46,027	46,026	46,203	46,024	46,024	46,023	46,200	46,022	46,021
Therms Per Commercial Customer	201,111	201,094	201,079	201,750	201,050	201,036	201,024	201,697	201,000	200,989
Therms Per Industrial Customer	1,247,843	1,247,714	1,247,594	1,250,357	1,247,381	1,247,283	1,247,192	1,249,979	1,247,022	1,246,943
Residential Customers	247,215	251,877	256,633	261,481	266,419	271,453	276,576	281,796	287,098	292,482
Commercial Customers	36,934	37,910	38,881	39,853	40,832	41,823	42,823	43,837	44,862	45,901
Industrial Customers	588	596	603	609	614	620	624	629	633	637
Interruptible Customers	117	119	122	125	127	130	133	136	138	141
Total Core Customers	284,853	290,502	296,239	302,068	307,993	314,025	320,157	326,397	332,732	339,161

Athena	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.11%	1.57%	0.58%	1.05%	1.03%	1.49%	0.48%	0.93%	0.91%	1.38%
Residential Therms	291,994	295,943	297,056	299,556	301,993	305,811	306,642	308,863	311,013	314,599
Commercial Therms	152,912	155,959	157,486	159,772	162,056	165,145	166,588	168,776	170,975	174,033
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	444,905	451,902	454,542	459,328	464,049	470,956	473,230	477,639	481,988	488,632
Daily Baseload Therms	480	485	490	495	499	504	509	513	518	522
Peak Day Therms	5,433	5,493	5,553	5,612	5,671	5,728	5,785	5,839	5,893	5,946
Therms Per Residential Customer	521	524	521	521	521	524	521	521	521	524
Therms Per Commercial Customer	1,964	1,974	1,964	1,964	1,964	1,974	1,964	1,964	1,964	1,974
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	560	565	570	574	579	584	588	592	596	600
Commercial Customers	78	79	80	81	82	84	85	86	87	88
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	638	644	650	656	662	667	673	678	683	689

Baker	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.62%	1.08%	0.16%	0.56%	0.61%	0.99%	0.03%	0.49%	0.48%	0.90%
Residential Therms	2,227,116	2,245,715	2,242,411	2,249,467	2,256,127	2,272,666	2,267,039	2,271,693	2,275,540	2,289,950
Commercial Therms	1,784,051	1,809,649	1,819,500	1,835,711	1,854,512	1,879,315	1,886,550	1,902,661	1,919,335	1,943,455
Industrial Therms	71,893	71,725	71,613	71,472	71,303	71,162	70,993	70,823	70,681	70,510
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	4,083,059	4,127,088	4,133,524	4,156,650	4,181,942	4,223,144	4,224,582	4,245,177	4,265,555	4,303,915
Daily Baseload Therms	1,770	1,781	1,792	1,803	1,814	1,824	1,833	1,843	1,852	1,861
Peak Day Therms	46,577	46,858	47,142	47,401	47,683	47,926	48,159	48,388	48,614	48,819
Therms Per Residential Customer	655	658	655	655	655	658	655	655	655	658
Therms Per Commercial Customer	3,127	3,141	3,127	3,127	3,127	3,141	3,127	3,127	3,127	3,141
Therms Per Industrial Customer	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523	23,523
Residential Customers	3,402	3,414	3,425	3,436	3,446	3,455	3,463	3,470	3,476	3,481
Commercial Customers	571	576	582	587	593	598	603	609	614	619
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,975	3,993	4,010	4,026	4,042	4,056	4,069	4,081	4,093	4,103

Umatilla	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.08%	1.31%	0.73%	0.91%	0.94%	1.12%	0.60%	0.78%	0.70%	1.03%
Residential Therms	318,810	323,207	324,376	327,131	329,813	334,071	334,932	337,379	339,745	343,755
Commercial Therms	331,609	337,967	341,317	345,713	350,639	356,977	360,142	364,592	368,745	375,163
Industrial Therms	81,760	82,457	83,144	83,833	84,524	85,163	85,793	86,380	86,958	87,581
Ind., Inst., & Cmcl. Interrup. Therms	674,158	681,064	686,248	691,498	696,762	701,949	706,171	710,313	713,632	718,051
Total Core Therms	1,406,337	1,424,695	1,435,085	1,448,175	1,461,737	1,478,161	1,487,038	1,498,664	1,509,080	1,524,550
Daily Baseload Therms	1,398	1,412	1,426	1,439	1,452	1,464	1,477	1,488	1,499	1,510
Peak Day Therms	19,513	19,709	19,907	20,086	20,270	20,435	20,614	20,771	20,911	21,059
Therms Per Residential Customer	274	276	274	274	274	276	274	274	274	276
Therms Per Commercial Customer	1,686	1,694	1,686	1,686	1,686	1,694	1,686	1,686	1,686	1,694
Therms Per Industrial Customer	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970
Residential Customers	1,162	1,172	1,183	1,193	1,202	1,212	1,221	1,230	1,239	1,247
Commercial Customers	197	200	202	205	208	211	214	216	219	222
Industrial Customers	8	8	8	8	8	9	9	9	9	9
Interruptible Customers	2	2	2	2	2	2	2	3	3	3
Total Core Customers	1,370	1,383	1,396	1,409	1,421	1,434	1,446	1,457	1,469	1,480

Chemult	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.58%	0.91%	0.19%	0.53%	0.47%	0.83%	0.09%	0.40%	0.39%	0.68%
Residential Therms	10,653	10,746	10,764	10,818	10,869	10,954	10,962	11,004	11,043	11,117
Commercial Therms	40,854	41,230	41,312	41,536	41,732	42,081	42,123	42,293	42,460	42,751
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	51,506	51,976	52,076	52,355	52,601	53,036	53,085	53,296	53,503	53,868
Daily Baseload Therms	59	59	60	60	60	61	61	61	61	62
Peak Day Therms	630	633	637	640	643	646	649	652	654	656
Therms Per Residential Customer	399	400	399	399	399	400	399	399	399	400
Therms Per Commercial Customer	1,781	1,787	1,781	1,781	1,781	1,787	1,781	1,781	1,781	1,787
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	27	27	27	27	27	27	27	28	28	28
Commercial Customers	23	23	23	23	23	24	24	24	24	24
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	50	50	50	50	51	51	51	51	52	52

Gilchrist	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.42%	0.84%	-0.08%	0.36%	0.29%	0.75%	-0.21%	0.21%	0.18%	0.59%
Residential Therms	102,465	103,464	103,537	104,057	104,547	105,474	105,441	105,845	106,220	107,044
Commercial Therms	136,335	137,351	137,074	137,412	137,624	138,502	138,031	138,133	138,208	138,834
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	238,801	240,815	240,611	241,469	242,171	243,977	243,472	243,978	244,428	245,877
Daily Baseload Therms	105	105	106	106	107	107	107	107	108	108
Peak Day Therms	3,192	3,205	3,217	3,228	3,237	3,247	3,255	3,262	3,268	3,272
Therms Per Residential Customer	527	530	527	527	527	530	527	527	527	530
Therms Per Commercial Customer	3,236	3,251	3,236	3,236	3,236	3,251	3,236	3,236	3,236	3,251
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	194	195	196	197	198	199	200	201	201	202
Commercial Customers	42	42	42	42	43	43	43	43	43	43
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	236	238	239	240	241	242	243	243	244	245

Hermiston	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.51%	1.94%	1.01%	1.45%	1.43%	1.86%	0.91%	1.34%	1.31%	1.76%
Residential Therms	2,579,489	2,614,774	2,624,213	2,646,296	2,667,829	2,701,957	2,708,896	2,728,512	2,747,511	2,779,607
Commercial Therms	3,314,672	3,395,892	3,448,822	3,516,402	3,584,879	3,669,310	3,722,475	3,790,817	3,859,325	3,945,981
Industrial Therms	195,042	195,452	195,791	196,131	196,342	196,553	196,682	196,729	196,741	196,733
Ind., Inst., & Cmcl. Interrup. Therms	362,761	371,004	374,671	380,697	386,652	395,224	398,653	404,490	410,355	418,884
Total Core Therms	6,451,964	6,577,122	6,643,498	6,739,526	6,835,702	6,963,045	7,026,706	7,120,548	7,213,931	7,341,205
Daily Baseload Therms	5,315	5,400	5,486	5,571	5,657	5,743	5,829	5,913	5,998	6,083
Peak Day Therms	85,960	87,179	88,416	89,647	90,877	92,097	93,316	94,512	95,701	96,891
Therms Per Residential Customer	646	649	646	646	646	649	646	646	646	649
Therms Per Commercial Customer	3,623	3,639	3,623	3,623	3,623	3,639	3,623	3,623	3,623	3,639
Therms Per Industrial Customer	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585	22,585
Residential Customers	3,992	4,027	4,061	4,096	4,129	4,161	4,192	4,223	4,252	4,281
Commercial Customers	915	933	952	971	989	1,008	1,027	1,046	1,065	1,084
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	4	4	4	4	4	4	4	4	4	5
Total Core Customers	4,920	4,973	5,026	5,079	5,131	5,182	5,233	5,282	5,331	5,378

Huntington	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.41%	0.99%	-0.12%	0.35%	0.40%	0.92%	-0.29%	0.32%	0.24%	0.80%
Residential Therms	54,039	54,526	54,410	54,582	54,743	55,180	55,008	55,121	55,214	55,600
Commercial Therms	30,709	31,063	31,076	31,202	31,387	31,746	31,665	31,825	31,943	32,256
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	84,748	85,589	85,487	85,784	86,130	86,926	86,673	86,946	87,157	87,855
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	1,315	1,320	1,326	1,331	1,336	1,341	1,344	1,349	1,352	1,355
Therms Per Residential Customer	408	410	408	408	408	410	408	408	408	410
Therms Per Commercial Customer	1,853	1,863	1,853	1,853	1,853	1,863	1,853	1,853	1,853	1,863
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	132	133	133	134	134	134	135	135	135	135
Commercial Customers	17	17	17	17	17	17	17	17	17	17
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	149	150	150	151	151	151	152	152	153	153

La Pine	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	3.25%	3.55%	2.84%	3.15%	3.12%	3.42%	2.71%	3.02%	2.99%	3.30%
Residential Therms	171,376	176,656	182,067	187,612	193,257	199,002	204,851	210,803	216,857	223,017
Commercial Therms	511,588	530,581	545,288	562,672	580,460	601,212	617,043	635,916	655,213	677,855
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	682,963	707,237	727,355	750,284	773,717	800,214	821,894	846,719	872,070	900,872
Daily Baseload Therms	582	600	619	639	659	679	699	721	742	764
Peak Day Therms	8,069	8,328	8,593	8,864	9,141	9,422	9,709	10,002	10,301	10,606
Therms Per Residential Customer	579	579	579	579	579	579	579	579	579	579
Therms Per Commercial Customer	2,645	2,657	2,645	2,645	2,645	2,657	2,645	2,645	2,645	2,657
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	296	305	314	324	334	344	354	364	374	385
Commercial Customers	193	200	206	213	219	226	233	240	248	255
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	489	505	521	537	553	570	587	604	622	640

Madras	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.45%	1.90%	1.01%	1.41%	1.41%	1.80%	0.93%	1.32%	1.26%	1.71%
Residential Therms	704,725	717,872	724,212	733,958	743,578	756,656	762,426	771,607	780,695	793,363
Commercial Therms	1,355,247	1,386,939	1,406,252	1,431,141	1,457,505	1,490,703	1,509,845	1,535,794	1,561,486	1,595,389
Industrial Therms	728,452	734,763	732,977	735,697	737,512	742,965	741,146	742,966	743,876	749,366
Ind., Inst., & Cmcl. Interrup. Therms	357,999	366,648	375,181	383,591	392,064	400,409	408,811	416,888	425,016	433,003
Total Core Therms	3,146,424	3,206,222	3,238,622	3,284,387	3,330,658	3,390,732	3,422,229	3,467,255	3,511,073	3,571,121
Daily Baseload Therms	1,498	1,524	1,550	1,576	1,603	1,630	1,656	1,682	1,708	1,734
Peak Day Therms	41,780	42,385	42,976	43,571	44,169	44,767	45,354	45,936	46,502	47,089
Therms Per Residential Customer	517	520	517	517	517	520	517	517	517	520
Therms Per Commercial Customer	2,887	2,900	2,887	2,887	2,887	2,900	2,887	2,887	2,887	2,900
Therms Per Industrial Customer	38,109	38,297	38,109	38,109	38,109	38,297	38,109	38,109	38,109	38,297
Residential Customers	1,362	1,381	1,399	1,418	1,437	1,455	1,473	1,491	1,509	1,526
Commercial Customers	469	478	487	496	505	514	523	532	541	550
Industrial Customers	19	19	19	19	19	19	19	19	20	20
Interruptible Customers	1	1	1	2	2	2	2	2	2	2
Total Core Customers	1,852	1,879	1,907	1,935	1,963	1,990	2,017	2,044	2,071	2,097

Milton-Freewater	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.50%	1.91%	1.01%	1.45%	1.43%	1.87%	0.94%	1.35%	1.34%	1.79%
Residential Therms	118,441	120,111	120,495	121,509	122,497	124,116	124,383	125,284	126,156	127,683
Commercial Therms	385,107	393,537	398,625	405,487	412,427	421,280	426,388	433,268	440,215	449,272
Industrial Therms	24,709	24,695	24,681	24,667	24,646	24,625	24,600	24,572	24,544	24,516
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	528,257	538,344	543,801	551,663	559,571	570,020	575,371	583,124	590,915	601,471
Daily Baseload Therms	525	533	541	549	558	566	574	582	590	598
Peak Day Therms	6,908	7,005	7,105	7,204	7,303	7,403	7,502	7,600	7,698	7,796
Therms Per Residential Customer	466	469	466	466	466	469	466	466	466	469
Therms Per Commercial Customer	3,056	3,070	3,056	3,056	3,056	3,070	3,056	3,056	3,056	3,070
Therms Per Industrial Customer	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072	4,072
Residential Customers	254	256	258	261	263	265	267	269	270	272
Commercial Customers	126	128	130	133	135	137	140	142	144	146
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	386	390	395	399	404	408	412	416	421	425

Mission Tap	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.83%	2.21%	1.34%	1.76%	1.75%	2.15%	1.25%	1.64%	1.61%	2.04%
Residential Therms	117,562	119,140	119,600	120,607	121,588	123,112	123,460	124,354	125,220	126,650
Commercial Therms	459,008	470,175	477,583	487,111	496,767	508,558	516,099	525,677	535,288	547,321
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	576,570	589,315	597,184	607,718	618,355	631,670	639,559	650,031	660,507	673,971
Daily Baseload Therms	610	621	632	644	655	667	678	690	701	713
Peak Day Therms	6,894	7,014	7,137	7,262	7,387	7,512	7,638	7,761	7,885	8,009
Therms Per Residential Customer	495	497	495	495	495	497	495	495	495	497
Therms Per Commercial Customer	8,334	8,370	8,334	8,334	8,334	8,370	8,334	8,334	8,334	8,370
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	237	240	242	244	246	248	249	251	253	255
Commercial Customers	55	56	57	58	60	61	62	63	64	65
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	293	296	299	302	305	308	311	314	317	320

Nyssa-Ontario	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.25%	0.63%	-0.22%	0.16%	0.13%	0.48%	-0.37%	0.01%	0.01%	0.39%
Residential Therms	1,941,212	1,956,377	1,950,646	1,954,949	1,958,599	1,972,082	1,964,126	1,965,907	1,967,126	1,978,302
Commercial Therms	2,433,657	2,450,571	2,442,287	2,445,242	2,447,612	2,461,014	2,448,791	2,448,533	2,448,644	2,460,365
Industrial Therms	160,786	160,527	160,252	159,946	159,646	159,308	158,961	158,598	158,210	157,852
Ind., Inst., & Cmcl. Interrup. Therms	991,987	995,199	997,131	999,064	1,000,293	1,000,632	1,000,570	1,000,017	999,421	998,557
Total Core Therms	5,527,642	5,562,674	5,550,317	5,559,200	5,566,150	5,593,036	5,572,448	5,573,054	5,573,400	5,595,076
Daily Baseload Therms	2,078	2,075	2,071	2,067	2,063	2,058	2,052	2,047	2,041	2,036
Peak Day Therms	74,196	74,377	74,530	74,663	74,768	74,833	74,873	74,891	74,904	74,896
Therms Per Residential Customer	518	521	518	518	518	521	518	518	518	521
Therms Per Commercial Customer	2,563	2,576	2,563	2,563	2,563	2,576	2,563	2,563	2,563	2,576
Therms Per Industrial Customer	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186	8,186
Residential Customers	3,746	3,756	3,765	3,773	3,780	3,786	3,791	3,794	3,797	3,798
Commercial Customers	950	951	953	954	955	956	956	956	956	955
Industrial Customers	20	20	20	20	20	19	19	19	19	19
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	4,718	4,729	4,739	4,749	4,757	4,763	4,768	4,771	4,773	4,774

Pendleton	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.48%	1.70%	1.18%	1.41%	1.39%	1.62%	1.07%	1.29%	1.27%	1.51%
Residential Therms	1,899,084	1,915,592	1,932,011	1,948,268	1,964,122	1,979,462	1,994,356	2,008,798	2,022,785	2,036,349
Commercial Therms	2,424,594	2,485,264	2,523,671	2,573,764	2,624,398	2,687,801	2,726,304	2,776,843	2,827,551	2,892,556
Industrial Therms	198,939	199,938	198,714	198,601	198,432	199,370	198,064	197,838	197,611	198,488
Ind., Inst., & Cmcl. Interrup. Therms	812,511	824,995	835,527	846,808	857,711	869,270	878,705	888,626	898,471	908,984
Total Core Therms	5,335,127	5,425,790	5,489,923	5,567,441	5,644,662	5,735,904	5,797,429	5,872,104	5,946,419	6,036,377
Daily Baseload Therms	4,757	4,828	4,899	4,970	5,040	5,110	5,179	5,246	5,313	5,380
Peak Day Therms	93,334	94,568	95,813	97,051	98,279	99,492	100,695	101,872	103,038	104,198
Therms Per Residential Customer	352	352	352	352	352	352	352	352	352	352
Therms Per Commercial Customer	2,497	2,509	2,497	2,497	2,497	2,509	2,497	2,497	2,497	2,509
Therms Per Industrial Customer	31,415	31,591	31,415	31,415	31,415	31,591	31,415	31,415	31,415	31,591
Residential Customers	5,399	5,446	5,492	5,538	5,583	5,627	5,669	5,710	5,750	5,789
Commercial Customers	971	991	1,011	1,031	1,051	1,071	1,092	1,112	1,133	1,153
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	6,380	6,446	6,513	6,579	6,645	6,709	6,772	6,833	6,893	6,952

Prineville	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.23%	1.67%	0.78%	1.13%	1.17%	1.61%	0.67%	1.10%	1.06%	1.51%
Residential Therms	1,290,156	1,306,985	1,311,005	1,321,129	1,330,934	1,346,859	1,349,320	1,357,895	1,366,141	1,380,659
Commercial Therms	1,678,006	1,712,842	1,732,338	1,757,574	1,784,028	1,819,732	1,837,884	1,864,525	1,890,132	1,925,317
Industrial Therms	618,152	628,204	635,169	643,298	652,404	663,160	670,284	679,283	688,655	700,040
Ind., Inst., & Cmcl. Interrup. Therms	132,830	133,194	132,253	131,892	131,601	131,883	130,873	130,508	130,141	130,411
Total Core Therms	3,719,144	3,781,225	3,810,765	3,853,892	3,898,968	3,961,634	3,988,362	4,032,212	4,075,070	4,136,427
Daily Baseload Therms	1,582	1,604	1,626	1,646	1,668	1,690	1,711	1,733	1,754	1,775
Peak Day Therms	50,825	51,436	52,059	52,640	53,247	53,854	54,449	55,039	55,615	56,194
Therms Per Residential Customer	500	502	500	500	500	502	500	500	500	502
Therms Per Commercial Customer	2,672	2,685	2,672	2,672	2,672	2,685	2,672	2,672	2,672	2,685
Therms Per Industrial Customer	17,698	17,747	17,698	17,698	17,698	17,747	17,698	17,698	17,698	17,747
Residential Customers	2,581	2,602	2,622	2,643	2,662	2,681	2,699	2,716	2,733	2,748
Commercial Customers	628	638	648	658	668	678	688	698	707	717
Industrial Customers	35	35	36	36	37	37	38	38	39	39
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	3,246	3,277	3,309	3,339	3,369	3,398	3,427	3,454	3,481	3,507

Redmond	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	3.06%	3.50%	2.56%	2.99%	2.97%	3.39%	2.44%	2.88%	2.85%	3.29%
Residential Therms	5,877,599	6,086,763	6,244,268	6,434,443	6,628,054	6,856,714	7,025,694	7,229,818	7,437,444	7,684,170
Commercial Therms	4,609,145	4,786,600	4,923,840	5,086,521	5,253,212	5,448,309	5,597,075	5,774,971	5,957,243	6,171,842
Industrial Therms	608,266	617,802	623,170	630,400	637,698	647,057	652,032	659,104	666,262	675,484
Ind., Inst., & Cmcl. Interrup. Therms	263,858	264,788	265,595	266,279	266,963	267,586	268,084	268,521	268,957	269,269
Total Core Therms	11,358,869	11,755,953	12,056,873	12,417,643	12,785,927	13,219,667	13,542,885	13,932,415	14,329,908	14,800,765
Daily Baseload Therms	6,468	6,640	6,816	6,995	7,177	7,363	7,551	7,743	7,939	8,137
Peak Day Therms	147,656	152,233	156,920	161,712	166,605	171,587	176,666	181,845	187,130	192,515
Therms Per Residential Customer	612	615	612	612	612	615	612	612	612	615
Therms Per Commercial Customer	2,636	2,648	2,636	2,636	2,636	2,648	2,636	2,636	2,636	2,648
Therms Per Industrial Customer	38,749	38,877	38,749	38,749	38,749	38,877	38,749	38,749	38,749	38,877
Residential Customers	9,598	9,893	10,197	10,507	10,823	11,145	11,473	11,806	12,145	12,490
Commercial Customers	1,748	1,807	1,868	1,930	1,993	2,057	2,123	2,191	2,260	2,330
Industrial Customers	16	16	16	16	16	17	17	17	17	17
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	11,363	11,718	12,082	12,454	12,834	13,220	13,614	14,015	14,423	14,839

Stanfield	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.16%	1.28%	0.95%	1.10%	1.08%	1.21%	0.85%	0.97%	0.95%	1.10%
Residential Therms	136,588	137,776	138,957	140,126	141,266	142,369	143,441	144,479	145,485	146,461
Commercial Therms	83,644	85,284	86,232	87,530	88,838	90,518	91,414	92,656	93,907	95,557
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	220,232	223,059	225,189	227,656	230,104	232,887	234,855	237,136	239,393	242,018
Daily Baseload Therms	281	285	288	291	294	297	300	303	305	308
Peak Day Therms	3,365	3,401	3,438	3,474	3,510	3,546	3,580	3,614	3,647	3,679
Therms Per Residential Customer	400	400	400	400	400	400	400	400	400	400
Therms Per Commercial Customer	1,937	1,945	1,937	1,937	1,937	1,945	1,937	1,937	1,937	1,945
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	342	345	348	351	354	356	359	362	364	367
Commercial Customers	43	44	45	45	46	47	47	48	48	49
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	385	389	392	396	399	403	406	409	413	416

Stearns (Sunriver)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	3.13%	3.55%	2.64%	3.06%	3.03%	3.43%	2.51%	2.92%	2.89%	3.30%
Residential Therms	4,898,223	5,072,317	5,203,795	5,362,281	5,523,631	5,713,945	5,855,013	6,025,124	6,198,154	6,403,494
Commercial Therms	1,626,253	1,684,262	1,731,441	1,785,608	1,840,964	1,904,040	1,954,542	2,013,043	2,072,810	2,141,129
Industrial Therms	21,312	21,567	21,820	22,067	22,318	22,566	22,807	23,048	23,289	23,521
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	6,545,789	6,778,146	6,957,056	7,169,956	7,386,913	7,640,551	7,832,361	8,061,215	8,294,252	8,568,144
Daily Baseload Therms	5,446	5,617	5,791	5,970	6,152	6,337	6,526	6,718	6,914	7,113
Peak Day Therms	75,745	78,088	80,490	82,948	85,451	87,999	90,593	93,234	95,922	98,656
Therms Per Residential Customer	957	962	957	957	957	962	957	957	957	962
Therms Per Commercial Customer	4,833	4,850	4,833	4,833	4,833	4,850	4,833	4,833	4,833	4,850
Therms Per Industrial Customer	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886	5,886
Residential Customers	5,117	5,275	5,436	5,602	5,770	5,942	6,117	6,294	6,475	6,659
Commercial Customers	337	347	358	369	381	393	404	417	429	441
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	5,457	5,626	5,798	5,975	6,155	6,338	6,525	6,715	6,908	7,104

Pronghorn	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	3.20%	3.58%	2.75%	3.12%	3.09%	3.46%	2.62%	2.99%	2.96%	3.33%
Residential Therms	429,198	444,217	455,973	469,860	483,998	500,408	513,035	527,940	543,102	560,797
Commercial Therms	315,531	327,155	336,617	347,498	358,630	371,335	381,530	393,348	405,437	419,293
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	744,729	771,372	792,590	817,358	842,628	871,744	894,564	921,289	948,539	980,090
Daily Baseload Therms	1,003	1,035	1,067	1,101	1,135	1,170	1,205	1,242	1,279	1,316
Peak Day Therms	7,120	7,345	7,575	7,811	8,051	8,296	8,546	8,800	9,059	9,323
Therms Per Residential Customer	1,503	1,509	1,503	1,503	1,503	1,509	1,503	1,503	1,503	1,509
Therms Per Commercial Customer	8,544	8,576	8,544	8,544	8,544	8,576	8,544	8,544	8,544	8,576
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	286	294	303	313	322	332	341	351	361	372
Commercial Customers	37	38	39	41	42	43	45	46	47	49
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	323	333	343	353	364	375	386	397	409	421

Bend Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	3.15%	3.58%	2.65%	3.08%	3.05%	3.46%	2.53%	2.95%	2.92%	3.35%
Residential Therms	30,647,373	31,733,572	32,559,283	33,550,903	34,560,444	35,747,744	36,633,846	37,698,203	38,780,822	40,061,714
Commercial Therms	17,326,714	17,973,269	18,477,300	19,070,814	19,678,310	20,385,877	20,930,003	21,576,720	22,239,324	23,015,166
Industrial Therms	353,484	356,157	358,726	361,173	363,652	366,076	368,375	370,630	372,907	375,044
Ind., Inst., & Cmcl. Interrup. Therms	421,783	431,256	438,106	446,464	455,088	465,363	472,888	482,096	491,609	502,869
Total Core Therms	48,749,354	50,494,254	51,833,415	53,429,354	55,057,495	56,965,060	58,405,112	60,127,649	61,884,662	63,954,794
Daily Baseload Therms	32,161	33,162	34,186	35,233	36,302	37,390	38,500	39,632	40,787	41,963
Peak Day Therms	599,154	617,888	637,075	656,701	676,720	697,104	717,879	739,055	760,651	782,647
Therms Per Residential Customer	779	782	779	779	779	782	779	779	779	782
Therms Per Commercial Customer	2,795	2,808	2,795	2,795	2,795	2,808	2,795	2,795	2,795	2,808
Therms Per Industrial Customer	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391	20,391
Residential Customers	39,352	40,564	41,807	43,080	44,376	45,695	47,038	48,405	49,795	51,210
Commercial Customers	6,198	6,402	6,610	6,822	7,039	7,261	7,487	7,718	7,955	8,197
Industrial Customers	17	17	18	18	18	18	18	18	18	18
Interruptible Customers	4	4	4	4	4	4	5	5	5	5
Total Core Customers	45,571	46,987	48,438	49,924	51,438	52,979	54,548	56,146	57,774	59,430

McCleary (Aberdeen/Hoquiam)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.97%	1.38%	0.50%	0.92%	0.88%	1.30%	0.39%	0.81%	0.78%	1.17%
Residential Therms	2,756,490	2,788,420	2,794,554	2,813,211	2,831,137	2,861,473	2,864,832	2,880,536	2,895,601	2,923,399
Commercial Therms	2,858,854	2,905,595	2,927,477	2,962,250	2,996,106	3,043,456	3,063,796	3,097,251	3,130,677	3,176,765
Industrial Therms	226,237	226,704	225,260	224,726	224,166	224,546	223,008	222,435	221,821	222,126
Ind., Inst., & Cmcl. Interrup. Therms	1,109,656	1,126,301	1,135,280	1,147,278	1,158,808	1,174,250	1,180,937	1,191,406	1,201,508	1,214,804
Total Core Therms	6,951,236	7,047,020	7,082,571	7,147,465	7,210,218	7,303,725	7,332,573	7,391,628	7,449,607	7,537,093
Daily Baseload Therms	6,866	6,935	7,003	7,070	7,134	7,199	7,260	7,321	7,381	7,437
Peak Day Therms	61,494	62,053	62,610	63,165	63,702	64,235	64,748	65,254	65,751	66,228
Therms Per Residential Customer	724	727	724	724	724	727	724	724	724	727
Therms Per Commercial Customer	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312
Therms Per Industrial Customer	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247
Residential Customers	3,810	3,836	3,862	3,888	3,913	3,937	3,959	3,981	4,002	4,022
Commercial Customers	867	877	888	898	908	919	929	939	949	959
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	4	4	4	4	4	4	5	5	5	5
Total Core Customers	4,695	4,732	4,768	4,805	4,840	4,874	4,907	4,938	4,969	4,999

Acme	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.97%	2.44%	1.45%	1.91%	1.88%	2.33%	1.34%	1.79%	1.76%	2.21%
Residential Therms	62,906	64,417	65,340	66,579	67,821	69,391	70,314	71,563	72,815	74,419
Commercial Therms	45,757	46,894	47,585	48,503	49,425	50,587	51,270	52,192	53,120	54,304
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	108,662	111,311	112,924	115,082	117,246	119,979	121,584	123,755	125,935	128,723
Daily Baseload Therms	43	44	45	46	46	47	48	49	50	51
Peak Day Therms	1,229	1,253	1,278	1,302	1,327	1,351	1,376	1,400	1,425	1,450
Therms Per Residential Customer	754	757	754	754	754	757	754	754	754	757
Therms Per Commercial Customer	3,878	3,897	3,878	3,878	3,878	3,897	3,878	3,878	3,878	3,897
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	83	85	87	88	90	92	93	95	97	98
Commercial Customers	12	12	12	13	13	13	13	13	14	14
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	95	97	99	101	103	105	106	108	110	112

Arlington	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.71%	2.09%	1.27%	1.65%	1.63%	2.01%	1.17%	1.55%	1.53%	1.92%
Residential Therms	4,245,498	4,340,655	4,401,464	4,480,740	4,560,057	4,658,289	4,718,732	4,798,076	4,877,407	4,977,018
Commercial Therms	2,379,673	2,427,234	2,456,044	2,494,257	2,532,698	2,581,215	2,609,796	2,648,500	2,687,491	2,737,210
Industrial Therms	374,401	378,289	379,269	381,504	383,645	387,107	387,651	389,540	391,363	394,578
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	6,999,572	7,146,178	7,236,777	7,356,500	7,476,400	7,626,610	7,716,178	7,836,117	7,956,260	8,108,806
Daily Baseload Therms	8,169	8,305	8,443	8,581	8,719	8,857	8,996	9,134	9,272	9,411
Peak Day Therms	66,326	67,447	68,577	69,713	70,851	71,988	73,126	74,264	75,404	76,545
Therms Per Residential Customer	731	734	731	731	731	734	731	731	731	734
Therms Per Commercial Customer	3,389	3,402	3,389	3,389	3,389	3,402	3,389	3,389	3,389	3,402
Therms Per Industrial Customer	11,772	11,816	11,772	11,772	11,772	11,816	11,772	11,772	11,772	11,816
Residential Customers	5,809	5,915	6,022	6,131	6,239	6,348	6,457	6,565	6,674	6,782
Commercial Customers	702	714	725	736	747	759	770	782	793	805
Industrial Customers	32	32	32	32	33	33	33	33	33	33
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	6,543	6,661	6,779	6,899	7,019	7,139	7,260	7,380	7,500	7,620

Bremerton (Shelton)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.88%	2.28%	1.42%	1.81%	1.79%	2.17%	1.30%	1.69%	1.66%	2.05%
Residential Therms	25,751,935	26,295,776	26,606,436	27,038,937	27,470,359	28,026,306	28,328,300	28,754,852	29,179,792	29,737,495
Commercial Therms	14,061,434	14,423,871	14,670,378	14,976,293	15,287,940	15,665,193	15,913,057	16,226,671	16,542,493	16,930,463
Industrial Therms	367,934	373,116	378,313	383,385	388,564	393,795	398,955	404,166	409,428	414,632
Ind., Inst., & Cmcl. Interrup. Therms	3,183,825	3,259,495	3,325,550	3,396,154	3,466,412	3,541,524	3,604,994	3,673,033	3,740,358	3,812,772
Total Core Therms	43,365,128	44,352,257	44,980,677	45,794,768	46,613,274	47,626,818	48,245,305	49,058,723	49,872,071	50,895,362
Daily Baseload Therms	33,763	34,419	35,082	35,746	36,415	37,082	37,749	38,413	39,078	39,743
Peak Day Therms	431,835	439,772	447,793	455,836	463,916	471,975	480,023	488,048	496,069	504,083
Therms Per Residential Customer	675	678	675	675	675	678	675	675	675	678
Therms Per Commercial Customer	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	38,159	38,789	39,425	40,066	40,705	41,342	41,977	42,609	43,239	43,866
Commercial Customers	3,888	3,972	4,056	4,141	4,227	4,313	4,400	4,487	4,574	4,662
Industrial Customers	19	20	20	20	20	21	21	21	21	22
Interruptible Customers	13	14	14	14	14	15	15	15	16	16
Total Core Customers	42,080	42,794	43,515	44,241	44,967	45,691	46,413	47,132	47,850	48,565

Castle Rock	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.67%	1.92%	1.33%	1.60%	1.56%	1.83%	1.19%	1.47%	1.42%	1.69%
Residential Therms	35,070	35,429	35,785	36,139	36,483	36,818	37,143	37,459	37,766	38,063
Commercial Therms	155,885	159,189	161,428	164,226	167,001	170,388	172,535	175,306	178,022	181,373
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	190,955	194,618	197,213	200,365	203,484	207,205	209,678	212,765	215,788	219,436
Daily Baseload Therms	218	222	226	230	234	238	241	245	249	253
Peak Day Therms	1,864	1,893	1,922	1,952	1,981	2,010	2,039	2,068	2,096	2,124
Therms Per Residential Customer	472	472	472	472	472	472	472	472	472	472
Therms Per Commercial Customer	2,506	2,514	2,506	2,506	2,506	2,514	2,506	2,506	2,506	2,514
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	74	75	76	76	77	78	79	79	80	81
Commercial Customers	62	63	64	66	67	68	69	70	71	72
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	136	138	140	142	144	146	147	149	151	153

Walla Walla	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.30%	1.74%	0.77%	1.22%	1.17%	1.61%	0.63%	1.06%	1.03%	1.45%
Residential Therms	7,195,546	7,291,326	7,314,492	7,372,867	7,429,209	7,520,522	7,535,393	7,585,369	7,633,248	7,717,347
Commercial Therms	5,207,785	5,313,149	5,367,726	5,447,054	5,524,884	5,628,875	5,678,108	5,752,694	5,826,937	5,925,990
Industrial Therms	92,862	93,179	93,463	93,712	93,928	94,142	94,290	94,467	94,581	94,695
Ind., Inst., & Cmcl. Interrup. Therms	2,257,161	2,312,854	2,350,281	2,396,177	2,441,088	2,495,221	2,530,034	2,572,705	2,615,041	2,666,865
Total Core Therms	14,753,354	15,010,508	15,125,962	15,309,811	15,489,109	15,738,761	15,837,825	16,005,235	16,169,807	16,404,896
Daily Baseload Therms	14,072	14,266	14,458	14,648	14,833	15,017	15,196	15,370	15,542	15,708
Peak Day Therms	200,789	203,215	205,614	207,994	210,313	212,594	214,813	216,973	219,092	221,135
Therms Per Residential Customer	598	601	598	598	598	601	598	598	598	601
Therms Per Commercial Customer	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	12,032	12,132	12,231	12,328	12,423	12,513	12,600	12,684	12,764	12,841
Commercial Customers	1,574	1,598	1,623	1,646	1,670	1,693	1,716	1,739	1,761	1,783
Industrial Customers	17	17	17	17	17	17	17	17	17	17
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	13,627	13,751	13,874	13,996	14,114	14,228	14,338	14,444	14,547	14,645

Deming	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	4.02%	4.50%	3.51%	3.93%	3.89%	4.33%	3.31%	3.73%	3.67%	4.11%
Residential Therms	16,662	17,064	17,307	17,635	17,964	18,382	18,625	18,955	19,287	19,714
Commercial Therms	102,164	106,006	109,068	112,644	116,297	120,498	123,784	127,629	131,542	136,060
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	122,515	129,120	134,659	141,004	147,578	155,161	161,365	168,514	175,837	184,325
Total Core Therms	241,341	252,190	261,034	271,283	281,840	294,041	303,773	315,098	326,666	340,099
Daily Baseload Therms	146	151	156	161	167	172	178	184	190	195
Peak Day Therms	2,616	2,724	2,836	2,950	3,068	3,190	3,314	3,441	3,571	3,704
Therms Per Residential Customer	527	530	527	527	527	530	527	527	527	530
Therms Per Commercial Customer	5,690	5,713	5,690	5,690	5,690	5,713	5,690	5,690	5,690	5,713
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	32	32	33	33	34	35	35	36	37	37
Commercial Customers	18	19	19	20	20	21	22	22	23	24
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	2	2	2	2	2	2	2	2	3	3
Total Core Customers	51	53	54	55	57	58	59	61	62	64

Wenatchee	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.96%	2.32%	1.52%	1.87%	1.87%	2.22%	1.41%	1.77%	1.74%	2.11%
Residential Therms	752,438	768,314	777,229	789,754	802,251	818,448	827,054	839,374	851,631	867,833
Commercial Therms	4,407,910	4,517,455	4,589,596	4,680,626	4,773,429	4,886,925	4,959,228	5,052,322	5,146,052	5,262,458
Industrial Therms	401,716	406,866	411,950	416,869	421,835	426,709	431,535	436,275	440,971	445,575
Ind., Inst., & Cmcl. Interrup. Therms	270,043	274,717	279,469	284,196	289,052	293,910	298,820	303,757	308,747	313,765
Total Core Therms	5,832,108	5,967,353	6,058,243	6,171,446	6,286,567	6,425,992	6,516,637	6,631,729	6,747,401	6,889,631
Daily Baseload Therms	5,666	5,776	5,887	5,997	6,109	6,222	6,334	6,447	6,560	6,673
Peak Day Therms	60,235	61,384	62,545	63,702	64,877	66,049	67,226	68,401	69,582	70,763
Therms Per Residential Customer	443	445	443	443	443	445	443	443	443	445
Therms Per Commercial Customer	4,889	4,910	4,889	4,889	4,889	4,910	4,889	4,889	4,889	4,910
Therms Per Industrial Customer	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936	22,936
Residential Customers	1,698	1,726	1,754	1,782	1,810	1,838	1,866	1,894	1,922	1,949
Commercial Customers	902	920	939	957	976	995	1,014	1,033	1,053	1,072
Industrial Customers	18	18	18	18	18	19	19	19	19	19
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	2,621	2,668	2,715	2,762	2,809	2,857	2,904	2,951	2,998	3,045

Finley	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.63%	3.12%	2.01%	2.50%	2.45%	2.97%	1.85%	2.34%	2.31%	2.81%
Residential Therms	18,243	18,798	19,167	19,641	20,120	20,710	21,092	21,585	22,082	22,702
Commercial Therms	117,885	121,585	124,037	127,149	130,274	134,144	136,620	139,820	143,044	147,059
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	136,129	140,383	143,204	146,790	150,394	154,854	157,712	161,405	165,126	169,761
Daily Baseload Therms	53	54	55	57	58	60	61	62	64	65
Peak Day Therms	2,327	2,387	2,448	2,509	2,570	2,633	2,695	2,759	2,822	2,886
Therms Per Residential Customer	520	523	520	520	520	523	520	520	520	523
Therms Per Commercial Customer	6,295	6,328	6,295	6,295	6,295	6,328	6,295	6,295	6,295	6,328
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	35	36	37	38	39	40	41	42	42	43
Commercial Customers	19	19	20	20	21	21	22	22	23	23
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	54	55	57	58	59	61	62	64	65	67

Grandview	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.10%	1.07%	1.05%	1.03%	1.00%	0.97%	0.94%	0.92%	0.89%	0.86%
Residential Therms	761,124	767,804	774,418	780,957	787,283	793,386	799,276	804,948	810,403	815,659
Commercial Therms	989,532	1,006,058	1,022,576	1,039,069	1,055,542	1,071,863	1,088,053	1,104,125	1,120,184	1,135,948
Industrial Therms	770,927	774,780	778,455	781,923	785,156	788,235	791,171	793,962	796,544	798,980
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	2,521,583	2,548,642	2,575,449	2,601,949	2,627,981	2,653,484	2,678,500	2,703,036	2,727,131	2,750,586
Daily Baseload Therms	1,705	1,719	1,732	1,746	1,759	1,772	1,784	1,796	1,808	1,820
Peak Day Therms	30,150	30,516	30,881	31,243	31,601	31,952	32,297	32,636	32,971	33,298
Therms Per Residential Customer	714	714	714	714	714	714	714	714	714	714
Therms Per Commercial Customer	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234
Therms Per Industrial Customer	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682	86,682
Residential Customers	1,066	1,075	1,084	1,093	1,102	1,111	1,119	1,127	1,135	1,142
Commercial Customers	234	238	242	245	249	253	257	261	265	268
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	1,308	1,322	1,335	1,348	1,361	1,373	1,385	1,397	1,408	1,420

Zillah (Toppenish)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.31%	1.71%	0.85%	1.24%	1.21%	1.60%	0.73%	1.11%	1.08%	1.47%
Residential Therms	1,149,418	1,165,240	1,169,494	1,179,369	1,188,923	1,204,064	1,207,034	1,215,598	1,223,837	1,237,866
Commercial Therms	2,460,174	2,512,913	2,542,574	2,583,587	2,624,445	2,677,110	2,704,832	2,744,409	2,783,783	2,835,375
Industrial Therms	456,471	457,691	458,783	459,749	460,583	461,300	461,934	462,488	462,915	463,256
Ind., Inst., & Cmcl. Interrup. Therms	56,714	57,386	58,051	58,706	59,347	59,986	60,614	61,232	61,839	62,434
Total Core Therms	4,122,776	4,193,229	4,228,902	4,281,412	4,333,298	4,402,460	4,434,413	4,483,727	4,532,374	4,598,930
Daily Baseload Therms	3,470	3,506	3,541	3,576	3,611	3,644	3,677	3,710	3,741	3,772
Peak Day Therms	48,895	49,505	50,112	50,713	51,307	51,890	52,463	53,026	53,580	54,121
Therms Per Residential Customer	538	541	538	538	538	541	538	538	538	541
Therms Per Commercial Customer	3,861	3,879	3,861	3,861	3,861	3,879	3,861	3,861	3,861	3,879
Therms Per Industrial Customer	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025	19,025
Residential Customers	2,136	2,154	2,173	2,191	2,209	2,226	2,243	2,259	2,274	2,289
Commercial Customers	637	648	659	669	680	690	701	711	721	731
Industrial Customers	24	24	24	24	24	24	24	24	24	24
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,798	2,828	2,857	2,886	2,914	2,942	2,969	2,995	3,021	3,045

Kalama #2	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.44%	0.56%	0.28%	0.40%	0.39%	0.51%	0.22%	0.35%	0.33%	0.45%
Residential Therms	225,694	228,000	230,293	232,570	234,784	236,937	239,033	241,067	243,040	244,953
Commercial Therms	204,652	206,649	206,864	207,932	209,017	210,971	211,083	212,116	213,095	215,007
Industrial Therms	230,471	229,868	229,247	228,589	227,929	227,233	226,535	225,817	225,079	224,321
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	660,816	664,517	666,404	669,091	671,730	675,142	676,651	679,000	681,213	684,280
Daily Baseload Therms	1,138	1,140	1,142	1,143	1,145	1,147	1,148	1,149	1,150	1,151
Peak Day Therms	5,992	6,025	6,057	6,088	6,119	6,148	6,177	6,205	6,231	6,257
Therms Per Residential Customer	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169
Therms Per Commercial Customer	3,961	3,978	3,961	3,961	3,961	3,978	3,961	3,961	3,961	3,978
Therms Per Industrial Customer	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719	76,719
Residential Customers	193	195	197	199	201	203	204	206	208	210
Commercial Customers	52	52	52	52	53	53	53	54	54	54
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	248	250	252	254	257	259	261	263	265	266

Lawrence	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.00%	2.47%	1.49%	1.95%	1.93%	2.37%	1.39%	1.84%	1.82%	2.26%
Residential Therms	54,804	56,113	56,924	58,004	59,086	60,446	61,258	62,346	63,437	64,826
Commercial Therms	26,742	27,454	27,894	28,478	29,069	29,813	30,261	30,863	31,474	32,246
Industrial Therms	801	810	819	827	835	843	851	858	865	871
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	82,347	84,377	85,637	87,309	88,991	91,102	92,370	94,067	95,775	97,943
Daily Baseload Therms	39	40	41	41	42	43	44	44	45	46
Peak Day Therms	934	953	972	991	1,010	1,029	1,049	1,068	1,088	1,107
Therms Per Residential Customer	720	724	720	720	720	724	720	720	720	724
Therms Per Commercial Customer	1,189	1,195	1,189	1,189	1,189	1,195	1,189	1,189	1,189	1,195
Therms Per Industrial Customer	671	671	671	671	671	671	671	671	671	671
Residential Customers	76	78	79	81	82	84	85	87	88	90
Commercial Customers	22	23	23	24	24	25	25	26	26	27
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	100	102	104	106	108	110	112	114	116	118

Moxee (Beauchene)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.30%	1.37%	1.19%	1.26%	1.24%	1.31%	1.11%	1.19%	1.17%	1.25%
Residential Therms	368,837	374,034	376,066	379,685	383,252	388,426	390,225	393,630	396,982	402,019
Commercial Therms	708,586	719,442	730,400	741,446	752,477	763,585	774,557	785,751	796,840	808,132
Industrial Therms	329,205	332,786	336,351	339,867	343,394	346,870	350,342	353,762	357,167	360,563
Ind., Inst., & Cmcl. Interrup. Therms	374,248	379,061	383,948	388,769	393,640	398,491	403,318	408,149	412,978	417,830
Total Core Therms	1,780,877	1,805,323	1,826,766	1,849,767	1,872,763	1,897,372	1,918,441	1,941,292	1,963,967	1,988,544
Daily Baseload Therms	843	857	872	887	902	916	931	946	961	975
Peak Day Therms	17,326	17,621	17,919	18,216	18,514	18,811	19,105	19,401	19,695	19,991
Therms Per Residential Customer	194	194	193	192	192	192	191	191	190	191
Therms Per Commercial Customer	1,331	1,324	1,318	1,311	1,305	1,299	1,294	1,288	1,283	1,278
Therms Per Industrial Customer	18,430	18,359	18,290	18,224	18,159	18,098	18,038	17,980	17,924	17,870
Residential Customers	1,902	1,926	1,949	1,973	1,996	2,019	2,042	2,064	2,086	2,108
Commercial Customers	532	543	554	565	577	588	599	610	621	632
Industrial Customers	18	18	18	19	19	19	19	20	20	20
Interruptible Customers	6	6	6	6	6	7	7	7	7	7
Total Core Customers	2,459	2,493	2,528	2,563	2,598	2,633	2,667	2,700	2,734	2,767

Othello	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.89%	1.06%	0.71%	0.85%	0.82%	0.96%	0.60%	0.76%	0.72%	0.88%
Residential Therms	670,165	678,598	680,153	685,070	689,855	697,910	698,788	703,028	707,083	714,537
Commercial Therms	801,827	808,573	815,352	821,960	828,122	834,182	840,190	846,342	851,919	857,266
Industrial Therms	212,300	213,519	214,786	215,851	216,827	217,827	218,715	219,627	220,427	221,341
Ind., Inst., & Cmcl. Interrup. Therms	256,498	260,666	264,933	269,136	273,452	277,680	282,089	286,339	290,773	295,239
Total Core Therms	1,940,790	1,961,356	1,975,223	1,992,017	2,008,256	2,027,599	2,039,782	2,055,336	2,070,202	2,088,383
Daily Baseload Therms	2,868	2,891	2,914	2,936	2,957	2,977	2,997	3,017	3,036	3,054
Peak Day Therms	24,372	24,600	24,828	25,051	25,267	25,477	25,684	25,890	26,087	26,278
Therms Per Residential Customer	561	564	561	561	561	563	561	560	560	563
Therms Per Commercial Customer	2,522	2,521	2,520	2,519	2,519	2,518	2,517	2,516	2,515	2,515
Therms Per Industrial Customer	17,102	17,101	17,099	17,097	17,096	17,094	17,093	17,092	17,090	17,089
Residential Customers	1,194	1,203	1,213	1,222	1,230	1,239	1,247	1,254	1,262	1,269
Commercial Customers	318	321	323	326	329	331	334	336	339	341
Industrial Customers	12	12	13	13	13	13	13	13	13	13
Interruptible Customers	3	4	4	4	4	4	4	4	4	4
Total Core Customers	1,528	1,540	1,552	1,564	1,575	1,586	1,597	1,607	1,617	1,627

North Pasco	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.36%	2.67%	1.98%	2.29%	2.27%	2.57%	1.87%	2.16%	2.14%	2.45%
Residential Therms	3,319,678	3,417,613	3,479,885	3,561,999	3,644,795	3,748,529	3,812,327	3,897,053	3,982,446	4,090,661
Commercial Therms	1,926,439	1,970,208	2,014,538	2,059,294	2,104,592	2,150,214	2,196,184	2,242,097	2,288,577	2,335,552
Industrial Therms	91,155	92,106	93,044	93,965	94,877	95,775	96,641	97,511	98,350	99,193
Ind., Inst., & Cmcl. Interrup. Therms	203,091	208,194	213,421	218,731	224,131	229,636	235,210	240,821	246,523	252,319
Total Core Therms	5,540,364	5,688,120	5,800,888	5,933,988	6,068,396	6,224,154	6,340,362	6,477,483	6,615,897	6,777,724
Daily Baseload Therms	2,775	2,838	2,901	2,966	3,031	3,096	3,162	3,228	3,294	3,362
Peak Day Therms	87,866	89,923	92,012	94,131	96,271	98,427	100,601	102,784	104,988	107,212
Therms Per Residential Customer	1,316	1,323	1,316	1,316	1,316	1,323	1,316	1,316	1,316	1,323
Therms Per Commercial Customer	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178	7,178
Therms Per Industrial Customer	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394	38,394
Residential Customers	2,522	2,582	2,644	2,706	2,769	2,832	2,896	2,961	3,026	3,091
Commercial Customers	268	274	281	287	293	300	306	312	319	325
Industrial Customers	2	2	2	2	2	2	3	3	3	3
Interruptible Customers	1	1	1	1	2	2	2	2	2	2
Total Core Customers	2,794	2,861	2,928	2,997	3,066	3,136	3,206	3,277	3,349	3,421

Patterson	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.94%	0.93%	0.88%	0.88%	0.87%	0.83%	0.82%	0.79%	0.79%	0.74%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	9,683	9,755	9,824	9,891	9,957	10,021	10,083	10,144	10,202	10,258
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	230,951	233,129	235,208	237,295	239,389	241,382	243,383	245,336	247,295	249,151
Total Core Therms	240,634	242,884	245,032	247,186	249,346	251,404	253,466	255,479	257,497	259,409
Daily Baseload Therms	301	304	307	311	314	317	320	323	326	329
Peak Day Therms	2,855	2,887	2,918	2,949	2,980	3,009	3,039	3,067	3,096	3,123
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	2,661	2,658	2,656	2,653	2,651	2,649	2,646	2,644	2,642	2,640
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	4	4	4	4	4	4	4	4	4	4
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5	5	5	5	5	5	5	5	5	5

Prosser	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.12%	2.59%	1.63%	2.09%	2.07%	2.54%	1.56%	2.02%	2.01%	2.46%
Residential Therms	312,430	321,869	328,240	336,361	344,563	354,616	361,212	369,653	378,176	388,721
Commercial Therms	583,984	601,431	613,621	628,802	644,188	662,882	675,697	691,706	708,004	727,756
Industrial Therms	167,929	168,617	167,811	167,709	167,591	168,209	167,337	167,184	167,015	167,578
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,064,343	1,091,916	1,109,672	1,132,872	1,156,342	1,185,707	1,204,245	1,228,543	1,253,194	1,284,055
Daily Baseload Therms	624	636	648	660	673	685	698	711	724	737
Peak Day Therms	11,862	12,117	12,377	12,640	12,907	13,177	13,450	13,726	14,006	14,288
Therms Per Residential Customer	516	519	516	516	516	519	516	516	516	519
Therms Per Commercial Customer	3,110	3,124	3,110	3,110	3,110	3,124	3,110	3,110	3,110	3,124
Therms Per Industrial Customer	31,722	31,861	31,722	31,722	31,722	31,861	31,722	31,722	31,722	31,861
Residential Customers	605	620	636	651	667	683	699	716	732	749
Commercial Customers	188	193	197	202	207	212	217	222	228	233
Industrial Customers	5	5	5	5	5	5	5	5	5	5
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	798	818	838	859	880	901	922	944	965	987

Quincy	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.76%	1.73%	1.71%	1.68%	1.64%	1.61%	1.57%	1.55%	1.50%	1.49%
Residential Therms	50,860	51,932	53,019	54,121	55,229	56,342	57,461	58,584	59,713	60,846
Commercial Therms	591,040	602,894	614,834	626,888	638,870	650,930	662,772	674,850	686,761	698,860
Industrial Therms	243,719	247,246	250,718	254,158	257,590	260,965	264,330	267,637	270,933	274,194
Ind., Inst., & Cmcl. Interrup. Therms	124,930	125,966	127,005	127,952	128,902	129,759	130,618	131,383	132,053	132,725
Total Core Therms	1,010,549	1,028,038	1,045,577	1,063,120	1,080,592	1,097,996	1,115,181	1,132,454	1,149,460	1,166,625
Daily Baseload Therms	1,120	1,139	1,159	1,178	1,198	1,217	1,236	1,255	1,274	1,293
Peak Day Therms	11,811	12,018	12,226	12,434	12,641	12,848	13,052	13,258	13,460	13,665
Therms Per Residential Customer	659	659	659	659	659	659	659	659	659	659
Therms Per Commercial Customer	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167	7,167
Therms Per Industrial Customer	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756	32,756
Residential Customers	77	79	80	82	84	85	87	89	91	92
Commercial Customers	82	84	86	87	89	91	92	94	96	98
Industrial Customers	7	8	8	8	8	8	8	8	8	8
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	168	172	175	179	182	185	189	192	196	199

Sunnyside	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.16%	1.54%	0.72%	1.09%	1.06%	1.43%	0.60%	0.97%	0.95%	1.31%
Residential Therms	1,159,428	1,175,332	1,179,680	1,189,641	1,199,278	1,214,493	1,217,546	1,226,186	1,234,496	1,248,587
Commercial Therms	1,807,994	1,843,574	1,862,402	1,889,424	1,916,349	1,951,747	1,969,252	1,995,279	2,021,221	2,055,889
Industrial Therms	606,737	608,502	610,066	611,429	612,589	613,528	614,328	614,976	615,446	615,783
Ind., Inst., & Cmcl. Interrup. Therms	196,353	200,983	203,880	207,655	211,444	216,133	218,931	222,644	226,361	231,021
Total Core Therms	3,770,512	3,828,390	3,856,028	3,898,148	3,939,659	3,995,901	4,020,057	4,059,085	4,097,525	4,151,280
Daily Baseload Therms	3,365	3,396	3,427	3,457	3,486	3,514	3,542	3,568	3,595	3,620
Peak Day Therms	41,400	41,882	42,360	42,833	43,300	43,757	44,205	44,645	45,078	45,499
Therms Per Residential Customer	562	565	562	562	562	565	562	562	562	565
Therms Per Commercial Customer	2,840	2,853	2,840	2,840	2,840	2,853	2,840	2,840	2,840	2,853
Therms Per Industrial Customer	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468	34,468
Residential Customers	2,062	2,080	2,098	2,115	2,132	2,149	2,165	2,180	2,195	2,209
Commercial Customers	637	646	656	665	675	684	693	702	712	721
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	3	3	3	3	3	3	3	3	3	3
Total Core Customers	2,718	2,746	2,774	2,801	2,828	2,854	2,879	2,904	2,928	2,951

Moses Lake	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.47%	1.82%	0.98%	1.35%	1.33%	1.69%	0.86%	1.22%	1.20%	1.58%
Residential Therms	0	0	0	0	0	0	0	0	0	0
Commercial Therms	111,318	112,932	114,506	116,059	117,601	119,103	120,600	122,062	123,511	124,942
Industrial Therms	3,486,849	3,550,782	3,585,277	3,633,517	3,681,817	3,744,482	3,776,389	3,822,637	3,868,441	3,930,273
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	3,598,168	3,663,714	3,699,783	3,749,576	3,799,418	3,863,585	3,896,989	3,944,699	3,991,952	4,055,215
Daily Baseload Therms	3,701	3,754	3,806	3,857	3,908	3,959	4,009	4,058	4,107	4,155
Peak Day Therms	34,454	34,942	35,427	35,904	36,381	36,848	37,315	37,772	38,224	38,675
Therms Per Residential Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Commercial Customer	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929	17,929
Therms Per Industrial Customer	399,066	400,714	399,066	399,066	399,066	400,714	399,066	399,066	399,066	400,714
Residential Customers	0	0	0	0	0	0	0	0	0	0
Commercial Customers	6	6	6	6	7	7	7	7	7	7
Industrial Customers	9	9	9	9	9	9	9	10	10	10
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	15	15	15	16	16	16	16	16	17	17

Woodland	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.36%	2.42%	2.27%	2.33%	2.33%	2.39%	2.25%	2.31%	2.31%	2.36%
Residential Therms	528,535	545,779	563,421	581,569	600,093	619,031	638,277	657,946	678,003	698,508
Commercial Therms	973,794	1,000,266	1,027,340	1,054,988	1,083,314	1,112,227	1,141,792	1,171,955	1,202,862	1,234,400
Industrial Therms	371,429	373,089	371,851	371,871	371,851	373,165	371,704	371,583	371,426	372,631
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,873,757	1,919,134	1,962,612	2,008,428	2,055,258	2,104,423	2,151,772	2,201,484	2,252,291	2,305,538
Daily Baseload Therms	1,401	1,425	1,449	1,474	1,499	1,524	1,550	1,577	1,604	1,631
Peak Day Therms	21,986	22,555	23,136	23,730	24,338	24,958	25,591	26,236	26,896	27,570
Therms Per Residential Customer	593	593	593	593	593	593	593	593	593	593
Therms Per Commercial Customer	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488
Therms Per Industrial Customer	24,651	24,743	24,651	24,651	24,651	24,743	24,651	24,651	24,651	24,743
Residential Customers	892	921	951	982	1,013	1,045	1,077	1,110	1,144	1,179
Commercial Customers	279	287	295	302	311	319	327	336	345	354
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	1,186	1,223	1,261	1,299	1,339	1,379	1,420	1,462	1,504	1,548

A/M Rendering	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.94%	2.30%	1.54%	1.90%	1.87%	2.22%	1.44%	1.78%	1.76%	2.11%
Residential Therms	538,504	550,883	559,339	569,949	580,583	593,423	601,920	612,614	623,331	636,418
Commercial Therms	5,183	5,330	5,443	5,577	5,713	5,870	5,990	6,131	6,275	6,442
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	543,687	556,214	564,783	575,526	586,295	599,293	607,909	618,745	629,606	642,861
Daily Baseload Therms	886	903	921	938	956	973	991	1,009	1,026	1,044
Peak Day Therms	3,742	3,815	3,888	3,961	4,036	4,110	4,184	4,259	4,334	4,408
Therms Per Residential Customer	14,198	14,251	14,198	14,198	14,198	14,251	14,198	14,198	14,198	14,251
Therms Per Commercial Customer	3,753	3,766	3,753	3,753	3,753	3,766	3,753	3,753	3,753	3,766
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	38	39	39	40	41	42	42	43	44	45
Commercial Customers	1	1	1	1	2	2	2	2	2	2
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	39	40	41	42	42	43	44	45	46	46

LDS Church	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.95%	2.44%	1.40%	1.89%	1.87%	2.36%	1.32%	1.80%	1.79%	2.27%
Residential Therms	3,167	3,244	3,290	3,352	3,415	3,495	3,540	3,603	3,666	3,748
Commercial Therms	8,959	9,178	9,306	9,482	9,659	9,887	10,018	10,199	10,383	10,620
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	12,127	12,422	12,596	12,834	13,074	13,382	13,558	13,802	14,049	14,368
Daily Baseload Therms	1	1	1	2	2	2	2	2	2	2
Peak Day Therms	154	157	160	163	166	169	172	175	178	181
Therms Per Residential Customer	1,253	1,259	1,253	1,253	1,253	1,259	1,253	1,253	1,253	1,259
Therms Per Commercial Customer	6,883	6,917	6,883	6,883	6,883	6,917	6,883	6,883	6,883	6,917
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	3	3	3	3	3	3	3	3	3	3
Commercial Customers	1	1	1	1	1	1	1	1	2	2
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	4	4	4	4	4	4	4	4	4	5

Kalama #1	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.04%	1.02%	1.01%	0.99%	0.95%	0.92%	0.88%	0.85%	0.82%	0.79%
Residential Therms	1,096	1,107	1,119	1,130	1,140	1,151	1,161	1,171	1,180	1,190
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,096	1,107	1,119	1,130	1,140	1,151	1,161	1,171	1,180	1,190
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	12	13	13	13	13	13	13	13	13	14
Therms Per Residential Customer	320	320	320	320	320	320	320	320	320	320
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	3	3	3	4	4	4	4	4	4	4
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3	3	3	4	4	4	4	4	4	4

Dehawn Dairy	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.90%	1.35%	0.39%	0.84%	0.81%	1.24%	0.28%	0.71%	0.68%	1.12%
Residential Therms	1,413	1,432	1,438	1,450	1,461	1,480	1,484	1,494	1,504	1,521
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	1,413	1,432	1,438	1,450	1,461	1,480	1,484	1,494	1,504	1,521
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	16	16	17	17	17	17	17	17	17	17
Therms Per Residential Customer	630	633	630	630	630	633	630	630	630	633
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

Yakima Chief Ranch	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.90%	1.54%	0.20%	0.84%	0.81%	1.44%	0.09%	0.71%	0.68%	1.31%
Residential Therms	471	478	479	483	487	494	495	498	501	508
Commercial Therms	0	0	0	0	0	0	0	0	0	0
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	471	478	479	483	487	494	495	498	501	508
Daily Baseload Therms	0	0	0	0	0	0	0	0	0	0
Peak Day Therms	7	7	7	7	7	7	7	7	7	7
Therms Per Residential Customer	210	212	210	210	210	212	210	210	210	212
Therms Per Commercial Customer	0	0	0	0	0	0	0	0	0	0
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	0	0	0	0	0	0	0	0	0	0
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2	2	2	2	2	2	2	2	2	2

7th Day School	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.99%	1.47%	0.44%	0.92%	0.89%	1.37%	0.32%	0.80%	0.77%	1.25%
Residential Therms	11,131	11,288	11,325	11,421	11,513	11,664	11,689	11,772	11,851	11,991
Commercial Therms	4,177	4,261	4,302	4,365	4,427	4,511	4,549	4,609	4,669	4,752
Industrial Therms	1,939	1,951	1,949	1,954	1,957	1,967	1,963	1,965	1,966	1,974
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	17,246	17,500	17,577	17,739	17,898	18,142	18,201	18,346	18,487	18,718
Daily Baseload Therms	1	1	1	1	1	1	1	1	1	1
Peak Day Therms	224	226	229	231	233	235	237	239	241	243
Therms Per Residential Customer	903	908	903	903	903	908	903	903	903	908
Therms Per Commercial Customer	3,386	3,404	3,386	3,386	3,386	3,404	3,386	3,386	3,386	3,404
Therms Per Industrial Customer	1,762	1,768	1,762	1,762	1,762	1,768	1,762	1,762	1,762	1,768
Residential Customers	12	12	13	13	13	13	13	13	13	13
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	15	15	15	15	15	15	15	16	16	16

Yakima Training Center	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.61%	2.10%	1.06%	1.53%	1.51%	1.97%	0.92%	1.40%	1.36%	1.84%
Residential Therms	3,707	3,758	3,772	3,804	3,834	3,884	3,893	3,920	3,947	3,993
Commercial Therms	355,422	362,926	366,804	372,449	378,102	385,588	389,175	394,639	400,039	407,414
Industrial Therms	0	0	0	0	0	0	0	0	0	0
Ind., Inst., & Cmcl. Interrup. Therms	0	0	0	0	0	0	0	0	0	0
Total Core Therms	359,129	366,684	370,576	376,253	381,936	389,471	393,068	398,559	403,986	411,407
Daily Baseload Therms	299	304	308	313	318	322	327	332	336	341
Peak Day Therms	4,625	4,699	4,773	4,846	4,919	4,991	5,062	5,133	5,203	5,272
Therms Per Residential Customer	132	133	132	132	132	133	132	132	132	133
Therms Per Commercial Customer	2,968	2,983	2,968	2,968	2,968	2,983	2,968	2,968	2,968	2,983
Therms Per Industrial Customer	0	0	0	0	0	0	0	0	0	0
Residential Customers	28	28	29	29	29	29	29	30	30	30
Commercial Customers	120	122	124	125	127	129	131	133	135	137
Industrial Customers	0	0	0	0	0	0	0	0	0	0
Interruptible Customers	0	0	0	0	0	0	0	0	0	0
Total Core Customers	148	150	152	154	156	158	161	163	165	167

Burbank Heights Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.03%	2.25%	1.75%	1.97%	1.95%	2.16%	1.65%	1.85%	1.83%	2.05%
Residential Therms	3,790,121	3,858,797	3,928,046	3,998,121	4,068,206	4,138,350	4,208,237	4,278,198	4,348,131	4,418,197
Commercial Therms	2,938,092	3,020,540	3,072,266	3,140,422	3,209,401	3,296,082	3,348,851	3,418,754	3,489,506	3,579,706
Industrial Therms	157,426	159,068	160,688	162,280	163,855	165,405	166,900	168,403	169,852	171,307
Ind., Inst., & Cmcl. Interrup. Therms	280,617	288,937	294,891	302,227	309,688	318,694	324,997	332,750	340,628	350,173
Total Core Therms	7,166,257	7,327,342	7,455,891	7,603,050	7,751,151	7,918,531	8,048,986	8,198,105	8,348,118	8,519,384
Daily Baseload Therms	5,597	5,707	5,819	5,931	6,044	6,158	6,271	6,385	6,499	6,614
Peak Day Therms	107,872	110,048	112,251	114,477	116,717	118,966	121,223	123,479	125,749	128,032
Therms Per Residential Customer	397	397	397	397	397	397	397	397	397	397
Therms Per Commercial Customer	2,679	2,693	2,679	2,679	2,679	2,693	2,679	2,679	2,679	2,693
Therms Per Industrial Customer	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873	14,873
Residential Customers	9,553	9,725	9,900	10,077	10,253	10,430	10,606	10,783	10,959	11,135
Commercial Customers	1,097	1,122	1,147	1,172	1,198	1,224	1,250	1,276	1,303	1,329
Industrial Customers	11	11	11	11	11	11	11	11	11	12
Interruptible Customers	5	5	5	6	6	6	6	6	6	6
Total Core Customers	10,665	10,863	11,063	11,266	11,468	11,671	11,874	12,076	12,279	12,482

East Stanwood Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.02%	2.44%	1.57%	1.98%	1.96%	2.36%	1.47%	1.88%	1.86%	2.27%
Residential Therms	6,635,045	6,783,006	6,871,559	6,991,669	7,111,727	7,264,172	7,351,560	7,471,323	7,590,948	7,745,239
Commercial Therms	4,353,737	4,476,379	4,563,557	4,670,489	4,779,438	4,910,190	5,000,600	5,113,488	5,228,507	5,367,599
Industrial Therms	178,589	181,842	185,209	188,596	192,050	195,525	199,022	202,635	206,269	210,023
Ind., Inst., & Cmcl. Interrup. Therms	547,681	559,644	568,484	579,162	589,868	602,305	611,326	622,167	633,088	645,763
Total Core Therms	11,715,053	12,000,871	12,188,808	12,429,916	12,673,084	12,972,193	13,162,508	13,409,613	13,658,812	13,968,624
Daily Baseload Therms	10,624	10,842	11,063	11,287	11,514	11,741	11,970	12,201	12,435	12,670
Peak Day Therms	116,923	119,249	121,614	124,001	126,407	128,822	131,248	133,690	136,152	138,627
Therms Per Residential Customer	676	679	676	676	676	679	676	676	676	679
Therms Per Commercial Customer	3,501	3,516	3,501	3,501	3,501	3,516	3,501	3,501	3,501	3,516
Therms Per Industrial Customer	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076	46,076
Residential Customers	9,821	9,996	10,172	10,349	10,527	10,705	10,882	11,059	11,236	11,413
Commercial Customers	1,243	1,273	1,303	1,334	1,365	1,396	1,428	1,460	1,493	1,526
Industrial Customers	4	4	4	4	4	4	4	4	4	5
Interruptible Customers	6	6	6	6	6	6	7	7	7	7
Total Core Customers	11,075	11,278	11,485	11,694	11,903	12,112	12,321	12,531	12,741	12,951

Kennewick Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.73%	3.16%	2.24%	2.67%	2.63%	3.06%	2.12%	2.54%	2.52%	2.93%
Residential Therms	12,419,225	12,793,605	13,047,697	13,370,508	13,696,512	14,095,235	14,358,320	14,693,863	15,032,657	15,450,827
Commercial Therms	12,971,212	13,406,993	13,731,415	14,122,825	14,521,090	14,993,301	15,338,869	15,757,306	16,184,610	16,691,384
Industrial Therms	211,827	215,002	218,198	221,389	224,588	227,832	231,098	234,388	237,720	241,104
Ind., Inst., & Cmcl. Interrup. Therms	1,547,402	1,591,715	1,636,946	1,683,022	1,729,835	1,777,558	1,825,972	1,875,149	1,925,212	1,975,916
Total Core Therms	27,149,666	28,007,316	28,634,256	29,397,744	30,172,024	31,093,926	31,754,259	32,560,705	33,380,199	34,359,231
Daily Baseload Therms	24,187	24,849	25,525	26,212	26,910	27,619	28,338	29,066	29,807	30,556
Peak Day Therms	375,656	385,762	396,071	406,569	417,212	428,007	438,948	450,023	461,270	472,641
Therms Per Residential Customer	645	649	645	645	645	649	645	645	645	649
Therms Per Commercial Customer	3,953	3,971	3,953	3,953	3,953	3,971	3,953	3,953	3,953	3,971
Therms Per Industrial Customer	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924	19,924
Residential Customers	19,242	19,724	20,216	20,716	21,221	21,731	22,246	22,766	23,291	23,821
Commercial Customers	3,281	3,376	3,474	3,573	3,673	3,776	3,880	3,986	4,094	4,203
Industrial Customers	11	11	11	11	11	11	12	12	12	12
Interruptible Customers	17	17	18	18	19	20	20	21	21	22
Total Core Customers	22,551	23,129	23,718	24,318	24,924	25,538	26,158	26,784	27,418	28,058

Longview South Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.63%	2.03%	1.14%	1.56%	1.52%	1.94%	1.02%	1.44%	1.39%	1.82%
Residential Therms	1,112,287	1,128,679	1,134,955	1,146,174	1,157,084	1,172,920	1,178,027	1,188,053	1,197,773	1,212,599
Commercial Therms	4,418,521	4,510,399	4,564,856	4,638,593	4,711,919	4,805,617	4,857,853	4,930,863	5,002,796	5,096,410
Industrial Therms	223,196	223,527	222,160	221,600	221,036	221,267	219,833	219,213	218,569	218,729
Ind., Inst., & Cmcl. Interrup. Therms	814,247	838,727	855,896	877,008	898,234	923,723	940,303	961,723	982,525	1,008,612
Total Core Therms	6,568,250	6,701,331	6,777,866	6,883,375	6,988,273	7,123,528	7,196,016	7,299,852	7,401,663	7,536,350
Daily Baseload Therms	5,889	5,980	6,071	6,163	6,255	6,346	6,436	6,527	6,616	6,705
Peak Day Therms	61,957	62,951	63,950	64,953	65,950	66,947	67,924	68,912	69,879	70,854
Therms Per Residential Customer	530	532	530	530	530	532	530	530	530	532
Therms Per Commercial Customer	4,064	4,082	4,064	4,064	4,064	4,082	4,064	4,064	4,064	4,082
Therms Per Industrial Customer	16,733	16,796	16,733	16,733	16,733	16,796	16,733	16,733	16,733	16,796
Residential Customers	2,098	2,120	2,141	2,162	2,183	2,203	2,222	2,241	2,260	2,277
Commercial Customers	1,087	1,105	1,123	1,141	1,159	1,177	1,195	1,213	1,231	1,249
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	8	9	9	9	9	9	10	10	10	10
Total Core Customers	3,207	3,247	3,286	3,326	3,365	3,403	3,440	3,477	3,514	3,549

Sedro-Woolley Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.90%	2.35%	1.41%	1.85%	1.83%	2.27%	1.32%	1.75%	1.73%	2.17%
Residential Therms	20,337,436	20,792,780	21,060,296	21,427,282	21,793,949	22,262,852	22,526,336	22,891,955	23,257,051	23,731,404
Commercial Therms	10,852,775	11,159,006	11,370,484	11,634,251	11,901,419	12,226,914	12,446,798	12,724,017	13,004,891	13,348,241
Industrial Therms	1,234,670	1,243,825	1,243,214	1,246,728	1,250,145	1,257,743	1,255,720	1,258,307	1,260,403	1,267,202
Ind., Inst., & Cmcl. Interrup. Therms	1,410,103	1,433,486	1,443,838	1,460,709	1,477,548	1,500,624	1,510,446	1,526,692	1,542,603	1,565,516
Total Core Therms	33,834,985	34,629,097	35,117,832	35,768,970	36,423,061	37,248,132	37,739,300	38,400,972	39,064,948	39,912,363
Daily Baseload Therms	20,993	21,379	21,769	22,161	22,556	22,953	23,351	23,751	24,152	24,555
Peak Day Therms	362,200	369,065	376,015	383,029	390,074	397,146	404,251	411,377	418,528	425,708
Therms Per Residential Customer	665	668	665	665	665	668	665	665	665	668
Therms Per Commercial Customer	2,499	2,511	2,499	2,499	2,499	2,511	2,499	2,499	2,499	2,511
Therms Per Industrial Customer	13,114	13,163	13,114	13,114	13,114	13,163	13,114	13,114	13,114	13,163
Residential Customers	30,576	31,116	31,662	32,214	32,765	33,316	33,866	34,416	34,965	35,514
Commercial Customers	4,342	4,445	4,549	4,655	4,762	4,870	4,980	5,091	5,203	5,317
Industrial Customers	94	94	95	95	95	96	96	96	96	96
Interruptible Customers	12	12	12	13	13	13	13	13	13	13
Total Core Customers	35,024	35,668	36,319	36,977	37,635	38,295	38,955	39,616	40,278	40,940

Sumas SPE Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.09%	2.53%	1.61%	2.05%	2.02%	2.45%	1.52%	1.94%	1.92%	2.35%
Residential Therms	37,627,714	38,526,330	39,083,533	39,824,922	40,567,910	41,501,370	42,058,822	42,806,112	43,554,912	44,508,273
Commercial Therms	19,070,636	19,616,381	19,999,473	20,474,203	20,956,364	21,537,179	21,938,676	22,438,496	22,947,252	23,562,269
Industrial Therms	1,251,848	1,262,220	1,262,689	1,267,592	1,272,227	1,281,374	1,280,767	1,284,665	1,288,449	1,296,940
Ind., Inst., & Cmcl. Interrup. Therms	1,391,334	1,440,723	1,478,049	1,522,983	1,569,153	1,623,902	1,664,806	1,714,089	1,764,608	1,824,461
Total Core Therms	59,341,533	60,845,654	61,823,744	63,089,700	64,365,653	65,943,825	66,943,071	68,243,363	69,555,221	71,191,943
Daily Baseload Therms	42,471	43,358	44,255	45,165	46,083	47,008	47,940	48,878	49,826	50,779
Peak Day Therms	618,802	631,638	644,639	657,816	671,093	684,457	697,903	711,424	725,060	738,775
Therms Per Residential Customer	703	706	703	703	703	706	703	703	703	706
Therms Per Commercial Customer	2,827	2,840	2,827	2,827	2,827	2,840	2,827	2,827	2,827	2,840
Therms Per Industrial Customer	20,187	20,263	20,187	20,187	20,187	20,263	20,187	20,187	20,187	20,263
Residential Customers	53,516	54,545	55,587	56,641	57,698	58,757	59,818	60,881	61,946	63,014
Commercial Customers	6,745	6,908	7,073	7,241	7,412	7,584	7,759	7,936	8,116	8,298
Industrial Customers	62	62	63	63	63	63	63	64	64	64
Interruptible Customers	17	17	18	19	19	20	20	21	22	22
Total Core Customers	60,340	61,533	62,741	63,964	65,192	66,424	67,661	68,902	70,147	71,398

Yakima Loop	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.17%	1.61%	0.66%	1.10%	1.08%	1.51%	0.55%	0.98%	0.96%	1.39%
Residential Therms	13,567,674	13,753,091	13,804,654	13,921,220	14,033,989	14,211,325	14,247,771	14,348,871	14,446,122	14,610,280
Commercial Therms	14,282,896	14,581,344	14,746,589	14,977,418	15,207,522	15,505,061	15,659,375	15,881,958	16,103,831	16,395,829
Industrial Therms	3,023,166	3,035,931	3,024,285	3,024,018	3,023,457	3,034,340	3,021,563	3,020,370	3,018,884	3,028,950
Ind., Inst., & Cmcl. Interrup. Therms	920,837	936,628	945,034	956,973	968,915	984,644	992,557	1,004,181	1,015,777	1,031,245
Total Core Therms	31,794,573	32,306,993	32,520,563	32,879,628	33,233,884	33,735,369	33,921,267	34,255,380	34,584,615	35,066,304
Daily Baseload Therms	19,515	19,724	19,932	20,138	20,342	20,542	20,738	20,931	21,122	21,308
Peak Day Therms	359,642	363,826	367,982	372,109	376,179	380,163	384,074	387,910	391,688	395,371
Therms Per Residential Customer	660	663	660	660	660	663	660	660	660	663
Therms Per Commercial Customer	3,455	3,471	3,455	3,455	3,455	3,471	3,455	3,455	3,455	3,471
Therms Per Industrial Customer	38,396	38,546	38,396	38,396	38,396	38,546	38,396	38,396	38,396	38,546
Residential Customers	20,553	20,734	20,912	21,089	21,260	21,425	21,584	21,737	21,884	22,026
Commercial Customers	4,134	4,201	4,268	4,335	4,401	4,467	4,532	4,597	4,661	4,724
Industrial Customers	79	79	79	79	79	79	79	79	79	79
Interruptible Customers	14	14	14	15	15	15	15	16	16	16
Total Core Customers	24,780	25,028	25,274	25,517	25,755	25,986	26,210	26,428	26,639	26,844

Zone 10	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.29%	1.59%	0.92%	1.23%	1.20%	1.49%	0.81%	1.11%	1.09%	1.38%
Residential Therms	3,395,414	3,443,443	3,465,074	3,499,682	3,533,508	3,580,197	3,598,734	3,630,149	3,660,770	3,704,853
Commercial Therms	5,845,861	5,968,236	6,045,476	6,145,247	6,244,951	6,368,113	6,442,383	6,540,129	6,637,862	6,759,719
Industrial Therms	2,004,002	2,011,541	2,017,064	2,022,763	2,027,877	2,033,240	2,036,733	2,040,576	2,043,886	2,047,571
Ind., Inst., & Cmcl. Interrup. Therms	253,067	258,368	261,931	266,361	270,791	276,118	279,545	283,876	288,199	293,455
Total Core Therms	11,498,345	11,681,588	11,789,545	11,934,053	12,077,126	12,257,667	12,357,395	12,494,729	12,630,718	12,805,599
Daily Baseload Therms	9,165	9,258	9,350	9,441	9,530	9,617	9,703	9,787	9,870	9,951
Peak Day Therms	132,554	134,270	135,981	137,684	139,371	141,034	142,676	144,296	145,900	147,473
Therms Per Residential Customer	577	579	577	577	577	579	576	576	576	578
Therms Per Commercial Customer	3,446	3,459	3,446	3,446	3,446	3,459	3,446	3,446	3,446	3,459
Therms Per Industrial Customer	35,229	35,262	35,269	35,288	35,308	35,341	35,347	35,367	35,387	35,419
Residential Customers	5,885	5,946	6,008	6,069	6,128	6,187	6,244	6,300	6,354	6,407
Commercial Customers	1,697	1,725	1,754	1,783	1,812	1,841	1,870	1,898	1,926	1,954
Industrial Customers	57	57	57	57	57	58	58	58	58	58
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	7,642	7,733	7,823	7,913	8,002	8,089	8,175	8,259	8,342	8,423

Zone 11	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.30%	1.71%	0.84%	1.24%	1.22%	1.61%	0.73%	1.13%	1.10%	1.50%
Residential Therms	14,743,516	14,951,129	15,014,741	15,148,584	15,278,556	15,478,425	15,526,404	15,644,380	15,758,395	15,944,970
Commercial Therms	20,345,855	20,784,061	21,048,223	21,398,827	21,750,399	22,192,088	22,445,107	22,789,520	23,133,523	23,572,694
Industrial Therms	3,997,806	4,022,829	4,023,305	4,034,911	4,046,276	4,068,883	4,067,770	4,078,044	4,087,956	4,109,281
Ind., Inst., & Cmcl. Interrup. Therms	1,690,058	1,716,372	1,735,456	1,757,891	1,780,509	1,806,804	1,825,313	1,847,469	1,869,556	1,895,565
Total Core Therms	40,777,235	41,474,391	41,821,725	42,340,214	42,855,741	43,546,201	43,864,594	44,359,413	44,849,429	45,522,510
Daily Baseload Therms	27,441	27,800	28,158	28,513	28,868	29,219	29,566	29,910	30,252	30,589
Peak Day Therms	453,639	459,548	465,445	471,306	477,130	482,862	488,520	494,103	499,628	505,061
Therms Per Residential Customer	608	610	607	607	607	609	606	606	606	608
Therms Per Commercial Customer	3,526	3,541	3,525	3,525	3,525	3,539	3,524	3,524	3,524	3,538
Therms Per Industrial Customer	32,889	32,926	32,771	32,713	32,655	32,693	32,542	32,487	32,432	32,470
Residential Customers	24,259	24,492	24,725	24,955	25,179	25,397	25,608	25,814	26,012	26,205
Commercial Customers	5,770	5,870	5,971	6,071	6,171	6,270	6,369	6,467	6,565	6,662
Industrial Customers	122	122	123	123	124	124	125	126	126	127
Interruptible Customers	25	25	26	26	27	27	27	28	28	29
Total Core Customers	30,176	30,510	30,844	31,175	31,501	31,819	32,130	32,434	32,732	33,023

Zone 20	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.39%	2.76%	1.97%	2.33%	2.31%	2.67%	1.86%	2.22%	2.20%	2.56%
Residential Therms	20,217,433	20,767,411	21,154,947	21,635,337	22,119,488	22,700,735	23,098,764	23,593,727	24,092,400	24,696,924
Commercial Therms	18,866,773	19,440,830	19,872,115	20,387,710	20,911,081	21,527,027	21,981,314	22,526,380	23,081,167	23,735,910
Industrial Therms	4,159,558	4,230,477	4,271,992	4,327,002	4,381,964	4,451,320	4,489,743	4,542,567	4,594,789	4,663,218
Ind., Inst., & Cmcl. Interrup. Therms	2,287,609	2,349,512	2,410,191	2,473,116	2,537,107	2,603,567	2,668,268	2,735,059	2,803,137	2,873,647
Total Core Therms	45,531,373	46,788,231	47,709,245	48,823,165	49,949,640	51,282,650	52,238,089	53,397,733	54,571,493	55,969,699
Daily Baseload Therms	39,182	40,093	41,020	41,959	42,908	43,867	44,838	45,816	46,807	47,807
Peak Day Therms	632,546	647,661	663,037	678,641	694,418	710,357	726,467	742,707	759,141	775,725
Therms Per Residential Customer	621	624	622	622	623	626	624	624	624	627
Therms Per Commercial Customer	3,782	3,798	3,785	3,786	3,788	3,804	3,791	3,792	3,794	3,810
Therms Per Industrial Customer	92,968	93,527	93,428	93,657	93,893	94,431	94,329	94,527	94,729	95,239
Residential Customers	32,546	33,271	34,009	34,758	35,512	36,272	37,036	37,806	38,580	39,360
Commercial Customers	4,989	5,119	5,251	5,385	5,521	5,658	5,798	5,940	6,084	6,229
Industrial Customers	45	45	46	46	47	47	48	48	49	49
Interruptible Customers	27	28	28	29	30	31	31	32	33	34
Total Core Customers	37,607	38,463	39,334	40,218	41,109	42,008	42,914	43,826	44,745	45,671

Zone 24	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.40%	0.82%	-0.06%	0.33%	0.33%	0.70%	-0.20%	0.22%	0.21%	0.61%
Residential Therms	4,222,367	4,256,618	4,247,468	4,258,997	4,269,469	4,299,929	4,286,173	4,292,720	4,297,880	4,323,852
Commercial Therms	4,248,416	4,291,282	4,292,864	4,312,155	4,333,511	4,372,075	4,367,005	4,383,019	4,399,922	4,436,076
Industrial Therms	232,679	232,252	231,865	231,418	230,950	230,471	229,954	229,420	228,890	228,362
Ind., Inst., & Cmcl. Interrup. Therms	991,987	995,199	997,131	999,064	1,000,293	1,000,632	1,000,570	1,000,017	999,421	998,557
Total Core Therms	9,695,449	9,775,351	9,769,328	9,801,634	9,834,222	9,903,106	9,883,703	9,905,176	9,926,113	9,986,847
Daily Baseload Therms	3,799	3,807	3,814	3,820	3,827	3,831	3,835	3,839	3,843	3,846
Peak Day Therms	122,088	122,555	122,998	123,395	123,787	124,100	124,377	124,628	124,870	125,070
Therms Per Residential Customer	580	583	580	580	580	583	580	580	580	583
Therms Per Commercial Customer	2,764	2,779	2,766	2,767	2,769	2,783	2,771	2,772	2,773	2,788
Therms Per Industrial Customer	10,251	10,250	10,250	10,250	10,249	10,249	10,249	10,249	10,249	10,249
Residential Customers	7,281	7,302	7,323	7,343	7,360	7,375	7,388	7,399	7,407	7,414
Commercial Customers	1,537	1,544	1,552	1,558	1,565	1,571	1,576	1,581	1,587	1,591
Industrial Customers	23	23	23	23	23	22	22	22	22	22
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,842	8,871	8,899	8,925	8,950	8,970	8,989	9,005	9,018	9,030

Zone 26	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.67%	1.97%	1.30%	1.62%	1.60%	1.90%	1.21%	1.54%	1.50%	1.82%
Residential Therms	1,902,682	1,938,994	1,965,572	1,997,581	2,029,584	2,066,857	2,093,641	2,125,696	2,157,762	2,195,311
Commercial Therms	5,762,534	5,886,258	5,970,313	6,075,630	6,181,208	6,309,224	6,393,346	6,500,383	6,606,977	6,737,447
Industrial Therms	825,095	826,484	823,258	822,060	820,817	821,665	818,072	816,613	815,074	815,681
Ind., Inst., & Cmcl. Interrup. Therms	1,045,198	1,071,856	1,091,104	1,114,303	1,137,622	1,165,105	1,183,686	1,207,059	1,229,819	1,257,763
Total Core Therms	9,535,509	9,723,591	9,850,246	10,009,575	10,169,232	10,362,852	10,488,745	10,649,751	10,809,632	11,006,202
Daily Baseload Therms	8,947	9,071	9,196	9,321	9,447	9,572	9,696	9,822	9,945	10,070
Peak Day Therms	94,667	96,323	97,996	99,685	101,381	103,086	104,783	106,501	108,212	109,941
Therms Per Residential Customer	583	585	584	584	584	585	584	584	584	585
Therms Per Commercial Customer	3,884	3,896	3,882	3,881	3,880	3,892	3,878	3,877	3,876	3,889
Therms Per Industrial Customer	26,268	26,335	26,261	26,257	26,254	26,321	26,246	26,243	26,239	26,307
Residential Customers	3,261	3,314	3,368	3,423	3,477	3,532	3,586	3,641	3,696	3,750
Commercial Customers	1,484	1,511	1,538	1,566	1,593	1,621	1,649	1,677	1,704	1,733
Industrial Customers	31	31	31	31	31	31	31	31	31	31
Interruptible Customers	10	10	10	10	10	11	11	11	11	12
Total Core Customers	4,786	4,866	4,948	5,030	5,112	5,195	5,277	5,360	5,442	5,525

Zone 30-S	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.75%	2.15%	1.29%	1.69%	1.66%	2.06%	1.18%	1.57%	1.54%	1.94%
Residential Therms	28,508,425	29,084,196	29,400,990	29,852,148	30,301,496	30,887,779	31,193,131	31,635,388	32,075,393	32,660,894
Commercial Therms	16,920,287	17,329,466	17,597,855	17,938,543	18,284,046	18,708,648	18,976,852	19,323,923	19,673,170	20,107,228
Industrial Therms	594,171	599,819	603,573	608,110	612,730	618,341	621,963	626,601	631,249	636,758
Ind., Inst., & Cmcl. Interrup. Therms	4,293,481	4,385,796	4,460,830	4,543,432	4,625,220	4,715,775	4,785,931	4,864,440	4,941,866	5,027,575
Total Core Therms	50,316,365	51,399,277	52,063,248	52,942,233	53,823,492	54,930,543	55,577,877	56,450,351	57,321,678	58,432,455
Daily Baseload Therms	40,629	41,353	42,085	42,816	43,549	44,281	45,009	45,734	46,459	47,180
Peak Day Therms	493,328	501,825	510,403	519,001	527,618	536,210	544,772	553,302	561,820	570,311
Therms Per Residential Customer	679	682	679	679	679	682	679	679	679	682
Therms Per Commercial Customer	3,559	3,574	3,559	3,560	3,560	3,576	3,561	3,561	3,562	3,577
Therms Per Industrial Customer	17,874	17,914	17,897	17,908	17,919	17,958	17,942	17,953	17,963	18,000
Residential Customers	41,969	42,625	43,288	43,954	44,618	45,279	45,936	46,590	47,240	47,888
Commercial Customers	4,755	4,849	4,944	5,039	5,136	5,232	5,329	5,426	5,523	5,621
Industrial Customers	33	33	34	34	34	34	35	35	35	35
Interruptible Customers	18	18	18	19	19	19	19	20	20	20
Total Core Customers	46,774	47,526	48,284	49,046	49,807	50,564	51,319	52,070	52,819	53,565

Zone 30-W	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.01%	2.44%	1.53%	1.96%	1.94%	2.36%	1.43%	1.86%	1.84%	2.27%
Residential Therms	69,521,737	71,134,492	72,119,052	73,440,133	74,762,512	76,431,820	77,411,105	78,736,548	80,062,853	81,761,059
Commercial Therms	36,845,626	37,873,862	38,588,853	39,477,883	40,380,082	41,472,153	42,217,194	43,151,516	44,100,935	45,254,992
Industrial Therms	3,040,310	3,066,986	3,071,200	3,085,247	3,098,902	3,122,594	3,124,010	3,136,006	3,147,349	3,169,614
Ind., Inst., & Cmcl. Interrup. Therms	3,471,634	3,562,973	3,625,030	3,703,858	3,784,147	3,881,992	3,947,942	4,031,463	4,116,136	4,220,064
Total Core Therms	112,879,307	115,638,313	117,404,135	119,707,121	122,025,644	124,908,558	126,700,251	129,055,532	131,427,273	134,405,729
Daily Baseload Therms	83,372	85,022	86,693	88,383	90,085	91,797	93,519	95,251	96,997	98,754
Peak Day Therms	1,172,927	1,196,301	1,219,977	1,243,927	1,268,032	1,292,262	1,316,623	1,341,099	1,365,739	1,390,507
Therms Per Residential Customer	696	699	696	696	696	699	696	696	696	699
Therms Per Commercial Customer	2,815	2,827	2,815	2,815	2,815	2,827	2,814	2,814	2,814	2,826
Therms Per Industrial Customer	15,750	15,813	15,765	15,774	15,782	15,847	15,800	15,810	15,820	15,886
Residential Customers	99,954	101,808	103,684	105,581	107,479	109,380	111,282	113,185	115,089	116,996
Commercial Customers	13,088	13,396	13,709	14,025	14,347	14,672	15,001	15,334	15,672	16,014
Industrial Customers	193	194	195	196	196	197	198	198	199	200
Interruptible Customers	37	38	38	39	40	41	42	43	44	45
Total Core Customers	113,271	115,435	117,626	119,841	122,063	124,290	126,523	128,761	131,004	133,254

Zone GTN	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.95%	3.38%	2.47%	2.89%	2.87%	3.28%	2.36%	2.78%	2.75%	3.18%
Residential Therms	44,268,356	45,790,366	46,933,861	48,315,187	49,720,578	51,380,127	52,604,028	54,082,719	55,585,964	57,371,836
Commercial Therms	27,683,316	28,665,513	29,417,695	30,308,305	31,221,302	32,292,309	33,099,490	34,067,401	35,056,222	36,223,132
Industrial Therms	2,329,666	2,358,493	2,371,861	2,392,635	2,413,583	2,441,825	2,454,643	2,475,031	2,494,989	2,523,456
Ind., Inst., & Cmcl. Interrup. Therms	1,176,471	1,195,886	1,211,136	1,228,226	1,245,717	1,265,241	1,280,658	1,298,012	1,315,724	1,335,553
Total Core Therms	75,457,809	78,010,257	79,934,552	82,244,353	84,601,181	87,379,501	89,438,819	91,923,163	94,452,898	97,453,976
Daily Baseload Therms	49,186	50,631	52,110	53,617	55,157	56,723	58,317	59,940	61,595	63,280
Peak Day Therms	937,535	964,943	992,979	1,021,589	1,050,776	1,080,468	1,110,681	1,141,438	1,172,749	1,204,637
Therms Per Residential Customer	748	752	749	750	750	754	751	751	751	755
Therms Per Commercial Customer	2,848	2,861	2,849	2,849	2,849	2,862	2,849	2,849	2,849	2,862
Therms Per Industrial Customer	25,686	25,746	25,640	25,621	25,595	25,650	25,545	25,521	25,493	25,547
Residential Customers	59,153	60,881	62,650	64,462	66,304	68,177	70,081	72,018	73,986	75,986
Commercial Customers	9,719	10,019	10,327	10,639	10,959	11,285	11,617	11,956	12,303	12,656
Industrial Customers	91	92	93	93	94	95	96	97	98	99
Interruptible Customers	9	9	9	9	9	9	9	9	10	10
Total Core Customers	68,972	71,001	73,078	75,203	77,366	79,566	81,804	84,080	86,396	88,751

Zone ME-OR	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.46%	1.79%	1.05%	1.38%	1.37%	1.70%	0.94%	1.27%	1.24%	1.61%
Residential Therms	5,325,380	5,388,767	5,417,752	5,463,367	5,507,843	5,568,530	5,592,668	5,633,189	5,672,430	5,728,642
Commercial Therms	7,067,901	7,238,794	7,347,505	7,488,249	7,631,165	7,809,071	7,917,996	8,059,972	8,202,098	8,384,327
Industrial Therms	500,451	502,541	502,330	503,232	503,944	505,712	505,139	505,520	505,855	507,318
Ind., Inst., & Cmcl. Interrup. Therms	1,849,429	1,877,064	1,896,447	1,919,004	1,941,124	1,966,443	1,983,530	2,003,429	2,022,458	2,045,919
Total Core Therms	14,743,161	15,007,167	15,164,033	15,373,851	15,584,076	15,849,755	15,999,333	16,202,110	16,402,840	16,666,206
Daily Baseload Therms	11,687	11,866	12,048	12,229	12,410	12,589	12,769	12,945	13,120	13,296
Peak Day Therms	218,043	220,969	223,931	226,861	229,788	232,667	235,550	238,355	241,126	243,899
Therms Per Residential Customer	459	460	459	459	459	460	459	459	459	460
Therms Per Commercial Customer	3,018	3,033	3,020	3,021	3,022	3,036	3,023	3,024	3,025	3,039
Therms Per Industrial Customer	17,116	17,140	17,088	17,074	17,059	17,082	17,031	17,016	17,002	17,024
Residential Customers	11,604	11,705	11,806	11,905	12,002	12,096	12,187	12,275	12,361	12,444
Commercial Customers	2,342	2,387	2,433	2,479	2,526	2,572	2,619	2,665	2,712	2,759
Industrial Customers	29	29	29	29	30	30	30	30	30	30
Interruptible Customers	10	10	10	10	10	11	11	11	11	11
Total Core Customers	13,985	14,131	14,278	14,424	14,568	14,708	14,847	14,981	15,113	15,243

Zone ME-WA	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.30%	1.74%	0.77%	1.22%	1.17%	1.61%	0.63%	1.06%	1.03%	1.45%
Residential Therms	7,195,546	7,291,326	7,314,492	7,372,867	7,429,209	7,520,522	7,535,393	7,585,369	7,633,248	7,717,347
Commercial Therms	5,207,785	5,313,149	5,367,726	5,447,054	5,524,884	5,628,875	5,678,108	5,752,694	5,826,937	5,925,990
Industrial Therms	92,862	93,179	93,463	93,712	93,928	94,142	94,290	94,467	94,581	94,695
Ind., Inst., & Cmcl. Interrup. Therms	2,257,161	2,312,854	2,350,281	2,396,177	2,441,088	2,495,221	2,530,034	2,572,705	2,615,041	2,666,865
Total Core Therms	14,753,354	15,010,508	15,125,962	15,309,811	15,489,109	15,738,761	15,837,825	16,005,235	16,169,807	16,404,896
Daily Baseload Therms	15,470	15,678	15,884	16,087	16,286	16,481	16,673	16,858	17,040	17,218
Peak Day Therms	200,789	203,215	205,614	207,994	210,313	212,594	214,813	216,973	219,092	221,135
Therms Per Residential Customer	598	601	598	598	598	601	598	598	598	601
Therms Per Commercial Customer	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	12,032	12,132	12,231	12,328	12,423	12,513	12,600	12,684	12,764	12,841
Commercial Customers	1,574	1,598	1,623	1,646	1,670	1,693	1,716	1,739	1,761	1,783
Industrial Customers	17	17	17	17	17	17	17	17	17	17
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	13,627	13,751	13,874	13,996	14,114	14,228	14,338	14,444	14,547	14,645

Bellingham Disctrict	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.10%	2.54%	1.61%	2.05%	2.03%	2.46%	1.52%	1.95%	1.93%	2.36%
Residential Therms	38,303,758	39,218,052	39,785,733	40,540,442	41,296,779	42,246,507	42,814,478	43,575,194	44,337,447	45,307,398
Commercial Therms	19,259,441	19,811,244	20,198,769	20,678,887	21,166,526	21,753,835	22,160,000	22,665,510	23,180,046	23,801,942
Industrial Therms	1,252,650	1,263,030	1,263,508	1,268,419	1,273,062	1,282,217	1,281,618	1,285,523	1,289,314	1,297,811
Ind., Inst., & Cmcl. Interrup. Therms	1,513,849	1,569,843	1,612,709	1,663,987	1,716,731	1,779,062	1,826,170	1,882,604	1,940,445	2,008,786
Total Core Therms	60,329,697	61,862,168	62,860,718	64,151,734	65,453,099	67,061,622	68,082,266	69,408,831	70,747,253	72,415,937
Daily Baseload Therms	43,586	44,497	45,419	46,353	47,296	48,246	49,202	50,165	51,138	52,117
Peak Day Therms	627,478	640,540	653,772	667,184	680,700	694,306	707,998	721,767	735,655	749,626
Therms Per Residential Customer	713	716	713	713	713	716	713	713	713	716
Therms Per Commercial Customer	2,832	2,845	2,833	2,833	2,833	2,845	2,833	2,833	2,833	2,845
Therms Per Industrial Customer	19,818	19,890	19,813	19,811	19,809	19,881	19,804	19,802	19,801	19,873
Residential Customers	53,748	54,781	55,827	56,886	57,948	59,011	60,077	61,145	62,214	63,287
Commercial Customers	6,800	6,964	7,131	7,300	7,472	7,646	7,823	8,001	8,182	8,366
Industrial Customers	63	63	64	64	64	64	65	65	65	65
Interruptible Customers	19	19	20	21	21	22	23	23	24	25
Total Core Customers	60,630	61,828	63,042	64,271	65,506	66,744	67,987	69,234	70,486	71,742

Mount Vernon District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.90%	2.33%	1.43%	1.86%	1.83%	2.25%	1.33%	1.75%	1.73%	2.16%
Residential Therms	31,217,979	31,916,440	32,333,319	32,899,691	33,465,733	34,185,313	34,596,628	35,161,354	35,725,405	36,453,660
Commercial Therms	17,586,186	18,062,618	18,390,085	18,798,997	19,213,555	19,718,318	20,057,194	20,486,006	20,920,889	21,453,050
Industrial Therms	1,787,661	1,803,957	1,807,692	1,816,827	1,825,840	1,840,376	1,842,392	1,850,482	1,858,035	1,871,803
Ind., Inst., & Cmcl. Interrup. Therms	1,957,785	1,993,130	2,012,321	2,039,871	2,067,416	2,102,929	2,121,771	2,148,859	2,175,691	2,211,279
Total Core Therms	52,549,610	53,776,145	54,543,417	55,555,386	56,572,545	57,846,936	58,617,986	59,646,701	60,680,020	61,989,792
Daily Baseload Therms	39,786	40,526	41,275	42,030	42,789	43,551	44,317	45,086	45,859	46,636
Peak Day Therms	545,450	555,762	566,206	576,743	587,332	597,956	608,625	619,331	630,084	640,881
Therms Per Residential Customer	676	679	676	676	676	679	676	676	676	679
Therms Per Commercial Customer	2,797	2,808	2,796	2,795	2,795	2,807	2,794	2,794	2,793	2,805
Therms Per Industrial Customer	13,769	13,828	13,795	13,809	13,823	13,884	13,852	13,868	13,883	13,945
Residential Customers	46,206	47,027	47,856	48,694	49,532	50,369	51,205	52,041	52,875	53,709
Commercial Customers	6,288	6,431	6,578	6,725	6,874	7,025	7,178	7,333	7,490	7,648
Industrial Customers	130	130	131	132	132	133	133	133	134	134
Interruptible Customers	18	18	18	19	19	19	19	20	20	20
Total Core Customers	52,642	53,607	54,583	55,570	56,557	57,546	58,536	59,527	60,519	61,512

Bremerton District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.88%	2.28%	1.42%	1.81%	1.79%	2.17%	1.30%	1.69%	1.66%	2.05%
Residential Therms	25,751,935	26,295,776	26,606,436	27,038,937	27,470,359	28,026,306	28,328,300	28,754,852	29,179,792	29,737,495
Commercial Therms	14,061,434	14,423,871	14,670,378	14,976,293	15,287,940	15,665,193	15,913,057	16,226,671	16,542,493	16,930,463
Industrial Therms	367,934	373,116	378,313	383,385	388,564	393,795	398,955	404,166	409,428	414,632
Ind., Inst., & Cmcl. Interrup. Therms	3,183,825	3,259,495	3,325,550	3,396,154	3,466,412	3,541,524	3,604,994	3,673,033	3,740,358	3,812,772
Total Core Therms	43,365,128	44,352,257	44,980,677	45,794,768	46,613,274	47,626,818	48,245,305	49,058,723	49,872,071	50,895,362
Daily Baseload Therms	33,763	34,419	35,082	35,746	36,415	37,082	37,749	38,413	39,078	39,743
Peak Day Therms	431,835	439,772	447,793	455,836	463,916	471,975	480,023	488,048	496,069	504,083
Therms Per Residential Customer	675	678	675	675	675	678	675	675	675	678
Therms Per Commercial Customer	3,617	3,632	3,617	3,617	3,617	3,632	3,617	3,617	3,617	3,632
Therms Per Industrial Customer	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105	19,105
Residential Customers	38,159	38,789	39,425	40,066	40,705	41,342	41,977	42,609	43,239	43,866
Commercial Customers	3,888	3,972	4,056	4,141	4,227	4,313	4,400	4,487	4,574	4,662
Industrial Customers	19	20	20	20	20	21	21	21	21	22
Interruptible Customers	13	14	14	14	14	15	15	15	16	16
Total Core Customers	42,080	42,794	43,515	44,241	44,967	45,691	46,413	47,132	47,850	48,565

Longview District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.69%	2.00%	1.31%	1.64%	1.61%	1.93%	1.22%	1.55%	1.52%	1.84%
Residential Therms	1,902,682	1,938,994	1,965,572	1,997,581	2,029,584	2,066,857	2,093,641	2,125,696	2,157,762	2,195,311
Commercial Therms	5,752,851	5,876,503	5,960,488	6,065,739	6,171,251	6,299,203	6,383,263	6,490,239	6,596,775	6,727,189
Industrial Therms	825,095	826,484	823,258	822,060	820,817	821,665	818,072	816,613	815,074	815,681
Ind., Inst., & Cmcl. Interrup. Therms	814,247	838,727	855,896	877,008	898,234	923,723	940,303	961,723	982,525	1,008,612
Total Core Therms	9,294,875	9,480,708	9,605,214	9,762,389	9,919,886	10,111,449	10,235,279	10,394,272	10,552,136	10,746,794
Daily Baseload Therms	8,646	8,767	8,889	9,011	9,133	9,255	9,376	9,498	9,619	9,741
Peak Day Therms	91,812	93,436	95,078	96,736	98,401	100,077	101,744	103,434	105,116	106,818
Therms Per Residential Customer	583	585	584	584	584	585	584	584	584	585
Therms Per Commercial Customer	3,887	3,899	3,885	3,884	3,883	3,895	3,881	3,880	3,879	3,891
Therms Per Industrial Customer	26,268	26,335	26,261	26,257	26,254	26,321	26,246	26,243	26,239	26,307
Residential Customers	3,261	3,314	3,368	3,423	3,477	3,532	3,586	3,641	3,696	3,750
Commercial Customers	1,480	1,507	1,534	1,562	1,589	1,617	1,645	1,673	1,701	1,729
Industrial Customers	31	31	31	31	31	31	31	31	31	31
Interruptible Customers	8	9	9	9	9	9	10	10	10	10
Total Core Customers	4,781	4,861	4,943	5,025	5,107	5,190	5,272	5,355	5,437	5,520

Aberdeen District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.97%	1.38%	0.50%	0.92%	0.88%	1.30%	0.39%	0.81%	0.78%	1.17%
Residential Therms	2,756,490	2,788,420	2,794,554	2,813,211	2,831,137	2,861,473	2,864,832	2,880,536	2,895,601	2,923,399
Commercial Therms	2,858,854	2,905,595	2,927,477	2,962,250	2,996,106	3,043,456	3,063,796	3,097,251	3,130,677	3,176,765
Industrial Therms	226,237	226,704	225,260	224,726	224,166	224,546	223,008	222,435	221,821	222,126
Ind., Inst., & Cmcl. Interrup. Therms	1,109,656	1,126,301	1,135,280	1,147,278	1,158,808	1,174,250	1,180,937	1,191,406	1,201,508	1,214,804
Total Core Therms	6,951,236	7,047,020	7,082,571	7,147,465	7,210,218	7,303,725	7,332,573	7,391,628	7,449,607	7,537,093
Daily Baseload Therms	6,866	6,935	7,003	7,070	7,134	7,199	7,260	7,321	7,381	7,437
Peak Day Therms	61,494	62,053	62,610	63,165	63,702	64,235	64,748	65,254	65,751	66,228
Therms Per Residential Customer	724	727	724	724	724	727	724	724	724	727
Therms Per Commercial Customer	3,298	3,312	3,298	3,298	3,298	3,312	3,298	3,298	3,298	3,312
Therms Per Industrial Customer	16,180	16,247	16,180	16,180	16,180	16,247	16,180	16,180	16,180	16,247
Residential Customers	3,810	3,836	3,862	3,888	3,913	3,937	3,959	3,981	4,002	4,022
Commercial Customers	867	877	888	898	908	919	929	939	949	959
Industrial Customers	14	14	14	14	14	14	14	14	14	14
Interruptible Customers	4	4	4	4	4	4	5	5	5	5
Total Core Customers	4,695	4,732	4,768	4,805	4,840	4,874	4,907	4,938	4,969	4,999

Kennewick District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.54%	2.92%	2.11%	2.48%	2.45%	2.82%	2.00%	2.36%	2.34%	2.70%
Residential Therms	19,547,268	20,088,813	20,474,794	20,950,268	21,429,633	22,002,825	22,399,976	22,890,699	23,385,317	23,982,388
Commercial Therms	17,963,311	18,529,081	18,952,081	19,459,582	19,975,315	20,583,763	21,030,607	21,568,121	22,115,939	22,763,959
Industrial Therms	460,408	466,176	471,929	477,634	483,320	489,012	494,638	500,302	505,922	511,604
Ind., Inst., & Cmcl. Interrup. Therms	2,262,062	2,321,975	2,380,466	2,441,275	2,503,043	2,567,270	2,629,562	2,694,056	2,759,658	2,827,559
Total Core Therms	40,233,049	41,406,045	42,279,271	43,328,759	44,391,311	45,642,869	46,554,784	47,653,177	48,766,836	50,085,510
Daily Baseload Therms	32,913	33,753	34,607	35,476	36,357	37,249	38,152	39,065	39,991	40,927
Peak Day Therms	576,576	591,007	605,700	620,635	635,750	651,042	666,506	682,112	697,926	713,895
Therms Per Residential Customer	623	626	624	625	625	628	626	626	627	630
Therms Per Commercial Customer	3,848	3,864	3,849	3,849	3,850	3,866	3,851	3,851	3,852	3,868
Therms Per Industrial Customer	19,516	19,517	19,518	19,519	19,520	19,521	19,522	19,523	19,524	19,525
Residential Customers	31,352	32,068	32,796	33,537	34,282	35,033	35,790	36,551	37,318	38,091
Commercial Customers	4,669	4,795	4,924	5,056	5,189	5,324	5,462	5,601	5,742	5,885
Industrial Customers	24	24	24	24	25	25	25	26	26	26
Interruptible Customers	25	25	26	27	27	28	29	30	30	31
Total Core Customers	36,069	36,913	37,771	38,643	39,523	40,411	41,305	42,207	43,116	44,033

Walla Walla District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.30%	1.74%	0.77%	1.22%	1.17%	1.61%	0.63%	1.06%	1.03%	1.45%
Residential Therms	7,195,546	7,291,326	7,314,492	7,372,867	7,429,209	7,520,522	7,535,393	7,585,369	7,633,248	7,717,347
Commercial Therms	5,207,785	5,313,149	5,367,726	5,447,054	5,524,884	5,628,875	5,678,108	5,752,694	5,826,937	5,925,990
Industrial Therms	92,862	93,179	93,463	93,712	93,928	94,142	94,290	94,467	94,581	94,695
Ind., Inst., & Cmcl. Interrup. Therms	2,257,161	2,312,854	2,350,281	2,396,177	2,441,088	2,495,221	2,530,034	2,572,705	2,615,041	2,666,865
Total Core Therms	14,753,354	15,010,508	15,125,962	15,309,811	15,489,109	15,738,761	15,837,825	16,005,235	16,169,807	16,404,896
Daily Baseload Therms	14,072	14,266	14,458	14,648	14,833	15,017	15,196	15,370	15,542	15,708
Peak Day Therms	200,789	203,215	205,614	207,994	210,313	212,594	214,813	216,973	219,092	221,135
Therms Per Residential Customer	598	601	598	598	598	601	598	598	598	601
Therms Per Commercial Customer	3,308	3,324	3,308	3,308	3,308	3,324	3,308	3,308	3,308	3,324
Therms Per Industrial Customer	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,541
Residential Customers	12,032	12,132	12,231	12,328	12,423	12,513	12,600	12,684	12,764	12,841
Commercial Customers	1,574	1,598	1,623	1,646	1,670	1,693	1,716	1,739	1,761	1,783
Industrial Customers	17	17	17	17	17	17	17	17	17	17
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	13,627	13,751	13,874	13,996	14,114	14,228	14,338	14,444	14,547	14,645

Wenatchee District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.63%	1.93%	1.25%	1.54%	1.53%	1.82%	1.14%	1.44%	1.42%	1.73%
Residential Therms	1,473,463	1,498,844	1,510,401	1,528,945	1,547,336	1,572,701	1,583,303	1,600,986	1,618,427	1,643,216
Commercial Therms	5,912,096	6,041,853	6,134,288	6,245,534	6,358,022	6,491,140	6,582,790	6,695,575	6,808,242	6,943,527
Industrial Therms	4,344,585	4,418,413	4,462,730	4,520,395	4,578,069	4,649,983	4,690,970	4,746,177	4,800,772	4,871,382
Ind., Inst., & Cmcl. Interrup. Therms	651,471	661,349	671,407	681,285	691,407	701,348	711,527	721,479	731,574	741,729
Total Core Therms	12,381,614	12,620,461	12,778,826	12,976,159	13,174,834	13,415,172	13,568,590	13,764,218	13,959,015	14,199,854
Daily Baseload Therms	13,355	13,559	13,765	13,968	14,172	14,374	14,576	14,776	14,976	15,175
Peak Day Therms	130,871	132,943	135,026	137,091	139,167	141,222	143,278	145,321	147,353	149,381
Therms Per Residential Customer	496	498	496	495	495	497	495	495	494	496
Therms Per Commercial Customer	4,519	4,539	4,529	4,534	4,538	4,558	4,548	4,552	4,557	4,576
Therms Per Industrial Customer	94,230	94,746	94,628	94,838	95,050	95,564	95,455	95,649	95,845	96,353
Residential Customers	2,969	3,008	3,047	3,086	3,125	3,163	3,200	3,238	3,274	3,311
Commercial Customers	1,308	1,331	1,354	1,378	1,401	1,424	1,447	1,471	1,494	1,517
Industrial Customers	46	47	47	48	48	49	49	50	50	51
Interruptible Customers	8	9	9	9	9	9	9	9	9	10
Total Core Customers	4,332	4,395	4,457	4,520	4,583	4,644	4,706	4,767	4,828	4,888

Yakima District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.21%	1.60%	0.75%	1.14%	1.12%	1.50%	0.64%	1.03%	1.00%	1.39%
Residential Therms	17,335,633	17,574,326	17,649,566	17,804,390	17,954,584	18,183,831	18,240,623	18,376,571	18,507,821	18,721,144
Commercial Therms	21,192,765	21,631,948	21,889,269	22,236,559	22,583,052	23,022,346	23,265,490	23,602,477	23,938,573	24,371,096
Industrial Therms	5,356,373	5,380,258	5,377,700	5,386,648	5,394,727	5,414,449	5,408,638	5,414,707	5,419,937	5,437,084
Ind., Inst., & Cmcl. Interrup. Therms	1,548,152	1,574,057	1,590,914	1,612,103	1,633,346	1,659,253	1,675,420	1,696,205	1,716,954	1,742,531
Total Core Therms	45,432,924	46,160,589	46,507,450	47,039,700	47,565,708	48,279,880	48,590,171	49,089,960	49,583,286	50,271,854
Daily Baseload Therms	29,820	30,143	30,462	30,779	31,091	31,397	31,699	31,996	32,288	32,574
Peak Day Therms	514,147	520,416	526,655	532,855	538,982	544,998	550,917	556,739	562,486	568,107
Therms Per Residential Customer	611	614	611	611	610	613	610	610	610	612
Therms Per Commercial Customer	3,269	3,282	3,267	3,266	3,265	3,277	3,262	3,261	3,260	3,273
Therms Per Industrial Customer	34,899	34,952	34,842	34,814	34,785	34,838	34,729	34,702	34,675	34,727
Residential Customers	28,368	28,634	28,898	29,159	29,414	29,660	29,899	30,130	30,354	30,571
Commercial Customers	6,483	6,592	6,700	6,809	6,918	7,025	7,132	7,237	7,343	7,447
Industrial Customers	153	154	154	155	155	155	156	156	156	157
Interruptible Customers	24	24	25	25	25	26	26	27	27	27
Total Core Customers	35,028	35,404	35,777	36,148	36,512	36,866	37,212	37,550	37,880	38,201

Central Oregon (Bend) District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.95%	3.38%	2.47%	2.89%	2.87%	3.28%	2.36%	2.78%	2.75%	3.18%
Residential Therms	44,268,356	45,790,366	46,933,861	48,315,187	49,720,578	51,380,127	52,604,028	54,082,719	55,585,964	57,371,836
Commercial Therms	27,683,316	28,665,513	29,417,695	30,308,305	31,221,302	32,292,309	33,099,490	34,067,401	35,056,222	36,223,132
Industrial Therms	2,329,666	2,358,493	2,371,861	2,392,635	2,413,583	2,441,825	2,454,643	2,475,031	2,494,989	2,523,456
Ind., Inst., & Cmcl. Interrup. Therms	1,176,471	1,195,886	1,211,136	1,228,226	1,245,717	1,265,241	1,280,658	1,298,012	1,315,724	1,335,553
Total Core Therms	75,457,809	78,010,257	79,934,552	82,244,353	84,601,181	87,379,501	89,438,819	91,923,163	94,452,898	97,453,976
Daily Baseload Therms	49,186	50,631	52,110	53,617	55,157	56,723	58,317	59,940	61,595	63,280
Peak Day Therms	937,535	964,943	992,979	1,021,589	1,050,776	1,080,468	1,110,681	1,141,438	1,172,749	1,204,637
Therms Per Residential Customer	748	752	749	750	750	754	751	751	751	755
Therms Per Commercial Customer	2,848	2,861	2,849	2,849	2,849	2,862	2,849	2,849	2,849	2,862
Therms Per Industrial Customer	25,686	25,746	25,640	25,621	25,595	25,650	25,545	25,521	25,493	25,547
Residential Customers	59,153	60,881	62,650	64,462	66,304	68,177	70,081	72,018	73,986	75,986
Commercial Customers	9,719	10,019	10,327	10,639	10,959	11,285	11,617	11,956	12,303	12,656
Industrial Customers	91	92	93	93	94	95	96	97	98	99
Interruptible Customers	9	9	9	9	9	9	9	9	10	10
Total Core Customers	68,972	71,001	73,078	75,203	77,366	79,566	81,804	84,080	86,396	88,751

Pendleton District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.46%	1.79%	1.05%	1.38%	1.37%	1.70%	0.94%	1.27%	1.24%	1.61%
Residential Therms	5,325,380	5,388,767	5,417,752	5,463,367	5,507,843	5,568,530	5,592,668	5,633,189	5,672,430	5,728,642
Commercial Therms	7,067,901	7,238,794	7,347,505	7,488,249	7,631,165	7,809,071	7,917,996	8,059,972	8,202,098	8,384,327
Industrial Therms	500,451	502,541	502,330	503,232	503,944	505,712	505,139	505,520	505,855	507,318
Ind., Inst., & Cmcl. Interrup. Therms	1,849,429	1,877,064	1,896,447	1,919,004	1,941,124	1,966,443	1,983,530	2,003,429	2,022,458	2,045,919
Total Core Therms	14,743,161	15,007,167	15,164,033	15,373,851	15,584,076	15,849,755	15,999,333	16,202,110	16,402,840	16,666,206
Daily Baseload Therms	13,085	13,278	13,474	13,668	13,862	14,053	14,246	14,433	14,619	14,806
Peak Day Therms	218,043	220,969	223,931	226,861	229,788	232,667	235,550	238,355	241,126	243,899
Therms Per Residential Customer	459	460	459	459	459	460	459	459	459	460
Therms Per Commercial Customer	3,018	3,033	3,020	3,021	3,022	3,036	3,023	3,024	3,025	3,039
Therms Per Industrial Customer	17,116	17,140	17,088	17,074	17,059	17,082	17,031	17,016	17,002	17,024
Residential Customers	11,604	11,705	11,806	11,905	12,002	12,096	12,187	12,275	12,361	12,444
Commercial Customers	2,342	2,387	2,433	2,479	2,526	2,572	2,619	2,665	2,712	2,759
Industrial Customers	29	29	29	29	30	30	30	30	30	30
Interruptible Customers	10	10	10	10	10	11	11	11	11	11
Total Core Customers	13,985	14,131	14,278	14,424	14,568	14,708	14,847	14,981	15,113	15,243

Eastern Oregon (Ontario) District	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	0.40%	0.82%	-0.06%	0.33%	0.33%	0.70%	-0.20%	0.22%	0.21%	0.61%
Residential Therms	4,222,367	4,256,618	4,247,468	4,258,997	4,269,469	4,299,929	4,286,173	4,292,720	4,297,880	4,323,852
Commercial Therms	4,248,416	4,291,282	4,292,864	4,312,155	4,333,511	4,372,075	4,367,005	4,383,019	4,399,922	4,436,076
Industrial Therms	232,679	232,252	231,865	231,418	230,950	230,471	229,954	229,420	228,890	228,362
Ind., Inst., & Cmcl. Interrup. Therms	991,987	995,199	997,131	999,064	1,000,293	1,000,632	1,000,570	1,000,017	999,421	998,557
Total Core Therms	9,695,449	9,775,351	9,769,328	9,801,634	9,834,222	9,903,106	9,883,703	9,905,176	9,926,113	9,986,847
Daily Baseload Therms	3,799	3,807	3,814	3,820	3,827	3,831	3,835	3,839	3,843	3,846
Peak Day Therms	122,088	122,555	122,998	123,395	123,787	124,100	124,377	124,628	124,870	125,070
Therms Per Residential Customer	580	583	580	580	580	583	580	580	580	583
Therms Per Commercial Customer	2,764	2,779	2,766	2,767	2,769	2,783	2,771	2,772	2,773	2,788
Therms Per Industrial Customer	10,251	10,250	10,250	10,250	10,249	10,249	10,249	10,249	10,249	10,249
Residential Customers	7,281	7,302	7,323	7,343	7,360	7,375	7,388	7,399	7,407	7,414
Commercial Customers	1,537	1,544	1,552	1,558	1,565	1,571	1,576	1,581	1,587	1,591
Industrial Customers	23	23	23	23	23	22	22	22	22	22
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	8,842	8,871	8,899	8,925	8,950	8,970	8,989	9,005	9,018	9,030

Oregon	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.48%	2.90%	2.02%	2.43%	2.42%	2.83%	1.94%	2.35%	2.33%	2.75%
Residential Therms	53,816,103	55,435,751	56,599,080	58,037,551	59,497,889	61,248,585	62,482,870	64,008,629	65,556,273	67,424,330
Commercial Therms	38,999,634	40,195,589	41,058,064	42,108,709	43,185,979	44,473,455	45,384,491	46,510,392	47,658,242	49,043,536
Industrial Therms	3,062,796	3,093,286	3,106,055	3,127,285	3,148,477	3,178,007	3,189,737	3,209,971	3,229,734	3,259,135
Ind., Inst., & Cmcl. Interrup. Therms	4,017,887	4,068,149	4,104,713	4,146,294	4,187,134	4,232,316	4,264,758	4,301,458	4,337,602	4,380,029
Total Core Therms	99,896,420	102,792,775	104,867,912	107,419,839	110,019,479	113,132,362	115,321,855	118,030,449	120,781,851	124,107,030
Daily Baseload Therms	66,119	67,765	69,447	71,154	72,895	74,658	76,448	78,263	80,108	81,982
Peak Day Therms	1,277,666	1,308,467	1,339,908	1,371,845	1,404,351	1,437,235	1,470,607	1,504,421	1,538,745	1,573,606
Therms Per Residential Customer	11,110	11,155	11,110	11,110	11,110	11,155	11,110	11,110	11,110	11,155
Therms Per Commercial Customer	62,670	62,943	62,670	62,670	62,670	62,943	62,670	62,670	62,670	62,943
Therms Per Industrial Customer	220,582	221,122	220,582	220,582	220,582	221,122	220,582	220,582	220,582	221,122
Residential Customers	78,038	79,889	81,779	83,709	85,666	87,648	89,657	91,692	93,754	95,844
Commercial Customers	13,598	13,951	14,312	14,676	15,050	15,428	15,812	16,203	16,601	17,006
Industrial Customers	143	144	145	145	146	147	148	149	150	151
Interruptible Customers	21	21	21	21	22	22	22	22	22	23
Total Core Customers	91,799	94,004	96,256	98,552	100,883	103,245	105,639	108,066	110,527	113,024

Washington	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	1.85%	2.25%	1.39%	1.79%	1.77%	2.17%	1.29%	1.69%	1.66%	2.06%
Residential Therms	145,484,754	148,610,992	150,434,868	152,946,332	155,454,354	158,666,335	160,457,173	162,951,257	165,440,821	168,681,358
Commercial Therms	109,794,721	112,595,862	114,490,562	116,870,895	119,276,651	122,206,129	124,134,305	126,584,543	129,060,571	132,093,980
Industrial Therms	14,713,805	14,851,316	14,903,853	14,993,806	15,082,494	15,210,185	15,252,581	15,334,873	15,414,884	15,536,818
Ind., Inst., & Cmcl. Interrup. Therms	15,298,208	15,657,730	15,934,823	16,255,138	16,576,484	16,944,582	17,220,719	17,542,071	17,863,754	18,234,935
Total Core Therms	285,291,488	291,715,900	295,764,106	301,066,172	306,389,984	313,027,231	317,064,778	322,412,744	327,780,030	334,547,092
Daily Baseload Therms	222,809	226,864	230,960	235,081	239,221	243,371	247,527	251,690	255,871	260,058
Peak Day Therms	3,180,450	3,239,143	3,298,453	3,358,237	3,418,263	3,478,406	3,538,654	3,598,980	3,659,531	3,720,153
Therms Per Residential Customer	34,911	35,042	34,910	34,909	34,909	35,040	34,907	34,907	34,906	35,038
Therms Per Commercial Customer	138,308	138,711	138,288	138,278	138,269	138,673	138,251	138,243	138,235	138,640
Therms Per Industrial Customer	1,026,284	1,028,545	1,026,140	1,026,073	1,026,007	1,028,277	1,025,882	1,025,823	1,025,766	1,028,044
Residential Customers	219,905	223,589	227,312	231,068	234,818	238,559	242,293	246,018	249,735	253,447
Commercial Customers	33,356	34,068	34,789	35,515	36,249	36,988	37,732	38,480	39,236	39,996
Industrial Customers	498	500	502	505	507	509	511	513	515	516
Interruptible Customers	124	126	129	132	134	137	140	143	145	148
Total Core Customers	253,883	258,284	262,732	267,219	271,708	276,193	280,676	285,154	289,631	294,107

System	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total Therms Pct. Growth	2.01%	2.42%	1.55%	1.96%	1.94%	2.34%	1.46%	1.86%	1.84%	2.25%
Residential Therms	199,300,857	204,046,743	207,033,948	210,983,883	214,952,243	219,914,920	222,940,042	226,959,886	230,997,094	236,105,688
Commercial Therms	148,794,355	152,791,451	155,548,625	158,979,604	162,462,630	166,679,584	169,518,796	173,094,935	176,718,813	181,137,516
Industrial Therms	17,776,601	17,944,602	18,009,908	18,121,091	18,230,971	18,388,192	18,442,318	18,544,844	18,644,618	18,795,954
Ind., Inst., & Cmcl. Interrup. Therms	19,316,094	19,725,879	20,039,536	20,401,432	20,763,618	21,176,898	21,485,477	21,843,528	22,201,356	22,614,964
Total Core Therms	385,187,908	394,508,675	400,632,018	408,486,010	416,409,463	426,159,593	432,386,633	440,443,193	448,561,881	458,654,121
Daily Baseload Therms	288,927	294,630	300,407	306,235	312,116	318,028	323,975	329,953	335,979	342,041
Peak Day Therms	4,458,116	4,547,610	4,638,361	4,730,082	4,822,614	4,915,641	5,009,260	5,103,401	5,198,276	5,293,759
Therms Per Residential Customer	46,020	46,197	46,019	46,019	46,018	46,195	46,017	46,017	46,016	46,193
Therms Per Commercial Customer	200,978	201,653	200,957	200,948	200,938	201,615	200,921	200,912	200,904	201,582
Therms Per Industrial Customer	1,246,866	1,249,667	1,246,723	1,246,655	1,246,589	1,249,399	1,246,465	1,246,406	1,246,349	1,249,166
Residential Customers	297,943	303,478	309,090	314,777	320,484	326,206	331,950	337,710	343,489	349,291
Commercial Customers	46,954	48,019	49,100	50,191	51,299	52,416	53,544	54,683	55,837	57,002
Industrial Customers	640	644	647	650	653	656	659	662	664	667
Interruptible Customers	144	147	150	153	156	159	162	165	168	171
Total Core Customers	345,682	352,287	358,988	365,771	372,591	379,437	386,315	393,220	400,159	407,131

Appendix C

Guideline Compliance

UG-160453

Cascade Natural Gas IRP Review Docket UG-160453		
Rule	**Requirement**	**Plan Citation**
WAC 480-90-238(4)	Work plan filed no later than 12 months before next IRP due date.	Cascade filed the 2016 IRP Work Plan on April 29, 2016. An updated Work Plan was filed on June 29, 2016 and October 4, 2016.
WAC 480-90-238(4)	Work plan outlines content of IRP.	Contents of the IRP were outlined in the Work Plan.
WAC 480-90-238(4)	Work plan outlines method for assessing potential resources. (See LRC analysis below)	Methods for assessing potential resources were outlined in the Work Plan.
WAC 480-90-238(5)	Work plan outlines timing and extent of public participation.	Timing and extent of public participation were outlined in the Work Plan.
WAC 480-90-238(4)	Integrated resource plan submitted within two years of previous plan.	Please refer to Section 11, page 11-2, Short History about Compressed Time Schedule.
WAC 480-90-238(5)	Commission issues notice of public hearing after company files plan for review.	***Pending***
WAC 480-90-238(5)	Commission holds public hearing.	***Pending***
WAC 480-90-238(2)(a)	Plan describes mix of natural gas supply resources.	Cascade described current and alternative resources in Section 4. Cascade described how it was applied to the Integrated Resource Plan in Section 8.
WAC 480-90-238(2)(a)	Plan describes conservation supply.	Cascade describes conservation supply in Sections 7 and 8.
WAC 480-90-238(2)(a)	Plan addresses supply in terms of current and future needs of utility and ratepayers.	Cascade analyzed supply in terms of current and future needs in Section 3 by using demand forecasts.
WAC 480-90-238(2)(a)&(b)	Plan uses lowest reasonable cost (LRC) analysis to select mix of resources.	With the use of SENDOUT® Cascade modeled alternative resources such as Satellite LNG, incremental transport, incremental supply, and incremental storage. After considering these factors, Cascade chose the LRC Portfolio. This is discussed further in Section 8.
WAC 480-90-238(2)(b)	LRC analysis considers resource costs.	Section 8 discusses resource costs for current as well as alternative Supply-Side Resources.
WAC 480-90-238(2)(b)	LRC analysis considers market-volatility risks.	Using SENDOUT® Cascade was able to develop demand and price forecasts with effects of market-volatility on price. Low, expected, high, and carbon adders were analyzed. Monte Carlo simulations on prices were also done to stress test the preferred portfolio. This is discussed further in Section 8.
WAC 480-90-238(2)(b)	LRC analysis considers demand side uncertainties.	In Section 3, uncertainty around future needs was analyzed by Demand Sensitivity Analysis.
WAC 480-90-238(2)(b)	LRC analysis considers resource effect on system operation.	Please refer to Section 4 as well as Section 8.
WAC 480-90-238(2)(b)	LRC analysis considers risks imposed on ratepayers.	Please refer to Supply-Side Uncertainties in Section 4.
WAC 480-90-238(2)(b)	LRC analysis considers public policies regarding resource preference adopted by Washington state or federal government.	Please refer to Section 5. Section 5 discusses environmental considerations such as the Clean Air Act and Carbon Cost risks.
WAC 480-90-238(2)(b)	LRC analysis considers cost of risks associated with environmental effects including emissions of carbon dioxide.	Please refer to Section 5. Section 5 discusses environmental considerations such as the Clean Air Act and Carbon Cost risks.
WAC 480-90-238(2)(b)	LRC analysis considers need for security of supply.	Please refer to Sections 4 and 8.
WAC 480-90-238(2)(c)	Plan defines conservation as any reduction in natural gas consumption that results from increases in the efficiency of energy use or distribution.	In Section 7 as well as in Appendix D, the Plan defines reduction in natural gas consumption that results from the installation of energy efficient equipment.
WAC 480-90-238(3)(a)	Plan includes a range of forecasts of future demand.	Cascade developed a demand forecast at the Citygate and Citygate Loop level with different sensitivity analysis described in Section 3. Results of the long range forecast is located in Appendix B.
WAC 480-90-238(3)(a)	Plan develops forecasts using methods that examine the effect of economic forces on the consumption of natural gas.	Using SENDOUT® Cascade was able to develop forecast with effects of economic forces on price. Low, expected, high, and carbon adders were analyzed. Monte Carlo simulations on prices were also done to stress test the preferred portfolio. This is discussed further in Section 8.
WAC 480-90-238(3)(a)	Plan develops forecasts using methods that address changes in the number, type and efficiency of natural gas end-uses.	High and low load growth, which can be seen as an affect of changes in the number, type and efficiency of natural gas end-users, were analyzed in SENDOUT®. This is discussed further in Sections 3 and 8.
WAC 480-90-238(3)(b)	Plan includes an assessment of commercially available conservation, including load management.	This is addressed in Section 7.
WAC 480-90-238(3)(b)	Plan includes an assessment of currently employed and new policies and programs needed to obtain the conservation improvements.	This is addressed in Section 7.
WAC 480-90-238(3)(c)	Plan includes an assessment of conventional and commercially available nonconventional gas supplies.	This is addressed in Section 7.
WAC 480-90-238(3)(d)	Plan includes an assessment of opportunities for using company-owned or contracted storage.	Please refer to Section 4 as well as Section 8.
WAC 480-90-238(3)(e)	Plan includes an assessment of pipeline transmission capability and reliability and opportunities for additional pipeline transmission resources.	Please refer to Section 8 of the IRP.
WAC 480-90-238(3)(f)	Plan includes a comparative evaluation of the cost of natural gas purchasing strategies, storage options, delivery resources, and improvements in conservation using a consistent method to calculate cost-effectiveness.	Please refer to Section 8 of the IRP.
WAC 480-90-238(3)(g)	Plan includes at least a 10 year long-range planning horizon.	Yes, the plan includes a 20 year long-range planning horizon.
WAC 480-90-238(3)(g)	Demand forecasts and resource evaluations are integrated into the long range plan for resource acquisition.	Demand forecasts, in Section 3 and Appendix B, are modeled in SENDOUT® to evaluate resources integrated into the long range plan for resource acquisition.
WAC 480-90-238(3)(h)	Plan includes a two-year action plan that implements the long range plan.	Cascade describes a two-year action plan in Section 1, pages 1-16 and 1-17, as well as in Section 12, page 12-5.
WAC 480-90-238(3)(i)	Plan includes a progress report on the implementation of the previously filed plan.	Please refer to Section 11, page 11-2, Short History about Compressed Time Schedule.
WAC 480-90-238(5)	Plan includes description of consultation with commission staff. (Description not required)	WUTC Staff was a member of Cascade's Technical Advisory Group (TAG). Cascade documents consultation with WUTC Staff in the public participation in Section 10 as well as Appendix A.
WAC 480-90-238(5)	Plan includes description of completion of work plan. (Description not required)	Completed.

Appendix D

Demand Side Management

UG-160453

Table of Contents

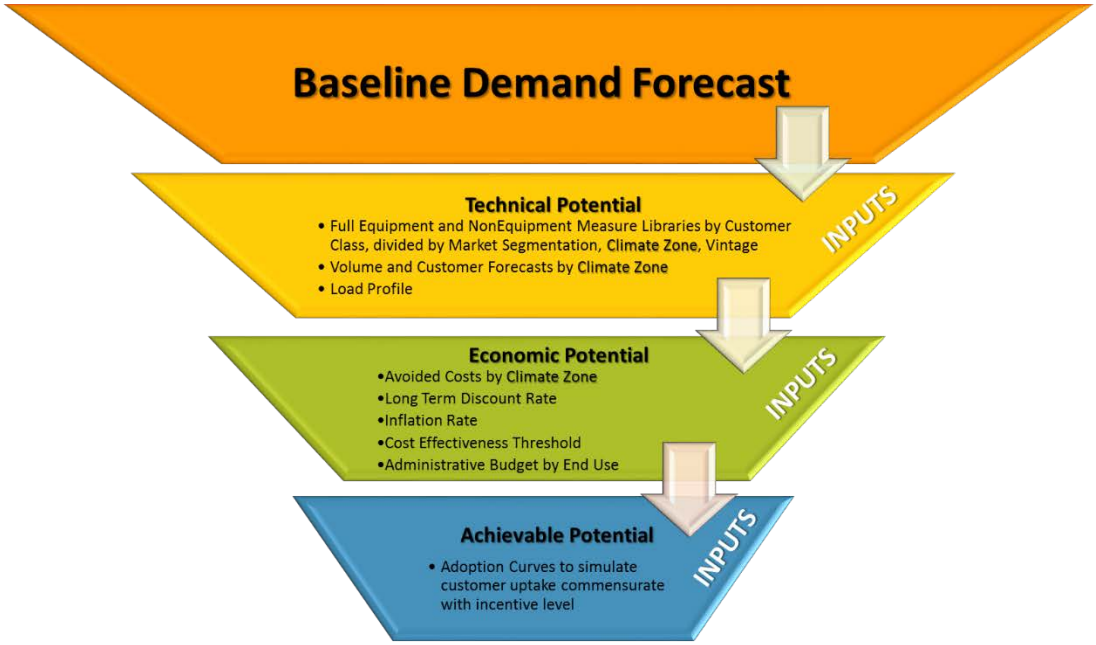
Breakdown of Scenarios by Customer Class with Adoption Curves

Residential Incentive Listing

Commercial-Industrial Incentive Listing

Equipment and Non Equipment Libraries

TEA-Pot Inputs Flow Chart



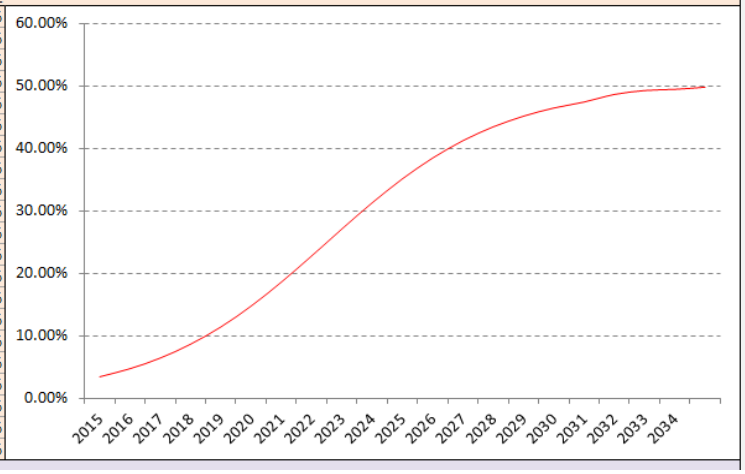
The above flowchart demonstrate Cascade's DSM modeling methodology and the inputs that effect each potential level of the forecast.

This is a simplified model that covers the inputs we collect on an ad-hoc basis (when Cascade runs the model). This does not address previous, semi-permanent Nexant researched inputs that define the Company's unique service territory, such as the market segmentation findings, SIC coding, end-use load classification, and vintages (i.e., turnover, early retirement, new), amongst others. For a complete breakdown of the TEA-Pot model, please reference the original Nexant Potential Study, Volume II.

Adoption Curve for Each Achievable Scenario and Incentive Level

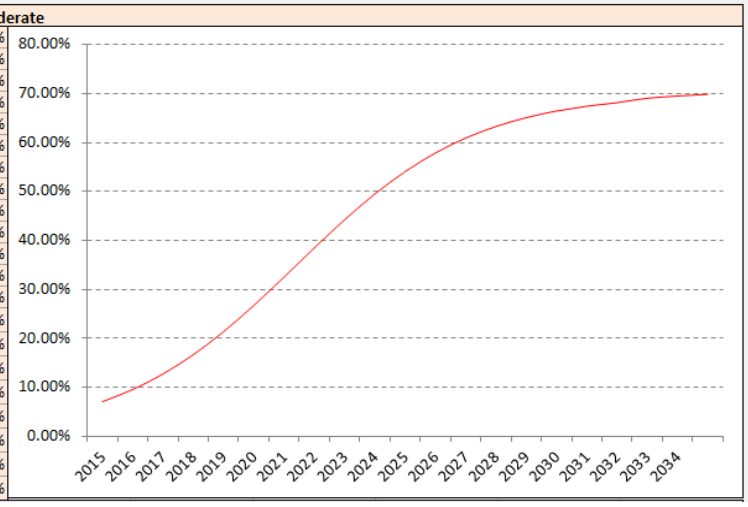
Achievable 1 - Adoption Curve for 30% of Incremental Costs Incentive Level

Name:	Achievable Base
2015	3.46%
2016	4.76%
2017	6.47%
2018	8.69%
2019	11.46%
2020	14.80%
2021	18.64%
2022	22.84%
2023	27.16%
2024	31.36%
2025	35.20%
2026	38.54%
2027	41.31%
2028	43.53%
2029	45.24%
2030	46.54%
2031	47.50%
2032	48.72%
2033	49.35%
2034	49.54%
	49.88%



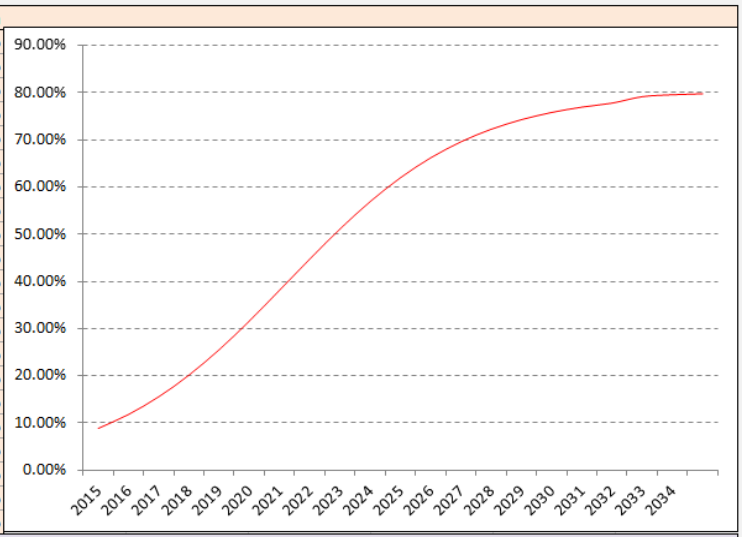
Achievable 2 - Adoption Curve for 50% of Incremental Costs Incentive Level

Name:	Achievable Moderate
2015	7.07%
2016	9.56%
2017	12.73%
2018	16.67%
2019	21.37%
2020	26.74%
2021	32.55%
2022	38.50%
2023	44.25%
2024	49.51%
2025	54.08%
2026	57.89%
2027	60.93%
2028	63.30%
2029	65.10%
2030	66.44%
2031	67.43%
2032	68.16%
2033	69.05%
2034	69.52%
	69.88%



Achievable 3 - Adoption Curve for 75% of Incremental Costs Incentive Level

Name:	Achievable High
2015	8.83%
2016	11.80%
2017	15.55%
2018	20.13%
2019	25.53%
2020	31.62%
2021	38.14%
2022	44.76%
2023	51.13%
2024	56.94%
2025	61.99%
2026	66.21%
2027	69.60%
2028	72.25%
2029	74.29%
2030	75.82%
2031	76.96%
2032	77.79%
2033	79.17%
2034	79.57%
	79.78%



Total Forecasted Potential Therm Savings by Customer Class, Program, and Combined (therms)

Residential Forecasts (therms)			
Year	Tech	Econ	Achievable
2017	1,153,065	960,841	323,878
2018	1,169,903	973,256	331,357
2019	1,184,300	985,292	340,468
2020	1,204,222	1,001,899	352,843
2021	1,213,571	1,009,714	363,984
2022	1,228,391	1,022,078	378,657
2023	1,243,366	1,034,568	395,111
2024	1,263,873	1,051,638	414,680
2025	1,273,121	1,059,334	431,139
2026	1,288,080	1,071,785	449,272
2027	1,302,901	1,084,093	466,452
2028	1,323,802	1,101,481	484,478
2029	1,332,855	1,108,992	496,550
2030	1,346,751	1,120,426	508,657
2031	1,360,395	1,131,650	519,158
2032	1,380,170	1,147,991	530,765
2033	1,387,405	1,153,884	536,512
2034	1,400,722	1,164,845	545,271
2035	1,414,005	1,175,781	552,472
2036	1,435,386	1,193,634	561,700

Commercial/Industrial Forecasts (therms)			
Year	Tech	Econ	Achievable
2017	3,399,034	1,854,613	515,998
2018	3,452,896	1,885,068	545,217
2019	3,502,105	1,911,548	580,973
2020	3,565,442	1,946,157	626,755
2021	3,604,272	1,967,465	675,894
2022	3,657,915	1,996,713	735,221
2023	3,710,809	2,025,969	800,558
2024	3,780,448	2,064,006	872,792
2025	3,819,939	2,085,799	938,231
2026	3,875,030	2,116,061	1,004,324
2027	3,928,224	2,145,386	1,064,697
2028	3,999,479	2,184,484	1,123,630
2029	4,036,383	2,204,858	1,166,051
2030	4,090,945	2,234,827	1,207,197
2031	4,143,535	2,263,714	1,242,185
2032	4,211,920	2,301,211	1,277,411
2033	4,247,266	2,320,633	1,299,065
2034	4,300,942	2,350,312	1,325,558
2035	4,351,743	2,378,098	1,350,379
2036	4,428,426	2,420,644	1,379,572

Total Conservation Forecasts (therms)			
Year	Technical	Economic	Achievable
2017	4,552,099	2,815,454	839,876
2018	4,622,799	2,858,324	876,574
2019	4,686,406	2,896,840	921,441
2020	4,769,664	2,948,056	979,599
2021	4,817,844	2,977,179	1,039,878
2022	4,886,307	3,018,791	1,113,877
2023	4,954,176	3,060,537	1,195,669
2024	5,044,322	3,115,644	1,287,472
2025	5,093,061	3,145,133	1,369,370
2026	5,163,110	3,187,846	1,453,596
2027	5,231,124	3,229,479	1,531,149
2028	5,323,281	3,285,965	1,608,109
2029	5,369,238	3,313,850	1,662,601
2030	5,437,697	3,355,253	1,715,853
2031	5,503,930	3,395,364	1,761,343
2032	5,592,090	3,449,201	1,808,177
2033	5,634,670	3,474,518	1,835,577
2034	5,701,664	3,515,157	1,870,829
2035	5,765,748	3,553,879	1,902,851
2036	5,863,812	3,614,278	1,941,272

Commercial Forecasts (therms)			
Year	Tech	Econ	Achievable
2017	3,178,361	1,726,527	468,479
2018	3,228,640	1,755,071	496,521
2019	3,275,345	1,780,082	530,929
2020	3,335,788	1,812,997	575,035
2021	3,372,961	1,833,333	622,516
2022	3,424,468	1,861,331	679,805
2023	3,475,362	1,889,417	742,897
2024	3,542,475	1,925,981	812,585
2025	3,580,683	1,947,024	875,725
2026	3,633,982	1,976,240	939,436
2027	3,685,422	2,004,543	997,584
2028	3,754,384	2,042,306	1,054,356
2029	3,790,238	2,062,067	1,095,213
2030	3,843,214	2,091,112	1,134,886
2031	3,894,232	2,119,085	1,168,627
2032	3,960,462	2,155,328	1,202,616
2033	3,994,967	2,174,260	1,223,571
2034	4,047,168	2,203,081	1,249,084
2035	4,096,585	2,230,060	1,273,176
2036	4,171,528	2,271,522	1,301,660

Industrial Forecasts (therms)			
Year	Tech	Econ	Achievable
2017	220,673	128,086	47,520
2018	224,256	129,997	48,695
2019	226,760	131,466	50,045
2020	229,654	133,160	51,720
2021	231,311	134,131	53,378
2022	233,448	135,382	55,416
2023	235,447	136,552	57,661
2024	237,973	138,025	60,207
2025	239,256	138,776	62,506
2026	241,048	139,821	64,888
2027	242,802	140,844	67,113
2028	245,094	142,178	69,274
2029	246,146	142,791	70,838
2030	247,731	143,715	72,311
2031	249,302	144,629	73,558
2032	251,458	145,883	74,796
2033	252,299	146,374	75,494
2034	253,774	147,231	76,474
2035	255,158	148,038	77,203
2036	256,898	149,123	77,911

Note: These incentives demonstrate the Company's CIP portfolio at the time of writing of this IRP.

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

Cascade Natural Gas Conservation Incentive Program Existing & New Homes Incentives

New & Existing Homes

Energy-Saving Measure	Basic Specifications	Incentive
High-Efficiency Natural Gas Furnace[1]	95% + AFUE	$250
High-Efficiency Natural Gas Hearth (Fireplace)	70% + FE (Fireplace Efficiency)[2] 80% + AFUE (Annual Fuel Utilization Efficiency)	$150 $250
High-Efficiency Combination Domestic Hot Water and Hydronic Space Heating System using pre-approved Tankless Water Heater[3]	90% + AFUE	$825
Condensing High-Efficiency Natural Gas Tankless Water Heater	0.91 + EF	$150
Conventional High-Efficiency Natural Gas Water Heater	0.67 + EF	$45
High-Efficiency Exterior Entry (not sliding) Door[1]	U ≤ 0.21	$50

Existing Homes Incentives

Energy-Saving Measure	Basic Specifications	Incentive
Floor Insulation[1&4]	Equal to or greater than R-30 or to fill cavity[5], prior condition must not exceed R-11	$0.30/sq.ft.
Wall Insulation[1&4]	Equal to or greater than R-11 or to fill cavity, prior condition must not exceed R-4	$0.35/sq.ft.
Ceiling or Attic Insulation[1&4]	Equal to or greater than R-38, prior condition must not exceed R-18	$0.30/sq.ft.
Whole House Residential Air Sealing[1&4]	Minimum 400 CFM50 reduction using pre and post blower door testing[6]	$100

Efficient New Home Packages

Energy-Saving Measure	Basic Specifications	Incentive
ENERGY STAR® Certified Home[1&7]	National Program Requirements Version 3.1 (Rev. 08)	$600
Built Green Certified Home[1&7]	Requires Built Green Certification	$600

1. *Home must be heated by natural gas.*
2. *Must use intermittent ignition device.*
3. *Water must be heated with a tankless system. Pre-approval from CNGC required. Boilers do not qualify.*
4. *All insulation and air sealing must be performed by a CNGC qualified Trade Ally in order to be eligible for a rebate through the Conservation Incentive Program. Attic insulation cannot be filled to cavity.*
5. *Minimum of R-19 or higher to fill cavity.*
6. *Requires WA Department of Commerce Combustion Safety Test Report Exhibit 5.3.1A. Whole House Residential Air Sealing must comply with Washington State Energy Code section 502.4.5*
7. *These incentives are only applicable to new homes, not available to existing homes.They may not be combined with any other measure except Hearths.*

Last Updated 09/2016

CASCADE NATURAL GAS CORPORATION®
A Subsidiary of MDU Resources Group, Inc.
In the Community to Serve®

Commercial/Industrial Standard Incentives

Warm Air Furnaces - $3.00/kBtu/hr
High Efficiency Condensing Furnace—Min 91% AFUE

HVAC Unit Heater - $1.50/kBtu/hr
High Efficiency Non-Condensing Min—86% AFUE

HVAC Unit Heater - $3.00/kBtu/hr
High Efficiency Condensing Min—92% AFUE

Radiant Heating - $6.95/kBtu/hr
Direct fired radiant heating

Boiler - $4.00/kBtu/hr
High Efficiency Condensing Boiler
Min 90% Thermal Eff & 300 kBtu input

Boiler Vent Damper - $1,000
Min 1,000 kBtu input

Boiler Steam Trap[1] - $125
Min 300 kBtu in; steam pressure at 7psig or >

Domestic Hot Water Tanks[3] - $2.50/kBtu/hr
Condensing tank, Min 91% Thermal Eff

Domestic Hot Water Tankless Water Heater[3] - $60/gpm
ENERGY STAR® .82 EF

Attic Insulation - (retrofit only)
Tier 1: Min R-30 - **$0.50/sq ft**
Tier 2: Min R-45 - **$0.65/sq ft**

Roof Insulation - (retrofit only)
Tier 1: Min R-21 - **$0.60/sq ft**
Tier 2: Min R-30 - **$0.80/sq ft**

Wall Insulation[2] - (retrofit only)
Tier 1: Min R-11 - **$0.50/sq ft**
Tier 2: Min R-19 - **$0.56/sq ft**

Energy Savings Kits[3] - FREE
A: Kitchen Pre Rinse Spray Valve & Bath Aerators
B: Low Flow Showerhead

Ozone Injection Laundry[3] - $2,500
Venturi injection or bubble diffusion - Min 125 lb. total washer/extractor capacity. **Pre-approval required.**

Motion Control Faucet[3] - $105
Maximum flow rate of 1.8 gpm
WaterSense® Certified and Below Deck Mixing Valve

Clothes Washer[3] - $180
Commercial gas washer—1.8 MEF

Gas Convection Oven - $450
ENERGY STAR®
≥42% Cooking Eff/ ≤13,000 Btu/hr Idle Rate

Gas Griddle - $350
ENERGY STAR®
≥38% Cooking Eff/ ≤2650 Btu/hr sq ft Idle Rate

Gas Conveyor Oven - $600
Greater than 42% tested baking efficiency

Connectionless 3 Pan Gas Steamer - $850
ENERGY STAR® or CEE/FSTC Qualified
≥38% Cooking Eff / ≤2,083 Btu/hr/pan Idle Rate

Connectionless 6 Pan Gas Steamer - $1,200
ENERGY STAR® or CEE/FSTC Qualified
≥38% Cooking Eff / ≤2,083 Btu/hr/pan Idle Rate

Double Rack Oven - $2,000
FSTC Qualified
≥50% Cooking Eff/ ≤3,500 Btu/hr/Idle Rate D Rack

ENERGY STAR® Gas Fryer - $600

Door Type Dishwasher Low Temp Gas[3] - $650
ENERGY STAR®
≤.6 kw Idle Rate/ ≤1.18 gallon/rack

Multi-Tank Conveyor Low Temp Dishwasher[3] - $1,000
Gas Main w/Electric Booster ENERGY STAR®
≤2.0 kw Idle Rate; ≤ 0.50 gallons/rack

Recirculation Controls[3] - $100
Continuous Operation DHW Pump
Pre-Approval required.

Demand Control Ventilation[4] - $12/nominal ton
5 tons ≤ Unit Cooling Capacity ≤ 20 tons. Pre-Approval Required.

If you are planning equipment or building upgrades that do not fit within the standard incentives, but significantly reduce natural gas consumption, please call 866.450.0005 to learn about custom project opportunities.

Mixed purpose facilities that include buildings on both Residential Rate Schedule 503 **and** qualifying Rate Schedules 504, 505, 511, 570, and 577 as part of the same Cascade Natural Gas customer account shall also be eligible for custom conservation incentives.

[1] This measure will only be allowed where the customer agrees to regular trap maintenance and replacement every seven (7) years.

[2] Minimum value of R-11 applies only where existing walls have no internal insulation cavities.

[3] Incentive eligibility contingent upon use of natural gas fired domestic hot water serving the specified measure equipment or fixture.

[4] For Existing Packaged HVAC Units equipped with Gas Fired Furnace and Direct Expansion Cooling Sections. DCV Unit Controller must meet Joint Utility Advanced Rooftop Control Guidelines

Outside of general cost-effectiveness calculations program implementers have a variety of ways of narrowing down the program portfolio based on viable and on-the-ground experience with the CNGC service territory. Measure selection and inclusion in the program portfolio is based on multiple variables including availability to the CNGC territory through Washington licensed contractors, feedback from contractors on quality and experience with certain equipment upgrades, lack of uptake due to a need for improvements in the technology (Natural Gas ENERGY STAR® residential dryers as an example) and a desire to concentrate administrative dollars and efforts toward those measures which have the most demand from customers and potential uptake. The Company is strategic in development of its portfolios keeping in mind the resources it has to work with to deliver the program while maintaining its integrity and quality customer experience. For reference the following lists demonstrate the full breadth of the Nexant TEA-Pot model's equipment libraries and each measure's benefit/cost ratio at the 30% of incremental costs incentive level.

Residential Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Early Retirement	Mfg_CZ1	1	0.8208
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Early Retirement	Mfg_CZ2	2	0.8208
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Early Retirement	Mfg_CZ3	3	0.8208
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Early Retirement	Multi_CZ1	1	0.6785
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Early Retirement	Multi_CZ2	2	0.6785
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Early Retirement	Multi_CZ3	3	0.6785
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Early Retirement	Single_CZ1	1	0.8158
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Early Retirement	Single_CZ2	2	0.8158
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Early Retirement	Single_CZ3	3	0.8158
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	New	Mfg_CZ1	1	1.1811
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	New	Mfg_CZ2	2	1.1811
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	New	Mfg_CZ3	3	1.1811
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	New	Multi_CZ1	1	1.0145
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	New	Multi_CZ2	2	1.0145
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	New	Multi_CZ3	3	1.0145
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	New	Single_CZ1	1	1.1769
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	New	Single_CZ2	2	1.1769
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	New	Single_CZ3	3	1.1769
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Turnover	Mfg_CZ1	1	1.1811
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Turnover	Mfg_CZ2	2	1.1811
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Turnover	Mfg_CZ3	3	1.1811
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Turnover	Multi_CZ1	1	1.0145
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Turnover	Multi_CZ2	2	1.0145
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Turnover	Multi_CZ3	3	1.0145
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Turnover	Single_CZ1	1	1.1769
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Turnover	Single_CZ2	2	1.1769
40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF)	Turnover	Single_CZ3	3	1.1769
Condensing boiler with 96% estimated seasonal efficiency	Early Retirement	Mfg_CZ1	1	0.7894
Condensing boiler with 96% estimated seasonal efficiency	Early Retirement	Mfg_CZ2	2	0.7719
Condensing boiler with 96% estimated seasonal efficiency	Early Retirement	Mfg_CZ3	3	0.7918
Condensing boiler with 96% estimated seasonal efficiency	Early Retirement	Multi_CZ1	1	0.7220
Condensing boiler with 96% estimated seasonal efficiency	Early Retirement	Multi_CZ2	2	0.7059
Condensing boiler with 96% estimated seasonal efficiency	Early Retirement	Multi_CZ3	3	0.7245
Condensing boiler with 96% estimated seasonal efficiency	Early Retirement	Single_CZ1	1	0.9702
Condensing boiler with 96% estimated seasonal efficiency	Early Retirement	Single_CZ2	2	0.9504
Condensing boiler with 96% estimated seasonal efficiency	Early Retirement	Single_CZ3	3	0.9730
Condensing boiler with 96% estimated seasonal efficiency	New	Mfg_CZ1	1	1.0154
Condensing boiler with 96% estimated seasonal efficiency	New	Mfg_CZ2	2	0.9958
Condensing boiler with 96% estimated seasonal efficiency	New	Mfg_CZ3	3	1.0190
Condensing boiler with 96% estimated seasonal efficiency	New	Multi_CZ1	1	0.9369
Condensing boiler with 96% estimated seasonal efficiency	New	Multi_CZ2	2	0.9174
Condensing boiler with 96% estimated seasonal efficiency	New	Multi_CZ3	3	0.9400
Condensing boiler with 96% estimated seasonal efficiency	New	Single_CZ1	1	1.2205
Condensing boiler with 96% estimated seasonal efficiency	New	Single_CZ2	2	1.1992
Condensing boiler with 96% estimated seasonal efficiency	New	Single_CZ3	3	1.2240
Condensing boiler with 96% estimated seasonal efficiency	Turnover	Mfg_CZ1	1	1.0154
Condensing boiler with 96% estimated seasonal efficiency	Turnover	Mfg_CZ2	2	0.9958
Condensing boiler with 96% estimated seasonal efficiency	Turnover	Mfg_CZ3	3	1.0190
Condensing boiler with 96% estimated seasonal efficiency	Turnover	Multi_CZ1	1	0.9369
Condensing boiler with 96% estimated seasonal efficiency	Turnover	Multi_CZ2	2	0.9174
Condensing boiler with 96% estimated seasonal efficiency	Turnover	Multi_CZ3	3	0.9400

Residential Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Condensing boiler with 96% estimated seasonal efficiency	Turnover	Single_CZ1	1	1.2205
Condensing boiler with 96% estimated seasonal efficiency	Turnover	Single_CZ2	2	1.1992
Condensing boiler with 96% estimated seasonal efficiency	Turnover	Single_CZ3	3	1.2240
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Early Retirement	Mfg_CZ1	1	0.8121
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Early Retirement	Mfg_CZ2	2	0.8121
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Early Retirement	Mfg_CZ3	3	0.8121
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Early Retirement	Multi_CZ1	1	0.6648
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Early Retirement	Multi_CZ2	2	0.6648
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Early Retirement	Multi_CZ3	3	0.6648
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Early Retirement	Single_CZ1	1	0.8072
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Early Retirement	Single_CZ2	2	0.8072
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Early Retirement	Single_CZ3	3	0.8072
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	New	Mfg_CZ1	1	0.7929
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	New	Mfg_CZ2	2	0.7929
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	New	Mfg_CZ3	3	0.7929
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	New	Multi_CZ1	1	0.6478
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	New	Multi_CZ2	2	0.6478
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	New	Multi_CZ3	3	0.6478
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	New	Single_CZ1	1	0.7887
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	New	Single_CZ2	2	0.7887
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	New	Single_CZ3	3	0.7887
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Turnover	Mfg_CZ1	1	0.7929
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Turnover	Mfg_CZ2	2	0.7929
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Turnover	Mfg_CZ3	3	0.7929
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Turnover	Multi_CZ1	1	0.6478
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Turnover	Multi_CZ2	2	0.6478
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Turnover	Multi_CZ3	3	0.6478

Residential Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Turnover	Single_CZ1	1	0.7887
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Turnover	Single_CZ2	2	0.7887
Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF)	Turnover	Single_CZ3	3	0.7887
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Early Retirement	Mfg_CZ1	1	0.7068
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Early Retirement	Mfg_CZ2	2	0.7068
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Early Retirement	Mfg_CZ3	3	0.7068
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Early Retirement	Multi_CZ1	1	0.5799
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Early Retirement	Multi_CZ2	2	0.5799
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Early Retirement	Multi_CZ3	3	0.5799
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Early Retirement	Single_CZ1	1	0.7024
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Early Retirement	Single_CZ2	2	0.7024
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Early Retirement	Single_CZ3	3	0.7024
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	New	Mfg_CZ1	1	0.8017
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	New	Mfg_CZ2	2	0.8017
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	New	Mfg_CZ3	3	0.8017
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	New	Multi_CZ1	1	0.6645
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	New	Multi_CZ2	2	0.6645
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	New	Multi_CZ3	3	0.6645
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	New	Single_CZ1	1	0.7972
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	New	Single_CZ2	2	0.7972
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	New	Single_CZ3	3	0.7972
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Turnover	Mfg_CZ1	1	0.8017
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Turnover	Mfg_CZ2	2	0.8017
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Turnover	Mfg_CZ3	3	0.8017
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Turnover	Multi_CZ1	1	0.6645
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Turnover	Multi_CZ2	2	0.6645
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Turnover	Multi_CZ3	3	0.6645
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Turnover	Single_CZ1	1	0.7972
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Turnover	Single_CZ2	2	0.7972
Condensing Natural Gas Water Heater (0.90 EF), 40 gallon	Turnover	Single_CZ3	3	0.7972
High Efficiency Boiler, 90% AFUE or greater.	Early Retirement	Mfg_CZ1	1	0.9800
High Efficiency Boiler, 90% AFUE or greater.	Early Retirement	Mfg_CZ2	2	0.9600
High Efficiency Boiler, 90% AFUE or greater.	Early Retirement	Mfg_CZ3	3	0.9828
High Efficiency Boiler, 90% AFUE or greater.	Early Retirement	Multi_CZ1	1	0.9038
High Efficiency Boiler, 90% AFUE or greater.	Early Retirement	Multi_CZ2	2	0.8854
High Efficiency Boiler, 90% AFUE or greater.	Early Retirement	Multi_CZ3	3	0.9068
High Efficiency Boiler, 90% AFUE or greater.	Early Retirement	Single_CZ1	1	1.1770
High Efficiency Boiler, 90% AFUE or greater.	Early Retirement	Single_CZ2	2	1.1562
High Efficiency Boiler, 90% AFUE or greater.	Early Retirement	Single_CZ3	3	1.1805
High Efficiency Boiler, 90% AFUE or greater.	New	Mfg_CZ1	1	1.4110
High Efficiency Boiler, 90% AFUE or greater.	New	Mfg_CZ2	2	1.3896
High Efficiency Boiler, 90% AFUE or greater.	New	Mfg_CZ3	3	1.4146
High Efficiency Boiler, 90% AFUE or greater.	New	Multi_CZ1	1	1.3243
High Efficiency Boiler, 90% AFUE or greater.	New	Multi_CZ2	2	1.3031
High Efficiency Boiler, 90% AFUE or greater.	New	Multi_CZ3	3	1.3269
High Efficiency Boiler, 90% AFUE or greater.	New	Single_CZ1	1	1.6250
High Efficiency Boiler, 90% AFUE or greater.	New	Single_CZ2	2	1.6027
High Efficiency Boiler, 90% AFUE or greater.	New	Single_CZ3	3	1.6285

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Description	Vintage	Segment	Climate Zone	B/c Ratio
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Mfg_CZ1	1	1.4110
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Mfg_CZ2	2	1.3896
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Mfg_CZ3	3	1.4146
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Multi_CZ1	1	1.3243
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Multi_CZ2	2	1.3031
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Multi_CZ3	3	1.3269
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Single_CZ1	1	1.6250
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Single_CZ1	1	2.6094
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Single_CZ2	2	1.6027
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Single_CZ2	2	2.6577
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Single_CZ3	3	2.6471
High Efficiency Boiler, 90% AFUE or greater.	Turnover	Single_CZ3	3	1.6285
High efficiency natural gas fireplace hearth; AFUE 80%	Early Retirement	Mfg_CZ1	1	1.5844
High efficiency natural gas fireplace hearth; AFUE 80%	Early Retirement	Mfg_CZ2	2	1.5626
High efficiency natural gas fireplace hearth; AFUE 80%	Early Retirement	Mfg_CZ3	3	1.5883
High efficiency natural gas fireplace hearth; AFUE 80%	Early Retirement	Multi_CZ1	1	1.5844
High efficiency natural gas fireplace hearth; AFUE 80%	Early Retirement	Multi_CZ2	2	1.5626
High efficiency natural gas fireplace hearth; AFUE 80%	Early Retirement	Multi_CZ3	3	1.5883
High efficiency natural gas fireplace hearth; AFUE 80%	Early Retirement	Single_CZ1	1	1.5844
High efficiency natural gas fireplace hearth; AFUE 80%	Early Retirement	Single_CZ2	2	1.5626
High efficiency natural gas fireplace hearth; AFUE 80%	Early Retirement	Single_CZ3	3	1.5883
High efficiency natural gas fireplace hearth; AFUE 80%	New	Mfg_CZ1	1	1.5844
High efficiency natural gas fireplace hearth; AFUE 80%	New	Mfg_CZ2	2	1.5626
High efficiency natural gas fireplace hearth; AFUE 80%	New	Mfg_CZ3	3	1.5883
High efficiency natural gas fireplace hearth; AFUE 80%	New	Multi_CZ1	1	1.5844
High efficiency natural gas fireplace hearth; AFUE 80%	New	Multi_CZ2	2	1.5626
High efficiency natural gas fireplace hearth; AFUE 80%	New	Multi_CZ3	3	1.5883
High efficiency natural gas fireplace hearth; AFUE 80%	New	Single_CZ1	1	1.5844
High efficiency natural gas fireplace hearth; AFUE 80%	New	Single_CZ2	2	1.5626
High efficiency natural gas fireplace hearth; AFUE 80%	New	Single_CZ3	3	1.5883
High efficiency natural gas fireplace hearth; AFUE 80%	Turnover	Mfg_CZ1	1	1.5844
High efficiency natural gas fireplace hearth; AFUE 80%	Turnover	Mfg_CZ2	2	1.5626
High efficiency natural gas fireplace hearth; AFUE 80%	Turnover	Mfg_CZ3	3	1.5883
High efficiency natural gas fireplace hearth; AFUE 80%	Turnover	Multi_CZ1	1	1.5844
High efficiency natural gas fireplace hearth; AFUE 80%	Turnover	Multi_CZ2	2	1.5626
High efficiency natural gas fireplace hearth; AFUE 80%	Turnover	Multi_CZ3	3	1.5883
High efficiency natural gas fireplace hearth; AFUE 80%	Turnover	Single_CZ1	1	1.5844
High efficiency natural gas fireplace hearth; AFUE 80%	Turnover	Single_CZ2	2	1.5626
High efficiency natural gas fireplace hearth; AFUE 80%	Turnover	Single_CZ3	3	1.5883
High-efficiency (condensing) furnace = AFUE 95	Early Retirement	Mfg_CZ1	1	0.9929
High-efficiency (condensing) furnace = AFUE 95	Early Retirement	Mfg_CZ2	2	0.9887
High-efficiency (condensing) furnace = AFUE 95	Early Retirement	Mfg_CZ3	3	0.9934
High-efficiency (condensing) furnace = AFUE 95	Early Retirement	Multi_CZ1	1	1.0100
High-efficiency (condensing) furnace = AFUE 95	Early Retirement	Multi_CZ2	2	1.0059
High-efficiency (condensing) furnace = AFUE 95	Early Retirement	Multi_CZ3	3	1.0111
High-efficiency (condensing) furnace = AFUE 95	Early Retirement	Single_CZ1	1	1.0600
High-efficiency (condensing) furnace = AFUE 95	Early Retirement	Single_CZ2	2	1.0546
High-efficiency (condensing) furnace = AFUE 95	Early Retirement	Single_CZ3	3	1.0609
High-efficiency (condensing) furnace = AFUE 95	New	Mfg_CZ1	1	1.2767
High-efficiency (condensing) furnace = AFUE 95	New	Mfg_CZ2	2	1.2726
High-efficiency (condensing) furnace = AFUE 95	New	Mfg_CZ3	3	1.2773

Residential Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
High-efficiency (condensing) furnace = AFUE 95	New	Multi_CZ1	1	1.2932
High-efficiency (condensing) furnace = AFUE 95	New	Multi_CZ2	2	1.2886
High-efficiency (condensing) furnace = AFUE 95	New	Multi_CZ3	3	1.2939
High-efficiency (condensing) furnace = AFUE 95	New	Single_CZ1	1	1.3401
High-efficiency (condensing) furnace = AFUE 95	New	Single_CZ2	2	1.3352
High-efficiency (condensing) furnace = AFUE 95	New	Single_CZ3	3	1.3413
High-efficiency (condensing) furnace = AFUE 95	Turnover	Mfg_CZ1	1	1.2767
High-efficiency (condensing) furnace = AFUE 95	Turnover	Mfg_CZ2	2	1.2726
High-efficiency (condensing) furnace = AFUE 95	Turnover	Mfg_CZ3	3	1.2773
High-efficiency (condensing) furnace = AFUE 95	Turnover	Multi_CZ1	1	1.2932
High-efficiency (condensing) furnace = AFUE 95	Turnover	Multi_CZ2	2	1.2886
High-efficiency (condensing) furnace = AFUE 95	Turnover	Multi_CZ3	3	1.2939
High-efficiency (condensing) furnace = AFUE 95	Turnover	Single_CZ1	1	1.3401
High-efficiency (condensing) furnace = AFUE 95	Turnover	Single_CZ2	2	1.3352
High-efficiency (condensing) furnace = AFUE 95	Turnover	Single_CZ3	3	1.3413
New High Efficiency Condensing Boiler for Water and Space Heating applied to MF buildings	Early Retirement	Multi_CZ3	3	1.9605
New High Efficiency Condensing Boiler for Water and Space Heating applied to MF buildings	New	Multi_CZ1	1	1.9605
New High Efficiency Condensing Boiler for Water and Space Heating applied to MF buildings	Turnover	Multi_CZ2	2	1.9605
Tankless water heater with mean capacity of 108 MBTU/hr	Early Retirement	Mfg_CZ1	1	0.8326
Tankless water heater with mean capacity of 108 MBTU/hr	Early Retirement	Mfg_CZ2	2	0.8229
Tankless water heater with mean capacity of 108 MBTU/hr	Early Retirement	Mfg_CZ3	3	0.8341
Tankless water heater with mean capacity of 108 MBTU/hr	Early Retirement	Multi_CZ1	1	0.6756
Tankless water heater with mean capacity of 108 MBTU/hr	Early Retirement	Multi_CZ2	2	0.6662
Tankless water heater with mean capacity of 108 MBTU/hr	Early Retirement	Multi_CZ3	3	0.6771
Tankless water heater with mean capacity of 108 MBTU/hr	Early Retirement	Single_CZ1	1	0.4675
Tankless water heater with mean capacity of 108 MBTU/hr	Early Retirement	Single_CZ2	2	0.4613
Tankless water heater with mean capacity of 108 MBTU/hr	Early Retirement	Single_CZ3	3	0.4684
Tankless water heater with mean capacity of 108 MBTU/hr	New	Mfg_CZ1	1	2.4795
Tankless water heater with mean capacity of 108 MBTU/hr	New	Mfg_CZ2	2	2.4717
Tankless water heater with mean capacity of 108 MBTU/hr	New	Mfg_CZ3	3	2.4806
Tankless water heater with mean capacity of 108 MBTU/hr	New	Multi_CZ1	1	2.4180
Tankless water heater with mean capacity of 108 MBTU/hr	New	Multi_CZ2	2	2.4086
Tankless water heater with mean capacity of 108 MBTU/hr	New	Multi_CZ3	3	2.4194
Tankless water heater with mean capacity of 108 MBTU/hr	New	Single_CZ1	1	2.2099
Tankless water heater with mean capacity of 108 MBTU/hr	New	Single_CZ2	2	2.2002
Tankless water heater with mean capacity of 108 MBTU/hr	New	Single_CZ3	3	2.2114
Tankless water heater with mean capacity of 108 MBTU/hr	Turnover	Mfg_CZ1	1	0.8400
Tankless water heater with mean capacity of 108 MBTU/hr	Turnover	Mfg_CZ2	2	0.8305
Tankless water heater with mean capacity of 108 MBTU/hr	Turnover	Mfg_CZ3	3	0.8414
Tankless water heater with mean capacity of 108 MBTU/hr	Turnover	Multi_CZ1	1	0.6685
Tankless water heater with mean capacity of 108 MBTU/hr	Turnover	Multi_CZ2	2	0.6594
Tankless water heater with mean capacity of 108 MBTU/hr	Turnover	Multi_CZ3	3	0.6699
Tankless water heater with mean capacity of 108 MBTU/hr	Turnover	Single_CZ1	1	0.4421
Tankless water heater with mean capacity of 108 MBTU/hr	Turnover	Single_CZ2	2	0.4363
Tankless water heater with mean capacity of 108 MBTU/hr	Turnover	Single_CZ3	3	0.4430

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Attic / Ceiling Insulation > R-38	Existing	Mfg_CZ1	1	1.5437
Attic / Ceiling Insulation > R-38	Existing	Mfg_CZ1	1	1.2698
Attic / Ceiling Insulation > R-38	Existing	Mfg_CZ2	2	1.4993
Attic / Ceiling Insulation > R-38	Existing	Mfg_CZ2	2	1.2329
Attic / Ceiling Insulation > R-38	Existing	Mfg_CZ3	3	1.6560
Attic / Ceiling Insulation > R-38	Existing	Mfg_CZ3	3	1.3745
Attic / Ceiling Insulation > R-38	Existing	Multi_CZ1	1	1.5437
Attic / Ceiling Insulation > R-38	Existing	Multi_CZ1	1	1.2698
Attic / Ceiling Insulation > R-38	Existing	Multi_CZ2	2	1.4993
Attic / Ceiling Insulation > R-38	Existing	Multi_CZ2	2	1.2329
Attic / Ceiling Insulation > R-38	Existing	Multi_CZ3	3	1.6560
Attic / Ceiling Insulation > R-38	Existing	Multi_CZ3	3	1.3745
Attic / Ceiling Insulation > R-38	Existing	Single_CZ1	1	1.5449
Attic / Ceiling Insulation > R-38	Existing	Single_CZ1	1	1.2709
Attic / Ceiling Insulation > R-38	Existing	Single_CZ2	2	1.5032
Attic / Ceiling Insulation > R-38	Existing	Single_CZ2	2	1.2329
Attic / Ceiling Insulation > R-38	Existing	Single_CZ3	3	1.6548
Attic / Ceiling Insulation > R-38	Existing	Single_CZ3	3	1.3726
Attic / Ceiling Insulation > R-38	New	Mfg_CZ1	1	1.4993
Attic / Ceiling Insulation > R-38	New	Mfg_CZ2	2	1.4532
Attic / Ceiling Insulation > R-38	New	Mfg_CZ3	3	1.6042
Attic / Ceiling Insulation > R-38	New	Multi_CZ1	1	1.4993
Attic / Ceiling Insulation > R-38	New	Multi_CZ2	2	1.4532
Attic / Ceiling Insulation > R-38	New	Multi_CZ3	3	1.6042
Attic / Ceiling Insulation > R-38	New	Single_CZ1	1	1.4954
Attic / Ceiling Insulation > R-38	New	Single_CZ2	2	1.4559
Attic / Ceiling Insulation > R-38	New	Single_CZ3	3	1.6065
Attic / Ceiling Insulation > R-49	Existing	Mfg_CZ1	1	2.6501
Attic / Ceiling Insulation > R-49	Existing	Mfg_CZ1	1	1.7673
Attic / Ceiling Insulation > R-49	Existing	Mfg_CZ2	2	2.6134
Attic / Ceiling Insulation > R-49	Existing	Mfg_CZ2	2	1.7238
Attic / Ceiling Insulation > R-49	Existing	Mfg_CZ3	3	2.7445
Attic / Ceiling Insulation > R-49	Existing	Mfg_CZ3	3	1.8804
Attic / Ceiling Insulation > R-49	Existing	Multi_CZ1	1	2.6501
Attic / Ceiling Insulation > R-49	Existing	Multi_CZ1	1	1.7673
Attic / Ceiling Insulation > R-49	Existing	Multi_CZ2	2	2.6134
Attic / Ceiling Insulation > R-49	Existing	Multi_CZ2	2	1.7238
Attic / Ceiling Insulation > R-49	Existing	Multi_CZ3	3	2.7445
Attic / Ceiling Insulation > R-49	Existing	Multi_CZ3	3	1.8804
Attic / Ceiling Insulation > R-49	Existing	Single_CZ1	1	2.6498
Attic / Ceiling Insulation > R-49	Existing	Single_CZ1	1	1.7673
Attic / Ceiling Insulation > R-49	Existing	Single_CZ2	2	2.6135
Attic / Ceiling Insulation > R-49	Existing	Single_CZ2	2	1.7249
Attic / Ceiling Insulation > R-49	Existing	Single_CZ3	3	2.7446
Attic / Ceiling Insulation > R-49	Existing	Single_CZ3	3	1.8804
Attic / Ceiling Insulation > R-49	New	Mfg_CZ1	1	2.6082

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Attic / Ceiling Insulation > R-49	New	Mfg_CZ1	1	1.7183
Attic / Ceiling Insulation > R-49	New	Mfg_CZ1	1	1.2275
Attic / Ceiling Insulation > R-49	New	Mfg_CZ2	2	2.5703
Attic / Ceiling Insulation > R-49	New	Mfg_CZ2	2	1.6756
Attic / Ceiling Insulation > R-49	New	Mfg_CZ2	2	1.3307
Attic / Ceiling Insulation > R-49	New	Mfg_CZ3	3	2.7041
Attic / Ceiling Insulation > R-49	New	Mfg_CZ3	3	1.8317
Attic / Ceiling Insulation > R-49	New	Mfg_CZ3	3	1.3307
Attic / Ceiling Insulation > R-49	New	Multi_CZ1	1	2.6082
Attic / Ceiling Insulation > R-49	New	Multi_CZ1	1	1.7183
Attic / Ceiling Insulation > R-49	New	Multi_CZ1	1	1.2275
Attic / Ceiling Insulation > R-49	New	Multi_CZ2	2	2.5703
Attic / Ceiling Insulation > R-49	New	Multi_CZ2	2	1.6756
Attic / Ceiling Insulation > R-49	New	Multi_CZ2	2	1.3307
Attic / Ceiling Insulation > R-49	New	Multi_CZ3	3	2.7041
Attic / Ceiling Insulation > R-49	New	Multi_CZ3	3	1.8317
Attic / Ceiling Insulation > R-49	New	Multi_CZ3	3	1.3307
Attic / Ceiling Insulation > R-49	New	Single_CZ1	1	2.6077
Attic / Ceiling Insulation > R-49	New	Single_CZ1	1	1.7182
Attic / Ceiling Insulation > R-49	New	Single_CZ1	1	1.2265
Attic / Ceiling Insulation > R-49	New	Single_CZ2	2	2.5706
Attic / Ceiling Insulation > R-49	New	Single_CZ2	2	1.6756
Attic / Ceiling Insulation > R-49	New	Single_CZ2	2	1.3288
Attic / Ceiling Insulation > R-49	New	Single_CZ3	3	2.7042
Attic / Ceiling Insulation > R-49	New	Single_CZ3	3	1.8307
Attic / Ceiling Insulation > R-49	New	Single_CZ3	3	1.3288
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	Existing	Mfg_CZ1	1	1.4492
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	Existing	Mfg_CZ2	2	1.4277
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	Existing	Mfg_CZ3	3	1.4527
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	Existing	Multi_CZ1	1	1.3621
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	Existing	Multi_CZ2	2	1.3408
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	Existing	Multi_CZ3	3	1.3660

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	Existing	Single_CZ1	1	1.6627
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	Existing	Single_CZ2	2	1.6415
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	Existing	Single_CZ3	3	1.6662
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	New	Mfg_CZ1	1	1.4118
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	New	Mfg_CZ2	2	1.3892
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	New	Mfg_CZ3	3	1.4155
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	New	Multi_CZ1	1	1.3244
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	New	Multi_CZ2	2	1.3021
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	New	Multi_CZ3	3	1.3272
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	New	Single_CZ1	1	1.6251
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	New	Single_CZ2	2	1.6036
Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp	New	Single_CZ3	3	1.6288
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	Existing	Mfg_CZ1	1	0.9585
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	Existing	Mfg_CZ2	2	0.9363
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	Existing	Mfg_CZ3	3	1.0188
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	Existing	Multi_CZ1	1	0.9585
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	Existing	Multi_CZ2	2	0.9363

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	Existing	Multi_CZ3	3	1.0188
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	Existing	Single_CZ1	1	0.9585
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	Existing	Single_CZ2	2	0.9363
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	Existing	Single_CZ3	3	1.0188
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	New	Mfg_CZ1	1	0.0818
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	New	Mfg_CZ2	2	0.0795
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	New	Mfg_CZ3	3	0.0929
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	New	Multi_CZ1	1	0.0818
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	New	Multi_CZ2	2	0.0795
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	New	Multi_CZ3	3	0.0929
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	New	Single_CZ1	1	0.0818
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	New	Single_CZ2	2	0.0795
Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250	New	Single_CZ3	3	0.0929
Door U-Factor <0.21, Energy Star Door	Existing	Mfg_CZ1	1	1.3109
Door U-Factor <0.21, Energy Star Door	Existing	Mfg_CZ2	2	1.3109
Door U-Factor <0.21, Energy Star Door	Existing	Mfg_CZ3	3	1.3109
Door U-Factor <0.21, Energy Star Door	Existing	Multi_CZ1	1	1.3109
Door U-Factor <0.21, Energy Star Door	Existing	Multi_CZ2	2	1.3109
Door U-Factor <0.21, Energy Star Door	Existing	Multi_CZ3	3	1.3109
Door U-Factor <0.21, Energy Star Door	Existing	Single_CZ1	1	1.3109
Door U-Factor <0.21, Energy Star Door	Existing	Single_CZ2	2	1.3109
Door U-Factor <0.21, Energy Star Door	Existing	Single_CZ3	3	1.3109
Door U-Factor <0.21, Energy Star Door	New	Mfg_CZ1	1	1.3109
Door U-Factor <0.21, Energy Star Door	New	Mfg_CZ2	2	1.3109
Door U-Factor <0.21, Energy Star Door	New	Mfg_CZ3	3	1.3109
Door U-Factor <0.21, Energy Star Door	New	Multi_CZ1	1	1.3109
Door U-Factor <0.21, Energy Star Door	New	Multi_CZ2	2	1.3109
Door U-Factor <0.21, Energy Star Door	New	Multi_CZ3	3	1.3109
Door U-Factor <0.21, Energy Star Door	New	Single_CZ1	1	1.3109
Door U-Factor <0.21, Energy Star Door	New	Single_CZ2	2	1.3109
Door U-Factor <0.21, Energy Star Door	New	Single_CZ3	3	1.3109
Drain Water Heat Recovery Unit, 60% efficiency	Existing	Mfg_CZ1	1	1.2044
Drain Water Heat Recovery Unit, 60% efficiency	Existing	Mfg_CZ2	2	1.2044

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Drain Water Heat Recovery Unit, 60% efficiency	Existing	Mfg_CZ3	3	1.2044
Drain Water Heat Recovery Unit, 60% efficiency	Existing	Multi_CZ1	1	0.7145
Drain Water Heat Recovery Unit, 60% efficiency	Existing	Multi_CZ2	2	0.7145
Drain Water Heat Recovery Unit, 60% efficiency	Existing	Multi_CZ3	3	0.7145
Drain Water Heat Recovery Unit, 60% efficiency	Existing	Single_CZ1	1	1.2044
Drain Water Heat Recovery Unit, 60% efficiency	Existing	Single_CZ2	2	1.2044
Drain Water Heat Recovery Unit, 60% efficiency	Existing	Single_CZ3	3	1.2044
Drain Water Heat Recovery Unit, 60% efficiency	New	Mfg_CZ1	1	0.9739
Drain Water Heat Recovery Unit, 60% efficiency	New	Mfg_CZ2	2	0.9739
Drain Water Heat Recovery Unit, 60% efficiency	New	Mfg_CZ3	3	0.9739
Drain Water Heat Recovery Unit, 60% efficiency	New	Multi_CZ1	1	0.5531
Drain Water Heat Recovery Unit, 60% efficiency	New	Multi_CZ2	2	0.5531
Drain Water Heat Recovery Unit, 60% efficiency	New	Multi_CZ3	3	0.5531
Drain Water Heat Recovery Unit, 60% efficiency	New	Single_CZ1	1	0.9739
Drain Water Heat Recovery Unit, 60% efficiency	New	Single_CZ2	2	0.9739
Drain Water Heat Recovery Unit, 60% efficiency	New	Single_CZ3	3	0.9739
Exterior Wall Insulation > R11	Existing	Mfg_CZ1	1	2.6064
Exterior Wall Insulation > R11	Existing	Mfg_CZ2	2	2.5697
Exterior Wall Insulation > R11	Existing	Mfg_CZ3	3	2.7035
Exterior Wall Insulation > R11	Existing	Multi_CZ1	1	2.6064
Exterior Wall Insulation > R11	Existing	Multi_CZ2	2	2.5697
Exterior Wall Insulation > R11	Existing	Multi_CZ3	3	2.7035
Exterior Wall Insulation > R11	Existing	Single_CZ1	1	2.6066
Exterior Wall Insulation > R11	Existing	Single_CZ2	2	2.5697
Exterior Wall Insulation > R11	Existing	Single_CZ3	3	2.7033
Exterior Wall Insulation > R11	New	Mfg_CZ1	1	2.5643
Exterior Wall Insulation > R11	New	Mfg_CZ2	2	2.5257
Exterior Wall Insulation > R11	New	Mfg_CZ3	3	2.6626
Exterior Wall Insulation > R11	New	Multi_CZ1	1	2.5643
Exterior Wall Insulation > R11	New	Multi_CZ2	2	2.5257
Exterior Wall Insulation > R11	New	Multi_CZ3	3	2.6626
Exterior Wall Insulation > R11	New	Single_CZ1	1	2.5641
Exterior Wall Insulation > R11	New	Single_CZ2	2	2.5261
Exterior Wall Insulation > R11	New	Single_CZ3	3	2.6623
HERS 75	New	Single_CZ1	1	0.7706
HERS 75	New	Single_CZ2	2	0.7619
HERS 75	New	Single_CZ3	3	0.7721
Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3)	Existing	Mfg_CZ1	1	1.3176
Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3)	Existing	Mfg_CZ2	2	1.3176
Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3)	Existing	Mfg_CZ3	3	1.3176
Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3)	Existing	Multi_CZ1	1	1.2449

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3)	Existing	Multi_CZ2	2	1.2449
Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3)	Existing	Multi_CZ3	3	1.2449
Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3)	Existing	Single_CZ1	1	1.3137
Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3)	Existing	Single_CZ2	2	1.3137
Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3)	Existing	Single_CZ3	3	1.3137
Low Flow Showerhead (1.5 GPM max)	Existing	Mfg_CZ1	1	1.4845
Low Flow Showerhead (1.5 GPM max)	Existing	Mfg_CZ2	2	1.4845
Low Flow Showerhead (1.5 GPM max)	Existing	Mfg_CZ3	3	1.4845
Low Flow Showerhead (1.5 GPM max)	Existing	Multi_CZ1	1	1.4709
Low Flow Showerhead (1.5 GPM max)	Existing	Multi_CZ2	2	1.4709
Low Flow Showerhead (1.5 GPM max)	Existing	Multi_CZ3	3	1.4709
Low Flow Showerhead (1.5 GPM max)	Existing	Single_CZ1	1	1.4507
Low Flow Showerhead (1.5 GPM max)	Existing	Single_CZ2	2	1.4507
Low Flow Showerhead (1.5 GPM max)	Existing	Single_CZ3	3	1.4507
Low Flow Showerhead (1.5 GPM max)	New	Mfg_CZ1	1	1.3357
Low Flow Showerhead (1.5 GPM max)	New	Mfg_CZ2	2	1.3357
Low Flow Showerhead (1.5 GPM max)	New	Mfg_CZ3	3	1.3357
Low Flow Showerhead (1.5 GPM max)	New	Multi_CZ1	1	1.3094
Low Flow Showerhead (1.5 GPM max)	New	Multi_CZ2	2	1.3094
Low Flow Showerhead (1.5 GPM max)	New	Multi_CZ3	3	1.3094
Low Flow Showerhead (1.5 GPM max)	New	Single_CZ1	1	1.2717
Low Flow Showerhead (1.5 GPM max)	New	Single_CZ2	2	1.2717
Low Flow Showerhead (1.5 GPM max)	New	Single_CZ3	3	1.2717
Low Flow Showerhead (2.0 GPM max)	Existing	Mfg_CZ1	1	1.4447
Low Flow Showerhead (2.0 GPM max)	Existing	Mfg_CZ2	2	1.4447
Low Flow Showerhead (2.0 GPM max)	Existing	Mfg_CZ3	3	1.4447
Low Flow Showerhead (2.0 GPM max)	Existing	Multi_CZ1	1	1.4270
Low Flow Showerhead (2.0 GPM max)	Existing	Multi_CZ2	2	1.4270
Low Flow Showerhead (2.0 GPM max)	Existing	Multi_CZ3	3	1.4270
Low Flow Showerhead (2.0 GPM max)	Existing	Single_CZ1	1	1.4018
Low Flow Showerhead (2.0 GPM max)	Existing	Single_CZ2	2	1.4018
Low Flow Showerhead (2.0 GPM max)	Existing	Single_CZ3	3	1.4018
Low Flow Showerhead (2.0 GPM max)	New	Mfg_CZ1	1	0.8330
Low Flow Showerhead (2.0 GPM max)	New	Mfg_CZ2	2	0.8330
Low Flow Showerhead (2.0 GPM max)	New	Mfg_CZ3	3	0.8330
Low Flow Showerhead (2.0 GPM max)	New	Multi_CZ1	1	0.7893
Low Flow Showerhead (2.0 GPM max)	New	Multi_CZ2	2	0.7893
Low Flow Showerhead (2.0 GPM max)	New	Multi_CZ3	3	0.7893
Low Flow Showerhead (2.0 GPM max)	New	Single_CZ1	1	0.7327
Low Flow Showerhead (2.0 GPM max)	New	Single_CZ2	2	0.7327
Low Flow Showerhead (2.0 GPM max)	New	Single_CZ3	3	0.7327

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	Existing	Mfg_CZ1	1	1.3208
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	Existing	Mfg_CZ2	2	1.3208
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	Existing	Mfg_CZ3	3	1.3208
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	Existing	Multi_CZ1	1	1.2493
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	Existing	Multi_CZ2	2	1.2493
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	Existing	Multi_CZ3	3	1.2493
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	Existing	Single_CZ1	1	1.1627
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	Existing	Single_CZ2	2	1.1627
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	Existing	Single_CZ3	3	1.1627
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	New	Mfg_CZ1	1	1.0194
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	New	Mfg_CZ2	2	1.0194
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	New	Mfg_CZ3	3	1.0194
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	New	Multi_CZ1	1	0.9283
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	New	Multi_CZ2	2	0.9283
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	New	Multi_CZ3	3	0.9283

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	New	Single_CZ1	1	0.7988
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	New	Single_CZ2	2	0.7988
One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average.	New	Single_CZ3	3	0.7988
Programmable Thermostat	Existing	Mfg_CZ1	1	1.1257
Programmable Thermostat	Existing	Mfg_CZ2	2	1.1055
Programmable Thermostat	Existing	Mfg_CZ3	3	1.1728
Programmable Thermostat	Existing	Multi_CZ1	1	1.1257
Programmable Thermostat	Existing	Multi_CZ2	2	1.1055
Programmable Thermostat	Existing	Multi_CZ3	3	1.1728
Programmable Thermostat	Existing	Single_CZ1	1	1.5350
Programmable Thermostat	Existing	Single_CZ2	2	1.5261
Programmable Thermostat	Existing	Single_CZ3	3	1.5570
Programmable Thermostat	New	Mfg_CZ1	1	1.3285
Programmable Thermostat	New	Mfg_CZ2	2	1.3155
Programmable Thermostat	New	Mfg_CZ3	3	1.3666
Programmable Thermostat	New	Multi_CZ1	1	1.3285
Programmable Thermostat	New	Multi_CZ2	2	1.3155
Programmable Thermostat	New	Multi_CZ3	3	1.3666
Programmable Thermostat	New	Single_CZ1	1	1.6217
Programmable Thermostat	New	Single_CZ2	2	1.6162
Programmable Thermostat	New	Single_CZ3	3	1.6359
R-13 Basement Insulation added to a basement or crawl space	Existing	Mfg_CZ1	1	3.4134
R-13 Basement Insulation added to a basement or crawl space	Existing	Mfg_CZ2	2	3.3967
R-13 Basement Insulation added to a basement or crawl space	Existing	Mfg_CZ3	3	3.4547
R-13 Basement Insulation added to a basement or crawl space	Existing	Multi_CZ1	1	3.4134
R-13 Basement Insulation added to a basement or crawl space	Existing	Multi_CZ2	2	3.3967
R-13 Basement Insulation added to a basement or crawl space	Existing	Multi_CZ3	3	3.4547
R-13 Basement Insulation added to a basement or crawl space	Existing	Single_CZ1	1	3.4134
R-13 Basement Insulation added to a basement or crawl space	Existing	Single_CZ2	2	3.3967
R-13 Basement Insulation added to a basement or crawl space	Existing	Single_CZ3	3	3.4547

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
R-13 Basement Insulation added to a basement or crawl space	New	Mfg_CZ1	1	3.3943
R-13 Basement Insulation added to a basement or crawl space	New	Mfg_CZ2	2	3.3775
R-13 Basement Insulation added to a basement or crawl space	New	Mfg_CZ3	3	3.4373
R-13 Basement Insulation added to a basement or crawl space	New	Multi_CZ1	1	3.3943
R-13 Basement Insulation added to a basement or crawl space	New	Multi_CZ2	2	3.3775
R-13 Basement Insulation added to a basement or crawl space	New	Multi_CZ3	3	3.4373
R-13 Basement Insulation added to a basement or crawl space	New	Single_CZ1	1	3.3943
R-13 Basement Insulation added to a basement or crawl space	New	Single_CZ2	2	3.3775
R-13 Basement Insulation added to a basement or crawl space	New	Single_CZ3	3	3.4373
R-30 insulation added to basement or crawl space floor	Existing	Mfg_CZ1	1	1.1602
R-30 insulation added to basement or crawl space floor	Existing	Mfg_CZ2	2	1.1256
R-30 insulation added to basement or crawl space floor	Existing	Mfg_CZ3	3	1.2550
R-30 insulation added to basement or crawl space floor	Existing	Multi_CZ1	1	1.1603
R-30 insulation added to basement or crawl space floor	Existing	Multi_CZ2	2	1.1252
R-30 insulation added to basement or crawl space floor	Existing	Multi_CZ3	3	1.2548
R-30 insulation added to basement or crawl space floor	Existing	Single_CZ1	1	1.1598
R-30 insulation added to basement or crawl space floor	Existing	Single_CZ2	2	1.1253
R-30 insulation added to basement or crawl space floor	Existing	Single_CZ3	3	1.2548
R-30 insulation added to basement or crawl space floor	New	Mfg_CZ1	1	1.2002
R-30 insulation added to basement or crawl space floor	New	Mfg_CZ2	2	1.1653
R-30 insulation added to basement or crawl space floor	New	Mfg_CZ3	3	1.2971
R-30 insulation added to basement or crawl space floor	New	Multi_CZ1	1	1.2002
R-30 insulation added to basement or crawl space floor	New	Multi_CZ2	2	1.1655

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
R-30 insulation added to basement or crawl space floor	New	Multi_CZ3	3	1.2970
R-30 insulation added to basement or crawl space floor	New	Single_CZ1	1	1.2005
R-30 insulation added to basement or crawl space floor	New	Single_CZ2	2	1.1652
R-30 insulation added to basement or crawl space floor	New	Single_CZ3	3	1.2971
R-5 Slab Insulation (4ft)	Existing	Mfg_CZ1	1	1.5041
R-5 Slab Insulation (4ft)	Existing	Mfg_CZ2	2	1.4642
R-5 Slab Insulation (4ft)	Existing	Mfg_CZ3	3	1.6205
R-5 Slab Insulation (4ft)	Existing	Multi_CZ1	1	1.5969
R-5 Slab Insulation (4ft)	Existing	Multi_CZ2	2	1.5560
R-5 Slab Insulation (4ft)	Existing	Multi_CZ3	3	1.7157
R-5 Slab Insulation (4ft)	Existing	Single_CZ1	1	1.2912
R-5 Slab Insulation (4ft)	Existing	Single_CZ2	2	1.2520
R-5 Slab Insulation (4ft)	Existing	Single_CZ3	3	1.3987
R-5 Slab Insulation (4ft)	New	Mfg_CZ1	1	1.8482
R-5 Slab Insulation (4ft)	New	Mfg_CZ2	2	1.8056
R-5 Slab Insulation (4ft)	New	Mfg_CZ3	3	1.9708
R-5 Slab Insulation (4ft)	New	Multi_CZ1	1	1.7319
R-5 Slab Insulation (4ft)	New	Multi_CZ2	2	1.6899
R-5 Slab Insulation (4ft)	New	Multi_CZ3	3	1.8532
R-5 Slab Insulation (4ft)	New	Single_CZ1	1	1.4800
R-5 Slab Insulation (4ft)	New	Single_CZ2	2	1.4380
R-5 Slab Insulation (4ft)	New	Single_CZ3	3	1.5942
Residential Energy Star Home [HERS Score: 75: base Home (as described in assumptions below) with the following alternates: R-44 Ceiling Insulation, 92AFUE furnace, 0.62 EF water heater, 0.46 ACH] plus the following additional savings: efficient dishwasher, clothes washer, duct insulation, and water faucets.	New	Single_CZ1	1	0.7753
Residential Energy Star Home [HERS Score: 75: base Home (as described in assumptions below) with the following alternates: R-44 Ceiling Insulation, 92AFUE furnace, 0.62 EF water heater, 0.46 ACH] plus the following additional savings: efficient dishwasher, clothes washer, duct insulation, and water faucets.	New	Single_CZ2	2	0.7666

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Residential Energy Star Home [HERS Score: 75: base Home (as described in assumptions below) with the following alternates: R-44 Ceiling Insulation, 92AFUE furnace, 0.62 EF water heater, 0.46 ACH] plus the following additional savings: efficient dishwasher, clothes washer, duct insulation, and water faucets.	New	Single_CZ3	3	0.7766
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	Existing	Mfg_CZ1	1	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	Existing	Mfg_CZ2	2	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	Existing	Mfg_CZ3	3	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	Existing	Multi_CZ1	1	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	Existing	Multi_CZ2	2	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	Existing	Multi_CZ3	3	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	Existing	Single_CZ1	1	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	Existing	Single_CZ2	2	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	Existing	Single_CZ3	3	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	New	Mfg_CZ1	1	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	New	Mfg_CZ2	2	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	New	Mfg_CZ3	3	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	New	Multi_CZ1	1	1.8163

Residential NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	New	Multi_CZ2	2	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	New	Multi_CZ3	3	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	New	Single_CZ1	1	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	New	Single_CZ2	2	1.8163
Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to-air heat recovery ventilator	New	Single_CZ3	3	1.8163
Wall Insulation, R-13	Existing	Mfg_CZ1	1	2.6757
Wall Insulation, R-13	Existing	Mfg_CZ2	2	2.6397
Wall Insulation, R-13	Existing	Mfg_CZ3	3	2.7684
Wall Insulation, R-13	Existing	Multi_CZ1	1	2.6757
Wall Insulation, R-13	Existing	Multi_CZ2	2	2.1889
Wall Insulation, R-13	Existing	Multi_CZ3	3	2.7684
Wall Insulation, R-13	Existing	Single_CZ1	1	2.6753
Wall Insulation, R-13	Existing	Single_CZ2	2	3.0115
Wall Insulation, R-13	Existing	Single_CZ3	3	2.7687
Wall Insulation, R-13	New	Mfg_CZ1	1	2.6341
Wall Insulation, R-13	New	Mfg_CZ2	2	2.5969
Wall Insulation, R-13	New	Mfg_CZ3	3	2.7293
Wall Insulation, R-13	New	Multi_CZ1	1	2.6341
Wall Insulation, R-13	New	Multi_CZ2	2	2.1402
Wall Insulation, R-13	New	Multi_CZ3	3	2.7293
Wall Insulation, R-13	New	Single_CZ1	1	2.6339
Wall Insulation, R-13	New	Single_CZ2	2	2.9782
Wall Insulation, R-13	New	Single_CZ3	3	2.7293

Commercial Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Early Retirement	Education	All	1.3363
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Early Retirement	Grocery	All	0.1795
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Early Retirement	Healthcare	All	0.8592
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Early Retirement	Lodging	All	2.4627
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Early Retirement	Misc.	All	0.0189
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Early Retirement	Office	All	0.0700
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Early Retirement	Restaurant	All	0.6449
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Early Retirement	Retail	All	0.0427
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Early Retirement	Warehouse	All	0.0331
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	New	Education	All	1.3363
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	New	Grocery	All	0.1795
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	New	Healthcare	All	0.8592
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	New	Lodging	All	2.4627
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	New	Misc.	All	0.0189
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	New	Office	All	0.0700
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	New	Restaurant	All	0.6449
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	New	Retail	All	0.0427
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	New	Warehouse	All	0.0331
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Turnover	Education	All	1.3363
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Turnover	Grocery	All	0.1795
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Turnover	Healthcare	All	0.8592
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Turnover	Lodging	All	2.4627
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Turnover	Misc.	All	0.0189
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Turnover	Office	All	0.0700
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Turnover	Restaurant	All	0.6449
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Turnover	Retail	All	0.0427
1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012)	Turnover	Warehouse	All	0.0331
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Early Retirement	Education	All	0.0399
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Early Retirement	Grocery	All	0.2307
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Early Retirement	Healthcare	All	0.0339
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Early Retirement	Lodging	All	0.0385
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Early Retirement	Misc.	All	0.0087
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Early Retirement	Office	All	0.0035
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Early Retirement	Restaurant	All	0.1296
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Early Retirement	Retail	All	0.0127
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Early Retirement	Warehouse	All	0.0000
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	New	Education	All	0.2157
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	New	Grocery	All	1.1203
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	New	Healthcare	All	0.1842
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	New	Lodging	All	0.2085
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	New	Misc.	All	0.0481

Description	Vintage	Segment	Climate Zone	B/c Ratio
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	New	Office	All	0.0191
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	New	Restaurant	All	0.6655
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	New	Retail	All	0.0696
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	New	Warehouse	All	0.0000
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Turnover	Education	All	0.2157
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Turnover	Grocery	All	1.1203
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Turnover	Healthcare	All	0.1842
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Turnover	Lodging	All	0.2085
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Turnover	Misc.	All	0.0481
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Turnover	Office	All	0.0191
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Turnover	Restaurant	All	0.6655
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Turnover	Retail	All	0.0696
Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44%	Turnover	Warehouse	All	0.0000
Energy Star Convection Oven with cooking efficiency ≥ 44%	Early Retirement	Education	All	0.4139
Energy Star Convection Oven with cooking efficiency ≥ 44%	Early Retirement	Grocery	All	1.9275
Energy Star Convection Oven with cooking efficiency ≥ 44%	Early Retirement	Healthcare	All	0.3548
Energy Star Convection Oven with cooking efficiency ≥ 44%	Early Retirement	Lodging	All	0.4004
Energy Star Convection Oven with cooking efficiency ≥ 44%	Early Retirement	Misc.	All	0.0944
Energy Star Convection Oven with cooking efficiency ≥ 44%	Early Retirement	Office	All	0.0377
Energy Star Convection Oven with cooking efficiency ≥ 44%	Early Retirement	Restaurant	All	1.2077
Energy Star Convection Oven with cooking efficiency ≥ 44%	Early Retirement	Retail	All	0.1361
Energy Star Convection Oven with cooking efficiency ≥ 44%	Early Retirement	Warehouse	All	0.0000
Energy Star Convection Oven with cooking efficiency ≥ 44%	New	Education	All	5.4951
Energy Star Convection Oven with cooking efficiency ≥ 44%	New	Grocery	All	7.0122
Energy Star Convection Oven with cooking efficiency ≥ 44%	New	Healthcare	All	5.2542
Energy Star Convection Oven with cooking efficiency ≥ 44%	New	Lodging	All	5.4448
Energy Star Convection Oven with cooking efficiency ≥ 44%	New	Misc.	All	2.8436
Energy Star Convection Oven with cooking efficiency ≥ 44%	New	Office	All	1.4653
Energy Star Convection Oven with cooking efficiency ≥ 44%	New	Restaurant	All	6.7103
Energy Star Convection Oven with cooking efficiency ≥ 44%	New	Retail	All	3.5180
Energy Star Convection Oven with cooking efficiency ≥ 44%	New	Warehouse	All	0.0010
Energy Star Convection Oven with cooking efficiency ≥ 44%	Turnover	Education	All	5.4951
Energy Star Convection Oven with cooking efficiency ≥ 44%	Turnover	Grocery	All	7.0122
Energy Star Convection Oven with cooking efficiency ≥ 44%	Turnover	Healthcare	All	5.2542
Energy Star Convection Oven with cooking efficiency ≥ 44%	Turnover	Lodging	All	5.4448
Energy Star Convection Oven with cooking efficiency ≥ 44%	Turnover	Misc.	All	2.8436
Energy Star Convection Oven with cooking efficiency ≥ 44%	Turnover	Office	All	1.4653
Energy Star Convection Oven with cooking efficiency ≥ 44%	Turnover	Restaurant	All	6.7103
Energy Star Convection Oven with cooking efficiency ≥ 44%	Turnover	Retail	All	3.5180
Energy Star Convection Oven with cooking efficiency ≥ 44%	Turnover	Warehouse	All	0.0010
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Early Retirement	Education	All	0.5035

Description	Vintage	Segment	Climate Zone	B/c Ratio
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Early Retirement	Grocery	All	1.1822
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Early Retirement	Healthcare	All	0.2633
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Early Retirement	Lodging	All	0.7514
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Early Retirement	Misc.	All	0.0864
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Early Retirement	Office	All	0.0288
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Early Retirement	Restaurant	All	1.8599
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Early Retirement	Retail	All	0.0742
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Early Retirement	Warehouse	All	0.0000
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	New	Education	All	2.9913
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	New	Grocery	All	4.7318
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	New	Healthcare	All	1.8878
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	New	Lodging	All	3.7931
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	New	Misc.	All	0.7310
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	New	Office	All	0.2583
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	New	Restaurant	All	5.6149
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	New	Retail	All	0.6353
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	New	Warehouse	All	0.0001
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Turnover	Education	All	2.9913
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Turnover	Grocery	All	4.7318
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Turnover	Healthcare	All	1.8878
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Turnover	Lodging	All	3.7931
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Turnover	Misc.	All	0.7310
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Turnover	Office	All	0.2583
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Turnover	Restaurant	All	5.6149
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Turnover	Retail	All	0.6353
ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers.	Turnover	Warehouse	All	0.0001
Heat Pump Water Heater, 1.55 COP	Early Retirement	Education	All	0.8635
Heat Pump Water Heater, 1.55 COP	Early Retirement	Grocery	All	0.2106
Heat Pump Water Heater, 1.55 COP	Early Retirement	Healthcare	All	0.7647
Heat Pump Water Heater, 1.55 COP	Early Retirement	Lodging	All	1.8487

Description	Vintage	Segment	Climate Zone	B/c Ratio
Heat Pump Water Heater, 1.55 COP	Early Retirement	Misc.	All	0.0472
Heat Pump Water Heater, 1.55 COP	Early Retirement	Office	All	0.0800
Heat Pump Water Heater, 1.55 COP	Early Retirement	Restaurant	All	2.0567
Heat Pump Water Heater, 1.55 COP	Early Retirement	Retail	All	0.0598
Heat Pump Water Heater, 1.55 COP	Early Retirement	Warehouse	All	0.0316
Heat Pump Water Heater, 1.55 COP	New	Education	All	0.9285
Heat Pump Water Heater, 1.55 COP	New	Grocery	All	0.2281
Heat Pump Water Heater, 1.55 COP	New	Healthcare	All	0.8232
Heat Pump Water Heater, 1.55 COP	New	Lodging	All	1.9666
Heat Pump Water Heater, 1.55 COP	New	Misc.	All	0.0513
Heat Pump Water Heater, 1.55 COP	New	Office	All	0.0868
Heat Pump Water Heater, 1.55 COP	New	Restaurant	All	2.1830
Heat Pump Water Heater, 1.55 COP	New	Retail	All	0.0648
Heat Pump Water Heater, 1.55 COP	New	Warehouse	All	0.0343
Heat Pump Water Heater, 1.55 COP	Turnover	Education	All	0.9285
Heat Pump Water Heater, 1.55 COP	Turnover	Grocery	All	0.2281
Heat Pump Water Heater, 1.55 COP	Turnover	Healthcare	All	0.8232
Heat Pump Water Heater, 1.55 COP	Turnover	Lodging	All	1.9666
Heat Pump Water Heater, 1.55 COP	Turnover	Misc.	All	0.0513
Heat Pump Water Heater, 1.55 COP	Turnover	Office	All	0.0868
Heat Pump Water Heater, 1.55 COP	Turnover	Restaurant	All	2.1830
Heat Pump Water Heater, 1.55 COP	Turnover	Retail	All	0.0648
Heat Pump Water Heater, 1.55 COP	Turnover	Warehouse	All	0.0343
Low Intensity Gas Fired Radiant Heater	Early Retirement	Education	All	5.6123
Low Intensity Gas Fired Radiant Heater	Early Retirement	Grocery	All	4.6467
Low Intensity Gas Fired Radiant Heater	Early Retirement	Healthcare	All	4.2724
Low Intensity Gas Fired Radiant Heater	Early Retirement	Lodging	All	4.2630
Low Intensity Gas Fired Radiant Heater	Early Retirement	Misc.	All	2.2212
Low Intensity Gas Fired Radiant Heater	Early Retirement	Office	All	3.3720
Low Intensity Gas Fired Radiant Heater	Early Retirement	Restaurant	All	2.2273
Low Intensity Gas Fired Radiant Heater	Early Retirement	Retail	All	3.4082
Low Intensity Gas Fired Radiant Heater	Early Retirement	Warehouse	All	2.9874
Low Intensity Gas Fired Radiant Heater	New	Education	All	8.0360
Low Intensity Gas Fired Radiant Heater	New	Grocery	All	7.3361
Low Intensity Gas Fired Radiant Heater	New	Healthcare	All	7.0246
Low Intensity Gas Fired Radiant Heater	New	Lodging	All	7.0164
Low Intensity Gas Fired Radiant Heater	New	Misc.	All	4.7245
Low Intensity Gas Fired Radiant Heater	New	Office	All	6.1577
Low Intensity Gas Fired Radiant Heater	New	Restaurant	All	4.7334
Low Intensity Gas Fired Radiant Heater	New	Retail	All	6.1963
Low Intensity Gas Fired Radiant Heater	New	Warehouse	All	5.7261
Low Intensity Gas Fired Radiant Heater	Turnover	Education	All	8.0360
Low Intensity Gas Fired Radiant Heater	Turnover	Grocery	All	7.3361
Low Intensity Gas Fired Radiant Heater	Turnover	Healthcare	All	7.0246
Low Intensity Gas Fired Radiant Heater	Turnover	Lodging	All	7.0164
Low Intensity Gas Fired Radiant Heater	Turnover	Misc.	All	4.7245
Low Intensity Gas Fired Radiant Heater	Turnover	Office	All	6.1577
Low Intensity Gas Fired Radiant Heater	Turnover	Restaurant	All	4.7334
Low Intensity Gas Fired Radiant Heater	Turnover	Retail	All	6.1963
Low Intensity Gas Fired Radiant Heater	Turnover	Warehouse	All	5.7261
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Early Retirement	Education	All	0.0207
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Early Retirement	Grocery	All	0.1217
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Early Retirement	Healthcare	All	0.0176
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Early Retirement	Lodging	All	0.0200
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Early Retirement	Misc.	All	0.0045
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Early Retirement	Office	All	0.0018

Description	Vintage	Segment	Climate Zone	B/c Ratio
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Early Retirement	Restaurant	All	0.0678
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Early Retirement	Retail	All	0.0066
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Early Retirement	Warehouse	All	0.0000
Natural gas conveyor oven with a tested baking energy efficiency > 42%	New	Education	All	0.2772
Natural gas conveyor oven with a tested baking energy efficiency > 42%	New	Grocery	All	1.4402
Natural gas conveyor oven with a tested baking energy efficiency > 42%	New	Healthcare	All	0.2367
Natural gas conveyor oven with a tested baking energy efficiency > 42%	New	Lodging	All	0.2680
Natural gas conveyor oven with a tested baking energy efficiency > 42%	New	Misc.	All	0.0619
Natural gas conveyor oven with a tested baking energy efficiency > 42%	New	Office	All	0.0246
Natural gas conveyor oven with a tested baking energy efficiency > 42%	New	Restaurant	All	0.8555
Natural gas conveyor oven with a tested baking energy efficiency > 42%	New	Retail	All	0.0895
Natural gas conveyor oven with a tested baking energy efficiency > 42%	New	Warehouse	All	0.0000
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Turnover	Education	All	0.2772
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Turnover	Grocery	All	1.4402
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Turnover	Healthcare	All	0.2367
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Turnover	Lodging	All	0.2680
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Turnover	Misc.	All	0.0619
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Turnover	Office	All	0.0246
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Turnover	Restaurant	All	0.8555
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Turnover	Retail	All	0.0895
Natural gas conveyor oven with a tested baking energy efficiency > 42%	Turnover	Warehouse	All	0.0000
Natural gas fired ENERGY STAR fryer	Early Retirement	Education	All	1.9924
Natural gas fired ENERGY STAR fryer	Early Retirement	Grocery	All	3.6269
Natural gas fired ENERGY STAR fryer	Early Retirement	Healthcare	All	1.1610
Natural gas fired ENERGY STAR fryer	Early Retirement	Lodging	All	2.6888
Natural gas fired ENERGY STAR fryer	Early Retirement	Misc.	All	0.4161
Natural gas fired ENERGY STAR fryer	Early Retirement	Office	All	0.1427
Natural gas fired ENERGY STAR fryer	Early Retirement	Restaurant	All	2.8587
Natural gas fired ENERGY STAR fryer	Early Retirement	Retail	All	0.3594
Natural gas fired ENERGY STAR fryer	Early Retirement	Warehouse	All	0.0001
Natural gas fired ENERGY STAR fryer	New	Education	All	2.8175
Natural gas fired ENERGY STAR fryer	New	Grocery	All	4.5609
Natural gas fired ENERGY STAR fryer	New	Healthcare	All	1.7528
Natural gas fired ENERGY STAR fryer	New	Lodging	All	3.6107
Natural gas fired ENERGY STAR fryer	New	Misc.	All	0.6687
Natural gas fired ENERGY STAR fryer	New	Office	All	0.2349
Natural gas fired ENERGY STAR fryer	New	Restaurant	All	3.7923
Natural gas fired ENERGY STAR fryer	New	Retail	All	0.5805
Natural gas fired ENERGY STAR fryer	New	Warehouse	All	0.0001
Natural gas fired ENERGY STAR fryer	Turnover	Education	All	2.8175
Natural gas fired ENERGY STAR fryer	Turnover	Grocery	All	4.5609
Natural gas fired ENERGY STAR fryer	Turnover	Healthcare	All	1.7528
Natural gas fired ENERGY STAR fryer	Turnover	Lodging	All	3.6107
Natural gas fired ENERGY STAR fryer	Turnover	Misc.	All	0.6687
Natural gas fired ENERGY STAR fryer	Turnover	Office	All	0.2349
Natural gas fired ENERGY STAR fryer	Turnover	Restaurant	All	3.7923
Natural gas fired ENERGY STAR fryer	Turnover	Retail	All	0.5805
Natural gas fired ENERGY STAR fryer	Turnover	Warehouse	All	0.0001
Natural gas fired ENERGY STAR griddle	Early Retirement	Education	All	0.2321
Natural gas fired ENERGY STAR griddle	Early Retirement	Grocery	All	0.5754
Natural gas fired ENERGY STAR griddle	Early Retirement	Healthcare	All	0.1191
Natural gas fired ENERGY STAR griddle	Early Retirement	Lodging	All	0.3532
Natural gas fired ENERGY STAR griddle	Early Retirement	Misc.	All	0.0386
Natural gas fired ENERGY STAR griddle	Early Retirement	Office	All	0.0128
Natural gas fired ENERGY STAR griddle	Early Retirement	Restaurant	All	0.3302
Natural gas fired ENERGY STAR griddle	Early Retirement	Retail	All	0.0331

Description	Vintage	Segment	Climate Zone	B/c Ratio
Natural gas fired ENERGY STAR griddle	Early Retirement	Warehouse	All	0.0000
Natural gas fired ENERGY STAR griddle	New	Education	All	2.0435
Natural gas fired ENERGY STAR griddle	New	Grocery	All	3.6914
Natural gas fired ENERGY STAR griddle	New	Healthcare	All	1.1954
Natural gas fired ENERGY STAR griddle	New	Lodging	All	2.7486
Natural gas fired ENERGY STAR griddle	New	Misc.	All	0.4299
Natural gas fired ENERGY STAR griddle	New	Office	All	0.1477
Natural gas fired ENERGY STAR griddle	New	Restaurant	All	2.6277
Natural gas fired ENERGY STAR griddle	New	Retail	All	0.3715
Natural gas fired ENERGY STAR griddle	New	Warehouse	All	0.0001
Natural gas fired ENERGY STAR griddle	Turnover	Education	All	2.0435
Natural gas fired ENERGY STAR griddle	Turnover	Grocery	All	3.6914
Natural gas fired ENERGY STAR griddle	Turnover	Healthcare	All	1.1954
Natural gas fired ENERGY STAR griddle	Turnover	Lodging	All	2.7486
Natural gas fired ENERGY STAR griddle	Turnover	Misc.	All	0.4299
Natural gas fired ENERGY STAR griddle	Turnover	Office	All	0.1477
Natural gas fired ENERGY STAR griddle	Turnover	Restaurant	All	2.6277
Natural gas fired ENERGY STAR griddle	Turnover	Retail	All	0.3715
Natural gas fired ENERGY STAR griddle	Turnover	Warehouse	All	0.0001
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Early Retirement	Education	All	0.4761
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Early Retirement	Grocery	All	0.6391
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Early Retirement	Healthcare	All	0.1907
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Early Retirement	Lodging	All	0.2827
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Early Retirement	Misc.	All	0.2194
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Early Retirement	Office	All	0.1955
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Early Retirement	Restaurant	All	0.2202
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Early Retirement	Retail	All	0.3905
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Early Retirement	Warehouse	All	0.3239
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	New	Education	All	0.6247
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	New	Grocery	All	0.8348
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	New	Healthcare	All	0.2523
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	New	Lodging	All	0.3730
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	New	Misc.	All	0.2900
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	New	Office	All	0.2585
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	New	Restaurant	All	0.2910
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	New	Retail	All	0.5137
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	New	Warehouse	All	0.4269
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Turnover	Education	All	0.6247
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Turnover	Grocery	All	0.8348
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Turnover	Healthcare	All	0.2523
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Turnover	Lodging	All	0.3730
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Turnover	Misc.	All	0.2900
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Turnover	Office	All	0.2585
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Turnover	Restaurant	All	0.2910
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Turnover	Retail	All	0.5137
Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor	Turnover	Warehouse	All	0.4269
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Education	All	0.2961
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Education	All	0.1058
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Grocery	All	0.3997
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Grocery	All	0.0175
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Healthcare	All	0.1175
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Healthcare	All	0.0683
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Lodging	All	0.1747
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Lodging	All	0.1935
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Misc.	All	0.1353
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Misc.	All	0.0038

Commercial Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Office	All	0.1204
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Office	All	0.0065
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Restaurant	All	0.1358
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Restaurant	All	0.1402
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Retail	All	0.1358
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Retail	All	0.0049
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Warehouse	All	0.2005
New High Efficiency Condensing Boiler for Water and Space Heating	Early Retirement	Warehouse	All	0.0068
New High Efficiency Condensing Boiler for Water and Space Heating	New	Education	All	0.3678
New High Efficiency Condensing Boiler for Water and Space Heating	New	Education	All	0.1323
New High Efficiency Condensing Boiler for Water and Space Heating	New	Grocery	All	0.4954
New High Efficiency Condensing Boiler for Water and Space Heating	New	Grocery	All	0.0219
New High Efficiency Condensing Boiler for Water and Space Heating	New	Healthcare	All	0.1465
New High Efficiency Condensing Boiler for Water and Space Heating	New	Healthcare	All	0.0854
New High Efficiency Condensing Boiler for Water and Space Heating	New	Lodging	All	0.2176
New High Efficiency Condensing Boiler for Water and Space Heating	New	Lodging	All	0.2415
New High Efficiency Condensing Boiler for Water and Space Heating	New	Misc.	All	0.1672
New High Efficiency Condensing Boiler for Water and Space Heating	New	Misc.	All	0.0048
New High Efficiency Condensing Boiler for Water and Space Heating	New	Office	All	0.1502
New High Efficiency Condensing Boiler for Water and Space Heating	New	Office	All	0.0082
New High Efficiency Condensing Boiler for Water and Space Heating	New	Restaurant	All	0.1678
New High Efficiency Condensing Boiler for Water and Space Heating	New	Restaurant	All	0.1751
New High Efficiency Condensing Boiler for Water and Space Heating	New	Retail	All	0.3012
New High Efficiency Condensing Boiler for Water and Space Heating	New	Retail	All	0.0061
New High Efficiency Condensing Boiler for Water and Space Heating	New	Warehouse	All	0.2473
New High Efficiency Condensing Boiler for Water and Space Heating	New	Warehouse	All	0.0085
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Education	All	0.3678
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Education	All	0.1323
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Grocery	All	0.4954
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Grocery	All	0.0219
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Healthcare	All	0.1465
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Healthcare	All	0.0854
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Lodging	All	0.2176
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Lodging	All	0.2415
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Misc.	All	0.1672
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Misc.	All	0.0048
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Office	All	0.1502
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Office	All	0.0082
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Restaurant	All	0.1678
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Restaurant	All	0.1751
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Retail	All	0.3012
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Retail	All	0.0061
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Warehouse	All	0.2473
New High Efficiency Condensing Boiler for Water and Space Heating	Turnover	Warehouse	All	0.0085
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Early Retirement	Education	All	0.2979
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Early Retirement	Grocery	All	0.4020
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Early Retirement	Healthcare	All	0.1182
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Early Retirement	Lodging	All	0.1758
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Early Retirement	Misc.	All	0.1361
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Early Retirement	Office	All	0.1212

Description	Vintage	Segment	Climate Zone	B/c Ratio
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Early Retirement	Restaurant	All	0.1366
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Early Retirement	Retail	All	0.2436
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Early Retirement	Warehouse	All	0.2017
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	New	Education	All	0.3709
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	New	Grocery	All	0.4996
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	New	Healthcare	All	0.1478
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	New	Lodging	All	0.2194
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	New	Misc.	All	0.1701
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	New	Office	All	0.1515
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	New	Restaurant	All	0.1707
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	New	Retail	All	0.3038
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	New	Warehouse	All	0.2517
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Turnover	Education	All	0.3709
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Turnover	Grocery	All	0.4996
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Turnover	Healthcare	All	0.1478
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Turnover	Lodging	All	0.2194
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Turnover	Misc.	All	0.1701
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Turnover	Office	All	0.1515
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Turnover	Restaurant	All	0.1707
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Turnover	Retail	All	0.3038
New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90%	Turnover	Warehouse	All	0.2517
New High Efficiency Condensing Furnace 91 AFUE	Early Retirement	Education	All	1.1277
New High Efficiency Condensing Furnace 91 AFUE	Early Retirement	Grocery	All	1.4171
New High Efficiency Condensing Furnace 91 AFUE	Early Retirement	Healthcare	All	0.9697
New High Efficiency Condensing Furnace 91 AFUE	Early Retirement	Lodging	All	0.7914
New High Efficiency Condensing Furnace 91 AFUE	Early Retirement	Misc.	All	1.0373
New High Efficiency Condensing Furnace 91 AFUE	Early Retirement	Office	All	0.8597
New High Efficiency Condensing Furnace 91 AFUE	Early Retirement	Restaurant	All	1.7281
New High Efficiency Condensing Furnace 91 AFUE	Early Retirement	Retail	All	1.0484
New High Efficiency Condensing Furnace 91 AFUE	Early Retirement	Warehouse	All	0.6158
New High Efficiency Condensing Furnace 91 AFUE	New	Education	All	2.6949
New High Efficiency Condensing Furnace 91 AFUE	New	Grocery	All	3.2410
New High Efficiency Condensing Furnace 91 AFUE	New	Healthcare	All	2.3755
New High Efficiency Condensing Furnace 91 AFUE	New	Lodging	All	1.9953
New High Efficiency Condensing Furnace 91 AFUE	New	Misc.	All	2.5142

Commercial Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
New High Efficiency Condensing Furnace 91 AFUE	New	Office	All	2.1436
New High Efficiency Condensing Furnace 91 AFUE	New	Restaurant	All	3.7782
New High Efficiency Condensing Furnace 91 AFUE	New	Retail	All	2.5367
New High Efficiency Condensing Furnace 91 AFUE	New	Warehouse	All	1.5985
New High Efficiency Condensing Furnace 91 AFUE	Turnover	Education	All	2.6949
New High Efficiency Condensing Furnace 91 AFUE	Turnover	Grocery	All	3.2410
New High Efficiency Condensing Furnace 91 AFUE	Turnover	Healthcare	All	2.3755
New High Efficiency Condensing Furnace 91 AFUE	Turnover	Lodging	All	1.9953
New High Efficiency Condensing Furnace 91 AFUE	Turnover	Misc.	All	2.5142
New High Efficiency Condensing Furnace 91 AFUE	Turnover	Office	All	2.1436
New High Efficiency Condensing Furnace 91 AFUE	Turnover	Restaurant	All	3.7782
New High Efficiency Condensing Furnace 91 AFUE	Turnover	Retail	All	2.5367
New High Efficiency Condensing Furnace 91 AFUE	Turnover	Warehouse	All	1.5985
New High Efficiency Condensing Unit Heater 92 AFUE	Early Retirement	Education	All	1.4018
New High Efficiency Condensing Unit Heater 92 AFUE	Early Retirement	Grocery	All	1.7513
New High Efficiency Condensing Unit Heater 92 AFUE	Early Retirement	Healthcare	All	1.2092
New High Efficiency Condensing Unit Heater 92 AFUE	Early Retirement	Lodging	All	0.9905
New High Efficiency Condensing Unit Heater 92 AFUE	Early Retirement	Misc.	All	1.2918
New High Efficiency Condensing Unit Heater 92 AFUE	Early Retirement	Office	All	1.0745
New High Efficiency Condensing Unit Heater 92 AFUE	Early Retirement	Restaurant	All	1.8803
New High Efficiency Condensing Unit Heater 92 AFUE	Early Retirement	Retail	All	1.3053
New High Efficiency Condensing Unit Heater 92 AFUE	Early Retirement	Warehouse	All	0.7734
New High Efficiency Condensing Unit Heater 92 AFUE	New	Education	All	1.3166
New High Efficiency Condensing Unit Heater 92 AFUE	New	Grocery	All	1.6487
New High Efficiency Condensing Unit Heater 92 AFUE	New	Healthcare	All	1.1343
New High Efficiency Condensing Unit Heater 92 AFUE	New	Lodging	All	0.9278
New High Efficiency Condensing Unit Heater 92 AFUE	New	Misc.	All	1.2124
New High Efficiency Condensing Unit Heater 92 AFUE	New	Office	All	1.0070
New High Efficiency Condensing Unit Heater 92 AFUE	New	Restaurant	All	1.7716
New High Efficiency Condensing Unit Heater 92 AFUE	New	Retail	All	1.2252
New High Efficiency Condensing Unit Heater 92 AFUE	New	Warehouse	All	0.7234
New High Efficiency Condensing Unit Heater 92 AFUE	Turnover	Education	All	1.3166
New High Efficiency Condensing Unit Heater 92 AFUE	Turnover	Grocery	All	1.6487
New High Efficiency Condensing Unit Heater 92 AFUE	Turnover	Healthcare	All	1.1343
New High Efficiency Condensing Unit Heater 92 AFUE	Turnover	Lodging	All	0.9278
New High Efficiency Condensing Unit Heater 92 AFUE	Turnover	Misc.	All	1.2124
New High Efficiency Condensing Unit Heater 92 AFUE	Turnover	Office	All	1.0070
New High Efficiency Condensing Unit Heater 92 AFUE	Turnover	Restaurant	All	1.7716
New High Efficiency Condensing Unit Heater 92 AFUE	Turnover	Retail	All	1.2252
New High Efficiency Condensing Unit Heater 92 AFUE	Turnover	Warehouse	All	0.7234
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Early Retirement	Education	All	1.1584
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Early Retirement	Grocery	All	1.4569
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Early Retirement	Healthcare	All	0.9957
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Early Retirement	Lodging	All	0.8122
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Early Retirement	Misc.	All	1.0654
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Early Retirement	Office	All	0.8825
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Early Retirement	Restaurant	All	1.5680
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Early Retirement	Retail	All	1.0768
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Early Retirement	Warehouse	All	0.6317
New High Efficiency Non-Condensing Unit Heater 86 AFUE	New	Education	All	0.8036
New High Efficiency Non-Condensing Unit Heater 86 AFUE	New	Grocery	All	1.0205
New High Efficiency Non-Condensing Unit Heater 86 AFUE	New	Healthcare	All	0.6871
New High Efficiency Non-Condensing Unit Heater 86 AFUE	New	Lodging	All	0.5572
New High Efficiency Non-Condensing Unit Heater 86 AFUE	New	Misc.	All	0.7368
New High Efficiency Non-Condensing Unit Heater 86 AFUE	New	Office	All	0.6068
New High Efficiency Non-Condensing Unit Heater 86 AFUE	New	Restaurant	All	1.1023

Description	Vintage	Segment	Climate Zone	B/c Ratio
New High Efficiency Non-Condensing Unit Heater 86 AFUE	New	Retail	All	0.7450
New High Efficiency Non-Condensing Unit Heater 86 AFUE	New	Warehouse	All	0.4309
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Turnover	Education	All	0.8036
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Turnover	Grocery	All	1.0205
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Turnover	Healthcare	All	0.6871
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Turnover	Lodging	All	0.5572
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Turnover	Misc.	All	0.7368
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Turnover	Office	All	0.6068
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Turnover	Restaurant	All	1.1023
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Turnover	Retail	All	0.7450
New High Efficiency Non-Condensing Unit Heater 86 AFUE	Turnover	Warehouse	All	0.4309
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Early Retirement	Education	All	0.6017
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Early Retirement	Grocery	All	0.1425
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Early Retirement	Healthcare	All	0.5305
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Early Retirement	Lodging	All	1.3487
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Early Retirement	Misc.	All	0.0317
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Early Retirement	Office	All	0.0538
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Early Retirement	Restaurant	All	1.5155
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Early Retirement	Retail	All	0.0402
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Early Retirement	Warehouse	All	0.0212
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	New	Education	All	1.3685
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	New	Grocery	All	0.3529
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	New	Healthcare	All	1.2219
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	New	Lodging	All	2.7083
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	New	Misc.	All	0.0803
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	New	Office	All	0.1356
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	New	Restaurant	All	2.9658
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	New	Retail	All	0.1015
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	New	Warehouse	All	0.0538
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Turnover	Education	All	1.3685
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Turnover	Grocery	All	0.3529
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Turnover	Healthcare	All	1.2219
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Turnover	Lodging	All	2.7083
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Turnover	Misc.	All	0.0803
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Turnover	Office	All	0.1356
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Turnover	Restaurant	All	2.9658
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Turnover	Retail	All	0.1015
New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh	Turnover	Warehouse	All	0.0538
New High Efficiency Tank Water Heater	Early Retirement	Education	All	0.8567
New High Efficiency Tank Water Heater	Early Retirement	Grocery	All	0.2088
New High Efficiency Tank Water Heater	Early Retirement	Healthcare	All	0.7587
New High Efficiency Tank Water Heater	Early Retirement	Lodging	All	1.8363
New High Efficiency Tank Water Heater	Early Retirement	Misc.	All	0.0468
New High Efficiency Tank Water Heater	Early Retirement	Office	All	0.0793
New High Efficiency Tank Water Heater	Early Retirement	Restaurant	All	2.0435
New High Efficiency Tank Water Heater	Early Retirement	Retail	All	0.0592
New High Efficiency Tank Water Heater	Early Retirement	Warehouse	All	0.0313
New High Efficiency Tank Water Heater	New	Education	All	0.9549
New High Efficiency Tank Water Heater	New	Grocery	All	0.2353
New High Efficiency Tank Water Heater	New	Healthcare	All	0.8469
New High Efficiency Tank Water Heater	New	Lodging	All	2.0136
New High Efficiency Tank Water Heater	New	Misc.	All	0.0529
New High Efficiency Tank Water Heater	New	Office	All	0.0895
New High Efficiency Tank Water Heater	New	Restaurant	All	2.2332
New High Efficiency Tank Water Heater	New	Retail	All	0.0669
New High Efficiency Tank Water Heater	New	Warehouse	All	0.0354

Description	Vintage	Segment	Climate Zone	B/c Ratio
New High Efficiency Tank Water Heater, EF=.10	Turnover	Office	All	0.0895
New High Efficiency Tank Water Heater, EF=.11	Turnover	Lodging	All	2.0136
New High Efficiency Tank Water Heater, EF=.12	Turnover	Misc.	All	0.0529
New High Efficiency Tank Water Heater, EF=.13	Turnover	Restaurant	All	2.2332
New High Efficiency Tank Water Heater, EF=.14	Turnover	Retail	All	0.0669
New High Efficiency Tank Water Heater, EF=.15	Turnover	Warehouse	All	0.0354
New High Efficiency Tank Water Heater, EF=.7	Turnover	Education	All	0.9549
New High Efficiency Tank Water Heater, EF=.8	Turnover	Grocery	All	0.2353
New High Efficiency Tank Water Heater, EF=.9	Turnover	Healthcare	All	0.8469
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Early Retirement	Education	All	1.6134
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Early Retirement	Grocery	All	0.4025
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Early Retirement	Healthcare	All	1.4337
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Early Retirement	Lodging	All	3.3417
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Early Retirement	Misc.	All	0.0908
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Early Retirement	Office	All	0.1535
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Early Retirement	Restaurant	All	3.6924
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Early Retirement	Retail	All	0.1148
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Early Retirement	Warehouse	All	0.0607
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	New	Education	All	1.6134
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	New	Grocery	All	0.4025
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	New	Healthcare	All	1.4337
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	New	Lodging	All	3.3417
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	New	Misc.	All	0.0908
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	New	Office	All	0.1535
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	New	Restaurant	All	3.6924
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	New	Retail	All	0.1148
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	New	Warehouse	All	0.0607
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Turnover	Education	All	1.4224
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Turnover	Grocery	All	0.3499
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Turnover	Healthcare	All	1.2613
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Turnover	Lodging	All	3.0074
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Turnover	Misc.	All	0.0786
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Turnover	Office	All	0.1331
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Turnover	Restaurant	All	3.3372
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Turnover	Retail	All	0.0995
New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF	Turnover	Warehouse	All	0.0526

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Boiler Pipe Insulation	Existing	Education	All	3.3577
Boiler Pipe Insulation	Existing	Grocery	All	4.1418
Boiler Pipe Insulation	Existing	Healthcare	All	1.5912
Boiler Pipe Insulation	Existing	Lodging	All	2.2273
Boiler Pipe Insulation	Existing	Misc.	All	1.7974
Boiler Pipe Insulation	Existing	Office	All	1.6258
Boiler Pipe Insulation	Existing	Restaurant	All	1.8028
Boiler Pipe Insulation	Existing	Retail	All	2.8882
Boiler Pipe Insulation	Existing	Warehouse	All	2.4900
Boiler Pipe Insulation	New	Education	All	3.3577
Boiler Pipe Insulation	New	Grocery	All	4.1418
Boiler Pipe Insulation	New	Healthcare	All	1.5912
Boiler Pipe Insulation	New	Lodging	All	2.2273
Boiler Pipe Insulation	New	Misc.	All	1.7974
Boiler Pipe Insulation	New	Office	All	1.6258
Boiler Pipe Insulation	New	Restaurant	All	1.8028
Boiler Pipe Insulation	New	Retail	All	2.8882
Boiler Pipe Insulation	New	Warehouse	All	2.4900
Boiler Power Burner	Existing	Education	All	0.4955
Boiler Power Burner	Existing	Grocery	All	0.6283
Boiler Power Burner	Existing	Healthcare	All	0.2213
Boiler Power Burner	Existing	Lodging	All	0.3163
Boiler Power Burner	Existing	Misc.	All	0.2517
Boiler Power Burner	Existing	Office	All	0.2264
Boiler Power Burner	Existing	Restaurant	All	0.2525
Boiler Power Burner	Existing	Retail	All	0.4194
Boiler Power Burner	Existing	Warehouse	All	0.3568
Boiler Power Burner	New	Education	All	0.4955
Boiler Power Burner	New	Grocery	All	0.6283
Boiler Power Burner	New	Healthcare	All	0.2213
Boiler Power Burner	New	Lodging	All	0.3163
Boiler Power Burner	New	Misc.	All	0.2517
Boiler Power Burner	New	Office	All	0.2264
Boiler Power Burner	New	Restaurant	All	0.2525
Boiler Power Burner	New	Retail	All	0.4194
Boiler Power Burner	New	Warehouse	All	0.3568
Boiler Repair/Maintenance	Existing	Education	All	0.1381
Boiler Repair/Maintenance	Existing	Grocery	All	0.1818
Boiler Repair/Maintenance	Existing	Healthcare	All	0.0573
Boiler Repair/Maintenance	Existing	Lodging	All	0.0840
Boiler Repair/Maintenance	Existing	Misc.	All	0.0657
Boiler Repair/Maintenance	Existing	Office	All	0.0587
Boiler Repair/Maintenance	Existing	Restaurant	All	0.0660
Boiler Repair/Maintenance	Existing	Retail	All	0.1145
Boiler Repair/Maintenance	Existing	Warehouse	All	0.0958
Boiler Repair/Maintenance	New	Education	All	0.1381
Boiler Repair/Maintenance	New	Grocery	All	0.1818
Boiler Repair/Maintenance	New	Healthcare	All	0.0573
Boiler Repair/Maintenance	New	Lodging	All	0.0840
Boiler Repair/Maintenance	New	Misc.	All	0.0657
Boiler Repair/Maintenance	New	Office	All	0.0587
Boiler Repair/Maintenance	New	Restaurant	All	0.0660
Boiler Repair/Maintenance	New	Retail	All	0.1145
Boiler Repair/Maintenance	New	Warehouse	All	0.0958
Boiler Stack Economizer	Existing	Education	All	0.6153

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Boiler Stack Economizer	Existing	Grocery	All	0.8224
Boiler Stack Economizer	Existing	Healthcare	All	0.2484
Boiler Stack Economizer	Existing	Lodging	All	0.3672
Boiler Stack Economizer	Existing	Misc.	All	0.2855
Boiler Stack Economizer	Existing	Office	All	0.2545
Boiler Stack Economizer	Existing	Restaurant	All	0.2865
Boiler Stack Economizer	Existing	Retail	All	0.5058
Boiler Stack Economizer	Existing	Warehouse	All	0.4203
Boiler Stack Economizer	New	Education	All	0.5468
Boiler Stack Economizer	New	Grocery	All	0.7324
Boiler Stack Economizer	New	Healthcare	All	0.2199
Boiler Stack Economizer	New	Lodging	All	0.3256
Boiler Stack Economizer	New	Misc.	All	0.2529
Boiler Stack Economizer	New	Office	All	0.2254
Boiler Stack Economizer	New	Restaurant	All	0.2538
Boiler Stack Economizer	New	Retail	All	0.4491
Boiler Stack Economizer	New	Warehouse	All	0.3728
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Education	All	2.1762
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Grocery	All	2.4755
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Healthcare	All	1.2733
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Lodging	All	1.6435
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Misc.	All	0.8489
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Office	All	1.9555
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Restaurant	All	1.4032
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Retail	All	1.9715
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Warehouse	All	1.7800
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	New	Education	All	2.0789
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	New	Grocery	All	2.3824
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	New	Healthcare	All	1.1899
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	New	Lodging	All	1.5497
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	New	Misc.	All	0.7853
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	New	Office	All	1.8579
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	New	Restaurant	All	1.3154
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	New	Retail	All	1.8739
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	New	Warehouse	All	1.6840
Boiler vent damper - min. 1000 kBtu input	Existing	Education	All	0.5710
Boiler vent damper - min. 1000 kBtu input	Existing	Grocery	All	0.7568
Boiler vent damper - min. 1000 kBtu input	Existing	Healthcare	All	0.2341
Boiler vent damper - min. 1000 kBtu input	Existing	Lodging	All	0.3444
Boiler vent damper - min. 1000 kBtu input	Existing	Misc.	All	0.2686
Boiler vent damper - min. 1000 kBtu input	Existing	Office	All	0.2398
Boiler vent damper - min. 1000 kBtu input	Existing	Restaurant	All	0.2695
Boiler vent damper - min. 1000 kBtu input	Existing	Retail	All	0.4716
Boiler vent damper - min. 1000 kBtu input	Existing	Warehouse	All	0.3933
Boiler vent damper - min. 1000 kBtu input	New	Education	All	0.5710
Boiler vent damper - min. 1000 kBtu input	New	Grocery	All	0.7568
Boiler vent damper - min. 1000 kBtu input	New	Healthcare	All	0.2341
Boiler vent damper - min. 1000 kBtu input	New	Lodging	All	0.3444
Boiler vent damper - min. 1000 kBtu input	New	Misc.	All	0.2686
Boiler vent damper - min. 1000 kBtu input	New	Office	All	0.2398
Boiler vent damper - min. 1000 kBtu input	New	Restaurant	All	0.2695
Boiler vent damper - min. 1000 kBtu input	New	Retail	All	0.4716
Boiler vent damper - min. 1000 kBtu input	New	Warehouse	All	0.3933
Boiler Waste Water Heat Exchanger	Existing	Education	All	0.0867
Boiler Waste Water Heat Exchanger	Existing	Grocery	All	0.0592

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Boiler Waste Water Heat Exchanger	Existing	Healthcare	All	0.0510
Boiler Waste Water Heat Exchanger	Existing	Lodging	All	0.0508
Boiler Waste Water Heat Exchanger	Existing	Misc.	All	0.0196
Boiler Waste Water Heat Exchanger	Existing	Office	All	0.0349
Boiler Waste Water Heat Exchanger	Existing	Restaurant	All	0.0197
Boiler Waste Water Heat Exchanger	Existing	Retail	All	0.0354
Boiler Waste Water Heat Exchanger	Existing	Warehouse	All	0.0292
Boiler Waste Water Heat Exchanger	New	Education	All	0.0867
Boiler Waste Water Heat Exchanger	New	Grocery	All	0.0592
Boiler Waste Water Heat Exchanger	New	Healthcare	All	0.0510
Boiler Waste Water Heat Exchanger	New	Lodging	All	0.0508
Boiler Waste Water Heat Exchanger	New	Misc.	All	0.0196
Boiler Waste Water Heat Exchanger	New	Office	All	0.0349
Boiler Waste Water Heat Exchanger	New	Restaurant	All	0.0197
Boiler Waste Water Heat Exchanger	New	Retail	All	0.0354
Boiler Waste Water Heat Exchanger	New	Warehouse	All	0.0292
Demand Controlled Ventilation	Existing	Education	All	4.2406
Demand Controlled Ventilation	Existing	Grocery	All	3.5314
Demand Controlled Ventilation	Existing	Healthcare	All	3.2543
Demand Controlled Ventilation	Existing	Lodging	All	3.2472
Demand Controlled Ventilation	Existing	Misc.	All	1.7130
Demand Controlled Ventilation	Existing	Office	All	2.5824
Demand Controlled Ventilation	Existing	Restaurant	All	1.7177
Demand Controlled Ventilation	Existing	Retail	All	2.6096
Demand Controlled Ventilation	Existing	Warehouse	All	2.2933
Demand Controlled Ventilation	New	Education	All	4.0141
Demand Controlled Ventilation	New	Grocery	All	3.3034
Demand Controlled Ventilation	New	Healthcare	All	3.0303
Demand Controlled Ventilation	New	Lodging	All	3.0234
Demand Controlled Ventilation	New	Misc.	All	1.5556
Demand Controlled Ventilation	New	Office	All	2.3783
Demand Controlled Ventilation	New	Restaurant	All	1.5600
Demand Controlled Ventilation	New	Retail	All	2.4044
Demand Controlled Ventilation	New	Warehouse	All	2.1021
Drainwater Heat Recovery	Existing	Education	All	4.1589
Drainwater Heat Recovery	Existing	Grocery	All	1.0931
Drainwater Heat Recovery	Existing	Healthcare	All	3.2094
Drainwater Heat Recovery	Existing	Lodging	All	6.5427
Drainwater Heat Recovery	Existing	Misc.	All	0.2782
Drainwater Heat Recovery	Existing	Office	All	0.4303
Drainwater Heat Recovery	Existing	Restaurant	All	5.7961
Drainwater Heat Recovery	Existing	Retail	All	0.3503
Drainwater Heat Recovery	Existing	Warehouse	All	0.5268
Drainwater Heat Recovery	New	Education	All	4.4612
Drainwater Heat Recovery	New	Grocery	All	1.2085
Drainwater Heat Recovery	New	Healthcare	All	3.4747
Drainwater Heat Recovery	New	Lodging	All	6.8597
Drainwater Heat Recovery	New	Misc.	All	0.3101
Drainwater Heat Recovery	New	Office	All	0.4789
Drainwater Heat Recovery	New	Restaurant	All	6.1202
Drainwater Heat Recovery	New	Retail	All	0.3902
Drainwater Heat Recovery	New	Warehouse	All	0.5857
Duct Sealing and Insulation	Existing	Education	All	0.6780
Duct Sealing and Insulation	Existing	Grocery	All	0.8647
Duct Sealing and Insulation	Existing	Healthcare	All	0.5784

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Duct Sealing and Insulation	Existing	Lodging	All	0.4678
Duct Sealing and Insulation	Existing	Misc.	All	0.6208
Duct Sealing and Insulation	Existing	Office	All	0.5099
Duct Sealing and Insulation	Existing	Restaurant	All	1.0718
Duct Sealing and Insulation	Existing	Retail	All	0.6278
Duct Sealing and Insulation	Existing	Warehouse	All	0.3608
Duct Sealing and Insulation	New	Education	All	0.6780
Duct Sealing and Insulation	New	Grocery	All	0.8647
Duct Sealing and Insulation	New	Healthcare	All	0.5784
Duct Sealing and Insulation	New	Lodging	All	0.4678
Duct Sealing and Insulation	New	Misc.	All	0.6208
Duct Sealing and Insulation	New	Office	All	0.5099
Duct Sealing and Insulation	New	Restaurant	All	1.0718
Duct Sealing and Insulation	New	Retail	All	0.6278
Duct Sealing and Insulation	New	Warehouse	All	0.3608
Faucet Aerator 2.0 gpm	Existing	Education	All	4.9455
Faucet Aerator 2.0 gpm	Existing	Grocery	All	4.8493
Faucet Aerator 2.0 gpm	Existing	Healthcare	All	4.8764
Faucet Aerator 2.0 gpm	Existing	Lodging	All	5.4110
Faucet Aerator 2.0 gpm	Existing	Misc.	All	3.0291
Faucet Aerator 2.0 gpm	Existing	Office	All	2.6048
Faucet Aerator 2.0 gpm	Existing	Restaurant	All	5.6136
Faucet Aerator 2.0 gpm	Existing	Retail	All	4.1164
Faucet Aerator 2.0 gpm	Existing	Warehouse	All	3.8018
Faucet Aerator 2.0 gpm	New	Education	All	4.4054
Faucet Aerator 2.0 gpm	New	Grocery	All	4.2641
Faucet Aerator 2.0 gpm	New	Healthcare	All	4.3036
Faucet Aerator 2.0 gpm	New	Lodging	All	5.1447
Faucet Aerator 2.0 gpm	New	Misc.	All	2.1420
Faucet Aerator 2.0 gpm	New	Office	All	1.7615
Faucet Aerator 2.0 gpm	New	Restaurant	All	5.4984
Faucet Aerator 2.0 gpm	New	Retail	All	3.2964
Faucet Aerator 2.0 gpm	New	Warehouse	All	2.9321
Floor Insulation, R-30 insulation added to floor	Existing	Education	All	0.1773
Floor Insulation, R-30 insulation added to floor	Existing	Grocery	All	0.1790
Floor Insulation, R-30 insulation added to floor	Existing	Healthcare	All	0.1501
Floor Insulation, R-30 insulation added to floor	Existing	Lodging	All	0.1138
Floor Insulation, R-30 insulation added to floor	Existing	Misc.	All	0.1527
Floor Insulation, R-30 insulation added to floor	Existing	Office	All	0.1316
Floor Insulation, R-30 insulation added to floor	Existing	Restaurant	All	0.2573
Floor Insulation, R-30 insulation added to floor	Existing	Retail	All	0.1275
Floor Insulation, R-30 insulation added to floor	Existing	Warehouse	All	0.0565
Floor Insulation, R-30 insulation added to floor	New	Education	All	0.1773
Floor Insulation, R-30 insulation added to floor	New	Grocery	All	0.1790
Floor Insulation, R-30 insulation added to floor	New	Healthcare	All	0.1501
Floor Insulation, R-30 insulation added to floor	New	Lodging	All	0.1138
Floor Insulation, R-30 insulation added to floor	New	Misc.	All	0.1527
Floor Insulation, R-30 insulation added to floor	New	Office	All	0.1316
Floor Insulation, R-30 insulation added to floor	New	Restaurant	All	0.2573
Floor Insulation, R-30 insulation added to floor	New	Retail	All	0.1275
Floor Insulation, R-30 insulation added to floor	New	Warehouse	All	0.0565
Heat Recovery	Existing	Education	All	0.3047
Heat Recovery	Existing	Grocery	All	0.3917
Heat Recovery	Existing	Healthcare	All	0.2588
Heat Recovery	Existing	Lodging	All	0.2084

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Heat Recovery	Existing	Misc.	All	0.2783
Heat Recovery	Existing	Office	All	0.2275
Heat Recovery	Existing	Restaurant	All	0.4898
Heat Recovery	Existing	Retail	All	0.2815
Heat Recovery	Existing	Warehouse	All	0.1600
Heat Recovery	New	Education	All	0.3047
Heat Recovery	New	Grocery	All	0.3917
Heat Recovery	New	Healthcare	All	0.2588
Heat Recovery	New	Lodging	All	0.2084
Heat Recovery	New	Misc.	All	0.2783
Heat Recovery	New	Office	All	0.2275
Heat Recovery	New	Restaurant	All	0.4898
Heat Recovery	New	Retail	All	0.2815
Heat Recovery	New	Warehouse	All	0.1600
High Efficiency Commercial Gas Clothes Washer	Existing	Education	All	2.6043
High Efficiency Commercial Gas Clothes Washer	Existing	Grocery	All	0.6103
High Efficiency Commercial Gas Clothes Washer	Existing	Healthcare	All	2.0322
High Efficiency Commercial Gas Clothes Washer	Existing	Lodging	All	3.3908
High Efficiency Commercial Gas Clothes Washer	Existing	Misc.	All	0.0717
High Efficiency Commercial Gas Clothes Washer	Existing	Office	All	0.2559
High Efficiency Commercial Gas Clothes Washer	Existing	Restaurant	All	1.6872
High Efficiency Commercial Gas Clothes Washer	Existing	Retail	All	0.1591
High Efficiency Commercial Gas Clothes Washer	Existing	Warehouse	All	0.1242
High Efficiency Commercial Gas Clothes Washer	New	Education	All	4.1620
High Efficiency Commercial Gas Clothes Washer	New	Grocery	All	2.4508
High Efficiency Commercial Gas Clothes Washer	New	Healthcare	All	3.9258
High Efficiency Commercial Gas Clothes Washer	New	Lodging	All	4.3790
High Efficiency Commercial Gas Clothes Washer	New	Misc.	All	0.4870
High Efficiency Commercial Gas Clothes Washer	New	Office	All	1.4055
High Efficiency Commercial Gas Clothes Washer	New	Restaurant	All	3.7288
High Efficiency Commercial Gas Clothes Washer	New	Retail	All	0.9716
High Efficiency Commercial Gas Clothes Washer	New	Warehouse	All	0.7903
Hot Water Pipe Insulation	Existing	Education	All	4.9236
Hot Water Pipe Insulation	Existing	Grocery	All	5.2665
Hot Water Pipe Insulation	Existing	Healthcare	All	4.6806
Hot Water Pipe Insulation	Existing	Lodging	All	4.3363
Hot Water Pipe Insulation	Existing	Misc.	All	4.7907
Hot Water Pipe Insulation	Existing	Office	All	4.4787
Hot Water Pipe Insulation	Existing	Restaurant	All	5.5373
Hot Water Pipe Insulation	Existing	Retail	All	4.8077
Hot Water Pipe Insulation	Existing	Warehouse	All	3.8922
Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Stat	New	Education	All	0.0000
Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Stat	New	Grocery	All	0.0000
Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Stat	New	Healthcare	All	0.0000
Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Stat	New	Lodging	All	0.0000
Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Stat	New	Misc.	All	0.0000
Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Stat	New	Office	All	0.0000
Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Stat	New	Restaurant	All	0.0000
Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Stat	New	Retail	All	0.0000
Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Stat	New	Warehouse	All	0.0000
Hot Water Temperature Reset	Existing	Education	All	0.9897
Hot Water Temperature Reset	Existing	Grocery	All	1.2534
Hot Water Temperature Reset	Existing	Healthcare	All	0.8475
Hot Water Temperature Reset	Existing	Lodging	All	0.6884
Hot Water Temperature Reset	Existing	Misc.	All	0.9082

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Hot Water Temperature Reset	Existing	Office	All	0.7492
Hot Water Temperature Reset	Existing	Restaurant	All	1.4021
Hot Water Temperature Reset	Existing	Retail	All	0.9182
Hot Water Temperature Reset	Existing	Warehouse	All	0.5332
Hot Water Temperature Reset	New	Education	All	0.9897
Hot Water Temperature Reset	New	Grocery	All	1.2534
Hot Water Temperature Reset	New	Healthcare	All	0.8475
Hot Water Temperature Reset	New	Lodging	All	0.6884
Hot Water Temperature Reset	New	Misc.	All	0.9082
Hot Water Temperature Reset	New	Office	All	0.7492
Hot Water Temperature Reset	New	Restaurant	All	1.4021
Hot Water Temperature Reset	New	Retail	All	0.9182
Hot Water Temperature Reset	New	Warehouse	All	0.5332
Hot Water Temperature Setback	Existing	Education	All	3.2278
Hot Water Temperature Setback	Existing	Grocery	All	2.5059
Hot Water Temperature Setback	Existing	Healthcare	All	3.1496
Hot Water Temperature Setback	Existing	Lodging	All	3.2952
Hot Water Temperature Setback	Existing	Misc.	All	0.7847
Hot Water Temperature Setback	Existing	Office	All	1.7842
Hot Water Temperature Setback	Existing	Restaurant	All	3.0802
Hot Water Temperature Setback	Existing	Retail	All	1.3708
Hot Water Temperature Setback	Existing	Warehouse	All	1.1694
Hot Water Temperature Setback	New	Education	All	3.2278
Hot Water Temperature Setback	New	Grocery	All	2.5059
Hot Water Temperature Setback	New	Healthcare	All	3.1496
Hot Water Temperature Setback	New	Lodging	All	3.2952
Hot Water Temperature Setback	New	Misc.	All	0.7847
Hot Water Temperature Setback	New	Office	All	1.7842
Hot Water Temperature Setback	New	Restaurant	All	3.0802
Hot Water Temperature Setback	New	Retail	All	1.3708
Hot Water Temperature Setback	New	Warehouse	All	1.1694
HVAC Controls	Existing	Education	All	0.7570
HVAC Controls	Existing	Grocery	All	0.5344
HVAC Controls	Existing	Healthcare	All	0.4648
HVAC Controls	Existing	Lodging	All	0.4632
HVAC Controls	Existing	Misc.	All	0.1865
HVAC Controls	Existing	Office	All	0.3247
HVAC Controls	Existing	Restaurant	All	0.1871
HVAC Controls	Existing	Retail	All	0.3297
HVAC Controls	Existing	Warehouse	All	0.2742
HVAC Controls	New	Education	All	0.7570
HVAC Controls	New	Grocery	All	0.5344
HVAC Controls	New	Healthcare	All	0.4648
HVAC Controls	New	Lodging	All	0.4632
HVAC Controls	New	Misc.	All	0.1865
HVAC Controls	New	Office	All	0.3247
HVAC Controls	New	Restaurant	All	0.1871
HVAC Controls	New	Retail	All	0.3297
HVAC Controls	New	Warehouse	All	0.2742
HVAC System Commissioning	Existing	Education	All	0.2399
HVAC System Commissioning	Existing	Grocery	All	0.1672
HVAC System Commissioning	Existing	Healthcare	All	0.1449
HVAC System Commissioning	Existing	Lodging	All	0.1444
HVAC System Commissioning	Existing	Misc.	All	0.0572
HVAC System Commissioning	Existing	Office	All	0.1004

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
HVAC System Commissioning	Existing	Restaurant	All	0.0574
HVAC System Commissioning	Existing	Retail	All	0.1020
HVAC System Commissioning	Existing	Warehouse	All	0.0845
HVAC System Commissioning	New	Education	All	0.2399
HVAC System Commissioning	New	Grocery	All	0.1672
HVAC System Commissioning	New	Healthcare	All	0.1449
HVAC System Commissioning	New	Lodging	All	0.1444
HVAC System Commissioning	New	Misc.	All	0.0572
HVAC System Commissioning	New	Office	All	0.1004
HVAC System Commissioning	New	Restaurant	All	0.0574
HVAC System Commissioning	New	Retail	All	0.1020
HVAC System Commissioning	New	Warehouse	All	0.0845
Low Flow Showerhead, 2.0 gpm	Existing	Education	All	4.7141
Low Flow Showerhead, 2.0 gpm	Existing	Grocery	All	4.6315
Low Flow Showerhead, 2.0 gpm	Existing	Healthcare	All	3.7124
Low Flow Showerhead, 2.0 gpm	Existing	Lodging	All	4.2341
Low Flow Showerhead, 2.0 gpm	Existing	Misc.	All	1.3999
Low Flow Showerhead, 2.0 gpm	Existing	Office	All	3.2485
Low Flow Showerhead, 2.0 gpm	Existing	Restaurant	All	5.7621
Low Flow Showerhead, 2.0 gpm	Existing	Retail	All	2.4748
Low Flow Showerhead, 2.0 gpm	Existing	Warehouse	All	2.1026
Low Flow Showerhead, 2.0 gpm	New	Education	All	5.3335
Low Flow Showerhead, 2.0 gpm	New	Grocery	All	5.2759
Low Flow Showerhead, 2.0 gpm	New	Healthcare	All	4.5768
Low Flow Showerhead, 2.0 gpm	New	Lodging	All	4.9871
Low Flow Showerhead, 2.0 gpm	New	Misc.	All	2.1762
Low Flow Showerhead, 2.0 gpm	New	Office	All	4.1783
Low Flow Showerhead, 2.0 gpm	New	Restaurant	All	6.0026
Low Flow Showerhead, 2.0 gpm	New	Retail	All	3.4310
Low Flow Showerhead, 2.0 gpm	New	Warehouse	All	3.0284
Low-flow Pre-Rinse Spray Valve 1.06 gpm	Existing	Education	All	3.1507
Low-flow Pre-Rinse Spray Valve 1.06 gpm	Existing	Grocery	All	2.1552
Low-flow Pre-Rinse Spray Valve 1.06 gpm	Existing	Healthcare	All	3.0301
Low-flow Pre-Rinse Spray Valve 1.06 gpm	Existing	Lodging	All	3.2575
Low-flow Pre-Rinse Spray Valve 1.06 gpm	Existing	Misc.	All	0.9092
Low-flow Pre-Rinse Spray Valve 1.06 gpm	Existing	Office	All	1.9471
Low-flow Pre-Rinse Spray Valve 1.06 gpm	Existing	Restaurant	All	2.9258
Low-flow Pre-Rinse Spray Valve 1.06 gpm	Existing	Retail	All	1.5328
Low-flow Pre-Rinse Spray Valve 1.06 gpm	Existing	Warehouse	All	1.3235
Low-flow Pre-Rinse Spray Valve 1.06 gpm	New	Education	All	3.2513
Low-flow Pre-Rinse Spray Valve 1.06 gpm	New	Grocery	All	2.6323
Low-flow Pre-Rinse Spray Valve 1.06 gpm	New	Healthcare	All	3.1867
Low-flow Pre-Rinse Spray Valve 1.06 gpm	New	Lodging	All	3.3065
Low-flow Pre-Rinse Spray Valve 1.06 gpm	New	Misc.	All	1.4417
Low-flow Pre-Rinse Spray Valve 1.06 gpm	New	Office	All	2.4730
Low-flow Pre-Rinse Spray Valve 1.06 gpm	New	Restaurant	All	3.1289
Low-flow Pre-Rinse Spray Valve 1.06 gpm	New	Retail	All	2.1149
Low-flow Pre-Rinse Spray Valve 1.06 gpm	New	Warehouse	All	1.9093
Low-temp Door-Type Energy Star Dishwasher	Existing	Education	All	1.7579
Low-temp Door-Type Energy Star Dishwasher	Existing	Grocery	All	0.2479
Low-temp Door-Type Energy Star Dishwasher	Existing	Healthcare	All	1.1529
Low-temp Door-Type Energy Star Dishwasher	Existing	Lodging	All	3.0966
Low-temp Door-Type Energy Star Dishwasher	Existing	Misc.	All	0.0525
Low-temp Door-Type Energy Star Dishwasher	Existing	Office	All	0.1921
Low-temp Door-Type Energy Star Dishwasher	Existing	Restaurant	All	0.8732

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Low-temp Door-Type Energy Star Dishwasher	Existing	Retail	All	0.1178
Low-temp Door-Type Energy Star Dishwasher	Existing	Warehouse	All	0.0915
Low-temp Door-Type Energy Star Dishwasher	New	Education	All	3.8163
Low-temp Door-Type Energy Star Dishwasher	New	Grocery	All	0.7113
Low-temp Door-Type Energy Star Dishwasher	New	Healthcare	All	2.7731
Low-temp Door-Type Energy Star Dishwasher	New	Lodging	All	5.5299
Low-temp Door-Type Energy Star Dishwasher	New	Misc.	All	0.1570
Low-temp Door-Type Energy Star Dishwasher	New	Office	All	0.5578
Low-temp Door-Type Energy Star Dishwasher	New	Restaurant	All	2.2106
Low-temp Door-Type Energy Star Dishwasher	New	Retail	All	0.3477
Low-temp Door-Type Energy Star Dishwasher	New	Warehouse	All	0.2717
Motion Faucet Controls	Existing	Education	All	0.4414
Motion Faucet Controls	Existing	Grocery	All	0.3931
Motion Faucet Controls	Existing	Healthcare	All	0.7240
Motion Faucet Controls	Existing	Lodging	All	2.3839
Motion Faucet Controls	Existing	Misc.	All	0.0897
Motion Faucet Controls	Existing	Office	All	0.0672
Motion Faucet Controls	Existing	Restaurant	All	1.6830
Motion Faucet Controls	Existing	Retail	All	0.1963
Motion Faucet Controls	Existing	Warehouse	All	0.1541
Motion Faucet Controls, 12 s flow duration	New	Education	All	2.3895
Motion Faucet Controls, 12 s flow duration	New	Grocery	All	2.2958
Motion Faucet Controls, 12 s flow duration	New	Healthcare	All	2.7446
Motion Faucet Controls, 12 s flow duration	New	Lodging	All	3.2739
Motion Faucet Controls, 12 s flow duration	New	Misc.	All	1.0388
Motion Faucet Controls, 12 s flow duration	New	Office	All	0.8394
Motion Faucet Controls, 12 s flow duration	New	Restaurant	All	3.1631
Motion Faucet Controls, 12 s flow duration	New	Retail	All	1.6899
Motion Faucet Controls, 12 s flow duration	New	Warehouse	All	1.4766
Multi-tank Conveyor Dishwasher - Energy Star	Existing	Education	All	1.1082
Multi-tank Conveyor Dishwasher - Energy Star	Existing	Grocery	All	0.1413
Multi-tank Conveyor Dishwasher - Energy Star	Existing	Healthcare	All	0.6971
Multi-tank Conveyor Dishwasher - Energy Star	Existing	Lodging	All	2.1551
Multi-tank Conveyor Dishwasher - Energy Star	Existing	Misc.	All	0.0295
Multi-tank Conveyor Dishwasher - Energy Star	Existing	Office	All	0.1091
Multi-tank Conveyor Dishwasher - Energy Star	Existing	Restaurant	All	0.5182
Multi-tank Conveyor Dishwasher - Energy Star	Existing	Retail	All	0.0666
Multi-tank Conveyor Dishwasher - Energy Star	Existing	Warehouse	All	0.0517
Multi-tank Conveyor Dishwasher - Energy Star	New	Education	All	7.4185
Multi-tank Conveyor Dishwasher - Energy Star	New	Grocery	All	1.9795
Multi-tank Conveyor Dishwasher - Energy Star	New	Healthcare	All	5.9981
Multi-tank Conveyor Dishwasher - Energy Star	New	Lodging	All	9.2162
Multi-tank Conveyor Dishwasher - Energy Star	New	Misc.	All	0.4735
Multi-tank Conveyor Dishwasher - Energy Star	New	Office	All	1.5860
Multi-tank Conveyor Dishwasher - Energy Star	New	Restaurant	All	5.0909
Multi-tank Conveyor Dishwasher - Energy Star	New	Retail	All	1.0191
Multi-tank Conveyor Dishwasher - Energy Star	New	Warehouse	All	0.8052
Ozone injection laundry systems	Existing	Education	All	0.3074
Ozone injection laundry systems	Existing	Grocery	All	0.0375
Ozone injection laundry systems	Existing	Healthcare	All	0.1898
Ozone injection laundry systems	Existing	Lodging	All	0.6283
Ozone injection laundry systems	Existing	Misc.	All	0.0039
Ozone injection laundry systems	Existing	Office	All	0.0145
Ozone injection laundry systems	Existing	Restaurant	All	0.1399
Ozone injection laundry systems	Existing	Retail	All	0.0088

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Description	Vintage	Segment	Climate Zone	B/c Ratio
Ozone injection laundry systems	Existing	Warehouse	All	0.0068
Ozone injection laundry systems	New	Education	All	0.3074
Ozone injection laundry systems	New	Grocery	All	0.0375
Ozone injection laundry systems	New	Healthcare	All	0.1898
Ozone injection laundry systems	New	Lodging	All	0.6283
Ozone injection laundry systems	New	Misc.	All	0.0039
Ozone injection laundry systems	New	Office	All	0.0145
Ozone injection laundry systems	New	Restaurant	All	0.1399
Ozone injection laundry systems	New	Retail	All	0.0088
Ozone injection laundry systems	New	Warehouse	All	0.0068
Pool Cover	Existing	Education	All	1.1190
Pool Cover	Existing	Grocery	All	0.1140
Pool Cover	Existing	Healthcare	All	0.3196
Pool Cover	Existing	Lodging	All	0.3565
Pool Cover	Existing	Misc.	All	0.0776
Pool Cover	Existing	Office	All	0.1344
Pool Cover	Existing	Restaurant	All	0.0229
Pool Cover	Existing	Retail	All	0.0348
Pool Cover	Existing	Warehouse	All	0.0748
Pool Cover	New	Education	All	1.1190
Pool Cover	New	Grocery	All	0.1140
Pool Cover	New	Healthcare	All	0.3196
Pool Cover	New	Lodging	All	0.3565
Pool Cover	New	Misc.	All	0.0776
Pool Cover	New	Office	All	0.1344
Pool Cover	New	Restaurant	All	0.0229
Pool Cover	New	Retail	All	0.0348
Pool Cover	New	Warehouse	All	0.0748
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	Existing	Education	All	4.6010
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	Existing	Grocery	All	0.4738
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	Existing	Healthcare	All	1.3254
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	Existing	Lodging	All	1.4778
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	Existing	Misc.	All	0.3228
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	Existing	Office	All	0.5582
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	Existing	Restaurant	All	0.0952
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	Existing	Retail	All	0.1446
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	Existing	Warehouse	All	0.3110
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	New	Education	All	4.6010
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	New	Grocery	All	0.4738
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	New	Healthcare	All	1.3254
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	New	Lodging	All	1.4778
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	New	Misc.	All	0.3228
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	New	Office	All	0.5582
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	New	Restaurant	All	0.0952
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	New	Retail	All	0.1446
Pool Spa Solar Heat, 79 sf collector area, pool is storage volume	New	Warehouse	All	0.3110
Recirculation Controls	Existing	Education	All	2.8919
Recirculation Controls	Existing	Grocery	All	0.6476
Recirculation Controls	Existing	Healthcare	All	2.0992
Recirculation Controls	Existing	Lodging	All	4.1957
Recirculation Controls	Existing	Misc.	All	0.1505
Recirculation Controls	Existing	Office	All	0.2530
Recirculation Controls	Existing	Restaurant	All	3.4759
Recirculation Controls	Existing	Retail	All	0.1899
Recirculation Controls	Existing	Warehouse	All	0.2625

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Description	Vintage	Segment	Climate Zone	B/c Ratio
Recirculation Controls	New	Education	All	5.6808
Recirculation Controls	New	Grocery	All	1.9656
Recirculation Controls	New	Healthcare	All	4.7108
Recirculation Controls	New	Lodging	All	6.8401
Recirculation Controls	New	Misc.	All	0.5197
Recirculation Controls	New	Office	All	0.8495
Recirculation Controls	New	Restaurant	All	6.2540
Recirculation Controls	New	Retail	All	0.6486
Recirculation Controls	New	Warehouse	All	0.8791
Refrigeration system superheat recovery DHW	Existing	Education	All	1.4336
Refrigeration system superheat recovery DHW	Existing	Grocery	All	0.1947
Refrigeration system superheat recovery DHW	Existing	Healthcare	All	0.9260
Refrigeration system superheat recovery DHW	Existing	Lodging	All	2.6142
Refrigeration system superheat recovery DHW	Existing	Misc.	All	0.0206
Refrigeration system superheat recovery DHW	Existing	Office	All	0.0760
Refrigeration system superheat recovery DHW	Existing	Restaurant	All	0.6965
Refrigeration system superheat recovery DHW	Existing	Retail	All	0.0464
Refrigeration system superheat recovery DHW	Existing	Warehouse	All	0.0360
Refrigeration system superheat recovery DHW	New	Education	All	1.4336
Refrigeration system superheat recovery DHW	New	Grocery	All	0.1947
Refrigeration system superheat recovery DHW	New	Healthcare	All	0.9260
Refrigeration system superheat recovery DHW	New	Lodging	All	2.6142
Refrigeration system superheat recovery DHW	New	Misc.	All	0.0206
Refrigeration system superheat recovery DHW	New	Office	All	0.0760
Refrigeration system superheat recovery DHW	New	Restaurant	All	0.6965
Refrigeration system superheat recovery DHW	New	Retail	All	0.0464
Refrigeration system superheat recovery DHW	New	Warehouse	All	0.0360
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Education	All	3.1425
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Grocery	All	3.1671
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Healthcare	All	2.7449
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Lodging	All	2.1725
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Misc.	All	2.7848
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Office	All	2.4606
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Restaurant	All	4.1835
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Retail	All	2.3950
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Warehouse	All	1.1588
Roof insulation (retrofit only) - Tier 1: Min R-30	New	Education	All	3.1425
Roof insulation (retrofit only) - Tier 1: Min R-30	New	Grocery	All	3.1671
Roof insulation (retrofit only) - Tier 1: Min R-30	New	Healthcare	All	2.7449
Roof insulation (retrofit only) - Tier 1: Min R-30	New	Lodging	All	2.1725
Roof insulation (retrofit only) - Tier 1: Min R-30	New	Misc.	All	2.7848
Roof insulation (retrofit only) - Tier 1: Min R-30	New	Office	All	2.4606
Roof insulation (retrofit only) - Tier 1: Min R-30	New	Restaurant	All	4.1835
Roof insulation (retrofit only) - Tier 1: Min R-30	New	Retail	All	2.3950
Roof insulation (retrofit only) - Tier 1: Min R-30	New	Warehouse	All	1.1588
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Education	All	2.2528
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Grocery	All	2.2718
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Healthcare	All	1.9492
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Lodging	All	1.5221
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Misc.	All	1.9794
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Office	All	1.7356
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Restaurant	All	3.0759
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Retail	All	1.6868
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Warehouse	All	0.7930
Roof insulation (retrofit only) - Tier 2: Min R-45	New	Education	All	0.0475

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Description	Vintage	Segment	Climate Zone	B/c Ratio
Roof insulation (retrofit only) - Tier 2: Min R-45	New	Grocery	All	0.0480
Roof insulation (retrofit only) - Tier 2: Min R-45	New	Healthcare	All	0.0402
Roof insulation (retrofit only) - Tier 2: Min R-45	New	Lodging	All	0.0304
Roof insulation (retrofit only) - Tier 2: Min R-45	New	Misc.	All	0.0409
Roof insulation (retrofit only) - Tier 2: Min R-45	New	Office	All	0.0352
Roof insulation (retrofit only) - Tier 2: Min R-45	New	Restaurant	All	0.0693
Roof insulation (retrofit only) - Tier 2: Min R-45	New	Retail	All	0.0341
Roof insulation (retrofit only) - Tier 2: Min R-45	New	Warehouse	All	0.0150
SolarWall 26ga	Existing	Education	All	0.7905
SolarWall 26ga	Existing	Grocery	All	0.7457
SolarWall 26ga	Existing	Healthcare	All	0.5646
SolarWall 26ga	Existing	Lodging	All	0.5061
SolarWall 26ga	Existing	Misc.	All	0.3681
SolarWall 26ga	Existing	Office	All	0.4404
SolarWall 26ga	Existing	Restaurant	All	0.4913
SolarWall 26ga	Existing	Retail	All	0.4937
SolarWall 26ga	Existing	Warehouse	All	0.3390
SolarWall 26ga	New	Education	All	0.7905
SolarWall 26ga	New	Grocery	All	0.7457
SolarWall 26ga	New	Healthcare	All	0.5646
SolarWall 26ga	New	Lodging	All	0.5061
SolarWall 26ga	New	Misc.	All	0.3681
SolarWall 26ga	New	Office	All	0.4404
SolarWall 26ga	New	Restaurant	All	0.4913
SolarWall 26ga	New	Retail	All	0.4937
SolarWall 26ga	New	Warehouse	All	0.3390
Steam System Efficiency Improvements	Existing	Education	All	1.0425
Steam System Efficiency Improvements	Existing	Grocery	All	0.7372
Steam System Efficiency Improvements	Existing	Healthcare	All	0.6416
Steam System Efficiency Improvements	Existing	Lodging	All	0.6393
Steam System Efficiency Improvements	Existing	Misc.	All	0.2579
Steam System Efficiency Improvements	Existing	Office	All	0.4486
Steam System Efficiency Improvements	Existing	Restaurant	All	0.2588
Steam System Efficiency Improvements	Existing	Retail	All	0.4555
Steam System Efficiency Improvements	Existing	Warehouse	All	0.3790
Steam System Efficiency Improvements	New	Education	All	1.0425
Steam System Efficiency Improvements	New	Grocery	All	0.7372
Steam System Efficiency Improvements	New	Healthcare	All	0.6416
Steam System Efficiency Improvements	New	Lodging	All	0.6393
Steam System Efficiency Improvements	New	Misc.	All	0.2579
Steam System Efficiency Improvements	New	Office	All	0.4486
Steam System Efficiency Improvements	New	Restaurant	All	0.2588
Steam System Efficiency Improvements	New	Retail	All	0.4555
Steam System Efficiency Improvements	New	Warehouse	All	0.3790
Variable Volume Air System	Existing	Education	All	1.0017
Variable Volume Air System	Existing	Grocery	All	1.2590
Variable Volume Air System	Existing	Healthcare	All	0.8612
Variable Volume Air System	Existing	Lodging	All	0.7028
Variable Volume Air System	Existing	Misc.	All	0.9214
Variable Volume Air System	Existing	Office	All	0.7635
Variable Volume Air System	Existing	Restaurant	All	1.5357
Variable Volume Air System	Existing	Retail	All	0.9312
Variable Volume Air System	Existing	Warehouse	All	0.5468
Variable Volume Air System	New	Education	All	1.0017
Variable Volume Air System	New	Grocery	All	1.2590

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Description	Vintage	Segment	Climate Zone	B/c Ratio
Variable Volume Air System	New	Healthcare	All	0.8612
Variable Volume Air System	New	Lodging	All	0.7028
Variable Volume Air System	New	Misc.	All	0.9214
Variable Volume Air System	New	Office	All	0.7635
Variable Volume Air System	New	Restaurant	All	1.5357
Variable Volume Air System	New	Retail	All	0.9312
Variable Volume Air System	New	Warehouse	All	0.5468
Ventilation Hood / Makeup Air	Existing	Education	All	0.3543
Ventilation Hood / Makeup Air	Existing	Grocery	All	0.4460
Ventilation Hood / Makeup Air	Existing	Healthcare	All	0.3044
Ventilation Hood / Makeup Air	Existing	Lodging	All	0.2482
Ventilation Hood / Makeup Air	Existing	Misc.	All	0.3258
Ventilation Hood / Makeup Air	Existing	Office	All	0.2697
Ventilation Hood / Makeup Air	Existing	Restaurant	All	0.5450
Ventilation Hood / Makeup Air	Existing	Retail	All	0.3293
Ventilation Hood / Makeup Air	Existing	Warehouse	All	0.1929
Ventilation Hood / Makeup Air	New	Education	All	0.3543
Ventilation Hood / Makeup Air	New	Grocery	All	0.4460
Ventilation Hood / Makeup Air	New	Healthcare	All	0.3044
Ventilation Hood / Makeup Air	New	Lodging	All	0.2482
Ventilation Hood / Makeup Air	New	Misc.	All	0.3258
Ventilation Hood / Makeup Air	New	Office	All	0.2697
Ventilation Hood / Makeup Air	New	Restaurant	All	0.5450
Ventilation Hood / Makeup Air	New	Retail	All	0.3293
Ventilation Hood / Makeup Air	New	Warehouse	All	0.1929
Wall insulation - Tier 2: Min R-19	Existing	Education	All	3.6928
Wall insulation - Tier 2: Min R-19	Existing	Grocery	All	3.5248
Wall insulation - Tier 2: Min R-19	Existing	Healthcare	All	2.8038
Wall insulation - Tier 2: Min R-19	Existing	Lodging	All	2.5551
Wall insulation - Tier 2: Min R-19	Existing	Misc.	All	1.9340
Wall insulation - Tier 2: Min R-19	Existing	Office	All	2.2657
Wall insulation - Tier 2: Min R-19	Existing	Restaurant	All	2.4906
Wall insulation - Tier 2: Min R-19	Existing	Retail	All	2.5011
Wall insulation - Tier 2: Min R-19	Existing	Warehouse	All	1.7967
Wall insulation - Tier 2: Min R-19	New	Education	All	0.4537
Wall insulation - Tier 2: Min R-19	New	Grocery	All	0.4274
Wall insulation - Tier 2: Min R-19	New	Healthcare	All	0.3221
Wall insulation - Tier 2: Min R-19	New	Lodging	All	0.2883
Wall insulation - Tier 2: Min R-19	New	Misc.	All	0.2090
Wall insulation - Tier 2: Min R-19	New	Office	All	0.2505
Wall insulation - Tier 2: Min R-19	New	Restaurant	All	0.2798
Wall insulation - Tier 2: Min R-19	New	Retail	All	0.2812
Wall insulation - Tier 2: Min R-19	New	Warehouse	All	0.1923
Wall insulation (Retrofit Only) - Tier 1: Min R-11	Existing	Education	All	3.4828
Wall insulation (Retrofit Only) - Tier 1: Min R-11	Existing	Grocery	All	3.3216
Wall insulation (Retrofit Only) - Tier 1: Min R-11	Existing	Healthcare	All	2.6326
Wall insulation (Retrofit Only) - Tier 1: Min R-11	Existing	Lodging	All	2.3960
Wall insulation (Retrofit Only) - Tier 1: Min R-11	Existing	Misc.	All	1.8080
Wall insulation (Retrofit Only) - Tier 1: Min R-11	Existing	Office	All	2.1216
Wall insulation (Retrofit Only) - Tier 1: Min R-11	Existing	Restaurant	All	2.3348
Wall insulation (Retrofit Only) - Tier 1: Min R-11	Existing	Retail	All	2.3448
Wall insulation (Retrofit Only) - Tier 1: Min R-11	Existing	Warehouse	All	1.6785
Wall insulation (Retrofit Only) - Tier 1: Min R-11	New	Education	All	3.4828
Wall insulation (Retrofit Only) - Tier 1: Min R-11	New	Grocery	All	3.3216
Wall insulation (Retrofit Only) - Tier 1: Min R-11	New	Healthcare	All	2.6326

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Description	Vintage	Segment	Climate Zone	B/c Ratio
Wall insulation (Retrofit Only) - Tier 1: Min R-11	New	Lodging	All	2.3960
Wall insulation (Retrofit Only) - Tier 1: Min R-11	New	Misc.	All	1.8080
Wall insulation (Retrofit Only) - Tier 1: Min R-11	New	Office	All	2.1216
Wall insulation (Retrofit Only) - Tier 1: Min R-11	New	Restaurant	All	2.3348
Wall insulation (Retrofit Only) - Tier 1: Min R-11	New	Retail	All	2.3448
Wall insulation (Retrofit Only) - Tier 1: Min R-11	New	Warehouse	All	1.6785
Windows - Add Argon to Vinyl Lowe	Existing	Education	All	3.2207
Windows - Add Argon to Vinyl Lowe	Existing	Grocery	All	3.8633
Windows - Add Argon to Vinyl Lowe	Existing	Healthcare	All	2.8433
Windows - Add Argon to Vinyl Lowe	Existing	Lodging	All	2.3926
Windows - Add Argon to Vinyl Lowe	Existing	Misc.	All	3.0073
Windows - Add Argon to Vinyl Lowe	Existing	Office	All	2.5685
Windows - Add Argon to Vinyl Lowe	Existing	Restaurant	All	4.4921
Windows - Add Argon to Vinyl Lowe	Existing	Retail	All	3.0338
Windows - Add Argon to Vinyl Lowe	Existing	Warehouse	All	1.9204
Windows - Add Argon to Vinyl Lowe	New	Education	All	2.7649
Windows - Add Argon to Vinyl Lowe	New	Grocery	All	3.3528
Windows - Add Argon to Vinyl Lowe	New	Healthcare	All	2.4256
Windows - Add Argon to Vinyl Lowe	New	Lodging	All	2.0259
Windows - Add Argon to Vinyl Lowe	New	Misc.	All	2.5726
Windows - Add Argon to Vinyl Lowe	New	Office	All	2.1812
Windows - Add Argon to Vinyl Lowe	New	Restaurant	All	3.9406
Windows - Add Argon to Vinyl Lowe	New	Retail	All	2.5964
Windows - Add Argon to Vinyl Lowe	New	Warehouse	All	1.6135
Windows - Add Low E and Argon to Vinyl Tint	Existing	Education	All	10.8030
Windows - Add Low E and Argon to Vinyl Tint	Existing	Grocery	All	10.5730
Windows - Add Low E and Argon to Vinyl Tint	Existing	Healthcare	All	10.9264
Windows - Add Low E and Argon to Vinyl Tint	Existing	Lodging	All	11.0639
Windows - Add Low E and Argon to Vinyl Tint	Existing	Misc.	All	10.8738
Windows - Add Low E and Argon to Vinyl Tint	Existing	Office	All	11.0114
Windows - Add Low E and Argon to Vinyl Tint	Existing	Restaurant	All	10.3198
Windows - Add Low E and Argon to Vinyl Tint	Existing	Retail	All	10.8651
Windows - Add Low E and Argon to Vinyl Tint	Existing	Warehouse	All	11.1975
Windows - Add Low E and Argon to Vinyl Tint	New	Education	All	10.8030
Windows - Add Low E and Argon to Vinyl Tint	New	Grocery	All	10.5730
Windows - Add Low E and Argon to Vinyl Tint	New	Healthcare	All	10.9264
Windows - Add Low E and Argon to Vinyl Tint	New	Lodging	All	11.0639
Windows - Add Low E and Argon to Vinyl Tint	New	Misc.	All	10.8738
Windows - Add Low E and Argon to Vinyl Tint	New	Office	All	11.0114
Windows - Add Low E and Argon to Vinyl Tint	New	Restaurant	All	10.3198
Windows - Add Low E and Argon to Vinyl Tint	New	Retail	All	10.8651
Windows - Add Low E and Argon to Vinyl Tint	New	Warehouse	All	11.1975
Windows - Add Low E to Vinyl Tint	Existing	Education	All	4.0321
Windows - Add Low E to Vinyl Tint	Existing	Grocery	All	4.7455
Windows - Add Low E to Vinyl Tint	Existing	Healthcare	All	3.6003
Windows - Add Low E to Vinyl Tint	Existing	Lodging	All	3.0714
Windows - Add Low E to Vinyl Tint	Existing	Misc.	All	3.7891
Windows - Add Low E to Vinyl Tint	Existing	Office	All	3.2795
Windows - Add Low E to Vinyl Tint	Existing	Restaurant	All	5.4180
Windows - Add Low E to Vinyl Tint	Existing	Retail	All	3.8195
Windows - Add Low E to Vinyl Tint	Existing	Warehouse	All	2.5014
Windows - Add Low E to Vinyl Tint	New	Education	All	3.3644
Windows - Add Low E to Vinyl Tint	New	Grocery	All	4.0220
Windows - Add Low E to Vinyl Tint	New	Healthcare	All	2.9761
Windows - Add Low E to Vinyl Tint	New	Lodging	All	2.5103

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Windows - Add Low E to Vinyl Tint	New	Misc.	All	3.1450
Windows - Add Low E to Vinyl Tint	New	Office	All	2.6924
Windows - Add Low E to Vinyl Tint	New	Restaurant	All	4.6612
Windows - Add Low E to Vinyl Tint	New	Retail	All	3.1723
Windows - Add Low E to Vinyl Tint	New	Warehouse	All	2.0200
Windows - Non-Tinted AL Code to Class 36	Existing	Education	All	1.5028
Windows - Non-Tinted AL Code to Class 36	Existing	Grocery	All	1.8791
Windows - Non-Tinted AL Code to Class 36	Existing	Healthcare	All	1.2958
Windows - Non-Tinted AL Code to Class 36	Existing	Lodging	All	1.0609
Windows - Non-Tinted AL Code to Class 36	Existing	Misc.	All	1.3846
Windows - Non-Tinted AL Code to Class 36	Existing	Office	All	1.1510
Windows - Non-Tinted AL Code to Class 36	Existing	Restaurant	All	2.2795
Windows - Non-Tinted AL Code to Class 36	Existing	Retail	All	1.3991
Windows - Non-Tinted AL Code to Class 36	Existing	Warehouse	All	0.8280
Windows - Non-Tinted AL Code to Class 36	New	Education	All	1.4319
Windows - Non-Tinted AL Code to Class 36	New	Grocery	All	1.7935
Windows - Non-Tinted AL Code to Class 36	New	Healthcare	All	1.2335
Windows - Non-Tinted AL Code to Class 36	New	Lodging	All	1.0087
Windows - Non-Tinted AL Code to Class 36	New	Misc.	All	1.3185
Windows - Non-Tinted AL Code to Class 36	New	Office	All	1.0949
Windows - Non-Tinted AL Code to Class 36	New	Restaurant	All	2.1798
Windows - Non-Tinted AL Code to Class 36	New	Retail	All	1.3324
Windows - Non-Tinted AL Code to Class 36	New	Warehouse	All	0.7864
Windows - Non-Tinted AL Code to Class 40	Existing	Education	All	2.2575
Windows - Non-Tinted AL Code to Class 40	Existing	Grocery	All	2.7712
Windows - Non-Tinted AL Code to Class 40	Existing	Healthcare	All	1.9667
Windows - Non-Tinted AL Code to Class 40	Existing	Lodging	All	1.6292
Windows - Non-Tinted AL Code to Class 40	Existing	Misc.	All	2.0921
Windows - Non-Tinted AL Code to Class 40	Existing	Office	All	1.7597
Windows - Non-Tinted AL Code to Class 40	Existing	Restaurant	All	3.2975
Windows - Non-Tinted AL Code to Class 40	Existing	Retail	All	2.1126
Windows - Non-Tinted AL Code to Class 40	Existing	Warehouse	All	1.2868
Windows - Non-Tinted AL Code to Class 40	New	Education	All	2.1835
Windows - Non-Tinted AL Code to Class 40	New	Grocery	All	2.6851
Windows - Non-Tinted AL Code to Class 40	New	Healthcare	All	1.9003
Windows - Non-Tinted AL Code to Class 40	New	Lodging	All	1.5724
Windows - Non-Tinted AL Code to Class 40	New	Misc.	All	2.0224
Windows - Non-Tinted AL Code to Class 40	New	Office	All	1.6990
Windows - Non-Tinted AL Code to Class 40	New	Restaurant	All	3.2009
Windows - Non-Tinted AL Code to Class 40	New	Retail	All	2.0423
Windows - Non-Tinted AL Code to Class 40	New	Warehouse	All	1.2404
Windows - Non-Tinted AL Code to Class 45	Existing	Education	All	1.3676
Windows - Non-Tinted AL Code to Class 45	Existing	Grocery	All	1.7157
Windows - Non-Tinted AL Code to Class 45	Existing	Healthcare	All	1.1770
Windows - Non-Tinted AL Code to Class 45	Existing	Lodging	All	0.9616
Windows - Non-Tinted AL Code to Class 45	Existing	Misc.	All	1.2586
Windows - Non-Tinted AL Code to Class 45	Existing	Office	All	1.0442
Windows - Non-Tinted AL Code to Class 45	Existing	Restaurant	All	2.0887
Windows - Non-Tinted AL Code to Class 45	Existing	Retail	All	1.2720
Windows - Non-Tinted AL Code to Class 45	Existing	Warehouse	All	0.7490
Windows - Non-Tinted AL Code to Class 45	New	Education	All	1.2970
Windows - Non-Tinted AL Code to Class 45	New	Grocery	All	1.6301
Windows - Non-Tinted AL Code to Class 45	New	Healthcare	All	1.1153
Windows - Non-Tinted AL Code to Class 45	New	Lodging	All	0.9102
Windows - Non-Tinted AL Code to Class 45	New	Misc.	All	1.1931

Commercial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Windows - Non-Tinted AL Code to Class 45	New	Office	All	0.9887
Windows - Non-Tinted AL Code to Class 45	New	Restaurant	All	1.9881
Windows - Non-Tinted AL Code to Class 45	New	Retail	All	1.2058
Windows - Non-Tinted AL Code to Class 45	New	Warehouse	All	0.7082
Windows - Tinted AL Code to Class 36	Existing	Education	All	1.3154
Windows - Tinted AL Code to Class 36	Existing	Grocery	All	1.6524
Windows - Tinted AL Code to Class 36	Existing	Healthcare	All	1.1313
Windows - Tinted AL Code to Class 36	Existing	Lodging	All	0.9235
Windows - Tinted AL Code to Class 36	Existing	Misc.	All	1.2101
Windows - Tinted AL Code to Class 36	Existing	Office	All	1.0031
Windows - Tinted AL Code to Class 36	Existing	Restaurant	All	2.0144
Windows - Tinted AL Code to Class 36	Existing	Retail	All	1.2231
Windows - Tinted AL Code to Class 36	Existing	Warehouse	All	0.7188
Windows - Tinted AL Code to Class 36	New	Education	All	1.0823
Windows - Tinted AL Code to Class 36	New	Grocery	All	1.3675
Windows - Tinted AL Code to Class 36	New	Healthcare	All	0.9279
Windows - Tinted AL Code to Class 36	New	Lodging	All	0.7548
Windows - Tinted AL Code to Class 36	New	Misc.	All	0.9939
Windows - Tinted AL Code to Class 36	New	Office	All	0.8210
Windows - Tinted AL Code to Class 36	New	Restaurant	All	1.6776
Windows - Tinted AL Code to Class 36	New	Retail	All	1.0048
Windows - Tinted AL Code to Class 36	New	Warehouse	All	0.5854
Windows - Tinted AL Code to Class 45	Existing	Education	All	0.3124
Windows - Tinted AL Code to Class 45	Existing	Grocery	All	0.4024
Windows - Tinted AL Code to Class 45	Existing	Healthcare	All	0.2651
Windows - Tinted AL Code to Class 45	Existing	Lodging	All	0.2132
Windows - Tinted AL Code to Class 45	Existing	Misc.	All	0.2852
Windows - Tinted AL Code to Class 45	Existing	Office	All	0.2329
Windows - Tinted AL Code to Class 45	Existing	Restaurant	All	0.5044
Windows - Tinted AL Code to Class 45	Existing	Retail	All	0.2885
Windows - Tinted AL Code to Class 45	Existing	Warehouse	All	0.1635
Windows - Tinted AL Code to Class 45	New	Education	All	0.0005
Windows - Tinted AL Code to Class 45	New	Grocery	All	0.0007
Windows - Tinted AL Code to Class 45	New	Healthcare	All	0.0004
Windows - Tinted AL Code to Class 45	New	Lodging	All	0.0003
Windows - Tinted AL Code to Class 45	New	Misc.	All	0.0005
Windows - Tinted AL Code to Class 45	New	Office	All	0.0004
Windows - Tinted AL Code to Class 45	New	Restaurant	All	0.0008
Windows - Tinted AL Code to Class 45	New	Retail	All	0.0005
Windows - Tinted AL Code to Class 45	New	Warehouse	All	0.0003

Industrial Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Combination Boiler and Hot Water Heater	Early Retirement	FoodMfg	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	FoodMfg	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	LumberWood	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	LumberWood	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	MetalsFab	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	MetalsFab	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	Other	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	Other	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	PaperMfg	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	PaperMfg	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	StoneClayGlass	All	0.2068
Combination Boiler and Hot Water Heater	Early Retirement	StoneClayGlass	All	0.2068
Combination Boiler and Hot Water Heater	Turnover	FoodMfg	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	FoodMfg	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	LumberWood	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	LumberWood	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	MetalsFab	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	MetalsFab	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	Other	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	Other	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	PaperMfg	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	PaperMfg	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	StoneClayGlass	All	0.2557
Combination Boiler and Hot Water Heater	Turnover	StoneClayGlass	All	0.2557
Direct Fired Radiant Heater	Early Retirement	FoodMfg	All	3.6702
Direct Fired Radiant Heater	Early Retirement	LumberWood	All	3.6702
Direct Fired Radiant Heater	Early Retirement	MetalsFab	All	3.6702
Direct Fired Radiant Heater	Early Retirement	Other	All	3.6702
Direct Fired Radiant Heater	Early Retirement	PaperMfg	All	3.6702
Direct Fired Radiant Heater	Early Retirement	StoneClayGlass	All	3.6702
Direct Fired Radiant Heater	Turnover	FoodMfg	All	8.5566
Direct Fired Radiant Heater	Turnover	LumberWood	All	8.5566
Direct Fired Radiant Heater	Turnover	MetalsFab	All	8.5566
Direct Fired Radiant Heater	Turnover	Other	All	8.5566
Direct Fired Radiant Heater	Turnover	PaperMfg	All	8.5566
Direct Fired Radiant Heater	Turnover	StoneClayGlass	All	8.5566
High Efficiency Condensing Boiler	Early Retirement	FoodMfg	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	FoodMfg	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	FoodMfg	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	FoodMfg	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	LumberWood	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	LumberWood	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	LumberWood	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	LumberWood	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	MetalsFab	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	MetalsFab	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	MetalsFab	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	MetalsFab	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	Other	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	Other	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	Other	All	0.2080

Industrial Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
High Efficiency Condensing Boiler	Early Retirement	Other	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	PaperMfg	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	PaperMfg	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	PaperMfg	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	PaperMfg	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	StoneClayGlass	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	StoneClayGlass	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	StoneClayGlass	All	0.2080
High Efficiency Condensing Boiler	Early Retirement	StoneClayGlass	All	0.2080
High Efficiency Condensing Boiler	Turnover	FoodMfg	All	0.2602
High Efficiency Condensing Boiler	Turnover	FoodMfg	All	0.2602
High Efficiency Condensing Boiler	Turnover	FoodMfg	All	0.2602
High Efficiency Condensing Boiler	Turnover	FoodMfg	All	0.2602
High Efficiency Condensing Boiler	Turnover	LumberWood	All	0.2602
High Efficiency Condensing Boiler	Turnover	LumberWood	All	0.2602
High Efficiency Condensing Boiler	Turnover	LumberWood	All	0.2602
High Efficiency Condensing Boiler	Turnover	LumberWood	All	0.2602
High Efficiency Condensing Boiler	Turnover	MetalsFab	All	0.2602
High Efficiency Condensing Boiler	Turnover	MetalsFab	All	0.2602
High Efficiency Condensing Boiler	Turnover	MetalsFab	All	0.2602
High Efficiency Condensing Boiler	Turnover	MetalsFab	All	0.2602
High Efficiency Condensing Boiler	Turnover	Other	All	0.2602
High Efficiency Condensing Boiler	Turnover	Other	All	0.2602
High Efficiency Condensing Boiler	Turnover	Other	All	0.2602
High Efficiency Condensing Boiler	Turnover	Other	All	0.2602
High Efficiency Condensing Boiler	Turnover	PaperMfg	All	0.2602
High Efficiency Condensing Boiler	Turnover	PaperMfg	All	0.2602
High Efficiency Condensing Boiler	Turnover	PaperMfg	All	0.2602
High Efficiency Condensing Boiler	Turnover	PaperMfg	All	0.2602
High Efficiency Condensing Boiler	Turnover	StoneClayGlass	All	0.2602
High Efficiency Condensing Boiler	Turnover	StoneClayGlass	All	0.2602
High Efficiency Condensing Boiler	Turnover	StoneClayGlass	All	0.2602
High Efficiency Condensing Boiler	Turnover	StoneClayGlass	All	0.2602
High Efficiency Condensing Furnace	Early Retirement	FoodMfg	All	0.6556
High Efficiency Condensing Furnace	Early Retirement	LumberWood	All	0.6556
High Efficiency Condensing Furnace	Early Retirement	MetalsFab	All	0.6556
High Efficiency Condensing Furnace	Early Retirement	Other	All	0.6556
High Efficiency Condensing Furnace	Early Retirement	PaperMfg	All	0.6556
High Efficiency Condensing Furnace	Early Retirement	StoneClayGlass	All	0.6556
High Efficiency Condensing Furnace	Turnover	FoodMfg	All	1.8014
High Efficiency Condensing Furnace	Turnover	LumberWood	All	1.8014
High Efficiency Condensing Furnace	Turnover	MetalsFab	All	1.8014
High Efficiency Condensing Furnace	Turnover	Other	All	1.8014
High Efficiency Condensing Furnace	Turnover	PaperMfg	All	1.8014
High Efficiency Condensing Furnace	Turnover	StoneClayGlass	All	1.8014
High Efficiency Condensing Unit Heater 92% AFUE	Early Retirement	FoodMfg	All	0.8255
High Efficiency Condensing Unit Heater 92% AFUE	Early Retirement	LumberWood	All	0.8255
High Efficiency Condensing Unit Heater 92% AFUE	Early Retirement	MetalsFab	All	0.8255
High Efficiency Condensing Unit Heater 92% AFUE	Early Retirement	Other	All	0.8255
High Efficiency Condensing Unit Heater 92% AFUE	Early Retirement	PaperMfg	All	0.8255
High Efficiency Condensing Unit Heater 92% AFUE	Early Retirement	StoneClayGlass	All	0.8255

Industrial Equipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
High Efficiency Condensing Unit Heater 92% AFUE	Turnover	FoodMfg	All	0.7701
High Efficiency Condensing Unit Heater 92% AFUE	Turnover	LumberWood	All	0.7701
High Efficiency Condensing Unit Heater 92% AFUE	Turnover	MetalsFab	All	0.7701
High Efficiency Condensing Unit Heater 92% AFUE	Turnover	Other	All	0.7701
High Efficiency Condensing Unit Heater 92% AFUE	Turnover	PaperMfg	All	0.7701
High Efficiency Condensing Unit Heater 92% AFUE	Turnover	StoneClayGlass	All	0.7701
High Efficiency Non-Condensing Unit Heater	Early Retirement	FoodMfg	All	0.6691
High Efficiency Non-Condensing Unit Heater	Early Retirement	LumberWood	All	0.6691
High Efficiency Non-Condensing Unit Heater	Early Retirement	MetalsFab	All	0.6691
High Efficiency Non-Condensing Unit Heater	Early Retirement	Other	All	0.6691
High Efficiency Non-Condensing Unit Heater	Early Retirement	PaperMfg	All	0.6691
High Efficiency Non-Condensing Unit Heater	Early Retirement	StoneClayGlass	All	0.6691
High Efficiency Non-Condensing Unit Heater	Turnover	FoodMfg	All	0.4516
High Efficiency Non-Condensing Unit Heater	Turnover	LumberWood	All	0.4516
High Efficiency Non-Condensing Unit Heater	Turnover	MetalsFab	All	0.4516
High Efficiency Non-Condensing Unit Heater	Turnover	Other	All	0.4516
High Efficiency Non-Condensing Unit Heater	Turnover	PaperMfg	All	0.4516
High Efficiency Non-Condensing Unit Heater	Turnover	StoneClayGlass	All	0.4516
Process Heating: High Efficiency Furance	Early Retirement	FoodMfg	All	0.6556
Process Heating: High Efficiency Furance	Early Retirement	LumberWood	All	0.6556
Process Heating: High Efficiency Furance	Early Retirement	MetalsFab	All	0.6556
Process Heating: High Efficiency Furance	Early Retirement	Other	All	0.6556
Process Heating: High Efficiency Furance	Early Retirement	PaperMfg	All	0.6556
Process Heating: High Efficiency Furance	Early Retirement	StoneClayGlass	All	0.6556
Process Heating: High Efficiency Furance	Turnover	FoodMfg	All	1.8014
Process Heating: High Efficiency Furance	Turnover	LumberWood	All	1.8014
Process Heating: High Efficiency Furance	Turnover	MetalsFab	All	1.8014
Process Heating: High Efficiency Furance	Turnover	Other	All	1.8014
Process Heating: High Efficiency Furance	Turnover	PaperMfg	All	1.8014
Process Heating: High Efficiency Furance	Turnover	StoneClayGlass	All	1.8014

Industrial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Boiler Power Burner	Existing	FoodMfg	All	0.4056
Boiler Power Burner	Existing	LumberWood	All	0.4056
Boiler Power Burner	Existing	MetalsFab	All	0.4056
Boiler Power Burner	Existing	Other	All	0.4056
Boiler Power Burner	Existing	PaperMfg	All	0.4056
Boiler Power Burner	Existing	StoneClayGlass	All	0.4056
Boiler Repair/Maintenance	Existing	FoodMfg	All	0.1038
Boiler Repair/Maintenance	Existing	LumberWood	All	0.1038
Boiler Repair/Maintenance	Existing	MetalsFab	All	0.1038
Boiler Repair/Maintenance	Existing	Other	All	0.1038
Boiler Repair/Maintenance	Existing	PaperMfg	All	0.1038
Boiler Repair/Maintenance	Existing	StoneClayGlass	All	0.1038
Boiler Stack Economizer	Existing	FoodMfg	All	0.4382
Boiler Stack Economizer	Existing	LumberWood	All	0.4382
Boiler Stack Economizer	Existing	MetalsFab	All	0.4382
Boiler Stack Economizer	Existing	Other	All	0.4382
Boiler Stack Economizer	Existing	PaperMfg	All	0.4382
Boiler Stack Economizer	Existing	StoneClayGlass	All	0.4382
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	FoodMfg	All	0.2948
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	LumberWood	All	0.2948
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	MetalsFab	All	0.2948
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	Other	All	0.2948
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	PaperMfg	All	0.2948
Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or >	Existing	StoneClayGlass	All	0.2948
Boiler vent damper - min. 1000 kBtu input	Existing	FoodMfg	All	0.4189
Boiler vent damper - min. 1000 kBtu input	Existing	LumberWood	All	0.4189
Boiler vent damper - min. 1000 kBtu input	Existing	MetalsFab	All	0.4189
Boiler vent damper - min. 1000 kBtu input	Existing	Other	All	0.4189
Boiler vent damper - min. 1000 kBtu input	Existing	PaperMfg	All	0.4189
Boiler vent damper - min. 1000 kBtu input	Existing	StoneClayGlass	All	0.4189
Demand Controlled Ventilation	Existing	FoodMfg	All	2.8553
Demand Controlled Ventilation	Existing	LumberWood	All	2.8553
Demand Controlled Ventilation	Existing	MetalsFab	All	2.8553
Demand Controlled Ventilation	Existing	Other	All	2.8553
Demand Controlled Ventilation	Existing	PaperMfg	All	2.8553
Demand Controlled Ventilation	Existing	StoneClayGlass	All	2.8553
Duct Sealing and Insulation	Existing	FoodMfg	All	0.3753
Duct Sealing and Insulation	Existing	LumberWood	All	0.3753
Duct Sealing and Insulation	Existing	MetalsFab	All	0.3753
Duct Sealing and Insulation	Existing	Other	All	0.3753
Duct Sealing and Insulation	Existing	PaperMfg	All	0.3753
Duct Sealing and Insulation	Existing	StoneClayGlass	All	0.3753
HVAC Controls	Existing	FoodMfg	All	0.2902
HVAC Controls	Existing	LumberWood	All	0.2902
HVAC Controls	Existing	MetalsFab	All	0.2902
HVAC Controls	Existing	Other	All	0.2902
HVAC Controls	Existing	PaperMfg	All	0.2902
HVAC Controls	Existing	StoneClayGlass	All	0.2902
HVAC System Commissioning	Existing	FoodMfg	All	0.8250
HVAC System Commissioning	Existing	LumberWood	All	0.8250
HVAC System Commissioning	Existing	MetalsFab	All	0.8250
HVAC System Commissioning	Existing	Other	All	0.8250
HVAC System Commissioning	Existing	PaperMfg	All	0.8250

Industrial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
HVAC System Commissioning	Existing	StoneClayGlass	All	0.8250
Improved Process Heating Controls	Existing	FoodMfg	All	14.1105
Improved Process Heating Controls	Existing	LumberWood	All	14.1106
Improved Process Heating Controls	Existing	MetalsFab	All	14.1105
Improved Process Heating Controls	Existing	Other	All	14.1109
Improved Process Heating Controls	Existing	PaperMfg	All	14.1104
Improved Process Heating Controls	Existing	StoneClayGlass	All	14.1103
Optimized Furnace Operations/Improved O&M	Existing	FoodMfg	All	16.3786
Optimized Furnace Operations/Improved O&M	Existing	LumberWood	All	16.3789
Optimized Furnace Operations/Improved O&M	Existing	MetalsFab	All	16.3788
Optimized Furnace Operations/Improved O&M	Existing	Other	All	16.3771
Optimized Furnace Operations/Improved O&M	Existing	PaperMfg	All	16.3794
Optimized Furnace Operations/Improved O&M	Existing	StoneClayGlass	All	16.3778
Refrigeration system superheat recovery	Existing	FoodMfg	All	0.0372
Refrigeration system superheat recovery	Existing	LumberWood	All	0.0372
Refrigeration system superheat recovery	Existing	MetalsFab	All	0.0372
Refrigeration system superheat recovery	Existing	Other	All	0.0372
Refrigeration system superheat recovery	Existing	PaperMfg	All	0.0372
Refrigeration system superheat recovery	Existing	StoneClayGlass	All	0.0372
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	FoodMfg	All	1.2384
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	LumberWood	All	1.2384
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	MetalsFab	All	1.2384
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	Other	All	1.2384
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	PaperMfg	All	1.2384
Roof insulation (retrofit only) - Tier 1: Min R-30	Existing	StoneClayGlass	All	1.2384
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	FoodMfg	All	0.8357
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	LumberWood	All	0.8357
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	MetalsFab	All	0.8357
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	Other	All	0.8357
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	PaperMfg	All	0.8357
Roof insulation (retrofit only) - Tier 2: Min R-45	Existing	StoneClayGlass	All	0.8357
Space Heating O&M	Existing	FoodMfg	All	0.8088
Space Heating O&M	Existing	LumberWood	All	0.8088
Space Heating O&M	Existing	MetalsFab	All	0.8088
Space Heating O&M	Existing	Other	All	0.8088
Space Heating O&M	Existing	PaperMfg	All	0.8088
Space Heating O&M	Existing	StoneClayGlass	All	0.8088
Steam System Efficiency Improvements	Existing	FoodMfg	All	0.4009
Steam System Efficiency Improvements	Existing	LumberWood	All	0.4009
Steam System Efficiency Improvements	Existing	MetalsFab	All	0.4009
Steam System Efficiency Improvements	Existing	Other	All	0.4009
Steam System Efficiency Improvements	Existing	PaperMfg	All	0.4009
Steam System Efficiency Improvements	Existing	StoneClayGlass	All	0.4009
Wall insulation (retrofit only) - Tier 1: Min R-11	Existing	FoodMfg	All	1.8303
Wall insulation (retrofit only) - Tier 1: Min R-11	Existing	LumberWood	All	1.8303
Wall insulation (retrofit only) - Tier 1: Min R-11	Existing	MetalsFab	All	1.8303
Wall insulation (retrofit only) - Tier 1: Min R-11	Existing	Other	All	1.8303
Wall insulation (retrofit only) - Tier 1: Min R-11	Existing	PaperMfg	All	1.8303
Wall insulation (retrofit only) - Tier 1: Min R-11	Existing	StoneClayGlass	All	1.8303
Wall insulation (retrofit only) - Tier 2: Min R-19	Existing	FoodMfg	All	1.9683
Wall insulation (retrofit only) - Tier 2: Min R-19	Existing	LumberWood	All	1.9683
Wall insulation (retrofit only) - Tier 2: Min R-19	Existing	MetalsFab	All	1.9683
Wall insulation (retrofit only) - Tier 2: Min R-19	Existing	Other	All	1.9683

Industrial NonEquipment Library

Description	Vintage	Segment	Climate Zone	B/c Ratio
Wall insulation (retrofit only) - Tier 2: Min R-19	Existing	PaperMfg	All	1.9683
Wall insulation (retrofit only) - Tier 2: Min R-19	Existing	StoneClayGlass	All	1.9683
Waste Water Heat Exchanger	Existing	FoodMfg	All	0.0299
Waste Water Heat Exchanger	Existing	LumberWood	All	0.0299
Waste Water Heat Exchanger	Existing	MetalsFab	All	0.0299
Waste Water Heat Exchanger	Existing	Other	All	0.0299
Waste Water Heat Exchanger	Existing	PaperMfg	All	0.0299
Waste Water Heat Exchanger	Existing	StoneClayGlass	All	0.0299
Windows - Add Argon to Vinyl Lowe	Existing	FoodMfg	All	2.1575
Windows - Add Argon to Vinyl Lowe	Existing	LumberWood	All	2.1575
Windows - Add Argon to Vinyl Lowe	Existing	MetalsFab	All	2.1575
Windows - Add Argon to Vinyl Lowe	Existing	Other	All	2.1575
Windows - Add Argon to Vinyl Lowe	Existing	PaperMfg	All	2.1575
Windows - Add Argon to Vinyl Lowe	Existing	StoneClayGlass	All	2.1575
Windows - Add Low E and Argon to Vinyl Tint	Existing	FoodMfg	All	14.3420
Windows - Add Low E and Argon to Vinyl Tint	Existing	LumberWood	All	14.3420
Windows - Add Low E and Argon to Vinyl Tint	Existing	MetalsFab	All	14.3420
Windows - Add Low E and Argon to Vinyl Tint	Existing	Other	All	14.3420
Windows - Add Low E and Argon to Vinyl Tint	Existing	PaperMfg	All	14.3420
Windows - Add Low E and Argon to Vinyl Tint	Existing	StoneClayGlass	All	14.3420
Windows - Add Low E to Vinyl Tint	Existing	FoodMfg	All	2.8975
Windows - Add Low E to Vinyl Tint	Existing	LumberWood	All	2.8975
Windows - Add Low E to Vinyl Tint	Existing	MetalsFab	All	2.8975
Windows - Add Low E to Vinyl Tint	Existing	Other	All	2.8975
Windows - Add Low E to Vinyl Tint	Existing	PaperMfg	All	2.8975
Windows - Add Low E to Vinyl Tint	Existing	StoneClayGlass	All	2.8975
Windows - Non-Tinted AL Code to Class 36	Existing	FoodMfg	All	0.8804
Windows - Non-Tinted AL Code to Class 36	Existing	LumberWood	All	0.8804
Windows - Non-Tinted AL Code to Class 36	Existing	MetalsFab	All	0.8804
Windows - Non-Tinted AL Code to Class 36	Existing	Other	All	0.8804
Windows - Non-Tinted AL Code to Class 36	Existing	PaperMfg	All	0.8804
Windows - Non-Tinted AL Code to Class 36	Existing	StoneClayGlass	All	0.8804
Windows - Non-Tinted AL Code to Class 40	Existing	FoodMfg	All	1.3997
Windows - Non-Tinted AL Code to Class 40	Existing	LumberWood	All	1.3997
Windows - Non-Tinted AL Code to Class 40	Existing	MetalsFab	All	1.3997
Windows - Non-Tinted AL Code to Class 40	Existing	Other	All	1.3997
Windows - Non-Tinted AL Code to Class 40	Existing	PaperMfg	All	1.3997
Windows - Non-Tinted AL Code to Class 40	Existing	StoneClayGlass	All	1.3997
Windows - Non-Tinted AL Code to Class 45	Existing	FoodMfg	All	0.7933
Windows - Non-Tinted AL Code to Class 45	Existing	LumberWood	All	0.7933
Windows - Non-Tinted AL Code to Class 45	Existing	MetalsFab	All	0.7933
Windows - Non-Tinted AL Code to Class 45	Existing	Other	All	0.7933
Windows - Non-Tinted AL Code to Class 45	Existing	PaperMfg	All	0.7933
Windows - Non-Tinted AL Code to Class 45	Existing	StoneClayGlass	All	0.7933
Windows - Tinted AL Code to Class 36	Existing	FoodMfg	All	0.7602
Windows - Tinted AL Code to Class 36	Existing	LumberWood	All	0.7602
Windows - Tinted AL Code to Class 36	Existing	MetalsFab	All	0.7602
Windows - Tinted AL Code to Class 36	Existing	Other	All	0.7602
Windows - Tinted AL Code to Class 36	Existing	PaperMfg	All	0.7602
Windows - Tinted AL Code to Class 36	Existing	StoneClayGlass	All	0.7602
Windows - Tinted AL Code to Class 45	Existing	FoodMfg	All	0.1684
Windows - Tinted AL Code to Class 45	Existing	LumberWood	All	0.1684
Windows - Tinted AL Code to Class 45	Existing	MetalsFab	All	0.1684

Description	Vintage	Segment	Climate Zone	B/c Ratio
Windows - Tinted AL Code to Class 45	Existing	Other	All	0.1684
Windows - Tinted AL Code to Class 45	Existing	PaperMfg	All	0.1684
Windows - Tinted AL Code to Class 45	Existing	StoneClayGlass	All	0.1684

Appendix E

Current and Alternative Supply Resources

UG-160453

Types of Supply - Summary

- Base – Can be listed as “Base” or “Fixed”, this is an annual supply that Cascade must take if the Company contracts it.
- Winter – This is another supply that the Company must take, but is only available during the winter season (November-March).
- Day Gas – Can be broken down by winter and summer day gas. Cascade only has to take what is needed of this type of gas, and because it is more flexible, it is more expensive than “Base” or “Winter” gas.
- Peak – Used to serve demand when all other options are exhausted. It is also the most expensive type of gas.

Supply Group	Supply	Data Item	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
AECO-KING	AECO BASE	Commodity Cost ($000)	70.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	AECO BASE	Take: Monthly by Supply (MDTs)	30.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	AECO BASE	Unit Commodity Cost ($000/MDT)	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	AECO DAY S	Commodity Cost ($000)	4620.91	2721.03	2020.11	2163.15	1664.19	1158.28	821.81	910.00	950.81	1022.71
AECO-KING	AECO DAY S	Take: Monthly by Supply (MDTs)	2052.91	1181.60	853.50	865.79	622.76	409.03	264.66	275.63	288.76	304.16
AECO-KING	AECO DAY S	Unit Commodity Cost ($000/MDT)	2.25	2.30	2.37	2.50	2.67	2.83	3.11	3.30	3.29	3.36
AECO-KING	AECO DAY W	Commodity Cost ($000)	2559.44	2549.49	2746.29	3041.24	2961.55	3178.19	3529.75	3773.67	3908.00	3971.59
AECO-KING	AECO DAY W	Take: Monthly by Supply (MDTs)	993.54	947.75	992.28	1044.80	975.62	995.10	1014.69	1040.09	1054.69	1075.03
AECO-KING	AECO DAY W	Unit Commodity Cost ($000/MDT)	2.58	2.69	2.77	2.91	3.04	3.19	3.48	3.63	3.71	3.69
AECO-KING	AECO FIXED	Commodity Cost ($000)	1488.35	10210.50	15047.87	15750.69	17863.81	20565.19	22695.36	23466.78	24175.03	25608.34
AECO-KING	AECO FIXED	Take: Monthly by Supply (MDTs)	636.17	4179.60	6050.78	6223.38	6917.50	7787.71	8392.16	8465.19	8481.21	8719.60
AECO-KING	AECO FIXED	Unit Commodity Cost ($000/MDT)	2.34	2.44	2.49	2.53	2.58	2.64	2.70	2.77	2.85	2.94
AECO-KING	AECO PEAK	Commodity Cost ($000)	37.87	18.55	24.99	26.57	31.72	37.06	44.46	50.35	51.00	60.59
AECO-KING	AECO PEAK	Take: Monthly by Supply (MDTs)	15.11	6.75	8.74	8.89	9.97	11.07	12.18	13.31	13.43	15.60
AECO-KING	AECO PEAK	Unit Commodity Cost ($000/MDT)	2.51	2.75	2.86	2.99	3.18	3.35	3.65	3.78	3.80	3.88
AECO-KING	AECO WINTER	Commodity Cost ($000)	4495.33	6746.36	5473.88	5527.60	5187.37	4580.47	4577.64	4968.85	5198.89	4604.00
AECO-KING	AECO WINTER	Take: Monthly by Supply (MDTs)	1754.76	2532.10	2004.01	1924.26	1738.76	1458.23	1334.81	1385.83	1424.21	1267.74
AECO-KING	AECO WINTER	Unit Commodity Cost ($000/MDT)	2.56	2.66	2.73	2.87	2.98	3.14	3.43	3.59	3.65	3.63
AECO-KING	[redacted]	Commodity Cost ($000)	2827.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Take: Monthly by Supply (MDTs)	1230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Unit Commodity Cost ($000/MDT)	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Commodity Cost ($000)	1807.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Take: Monthly by Supply (MDTs)	742.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Unit Commodity Cost ($000/MDT)	2.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	KNGATE BASE	Commodity Cost ($000)	3093.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	KNGATE BASE	Take: Monthly by Supply (MDTs)	1315.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	KNGATE BASE	Unit Commodity Cost ($000/MDT)	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Commodity Cost ($000)	2218.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Take: Monthly by Supply (MDTs)	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Unit Commodity Cost ($000/MDT)	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	HUNT BASE	Commodity Cost ($000)	5270.69	0.00	0.00	0.00	1105.51	4710.28	0.00	0.00	0.00	0.00
BC	HUNT BASE	Take: Monthly by Supply (MDTs)	1923.37	0.00	0.00	0.00	288.61	1438.30	0.00	0.00	0.00	0.00
BC	HUNT BASE	Unit Commodity Cost ($000/MDT)	2.74	0.00	0.00	0.00	3.83	3.27	0.00	0.00	0.00	0.00
BC	HUNT DAY S	Commodity Cost ($000)	2705.28	1432.17	1256.64	1566.24	1195.91	1821.37	1904.36	2220.02	2025.87	2064.01
BC	HUNT DAY S	Take: Monthly by Supply (MDTs)	1103.47	594.87	480.05	572.46	409.84	597.26	568.48	629.10	572.71	573.13
BC	HUNT DAY S	Unit Commodity Cost ($000/MDT)	2.45	2.41	2.62	2.74	2.92	3.05	3.35	3.53	3.54	3.60
BC	HUNT DAY W	Commodity Cost ($000)	262.70	205.07	468.60	118.57	635.37	1217.09	1055.91	1118.87	1001.13	1681.74
BC	HUNT DAY W	Take: Monthly by Supply (MDTs)	80.00	60.71	138.11	32.17	166.90	311.06	249.58	256.86	225.94	388.42
BC	HUNT DAY W	Unit Commodity Cost ($000/MDT)	3.28	3.38	3.39	3.69	3.81	3.91	4.23	4.36	4.43	4.33
BC	HUNT WINTER	Commodity Cost ($000)	7749.15	10076.55	10090.98	10804.29	11162.29	11503.61	12343.93	12803.39	12852.75	12698.08
BC	HUNT WINTER	Take: Monthly by Supply (MDTs)	2356.88	3020.00	3020.00	3040.00	3020.00	3020.00	3020.00	3040.00	3020.00	3020.00
BC	HUNT WINTER	Unit Commodity Cost ($000/MDT)	3.29	3.34	3.34	3.55	3.70	3.81	4.09	4.21	4.26	4.20
BC	[redacted]	Commodity Cost ($000)	1411.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Supply Group	Supply	Data Item	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
BC	[redacted]	Commodity Cost ($000)	2164.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	4.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	598.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	3.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	4130.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	1070.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	833.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	304.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	2160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	2166.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	2178.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	4.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	758.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	155.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	STA2 BASE	Commodity Cost ($000)	1483.43	7273.49	6503.16	6949.08	5470.10	726.21	4045.93	4236.30	4375.40	3717.13
BC	STA2 BASE	Take: Monthly by Supply (MDTs)	445.22	2589.46	2227.72	2254.23	1752.32	184.00	1100.41	1105.61	1137.01	987.87
BC	STA2 BASE	Unit Commodity Cost ($000/MDT)	3.33	2.81	2.92	3.08	3.12	3.95	3.68	3.83	3.85	3.76
BC	SUMAS DAY S	Commodity Cost ($000)	6098.72	5368.38	4314.07	4326.05	3906.26	3441.96	3784.30	4344.83	4607.00	4806.40
BC	SUMAS DAY S	Take: Monthly by Supply (MDTs)	2442.61	2240.53	1669.20	1580.84	1359.69	1118.49	1116.88	1211.48	1290.08	1322.73
BC	SUMAS DAY S	Unit Commodity Cost ($000/MDT)	2.50	2.40	2.58	2.74	2.87	3.08	3.39	3.59	3.57	3.63
BC	SUMAS DAY W	Commodity Cost ($000)	4148.38	5831.08	13018.68	8222.66	14052.11	16697.70	13211.88	17782.91	16287.77	16123.42
BC	SUMAS DAY W	Take: Monthly by Supply (MDTs)	1304.50	1761.47	3865.36	2351.87	3841.52	4438.90	3277.71	4259.26	3808.27	3880.60
BC	SUMAS DAY W	Unit Commodity Cost ($000/MDT)	3.18	3.31	3.37	3.50	3.66	3.76	4.03	4.18	4.28	4.15
BC	SUMAS PEAK	Commodity Cost ($000)	134.48	295.37	480.68	549.26	395.54	547.45	916.80	995.59	1137.54	960.45
BC	SUMAS PEAK	Take: Monthly by Supply (MDTs)	47.72	108.11	170.12	185.09	122.71	167.39	256.54	263.73	298.82	254.49
BC	SUMAS PEAK	Unit Commodity Cost ($000/MDT)	2.82	2.73	2.83	2.97	3.22	3.27	3.57	3.78	3.81	3.77
BC	SUMAS WINTER	Commodity Cost ($000)	0.00	2637.38	7935.50	8641.59	4808.47	6724.31	10638.94	10383.43	12852.75	12698.08
BC	SUMAS WINTER	Take: Monthly by Supply (MDTs)	0.00	785.15	2360.68	2455.60	1317.01	1721.95	2624.01	2449.26	3020.00	3020.00
BC	SUMAS WINTER	Unit Commodity Cost ($000/MDT)	0.00	3.36	3.36	3.52	3.65	3.91	4.05	4.24	4.26	4.20
BC	[redacted]	Commodity Cost ($000)	360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Supply Group	Supply	Data Item	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
BC	[redacted]	Take: Monthly by Supply (MDTs)	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	543.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	112.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	4.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	371.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	93.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	652.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	155.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	471.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	93.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	5.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	1482.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	605.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LNG	YAK LNG	Commodity Cost ($000)	0.00	7.20	23.48	19.66	0.00	0.96	3.48	6.13	26.91	37.04
LNG	YAK LNG	Take: Monthly by Supply (MDTs)	0.00	1.18	3.79	3.11	0.00	0.15	0.51	0.88	3.75	5.00
LNG	YAK LNG	Unit Commodity Cost ($000/MDT)	0.00	6.09	6.20	6.32	0.00	6.61	6.78	6.96	7.18	7.41
ROCKIES	[redacted]	Commodity Cost ($000)	393.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES	[redacted]	Take: Monthly by Supply (MDTs)	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES	[redacted]	Unit Commodity Cost ($000/MDT)	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES	[redacted]	Commodity Cost ($000)	614.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES	[redacted]	Take: Monthly by Supply (MDTs)	183.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES	[redacted]	Unit Commodity Cost ($000/MDT)	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES	KERN WINTER	Commodity Cost ($000)	171.79	204.43	200.33	113.10	122.57	184.72	65.85	66.94	67.13	67.47
ROCKIES	KERN WINTER	Take: Monthly by Supply (MDTs)	50.50	60.64	57.60	30.72	31.95	45.43	15.00	15.00	15.00	15.00
ROCKIES	KERN WINTER	Unit Commodity Cost ($000/MDT)	3.40	3.37	3.48	3.68	3.84	4.07	4.39	4.46	4.48	4.50
ROCKIES	ROCK DAY S	Commodity Cost ($000)	87.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	218.61
ROCKIES	ROCK DAY S	Take: Monthly by Supply (MDTs)	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.40
ROCKIES	ROCK DAY S	Unit Commodity Cost ($000/MDT)	2.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.02
ROCKIES	ROCK DAY W	Commodity Cost ($000)	5369.84	8924.23	5531.31	6359.47	6611.85	6581.58	6312.57	5425.62	5478.98	7158.20
ROCKIES	ROCK DAY W	Take: Monthly by Supply (MDTs)	1618.75	2653.93	1625.89	1736.29	1732.54	1665.77	1488.67	1251.50	1264.57	1632.23
ROCKIES	ROCK DAY W	Unit Commodity Cost ($000/MDT)	3.32	3.36	3.40	3.66	3.82	3.95	4.24	4.34	4.33	4.39
ROCKIES	ROCK FIXED	Commodity Cost ($000)	3306.45	18693.55	19213.59	20432.40	23186.24	23975.95	24869.11	26002.86	26885.57	27884.54
ROCKIES	ROCK FIXED	Take: Monthly by Supply (MDTs)	1207.77	7240.70	7330.02	7640.06	8510.17	8606.97	8718.98	8894.55	8944.24	8997.24
ROCKIES	ROCK FIXED	Unit Commodity Cost ($000/MDT)	2.74	2.58	2.62	2.67	2.72	2.79	2.85	2.92	3.01	3.10
ROCKIES	ROCK WINTER	Commodity Cost ($000)	8247.93	5160.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	318.94
ROCKIES	ROCK WINTER	Take: Monthly by Supply (MDTs)	2508.64	1536.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.04
ROCKIES	ROCK WINTER	Unit Commodity Cost ($000/MDT)	3.29	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.37
ROCKIES	[redacted]	Commodity Cost ($000)	307.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES	[redacted]	Take: Monthly by Supply (MDTs)	95.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES	[redacted]	Unit Commodity Cost ($000/MDT)	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Supply Group	Supply	Data Item	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
AECO-KING	AECO BASE	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	AECO BASE	Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	AECO BASE	Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	AECO DAY S	Commodity Cost ($000)	410.59	470.47	572.82	300.64	335.87	382.83	837.20	902.52	524.68	566.01
AECO-KING	AECO DAY S	Take: Monthly by Supply (MDTs)	115.96	123.38	138.51	70.10	77.24	84.44	188.68	197.91	106.57	114.17
AECO-KING	AECO DAY S	Unit Commodity Cost ($000/MDT)	3.54	3.81	4.14	4.29	4.35	4.53	4.44	4.56	4.92	4.96
AECO-KING	AECO DAY W	Commodity Cost ($000)	4291.95	4961.44	5659.32	5577.79	5565.85	5620.40	7508.58	7880.20	6694.32	4269.27
AECO-KING	AECO DAY W	Take: Monthly by Supply (MDTs)	1095.55	1187.12	1259.36	1202.82	1172.32	1146.06	1532.85	1586.73	1244.57	791.52
AECO-KING	AECO DAY W	Unit Commodity Cost ($000/MDT)	3.92	4.18	4.49	4.64	4.75	4.90	4.90	4.97	5.38	5.39
AECO-KING	AECO FIXED	Commodity Cost ($000)	29688.64	30911.94	32226.83	35167.54	36676.93	37884.45	37631.46	39872.22	43582.16	50405.84
AECO-KING	AECO FIXED	Take: Monthly by Supply (MDTs)	9786.80	9854.54	9928.77	10461.33	10525.03	10479.82	10033.35	10244.11	10785.53	12028.46
AECO-KING	AECO FIXED	Unit Commodity Cost ($000/MDT)	3.03	3.14	3.25	3.36	3.48	3.61	3.75	3.89	4.04	4.19
AECO-KING	AECO PEAK	Commodity Cost ($000)	69.16	83.86	91.53	180.74	150.35	187.09	163.05	179.15	201.49	91.14
AECO-KING	AECO PEAK	Take: Monthly by Supply (MDTs)	16.76	19.05	19.55	37.75	30.55	36.88	32.86	34.32	35.86	16.04
AECO-KING	AECO PEAK	Unit Commodity Cost ($000/MDT)	4.13	4.40	4.68	4.79	4.92	5.07	4.96	5.22	5.62	5.68
AECO-KING	AECO WINTER	Commodity Cost ($000)	3907.90	4127.99	3848.37	3624.60	4158.51	5504.93	6719.60	6213.56	5706.95	3446.05
AECO-KING	AECO WINTER	Take: Monthly by Supply (MDTs)	1009.15	1003.24	864.75	786.72	883.01	1128.14	1384.18	1265.61	1071.64	646.66
AECO-KING	AECO WINTER	Unit Commodity Cost ($000/MDT)	3.87	4.11	4.45	4.61	4.71	4.88	4.85	4.91	5.33	5.33
AECO-KING	[redacted]	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	KNGATE BASE	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	KNGATE BASE	Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	KNGATE BASE	Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AECO-KING	[redacted]	Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	HUNT BASE	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4242.25
BC	HUNT BASE	Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	658.35
BC	HUNT BASE	Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44
BC	HUNT DAY S	Commodity Cost ($000)	1994.33	2180.25	2192.46	1762.18	1836.43	1948.22	2540.73	2704.16	2311.36	2300.76
BC	HUNT DAY S	Take: Monthly by Supply (MDTs)	519.93	529.76	493.07	376.87	385.41	393.96	531.76	538.31	419.73	428.37
BC	HUNT DAY S	Unit Commodity Cost ($000/MDT)	3.84	4.12	4.45	4.68	4.76	4.95	4.78	5.02	5.51	5.37
BC	HUNT DAY W	Commodity Cost ($000)	2213.47	2436.61	2735.51	2934.06	3081.83	2638.73	2738.21	2920.05	2705.74	3058.94
BC	HUNT DAY W	Take: Monthly by Supply (MDTs)	492.88	507.66	523.56	535.97	548.19	454.97	465.36	486.15	436.79	496.17
BC	HUNT DAY W	Unit Commodity Cost ($000/MDT)	4.49	4.80	5.22	5.47	5.62	5.80	5.88	6.01	6.19	6.17
BC	HUNT WINTER	Commodity Cost ($000)	13335.14	14359.29	15558.37	16278.79	16745.72	17700.92	17760.54	18160.52	18927.99	10892.36
BC	HUNT WINTER	Take: Monthly by Supply (MDTs)	3020.00	3040.00	3020.00	3020.00	3020.00	3040.00	3020.00	3020.00	3020.00	1820.00
BC	HUNT WINTER	Unit Commodity Cost ($000/MDT)	4.42	4.72	5.15	5.39	5.54	5.82	5.88	6.01	6.27	5.98
BC	[redacted]	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Supply Group	Supply	Data Item	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
BC	[redacted]	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC	STA2 BASE	Commodity Cost ($000)	17.38	80.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3930.71
BC	STA2 BASE	Take: Monthly by Supply (MDTs)	3.79	18.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	610.00
BC	STA2 BASE	Unit Commodity Cost ($000/MDT)	4.59	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44
BC	SUMAS DAY S	Commodity Cost ($000)	4841.68	5272.52	4380.12	4313.31	4455.73	4709.80	4934.08	5263.90	3736.70	5219.29
BC	SUMAS DAY S	Take: Monthly by Supply (MDTs)	1246.59	1262.89	979.95	928.01	942.18	956.31	1019.25	1028.93	693.54	976.99
BC	SUMAS DAY S	Unit Commodity Cost ($000/MDT)	3.88	4.17	4.47	4.65	4.73	4.92	4.84	5.12	5.39	5.34
BC	SUMAS DAY W	Commodity Cost ($000)	17276.02	17237.38	15359.41	19659.56	13891.41	14532.08	22012.03	6188.29	8263.96	22596.48
BC	SUMAS DAY W	Take: Monthly by Supply (MDTs)	3986.73	3725.92	3042.65	3698.47	2567.64	2570.32	3805.10	1066.08	1340.61	3720.51
BC	SUMAS DAY W	Unit Commodity Cost ($000/MDT)	4.33	4.63	5.05	5.32	5.41	5.65	5.78	5.80	6.16	6.07
BC	SUMAS PEAK	Commodity Cost ($000)	1480.89	1643.27	671.30	732.51	755.91	1095.53	1109.78	925.25	290.41	1202.91
BC	SUMAS PEAK	Take: Monthly by Supply (MDTs)	372.20	386.46	137.44	146.07	150.94	207.15	215.81	174.64	43.95	211.48
BC	SUMAS PEAK	Unit Commodity Cost ($000/MDT)	3.98	4.25	4.88	5.01	5.01	5.29	5.14	5.30	6.61	5.69
BC	SUMAS WINTER	Commodity Cost ($000)	13335.14	13981.69	14042.64	12870.45	6766.68	0.00	0.00	0.00	0.00	0.00
BC	SUMAS WINTER	Take: Monthly by Supply (MDTs)	3020.00	2964.41	2731.42	2397.48	1266.94	0.00	0.00	0.00	0.00	0.00
BC	SUMAS WINTER	Unit Commodity Cost ($000/MDT)	4.42	4.72	5.14	5.37	5.34	0.00	0.00	0.00	0.00	0.00
BC	[redacted]	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Supply Group	Supply	Data Item	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
BC	[redacted]	Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BC		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LNG	YAK LNG	Commodity Cost ($000)	38.29	25.89	41.03	42.53	29.71	33.93	38.37	43.05	51.19	53.15
LNG	YAK LNG	Take: Monthly by Supply (MDTs)	5.00	3.27	5.00	5.00	3.37	3.71	4.04	4.37	5.00	5.00
LNG	YAK LNG	Unit Commodity Cost ($000/MDT)	7.66	7.93	8.21	8.51	8.82	9.15	9.50	9.86	10.24	10.63
ROCKIES	[redacted]	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES		Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES	KERN WINTER	Commodity Cost ($000)	70.85	76.43	83.07	40.71	95.01	64.04	353.25	573.57	435.41	97.46
ROCKIES	KERN WINTER	Take: Monthly by Supply (MDTs)	15.00	15.00	15.00	7.05	16.48	10.66	60.47	96.45	72.01	15.00
ROCKIES	KERN WINTER	Unit Commodity Cost ($000/MDT)	4.72	5.10	5.54	5.78	5.76	6.01	5.84	5.95	6.05	6.50
ROCKIES	ROCK DAY S	Commodity Cost ($000)	231.33	269.80	137.24	150.58	158.55	0.00	0.00	331.54	2861.93	187.71
ROCKIES	ROCK DAY S	Take: Monthly by Supply (MDTs)	55.05	60.00	28.43	29.42	30.42	0.00	0.00	60.00	520.09	31.85
ROCKIES	ROCK DAY S	Unit Commodity Cost ($000/MDT)	4.20	4.50	4.83	5.12	5.21	0.00	0.00	5.53	5.50	5.89
ROCKIES	ROCK DAY W	Commodity Cost ($000)	7247.95	8288.71	6403.28	6619.01	14770.33	15569.47	10408.45	20774.60	23687.40	594.04
ROCKIES	ROCK DAY W	Take: Monthly by Supply (MDTs)	1570.41	1658.08	1183.59	1171.18	2631.83	2656.31	1796.87	3543.13	3960.33	96.77
ROCKIES	ROCK DAY W	Unit Commodity Cost ($000/MDT)	4.62	5.00	5.41	5.65	5.61	5.86	5.79	5.86	5.98	6.14
ROCKIES	ROCK FIXED	Commodity Cost ($000)	29241.79	32781.29	40465.51	42347.93	44359.55	46626.29	48732.68	51093.50	53890.63	70837.88
ROCKIES	ROCK FIXED	Take: Monthly by Supply (MDTs)	9138.81	9852.68	11796.72	11921.18	12046.23	12208.30	12295.83	12420.55	12613.72	15736.45
ROCKIES	ROCK FIXED	Unit Commodity Cost ($000/MDT)	3.20	3.33	3.43	3.55	3.68	3.82	3.96	4.11	4.27	4.50
ROCKIES	ROCK WINTER	Commodity Cost ($000)	1744.92	1909.20	510.77	2405.69	8683.94	15586.04	15855.83	17482.15	17921.92	11051.68
ROCKIES	ROCK WINTER	Take: Monthly by Supply (MDTs)	385.53	414.39	94.43	435.39	1555.72	2711.76	2758.23	3020.00	3020.00	1820.00
ROCKIES	ROCK WINTER	Unit Commodity Cost ($000/MDT)	4.53	4.61	5.41	5.53	5.58	5.75	5.75	5.79	5.93	6.07
ROCKIES	[redacted]	Commodity Cost ($000)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES		Take: Monthly by Supply (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROCKIES		Unit Commodity Cost ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Transport	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	7.60	7.60	7.60	7.60	0.00	0.00	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.83	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	4.14	4.14	4.14	4.14	0.00	0.00	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	1.24	1.24	1.24	1.24	0.00	0.00	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	0.00	0.00	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I-5 EXP 30S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I-5 EXP SMS	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	13.06	13.06	13.06	13.06	8.93	8.93	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.56	0.56	0.56	0.56	0.31	0.31	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.41	2.41	2.41	2.41	2.08	2.08	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	3.81	3.81	3.81	3.81	2.98	2.98	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	3.40	3.40	3.40	3.40	2.73	2.73	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	3.43	3.43	3.43	3.43	2.19	2.19	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPOK EXT	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPOK EXT	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEN EXP Z10	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEN EXP Z11	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Transport	Data Item	09/2017	10/2017	11/2017	12/2017	01/2018	02/2018	03/2018	04/2018	05/2018	06/2018
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	7.60	7.60	7.60	7.60	7.60	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	09/2017	10/2017	11/2017	12/2017	01/2018	02/2018	03/2018	04/2018	05/2018	06/2018
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	4.14	4.14	4.14	4.14	4.14	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	1.24	1.24	1.24	1.24	1.24	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	09/2017	10/2017	11/2017	12/2017	01/2018	02/2018	03/2018	04/2018	05/2018	06/2018
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	23.98	23.98	23.98	23.98	23.98	23.98	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	0.00	0.00	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	0.00	0.00	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	0.00	0.00	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	13.06	13.06	13.06	13.06	13.06	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.56	0.56	0.56	0.56	0.56	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.41	2.41	2.41	2.41	2.41	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	3.81	3.81	3.81	3.81	3.81	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	3.40	3.40	3.40	3.40	3.40	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	3.43	3.43	3.43	3.43	3.43	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	100.00	100.00	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	09/2017	10/2017	11/2017	12/2017	01/2018	02/2018	03/2018	04/2018	05/2018	06/2018
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	09/2017	10/2017	11/2017	12/2017	01/2018	02/2018	03/2018	04/2018	05/2018	06/2018
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

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NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

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RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	0.00	0.00	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	0.00	0.00	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	0.00	0.00	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	0.00	0.00	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	0.00	0.00	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	07/2018	08/2018	09/2018	10/2018	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	7.60	7.60	7.60	7.60	7.60	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	07/2018	08/2018	09/2018	10/2018	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	4.14	4.14	4.14	4.14	4.14	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	1.24	1.24	1.24	1.24	1.24	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	07/2018	08/2018	09/2018	10/2018	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	23.98	23.98	23.98	23.98	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	13.06	13.06	13.06	13.06	13.06	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.56	0.56	0.56	0.56	0.56	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.41	2.41	2.41	2.41	2.41	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	3.81	3.81	3.81	3.81	3.81	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	3.40	3.40	3.40	3.40	3.40	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	3.43	3.43	3.43	3.43	3.43	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	07/2018	08/2018	09/2018	10/2018	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	07/2018	08/2018	09/2018	10/2018	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

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NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	07/2018	08/2018	09/2018	10/2018	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	01/2020	02/2020
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.60	7.60	7.60
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	01/2020	02/2020
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.33
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.66
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	4.14	4.14	4.14	4.14
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24	1.24	1.24
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	01/2020	02/2020
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	23.98	23.98	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	13.06	13.06	13.06	13.06
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.56	0.56	0.56	0.56
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.41	2.41	2.41	2.41
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	3.81	3.81	3.81	3.81
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	3.40	3.40	3.40	3.40
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	3.43	3.43	3.43	3.43
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	01/2020	02/2020
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40

Transport	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	01/2020	02/2020
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	01/2020	02/2020
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	01/2020	02/2020
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	01/2020	02/2020
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.72
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.15
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.15
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	03/2020	04/2020	05/2020	06/2020	07/2020	08/2020	09/2020	10/2020	11/2020	12/2020
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.60
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	03/2020	04/2020	05/2020	06/2020	07/2020	08/2020	09/2020	10/2020	11/2020	12/2020
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.14	4.14
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

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GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	0.00	0.00	0.00	0.00	0.00	0.00	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	8.93	8.93	8.93	8.93	8.93	8.93	8.93	13.06	13.06
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.56	0.56
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.41	2.41
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	2.98	2.98	2.98	2.98	2.98	2.98	2.98	3.81	3.81
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	2.73	2.73	2.73	2.73	2.73	2.73	2.73	3.40	3.40
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	2.19	2.19	2.19	2.19	2.19	2.19	2.19	3.43	3.43
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

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MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

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NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

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NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	03/2020	04/2020	05/2020	06/2020	07/2020	08/2020	09/2020	10/2020	11/2020	12/2020
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	01/2021	02/2021	03/2021	04/2021	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	7.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	01/2021	02/2021	03/2021	04/2021	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	4.14	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	1.24	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	01/2021	02/2021	03/2021	04/2021	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	0.00	0.00	0.00	0.00	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	13.06	13.06	8.93	8.93	8.93	8.93	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.56	0.56	0.31	0.31	0.31	0.31	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.41	2.41	2.08	2.08	2.08	2.08	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	3.81	3.81	2.98	2.98	2.98	2.98	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	3.40	3.40	2.73	2.73	2.73	2.73	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	3.43	3.43	2.19	2.19	2.19	2.19	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	01/2021	02/2021	03/2021	04/2021	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	01/2021	02/2021	03/2021	04/2021	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	01/2021	02/2021	03/2021	04/2021	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	01/2021	02/2021	03/2021	04/2021	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	01/2021	02/2021	03/2021	04/2021	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP 24	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	7.60	7.60	7.60	7.60	0.00	0.00	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.83	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	4.14	4.14	4.14	4.14	0.00	0.00	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	1.24	1.24	1.24	1.24	0.00	0.00	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	0.00	0.00	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	13.06	13.06	13.06	13.06	8.93	8.93	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.56	0.56	0.56	0.56	0.31	0.31	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.41	2.41	2.41	2.41	2.08	2.08	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	3.81	3.81	3.81	3.81	2.98	2.98	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	3.40	3.40	3.40	3.40	2.73	2.73	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	3.43	3.43	3.43	3.43	2.19	2.19	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	09/2022	10/2022	11/2022	12/2022	01/2023	02/2023	03/2023	04/2023	05/2023	06/2023
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	7.60	7.60	7.60	7.60	7.60	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	09/2022	10/2022	11/2022	12/2022	01/2023	02/2023	03/2023	04/2023	05/2023	06/2023
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	4.14	4.14	4.14	4.14	4.14	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	1.24	1.24	1.24	1.24	1.24	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	09/2022	10/2022	11/2022	12/2022	01/2023	02/2023	03/2023	04/2023	05/2023	06/2023
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	23.98	23.98	23.98	23.98	23.98	23.98	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	13.06	13.06	13.06	13.06	13.06	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.56	0.56	0.56	0.56	0.56	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.41	2.41	2.41	2.41	2.41	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	3.81	3.81	3.81	3.81	3.81	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	3.40	3.40	3.40	3.40	3.40	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	3.43	3.43	3.43	3.43	3.43	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	09/2022	10/2022	11/2022	12/2022	01/2023	02/2023	03/2023	04/2023	05/2023	06/2023
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	09/2022	10/2022	11/2022	12/2022	01/2023	02/2023	03/2023	04/2023	05/2023	06/2023
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

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NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	09/2022	10/2022	11/2022	12/2022	01/2023	02/2023	03/2023	04/2023	05/2023	06/2023
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	09/2022	10/2022	11/2022	12/2022	01/2023	02/2023	03/2023	04/2023	05/2023	06/2023
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	07/2023	08/2023	09/2023	10/2023	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	7.60	7.60	7.60	7.60	7.60	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	07/2023	08/2023	09/2023	10/2023	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	4.14	4.14	4.14	4.14	4.14	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	1.24	1.24	1.24	1.24	1.24	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	07/2023	08/2023	09/2023	10/2023	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	23.98	23.98	23.98	23.98	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	13.06	13.06	13.06	13.06	13.06	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.56	0.56	0.56	0.56	0.56	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.41	2.41	2.41	2.41	2.41	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	3.81	3.81	3.81	3.81	3.81	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	3.40	3.40	3.40	3.40	3.40	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	3.43	3.43	3.43	3.43	3.43	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	07/2023	08/2023	09/2023	10/2023	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41

Transport	Data Item	07/2023	08/2023	09/2023	10/2023	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	07/2023	08/2023	09/2023	10/2023	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	07/2023	08/2023	09/2023	10/2023	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	07/2023	08/2023	09/2023	10/2023	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.72	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024	01/2025	02/2025
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.60	7.60	7.60
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024	01/2025	02/2025
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.33
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.66
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	4.14	4.14	4.14	4.14
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24	1.24	1.24
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024	01/2025	02/2025
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	23.98	23.98	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	13.06	13.06	13.06	13.06
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.56	0.56	0.56	0.56
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.41	2.41	2.41	2.41
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	3.81	3.81	3.81	3.81
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	3.40	3.40	3.40	3.40
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	3.43	3.43	3.43	3.43
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024	01/2025	02/2025
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024	01/2025	02/2025
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024	01/2025	02/2025
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024	01/2025	02/2025
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024	01/2025	02/2025
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	03/2025	04/2025	05/2025	06/2025	07/2025	08/2025	09/2025	10/2025	11/2025	12/2025
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.60
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	03/2025	04/2025	05/2025	06/2025	07/2025	08/2025	09/2025	10/2025	11/2025	12/2025
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.14	4.14
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

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GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	0.00	0.00	0.00	0.00	0.00	0.00	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	8.93	8.93	8.93	8.93	8.93	8.93	8.93	13.06	13.06
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.56	0.56
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.41	2.41
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	2.98	2.98	2.98	2.98	2.98	2.98	2.98	3.81	3.81
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	2.73	2.73	2.73	2.73	2.73	2.73	2.73	3.40	3.40
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	2.19	2.19	2.19	2.19	2.19	2.19	2.19	3.43	3.43
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	03/2025	04/2025	05/2025	06/2025	07/2025	08/2025	09/2025	10/2025	11/2025	12/2025
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	03/2025	04/2025	05/2025	06/2025	07/2025	08/2025	09/2025	10/2025	11/2025	12/2025
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	03/2025	04/2025	05/2025	06/2025	07/2025	08/2025	09/2025	10/2025	11/2025	12/2025
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	03/2025	04/2025	05/2025	06/2025	07/2025	08/2025	09/2025	10/2025	11/2025	12/2025
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	03/2025	04/2025	05/2025	06/2025	07/2025	08/2025	09/2025	10/2025	11/2025	12/2025
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	01/2026	02/2026	03/2026	04/2026	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	7.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	01/2026	02/2026	03/2026	04/2026	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	4.14	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	1.24	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	01/2026	02/2026	03/2026	04/2026	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	0.00	0.00	0.00	0.00	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	13.06	13.06	8.93	8.93	8.93	8.93	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.56	0.56	0.31	0.31	0.31	0.31	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.41	2.41	2.08	2.08	2.08	2.08	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	3.81	3.81	2.98	2.98	2.98	2.98	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	3.40	3.40	2.73	2.73	2.73	2.73	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	3.43	3.43	2.19	2.19	2.19	2.19	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	01/2026	02/2026	03/2026	04/2026	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	01/2026	02/2026	03/2026	04/2026	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	01/2026	02/2026	03/2026	04/2026	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	01/2026	02/2026	03/2026	04/2026	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	01/2026	02/2026	03/2026	04/2026	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027	05/2027	06/2027	07/2027	08/2027
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	7.60	7.60	7.60	7.60	0.00	0.00	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027	05/2027	06/2027	07/2027	08/2027
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.83	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	4.14	4.14	4.14	4.14	0.00	0.00	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	1.24	1.24	1.24	1.24	0.00	0.00	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027	05/2027	06/2027	07/2027	08/2027
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	0.00	0.00	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	13.06	13.06	13.06	13.06	8.93	8.93	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.56	0.56	0.56	0.56	0.31	0.31	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.41	2.41	2.41	2.41	2.08	2.08	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	3.81	3.81	3.81	3.81	2.98	2.98	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	3.40	3.40	3.40	3.40	2.73	2.73	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	3.43	3.43	3.43	3.43	2.19	2.19	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027	05/2027	06/2027	07/2027	08/2027
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027	05/2027	06/2027	07/2027	08/2027
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027	05/2027	06/2027	07/2027	08/2027
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027	05/2027	06/2027	07/2027	08/2027
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027	05/2027	06/2027	07/2027	08/2027
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	09/2027	10/2027	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028	05/2028	06/2028
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	7.60	7.60	7.60	7.60	7.60	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.17	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.15	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	09/2027	10/2027	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028	05/2028	06/2028
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.21	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.21	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.22	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.22	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	4.14	4.14	4.14	4.14	4.14	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.23	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.23	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	1.24	1.24	1.24	1.24	1.24	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.24	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.24	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.25	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	09/2027	10/2027	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028	05/2028	06/2028
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.29	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	23.98	23.98	23.98	23.98	23.98	23.98	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	13.06	13.06	13.06	13.06	13.06	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.56	0.56	0.56	0.56	0.56	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.41	2.41	2.41	2.41	2.41	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	3.81	3.81	3.81	3.81	3.81	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	3.40	3.40	3.40	3.40	3.40	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	3.43	3.43	3.43	3.43	3.43	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	09/2027	10/2027	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028	05/2028	06/2028
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.15	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41

Transport	Data Item	09/2027	10/2027	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028	05/2028	06/2028
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	09/2027	10/2027	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028	05/2028	06/2028
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	09/2027	10/2027	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028	05/2028	06/2028
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	09/2027	10/2027	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028	05/2028	06/2028
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.72	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.47	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.15
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.15
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	07/2028	08/2028	09/2028	10/2028	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	7.60	7.60	7.60	7.60	7.60	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	07/2028	08/2028	09/2028	10/2028	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	4.14	4.14	4.14	4.14	4.14	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	1.24	1.24	1.24	1.24	1.24	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	07/2028	08/2028	09/2028	10/2028	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	23.98	23.98	23.98	23.98	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	13.06	13.06	13.06	13.06	13.06	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.56	0.56	0.56	0.56	0.56	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.41	2.41	2.41	2.41	2.41	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	3.81	3.81	3.81	3.81	3.81	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	3.40	3.40	3.40	3.40	3.40	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	3.43	3.43	3.43	3.43	3.43	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	07/2028	08/2028	09/2028	10/2028	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	07/2028	08/2028	09/2028	10/2028	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	07/2028	08/2028	09/2028	10/2028	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	07/2028	08/2028	09/2028	10/2028	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	07/2028	08/2028	09/2028	10/2028	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	05/2029	06/2029	07/2029	08/2029	09/2029	10/2029	11/2029	12/2029	01/2030	02/2030
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.60	7.60	7.60
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	05/2029	06/2029	07/2029	08/2029	09/2029	10/2029	11/2029	12/2029	01/2030	02/2030
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.33
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.66
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	4.14	4.14	4.14	4.14
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24	1.24	1.24
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

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GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	23.98	23.98	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	13.06	13.06	13.06	13.06
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.56	0.56	0.56	0.56
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.41	2.41	2.41	2.41
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	3.81	3.81	3.81	3.81
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	3.40	3.40	3.40	3.40
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	3.43	3.43	3.43	3.43
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	05/2029	06/2029	07/2029	08/2029	09/2029	10/2029	11/2029	12/2029	01/2030	02/2030
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	05/2029	06/2029	07/2029	08/2029	09/2029	10/2029	11/2029	12/2029	01/2030	02/2030
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	05/2029	06/2029	07/2029	08/2029	09/2029	10/2029	11/2029	12/2029	01/2030	02/2030
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	05/2029	06/2029	07/2029	08/2029	09/2029	10/2029	11/2029	12/2029	01/2030	02/2030
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	05/2029	06/2029	07/2029	08/2029	09/2029	10/2029	11/2029	12/2029	01/2030	02/2030
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	03/2030	04/2030	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030	11/2030	12/2030
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.60
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	03/2030	04/2030	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030	11/2030	12/2030
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.14	4.14
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	03/2030	04/2030	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030	11/2030	12/2030
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	0.00	0.00	0.00	0.00	0.00	0.00	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	8.93	8.93	8.93	8.93	8.93	8.93	8.93	13.06	13.06
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.56	0.56
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.41	2.41
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	2.98	2.98	2.98	2.98	2.98	2.98	2.98	3.81	3.81
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	2.73	2.73	2.73	2.73	2.73	2.73	2.73	3.40	3.40
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	2.19	2.19	2.19	2.19	2.19	2.19	2.19	3.43	3.43
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	03/2030	04/2030	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030	11/2030	12/2030
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	03/2030	04/2030	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030	11/2030	12/2030
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	03/2030	04/2030	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030	11/2030	12/2030
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	03/2030	04/2030	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030	11/2030	12/2030
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	03/2030	04/2030	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030	11/2030	12/2030
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	01/2031	02/2031	03/2031	04/2031	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	7.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	01/2031	02/2031	03/2031	04/2031	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	4.14	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	1.24	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	01/2031	02/2031	03/2031	04/2031	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	0.00	0.00	0.00	0.00	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	13.06	13.06	8.93	8.93	8.93	8.93	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.56	0.56	0.31	0.31	0.31	0.31	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.41	2.41	2.08	2.08	2.08	2.08	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	3.81	3.81	2.98	2.98	2.98	2.98	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	3.40	3.40	2.73	2.73	2.73	2.73	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	3.43	3.43	2.19	2.19	2.19	2.19	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	01/2031	02/2031	03/2031	04/2031	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	01/2031	02/2031	03/2031	04/2031	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	01/2031	02/2031	03/2031	04/2031	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	01/2031	02/2031	03/2031	04/2031	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	01/2031	02/2031	03/2031	04/2031	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.16	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	11/2031	12/2031	01/2032	02/2032	03/2032	04/2032	05/2032	06/2032	07/2032	08/2032
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	7.60	7.60	7.60	7.60	0.00	0.00	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.17	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.15	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

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GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.21	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.21	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.83	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.22	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.22	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	4.14	4.14	4.14	4.14	0.00	0.00	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.23	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.23	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	1.24	1.24	1.24	1.24	0.00	0.00	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.24	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.24	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.25	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	11/2031	12/2031	01/2032	02/2032	03/2032	04/2032	05/2032	06/2032	07/2032	08/2032
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.29	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	0.00	0.00	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	13.06	13.06	13.06	13.06	8.93	8.93	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.56	0.56	0.56	0.56	0.31	0.31	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.41	2.41	2.41	2.41	2.08	2.08	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	3.81	3.81	3.81	3.81	2.98	2.98	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	3.40	3.40	3.40	3.40	2.73	2.73	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	3.43	3.43	3.43	3.43	2.19	2.19	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	11/2031	12/2031	01/2032	02/2032	03/2032	04/2032	05/2032	06/2032	07/2032	08/2032
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.15	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	11/2031	12/2031	01/2032	02/2032	03/2032	04/2032	05/2032	06/2032	07/2032	08/2032
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	11/2031	12/2031	01/2032	02/2032	03/2032	04/2032	05/2032	06/2032	07/2032	08/2032
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	11/2031	12/2031	01/2032	02/2032	03/2032	04/2032	05/2032	06/2032	07/2032	08/2032
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	11/2031	12/2031	01/2032	02/2032	03/2032	04/2032	05/2032	06/2032	07/2032	08/2032
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.72	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.47	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.15	0.14	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.15	0.14	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	09/2032	10/2032	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033	05/2033	06/2033
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	7.60	7.60	7.60	7.60	7.60	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	09/2032	10/2032	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033	05/2033	06/2033
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	4.14	4.14	4.14	4.14	4.14	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	1.24	1.24	1.24	1.24	1.24	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	09/2032	10/2032	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033	05/2033	06/2033
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	23.98	23.98	23.98	23.98	23.98	23.98	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	13.06	13.06	13.06	13.06	13.06	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.56	0.56	0.56	0.56	0.56	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.41	2.41	2.41	2.41	2.41	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	3.81	3.81	3.81	3.81	3.81	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	3.40	3.40	3.40	3.40	3.40	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	3.43	3.43	3.43	3.43	3.43	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	09/2032	10/2032	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033	05/2033	06/2033
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	09/2032	10/2032	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033	05/2033	06/2033
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	09/2032	10/2032	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033	05/2033	06/2033
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	09/2032	10/2032	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033	05/2033	06/2033
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	09/2032	10/2032	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033	05/2033	06/2033
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15	0.14	0.15
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	07/2033	08/2033	09/2033	10/2033	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	7.60	7.60	7.60	7.60	7.60	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

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GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	4.14	4.14	4.14	4.14	4.14	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	1.24	1.24	1.24	1.24	1.24	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	07/2033	08/2033	09/2033	10/2033	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	23.98	23.98	23.98	23.98	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	13.06	13.06	13.06	13.06	13.06	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.56	0.56	0.56	0.56	0.56	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.41	2.41	2.41	2.41	2.41	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	3.81	3.81	3.81	3.81	3.81	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	3.40	3.40	3.40	3.40	3.40	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	3.43	3.43	3.43	3.43	3.43	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	07/2033	08/2033	09/2033	10/2033	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	07/2033	08/2033	09/2033	10/2033	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	07/2033	08/2033	09/2033	10/2033	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	07/2033	08/2033	09/2033	10/2033	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	07/2033	08/2033	09/2033	10/2033	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16	0.14	0.15
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	05/2034	06/2034	07/2034	08/2034	09/2034	10/2034	11/2034	12/2034	01/2035	02/2035
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.60	7.60	7.60
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

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GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.33
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.66
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	4.14	4.14	4.14	4.14
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24	1.24	1.24
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	05/2034	06/2034	07/2034	08/2034	09/2034	10/2034	11/2034	12/2034	01/2035	02/2035
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	23.98	23.98	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	13.06	13.06	13.06	13.06
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.56	0.56	0.56	0.56
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.41	2.41	2.41	2.41
MDDO PRVL	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	3.81	3.81	3.81	3.81
MDDO REDM	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	3.40	3.40	3.40	3.40
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	3.43	3.43	3.43	3.43
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	05/2034	06/2034	07/2034	08/2034	09/2034	10/2034	11/2034	12/2034	01/2035	02/2035
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	05/2034	06/2034	07/2034	08/2034	09/2034	10/2034	11/2034	12/2034	01/2035	02/2035
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	05/2034	06/2034	07/2034	08/2034	09/2034	10/2034	11/2034	12/2034	01/2035	02/2035
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	05/2034	06/2034	07/2034	08/2034	09/2034	10/2034	11/2034	12/2034	01/2035	02/2035
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	05/2034	06/2034	07/2034	08/2034	09/2034	10/2034	11/2034	12/2034	01/2035	02/2035
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.16
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	03/2035	04/2035	05/2035	06/2035	07/2035	08/2035	09/2035	10/2035	11/2035	12/2035
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.60
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

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GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.14	4.14
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	03/2035	04/2035	05/2035	06/2035	07/2035	08/2035	09/2035	10/2035	11/2035	12/2035
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	0.00	0.00	0.00	0.00	0.00	0.00	23.98	23.98
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	8.93	8.93	8.93	8.93	8.93	8.93	8.93	13.06	13.06
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.56	0.56
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.41	2.41
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	2.98	2.98	2.98	2.98	2.98	2.98	2.98	3.81	3.81
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	2.73	2.73	2.73	2.73	2.73	2.73	2.73	3.40	3.40
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	2.19	2.19	2.19	2.19	2.19	2.19	2.19	3.43	3.43
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	03/2035	04/2035	05/2035	06/2035	07/2035	08/2035	09/2035	10/2035	11/2035	12/2035
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	03/2035	04/2035	05/2035	06/2035	07/2035	08/2035	09/2035	10/2035	11/2035	12/2035
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	03/2035	04/2035	05/2035	06/2035	07/2035	08/2035	09/2035	10/2035	11/2035	12/2035
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	03/2035	04/2035	05/2035	06/2035	07/2035	08/2035	09/2035	10/2035	11/2035	12/2035
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	03/2035	04/2035	05/2035	06/2035	07/2035	08/2035	09/2035	10/2035	11/2035	12/2035
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.15	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	01/2036	02/2036	03/2036	04/2036	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98	23.98
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12	17.12
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	7.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58	21.58
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Transport	Data Item	01/2036	02/2036	03/2036	04/2036	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	4.14	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	1.24	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Transport	Data Item	01/2036	02/2036	03/2036	04/2036	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	0.00	0.00	0.00	0.00	0.00	0.00
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93	29.93
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79	16.79
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	13.06	13.06	8.93	8.93	8.93	8.93	8.93	8.93	8.93
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.56	0.56	0.31	0.31	0.31	0.31	0.31	0.31	0.31
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.41	2.41	2.08	2.08	2.08	2.08	2.08	2.08	2.08
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	3.81	3.81	2.98	2.98	2.98	2.98	2.98	2.98	2.98
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	3.40	3.40	2.73	2.73	2.73	2.73	2.73	2.73	2.73
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	3.43	3.43	2.19	2.19	2.19	2.19	2.19	2.19	2.19
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.59
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76	31.76
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20	56.20
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25	14.25
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64	44.64
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50

Transport	Data Item	01/2036	02/2036	03/2036	04/2036	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86	62.86
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67	25.67
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97	21.97
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87	116.87
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26	88.26
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Transport	Data Item	01/2036	02/2036	03/2036	04/2036	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Transport	Data Item	01/2036	02/2036	03/2036	04/2036	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Transport	Data Item	01/2036	02/2036	03/2036	04/2036	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13	18.13
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

Transport	Data Item	01/2036	02/2036	03/2036	04/2036	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.72	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06	27.06
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33	9.33
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.47	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.14	0.15	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81

Transport	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037	04/2037
17037 BNDLOP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
17037 CHEM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
17037 GILC	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
17037 LAPI	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
17037 MADR	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
17037 PRONG	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
17037 PRVL	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
17037 REDM	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
17037 STEA	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
17037 STNTAP	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
BNDLOP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
BNDLOP INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
BNDLOP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
BNDLOP INCRM	First of Month MDQ by Transport (MDTs)	17.12	17.12	17.12	17.12	17.12	
CHEM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
CHEM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
CHEM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
FTHL02	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	
FTHL02	First of Month MDQ by Transport (MDTs)	3.13	3.13	3.13	3.13	3.13	
FTHL061291S	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	
FTHL061291S	First of Month MDQ by Transport (MDTs)	7.60	7.60	7.60	7.60	7.60	
FTHL091101	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	
FTHL091101	First of Month MDQ by Transport (MDTs)	21.58	21.58	21.58	21.58	21.58	
GILC INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GILC INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GILC INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN STAN X1	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN STAN X1	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	
GTN12094	Rate: D1 by Transport ($000/MDT)	0.14	0.14	0.14	0.14	0.14	
GTN12094	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	
GTN12094	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN12094	First of Month MDQ by Transport (MDTs)	10.00	10.00	10.00	10.00	10.00	
GTN13688	Rate: D1 by Transport ($000/MDT)	0.18	0.18	0.18	0.18	0.18	
GTN13688	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN13688	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN13688	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	
GTN17019	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	
GTN17019	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	
GTN17019	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17019	First of Month MDQ by Transport (MDTs)	11.56	11.56	11.56	11.56	11.56	
GTN17021	Rate: D1 by Transport ($000/MDT)	0.15	0.15	0.15	0.15	0.15	
GTN17021	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	
GTN17021	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17021	First of Month MDQ by Transport (MDTs)	0.20	0.20	0.20	0.20	0.20	
GTN17022	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	
GTN17022	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	
GTN17022	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17022	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	
GTN17023	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	
GTN17023	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17023	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17023	First of Month MDQ by Transport (MDTs)	2.08	2.08	2.08	2.08	2.08	

Transport	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037	04/2037
GTN17023S	Rate: D1 by Transport ($000/MDT)	0.21	0.21	0.21	0.21	0.21	
GTN17023S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17023S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17023S	First of Month MDQ by Transport (MDTs)	0.33	0.33	0.33	0.33	0.33	
GTN17025	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	
GTN17025	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17025	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17025	First of Month MDQ by Transport (MDTs)	2.98	2.98	2.98	2.98	2.98	
GTN17025S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	
GTN17025S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17025S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17025S	First of Month MDQ by Transport (MDTs)	0.83	0.83	0.83	0.83	0.83	
GTN17026	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	
GTN17026	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17026	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17026	First of Month MDQ by Transport (MDTs)	2.73	2.73	2.73	2.73	2.73	
GTN17026S	Rate: D1 by Transport ($000/MDT)	0.22	0.22	0.22	0.22	0.22	
GTN17026S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17026S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17026S	First of Month MDQ by Transport (MDTs)	0.66	0.66	0.66	0.66	0.66	
GTN17028	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	
GTN17028	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17028	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17028	First of Month MDQ by Transport (MDTs)	8.93	8.93	8.93	8.93	8.93	
GTN17028S	Rate: D1 by Transport ($000/MDT)	0.23	0.23	0.23	0.23	0.23	
GTN17028S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17028S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17028S	First of Month MDQ by Transport (MDTs)	4.14	4.14	4.14	4.14	4.14	
GTN17031	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	
GTN17031	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17031	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17031	First of Month MDQ by Transport (MDTs)	2.19	2.19	2.19	2.19	2.19	
GTN17031S	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	
GTN17031S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17031S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17031S	First of Month MDQ by Transport (MDTs)	1.24	1.24	1.24	1.24	1.24	
GTN17033	Rate: D1 by Transport ($000/MDT)	0.24	0.24	0.24	0.24	0.24	
GTN17033	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17033	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17033	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	
GTN17034	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	
GTN17034	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17034	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17034	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	
GTN17034S	Rate: D1 by Transport ($000/MDT)	0.25	0.25	0.25	0.25	0.25	
GTN17034S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17034S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17034S	First of Month MDQ by Transport (MDTs)	0.25	0.25	0.25	0.25	0.25	
GTN17036	Rate: D1 by Transport ($000/MDT)	0.26	0.26	0.26	0.26	0.26	
GTN17036	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17036	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17036	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	

Transport	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037	04/2037
GTN17037S	Rate: D1 by Transport ($000/MDT)	0.30	0.30	0.30	0.30	0.30	
GTN17037S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
GTN17037S	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
GTN17037S	First of Month MDQ by Transport (MDTs)	23.98	23.98	23.98	23.98	23.98	
HUNT TO NWPN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	
HUNT TO WCT	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	
I-5 EXP 30S	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	
I-5 EXP 30S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
I-5 EXP 30S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
I-5 EXP SMS	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	
I-5 EXP SMS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
I-5 EXP SMS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
I-5 EXP SMS	First of Month MDQ by Transport (MDTs)	29.93	29.93	29.93	29.93	29.93	
JPWD-100302	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
JPWD-100302	First of Month MDQ by Transport (MDTs)	1.66	1.66	1.66	1.66	1.66	
JPWD-100401	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	
JPWD-100401	First of Month MDQ by Transport (MDTs)	16.79	16.79	16.79	16.79	16.79	
JPWD-135365	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	
JPWD-135365	First of Month MDQ by Transport (MDTs)	30.00	30.00	30.00	30.00	30.00	
JPWD-139622	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	
JPWD-139622	First of Month MDQ by Transport (MDTs)	3.50	3.50	3.50	3.50	3.50	
JPWD-139624	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
JPWD-139624	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	
JPWD-139626	Rate: D1 by Transport ($000/MDT)	0.04	0.04	0.04	0.04	0.04	
JPWD-139626	First of Month MDQ by Transport (MDTs)	6.08	6.08	6.08	6.08	6.08	
JPWD-139627	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
JPWD-139627	First of Month MDQ by Transport (MDTs)	0.49	0.49	0.49	0.49	0.49	
LAPI INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
LAPI INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
LAPI INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
LAPI INCRM	First of Month MDQ by Transport (MDTs)	0.18	0.18	0.18	0.18	0.18	
MADR INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
MADR INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
MADR INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
MADR INCRM	First of Month MDQ by Transport (MDTs)	1.75	1.75	1.75	1.75	1.75	
MDDO BNDLOP	First of Month MDQ by Transport (MDTs)	13.06	13.06	13.06	13.06	13.06	
MDDO CHEM	First of Month MDQ by Transport (MDTs)	0.08	0.08	0.08	0.08	0.08	
MDDO GILC	First of Month MDQ by Transport (MDTs)	0.56	0.56	0.56	0.56	0.56	
MDDO LAPI	First of Month MDQ by Transport (MDTs)	0.05	0.05	0.05	0.05	0.05	
MDDO MADR	First of Month MDQ by Transport (MDTs)	2.41	2.41	2.41	2.41	2.41	
MDDO PRVL	First of Month MDQ by Transport (MDTs)	3.81	3.81	3.81	3.81	3.81	
MDDO REDM	First of Month MDQ by Transport (MDTs)	3.40	3.40	3.40	3.40	3.40	
MDDO SmsSPLo	First of Month MDQ by Transport (MDTs)	48.50	48.50	48.50	48.50	48.50	
MDDO STEA	First of Month MDQ by Transport (MDTs)	3.43	3.43	3.43	3.43	3.43	
MDDO STNTAP	First of Month MDQ by Transport (MDTs)	0.23	0.23	0.23	0.23	0.23	
MDDO YAKLOP	First of Month MDQ by Transport (MDTs)	32.59	32.59	32.59	32.59	32.59	
MDDO Zn 10	First of Month MDQ by Transport (MDTs)	15.70	15.70	15.70	15.70	15.70	
MDDO Zn 11	First of Month MDQ by Transport (MDTs)	31.76	31.76	31.76	31.76	31.76	
MDDO Zn 20	First of Month MDQ by Transport (MDTs)	56.20	56.20	56.20	56.20	56.20	
MDDO Zn 24	First of Month MDQ by Transport (MDTs)	14.25	14.25	14.25	14.25	14.25	
MDDO Zn 26	First of Month MDQ by Transport (MDTs)	44.64	44.64	44.64	44.64	44.64	
MDDO Zn 30-S	First of Month MDQ by Transport (MDTs)	41.50	41.50	41.50	41.50	41.50	

Transport	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037	04/2037
MDDO Zn 30-W	First of Month MDQ by Transport (MDTs)	62.86	62.86	62.86	62.86	62.86	
MDDO Zn MEOR	First of Month MDQ by Transport (MDTs)	24.42	24.42	24.42	24.42	24.42	
MDDO Zn MEWA	First of Month MDQ by Transport (MDTs)	25.67	25.67	25.67	25.67	25.67	
NOVA090401	Rate: D1 by Transport ($000/MDT)	0.16	0.16	0.16	0.16	0.16	
NOVA090401	First of Month MDQ by Transport (MDTs)	21.97	21.97	21.97	21.97	21.97	
NWNJPIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	
NWNPLIN	First of Month MDQ by Transport (MDTs)	100.00	100.00	100.00	100.00	100.00	
NWP100002N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100002N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100002N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100002N	First of Month MDQ by Transport (MDTs)	116.87	116.87	116.87	116.87	116.87	
NWP100002S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100002S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100002S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100002S	First of Month MDQ by Transport (MDTs)	88.26	88.26	88.26	88.26	88.26	
NWP100064H	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100064H	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100064H	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100064H	First of Month MDQ by Transport (MDTs)	0.28	0.28	0.28	0.28	0.28	
NWP100064NP	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100064NP	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100064NP	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100064NP	First of Month MDQ by Transport (MDTs)	0.80	0.80	0.80	0.80	0.80	
NWP100134AHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100134AHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100134AHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100134AHN	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	
NWP100134AHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100134AHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100134AHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100134AHS	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	
NWP100134BHN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100134BHN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100134BHN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100134BHN	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	
NWP100134BHS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100134BHS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100134BHS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100134BHS	First of Month MDQ by Transport (MDTs)	0.10	0.10	0.10	0.10	0.10	
NWP100134YUN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100134YUN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100134YUN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100134YUN	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	
NWP100134YUS	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100134YUS	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100134YUS	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100134YUS	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	
NWP100149N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100149N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100149N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100149N	First of Month MDQ by Transport (MDTs)	0.04	0.04	0.04	0.04	0.04	
NWP100149S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	

Transport	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037	04/2037
NWP100149S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100149S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100149S	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	
NWP100150N	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100150N	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100150N	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100150N	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	
NWP100150S	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP100150S	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP100150S	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP100150S	First of Month MDQ by Transport (MDTs)	0.07	0.07	0.07	0.07	0.07	
NWP132329	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP132329	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP132329	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP132329	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	
NWP132329MEO	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	
NWP132329MEW	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	
NWP132329Z24	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	
NWP132329Z26	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	
NWP132329Z3S	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	
NWP132329Z3W	First of Month MDQ by Transport (MDTs)	5.00	5.00	5.00	5.00	5.00	
NWP135558	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP135558	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP135558	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP135558	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	
NWP135558STN	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP135558STN	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP135558STN	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP135558STN	First of Month MDQ by Transport (MDTs)	21.40	21.40	21.40	21.40	21.40	
NWP135558X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP135558X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP135558X1	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	
NWP135558X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP135558X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP135558X2	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	
NWP135558X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP135558X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP135558X3	First of Month MDQ by Transport (MDTs)	4.00	4.00	4.00	4.00	4.00	
NWP139090DIR	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139090DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139090DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139090DIR	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	
NWP139090MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139090MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139090MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139090MEO	First of Month MDQ by Transport (MDTs)	6.16	6.16	6.16	6.16	6.16	
NWP139090PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139090PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139090PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139090PL	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	
NWP139090Z10	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139090Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	

Transport	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037	04/2037
NWP139090Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139090Z10	First of Month MDQ by Transport (MDTs)	0.03	0.03	0.03	0.03	0.03	
NWP139090Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139090Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139090Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139090Z11	First of Month MDQ by Transport (MDTs)	0.31	0.31	0.31	0.31	0.31	
NWP139090Z26	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139090Z26	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139090Z26	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139090Z26	First of Month MDQ by Transport (MDTs)	12.49	12.49	12.49	12.49	12.49	
NWP139090Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139090Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139090Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139090Z3W	First of Month MDQ by Transport (MDTs)	8.07	8.07	8.07	8.07	8.07	
NWP139382	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139382	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139382	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139382	First of Month MDQ by Transport (MDTs)	6.19	6.19	6.19	6.19	6.19	
NWP139383	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139383	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139383	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139383	First of Month MDQ by Transport (MDTs)	1.05	1.05	1.05	1.05	1.05	
NWP139384	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139384	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139384	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139384	First of Month MDQ by Transport (MDTs)	3.26	3.26	3.26	3.26	3.26	
NWP139630MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139630MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139630MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139630MEO	First of Month MDQ by Transport (MDTs)	2.63	2.63	2.63	2.63	2.63	
NWP139630Z24	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139630Z24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139630Z24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139630Z24	First of Month MDQ by Transport (MDTs)	4.82	4.82	4.82	4.82	4.82	
NWP139637DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139637DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139637DIR	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	
NWP139637MEO	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139637MEO	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139637MEO	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139637MEO	First of Month MDQ by Transport (MDTs)	2.74	2.74	2.74	2.74	2.74	
NWP139637PL	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139637PL	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139637PL	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139637PL	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	
NWP139637X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139637X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139637X1	First of Month MDQ by Transport (MDTs)	0.22	0.22	0.22	0.22	0.22	
NWP139637Z11	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139637Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139637Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139637Z11	First of Month MDQ by Transport (MDTs)	2.00	2.00	2.00	2.00	2.00	

Transport	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037	04/2037
NWP139637Z3W	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP139637Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP139637Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP139637Z3W	First of Month MDQ by Transport (MDTs)	2.28	2.28	2.28	2.28	2.28	
NWP140047	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP140047	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP140047	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP140047DIR	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP140047DIR	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP140047DIR	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	
NWP140047Z3W	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP140047Z3W	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP140047Z3W	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	
NWP140748	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
NWP140748	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP140748	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP140748	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	
NWP140748X1	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP140748X1	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP140748X1	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	
NWP140748X2	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP140748X2	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP140748X2	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	
NWP140748X3	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP140748X3	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP140748X3	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	
NWP140748X4	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
NWP140748X4	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
NWP140748X4	First of Month MDQ by Transport (MDTs)	1.00	1.00	1.00	1.00	1.00	
PLWD-100304	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
PLWD-100304	First of Month MDQ by Transport (MDTs)	1.54	1.54	1.54	1.54	1.54	
PLWD-100601	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
PLWD-100601	First of Month MDQ by Transport (MDTs)	60.00	60.00	60.00	60.00	60.00	
PLWD-140857	Rate: D1 by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
PLWD-140857	First of Month MDQ by Transport (MDTs)	18.13	18.13	18.13	18.13	18.13	
PLWD-141193	Rate: D1 by Transport ($000/MDT)	0.41	0.41	0.41	0.41	0.41	
PLWD-141193	First of Month MDQ by Transport (MDTs)	10.68	10.68	10.68	10.68	10.68	
PRONG INCR	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
PRONG INCR	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
PRONG INCR	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
PRONG INCR	First of Month MDQ by Transport (MDTs)	0.75	0.75	0.75	0.75	0.75	
PRVL INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
PRVL INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
PRVL INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
PRVL INCRM	First of Month MDQ by Transport (MDTs)	1.31	1.31	1.31	1.31	1.31	
REDM INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
REDM INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
REDM INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
REDM INCRM	First of Month MDQ by Transport (MDTs)	12.09	12.09	12.09	12.09	12.09	
RUBY BendLop	First of Month MDQ by Transport (MDTs)	14.49	14.49	14.49	14.49	14.49	
RUBY Lapi	First of Month MDQ by Transport (MDTs)	0.65	0.65	0.65	0.65	0.65	
RUBY Madr	First of Month MDQ by Transport (MDTs)	1.48	1.48	1.48	1.48	1.48	

Transport	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037	04/2037
RUBY Prong	First of Month MDQ by Transport (MDTs)	0.64	0.64	0.64	0.64	0.64	
RUBY Prvl	First of Month MDQ by Transport (MDTs)	1.13	1.13	1.13	1.13	1.13	
RUBY Redm	First of Month MDQ by Transport (MDTs)	7.28	7.28	7.28	7.28	7.28	
RUBY StanTap	First of Month MDQ by Transport (MDTs)	0.09	0.09	0.09	0.09	0.09	
RUBY Stea	First of Month MDQ by Transport (MDTs)	4.39	4.39	4.39	4.39	4.39	
RUBY110114S	Rate: D1 by Transport ($000/MDT)	0.75	0.75	0.75	0.75	0.75	
RUBY110114S	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
RUBY110114S	First of Month MDQ by Transport (MDTs)	15.00	15.00	15.00	15.00	15.00	
SPOK EXT	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	
SPOK EXT	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
SPOK EXT	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
SPOK EXT	First of Month MDQ by Transport (MDTs)	5.65	5.65	5.65	5.65	5.65	
STAN EXP 24	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	
STAN EXP 24	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
STAN EXP 24	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
STAN EXP 24	First of Month MDQ by Transport (MDTs)	6.76	6.76	6.76	6.76	6.76	
STAN EXP MEW	Rate: D1 by Transport ($000/MDT)	0.02	0.02	0.02	0.03	0.02	
STAN EXP MEW	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
STAN EXP MEW	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
STAN EXP MEW	First of Month MDQ by Transport (MDTs)	6.36	6.36	6.36	6.36	6.36	
STAR TO NWPN	First of Month MDQ by Transport (MDTs)	27.06	27.06	27.06	27.06	27.06	
STEA INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
STEA INCRM	Rate: Transportation by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
STEA INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
STNTAP INCRM	Rate: D1 by Transport ($000/MDT)	0.01	0.01	0.01	0.01	0.01	
STNTAP INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	
STNTAP INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
STNTAP INCRM	First of Month MDQ by Transport (MDTs)	0.11	0.11	0.11	0.11	0.11	
STRRD INCRM	Rate: D1 by Transport ($000/MDT)	0.08	0.08	0.08	0.08	0.08	
STRRD INCRM	Rate: Transportation by Transport ($000/MDT)	0.00	0.00	0.00	0.00	0.00	
STRRD INCRM	Fuel by Transport (MDTs)	0.00	0.00	0.00	0.00	0.00	
STRRD INCRM	First of Month MDQ by Transport (MDTs)	9.33	9.33	9.33	9.33	9.33	
WC010302	Rate: D1 by Transport ($000/MDT)	0.48	0.48	0.48	0.48	0.48	
WC010302	First of Month MDQ by Transport (MDTs)	20.00	20.00	20.00	20.00	20.00	
WEN EXP Z10	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.14	0.16	0.14	
WEN EXP Z10	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
WEN EXP Z10	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
WEN EXP Z11	Rate: D1 by Transport ($000/MDT)	0.15	0.14	0.14	0.16	0.14	
WEN EXP Z11	Rate: Transportation by Transport ($000/MDT)	0.03	0.03	0.03	0.03	0.03	
WEN EXP Z11	Fuel by Transport (MDTs)	1.41	1.41	1.41	1.41	1.41	
WEN EXP Z11	First of Month MDQ by Transport (MDTs)	5.81	5.81	5.81	5.81	5.81	

Storage	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	587.56	150.23	17.57	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	16.79	437.34	132.66	17.57	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.04	1.01	0.31	0.04	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.23	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	172.38	29.26	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	6.08	143.13	29.26	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.01	0.33	0.07	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	99.28	16.85	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	3.50	82.43	16.85	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.01	0.19	0.04	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	320.00	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	30.00	320.00	0.00	0.00	0.00

Storage	Data Item	11/2016	12/2016	01/2017	02/2017	03/2017	04/2017
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.07	0.74	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	562.20	295.74	295.74	295.74
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	266.46	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.91	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	99.61	31.76	31.76	31.76
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.39	67.85	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.23	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2017	06/2017	07/2017	08/2017	09/2017	10/2017
JP-1	Beg Inv Volume (MDTs)	0.00	100.68	604.35	604.35	604.35	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	100.91	504.83	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.23	1.16	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	178.46	178.46	178.46	178.46	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	178.87	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.41	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.23	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	23.69	102.78	102.78	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	23.74	79.28	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.05	0.18	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.23	0.23	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	350.00	350.00	350.00	350.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	350.81	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2017	06/2017	07/2017	08/2017	09/2017	10/2017
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.81	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.23	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	295.74	295.74	562.20	562.20	562.20	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	268.37	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.91	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	31.76	31.76	100.00	100.00	100.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	68.72	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.49	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2017	12/2017	01/2018	02/2018	03/2018	04/2018
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.61	12.87	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.74	145.74	12.87	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	48.54	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	129.92	48.54	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.30	0.11	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	27.96	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	74.82	27.96	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.17	0.06	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	64.47	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	285.53	64.47	0.00	0.00	0.00

Storage	Data Item	11/2017	12/2017	01/2018	02/2018	03/2018	04/2018
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.66	0.15	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	471.29	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	90.91	471.29	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.31	1.60	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	81.88	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	18.13	81.88	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.06	0.28	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2018	06/2018	07/2018	08/2018	09/2018	10/2018
JP-1	Beg Inv Volume (MDTs)	0.00	353.61	353.61	529.84	529.84	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	354.43	0.00	176.63	0.00	74.68	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.82	0.00	0.41	0.00	0.17	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.00	0.23	0.00	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	135.15	178.46	178.46	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	135.46	43.41	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.31	0.10	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	102.78	102.78	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	103.02	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.24	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	350.00	350.00	350.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	350.81	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2018	06/2018	07/2018	08/2018	09/2018	10/2018
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.81	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	236.19	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	39.70	215.09	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.28	1.53	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.71	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	48.54	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	129.92	48.54	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.30	0.11	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	27.96	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	74.82	27.96	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.17	0.06	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.03	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.97	28.03	0.00	0.00	0.00

Storage	Data Item	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	344.75	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	217.45	344.75	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	1.17	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	36.25	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	63.75	36.25	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.22	0.12	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019
JP-1	Beg Inv Volume (MDTs)	0.00	0.00	211.52	604.35	604.35	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	212.01	393.73	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.49	0.91	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	139.94	152.44	152.44	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	140.27	12.52	0.00	26.08	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.32	0.03	0.00	0.06	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	82.23	82.23	82.23	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	82.42	0.00	0.00	20.60	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.19	0.00	0.00	0.05	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.00	0.00	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	242.53	242.53	350.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	243.09	0.00	107.71	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.56	0.00	0.25	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.00	0.23	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2019	12/2019	01/2020	02/2020	03/2020	04/2020
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	211.98	27.14	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	392.37	184.84	27.14	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.90	0.43	0.06	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	131.38	16.99	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	47.08	114.40	16.99	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.11	0.26	0.04	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	75.67	9.78	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	27.11	65.89	9.78	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.06	0.15	0.02	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	320.00	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	30.00	320.00	0.00	0.00	0.00

Storage	Data Item	11/2019	12/2019	01/2020	02/2020	03/2020	04/2020
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.07	0.74	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	502.20	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	60.00	502.20	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.20	1.71	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	99.11	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.89	99.11	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.34	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2020	06/2020	07/2020	08/2020	09/2020	10/2020
JP-1	Beg Inv Volume (MDTs)	0.00	0.00	211.52	493.93	604.35	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	212.01	283.06	110.67	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.49	0.65	0.25	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	142.77	142.77	142.77	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	143.10	0.00	0.00	35.77	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.33	0.00	0.00	0.08	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.00	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	102.78	102.78	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	103.02	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.24	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	211.28	338.04	338.04	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	211.77	127.06	0.00	11.98	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2020	06/2020	07/2020	08/2020	09/2020	10/2020
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.49	0.29	0.00	0.03	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2020	12/2020	01/2021	02/2021	03/2021	04/2021
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	48.54	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	129.92	48.54	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.30	0.11	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	27.96	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	74.82	27.96	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.17	0.06	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.02	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.98	28.02	0.00	0.00	0.00

Storage	Data Item	11/2020	12/2020	01/2021	02/2021	03/2021	04/2021
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	259.35	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	302.85	259.35	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.88	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	36.17	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	63.83	36.17	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.22	0.12	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
JP-1	Beg Inv Volume (MDTs)	0.00	68.61	211.52	604.35	604.35	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	68.77	143.24	393.73	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.16	0.33	0.91	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	118.78	142.77	142.77	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	119.05	24.04	0.00	35.77	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.27	0.06	0.00	0.08	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	82.23	82.23	82.23	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	82.42	0.00	0.00	20.60	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.19	0.00	0.00	0.05	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.00	0.00	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	151.71	298.98	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	29.27	147.61	51.14	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.07	0.34	0.12	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	46.57	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	131.89	46.57	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.30	0.11	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	27.96	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	74.82	27.96	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.17	0.06	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.02	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.98	28.02	0.00	0.00	0.00

Storage	Data Item	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	20.36	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	541.84	20.36	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.84	0.07	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	27.50	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	72.50	27.50	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.09	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2022	06/2022	07/2022	08/2022	09/2022	10/2022
JP-1	Beg Inv Volume (MDTs)	0.00	0.00	211.52	528.38	528.38	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	212.01	317.58	0.00	76.15	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.49	0.73	0.00	0.18	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	62.46	62.46	142.77	142.77	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	62.60	0.00	80.49	0.00	35.77	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.14	0.00	0.19	0.00	0.08	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.23	0.00	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	3.07	35.97	35.97	82.23	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	3.08	32.98	0.00	46.36	20.60	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.01	0.08	0.00	0.11	0.05	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.23	0.23	0.00	0.23	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	210.17	350.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	87.87	140.16	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2022	06/2022	07/2022	08/2022	09/2022	10/2022
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.20	0.32	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2022	12/2022	01/2023	02/2023	03/2023	04/2023
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	48.54	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	129.92	48.54	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.30	0.11	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	27.96	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	74.82	27.96	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.17	0.06	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	30.95	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	319.05	30.95	0.00	0.00	0.00

Storage	Data Item	11/2022	12/2022	01/2023	02/2023	03/2023	04/2023
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.73	0.07	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	435.07	144.64	144.64	144.64
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	127.13	290.43	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.43	0.99	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	63.75	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	36.25	63.75	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.12	0.22	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2023	06/2023	07/2023	08/2023	09/2023	10/2023
JP-1	Beg Inv Volume (MDTs)	0.00	50.65	211.52	542.70	542.70	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	50.76	161.25	331.94	0.00	61.80	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.12	0.37	0.76	0.00	0.14	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	178.46	178.46	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	116.27	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.27	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	35.97	35.97	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	36.06	0.00	66.96	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.08	0.00	0.15	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.00	0.23	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	160.41	280.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	38.00	119.86	70.16	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2023	06/2023	07/2023	08/2023	09/2023	10/2023
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.09	0.28	0.16	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	144.64	144.64	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	52.50	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.37	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	31.47	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	146.99	31.47	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.07	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	18.12	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	84.66	18.12	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.19	0.04	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.02	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.98	28.02	0.00	0.00	0.00

Storage	Data Item	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	0.00	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	562.20	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.91	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00

Storage	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024
JP-1	Beg Inv Volume (MDTs)	0.00	0.00	211.52	595.00	595.00	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	212.01	384.36	0.00	9.37	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.49	0.88	0.00	0.02	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	62.46	142.77	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	0.00	80.49	35.77	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.00	0.19	0.08	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.00	0.23	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	35.97	35.97	82.23	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	36.06	0.00	46.36	20.60	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.08	0.00	0.11	0.05	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.00	0.23	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	48.99	122.50	221.64	280.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	49.11	73.68	99.36	58.50	70.16	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.11	0.17	0.23	0.13	0.16	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.23	0.23	0.23	0.23	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2024	12/2024	01/2025	02/2025	03/2025	04/2025
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	31.47	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	146.99	31.47	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.07	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	18.12	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	84.66	18.12	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.19	0.04	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.02	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.98	28.02	0.00	0.00	0.00

Storage	Data Item	11/2024	12/2024	01/2025	02/2025	03/2025	04/2025
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	0.00	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	562.20	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.91	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00

Storage	Data Item	05/2025	06/2025	07/2025	08/2025	09/2025	10/2025
JP-1	Beg Inv Volume (MDTs)	0.00	0.00	211.52	304.76	490.08	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	212.01	93.45	185.75	114.53	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.49	0.21	0.43	0.26	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	178.46	178.46	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	116.27	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.27	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	35.97	35.97	82.23	82.23	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	36.06	0.00	46.36	0.00	20.60	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.08	0.00	0.11	0.00	0.05	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.23	0.00	0.23	0.00	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	5.03	122.50	350.00	350.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	5.04	117.74	228.02	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2025	06/2025	07/2025	08/2025	09/2025	10/2025
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.01	0.27	0.52	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2025	12/2025	01/2026	02/2026	03/2026	04/2026
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	31.47	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	146.99	31.47	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.07	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	18.12	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	84.66	18.12	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.19	0.04	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	0.00	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	350.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2025	12/2025	01/2026	02/2026	03/2026	04/2026
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.81	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	0.00	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	562.20	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.91	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00

Storage	Data Item	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
JP-1	Beg Inv Volume (MDTs)	0.00	0.00	211.52	479.04	483.48	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	212.01	268.13	4.45	121.15	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.49	0.62	0.01	0.28	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	62.46	178.46	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	0.00	116.27	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.00	0.27	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.00	0.23	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	35.97	35.97	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	36.06	0.00	66.96	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.08	0.00	0.15	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.00	0.23	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	27.51	122.50	340.90	340.90	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	27.57	95.21	218.91	0.00	9.12	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.06	0.22	0.50	0.00	0.02	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	31.47	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	146.99	31.47	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.07	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	18.12	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	84.66	18.12	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.19	0.04	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	26.59	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	323.41	26.59	0.00	0.00	0.00

Storage	Data Item	11/2026	12/2026	01/2027	02/2027	03/2027	04/2027
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	196.77	196.77	196.77	196.77
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	365.43	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.24	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	35.00	35.00	35.00	35.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	65.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.22	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00

Storage	Data Item	05/2027	06/2027	07/2027	08/2027	09/2027	10/2027
JP-1	Beg Inv Volume (MDTs)	0.00	0.00	211.52	411.87	597.62	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	212.01	200.81	186.17	6.75	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.49	0.46	0.43	0.02	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	142.77	142.77	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	80.49	0.00	35.77	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.19	0.00	0.08	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	35.97	82.23	82.23	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	36.06	46.36	0.00	20.60	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.08	0.11	0.00	0.05	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	280.00	280.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	157.86	0.00	70.16	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2027	06/2027	07/2027	08/2027	09/2027	10/2027
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.36	0.00	0.16	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	196.77	196.77	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	35.00	35.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	48.54	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	129.92	48.54	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.30	0.11	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	27.96	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	74.82	27.96	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.17	0.06	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.02	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.98	28.02	0.00	0.00	0.00

Storage	Data Item	11/2027	12/2027	01/2028	02/2028	03/2028	04/2028
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	196.77	196.77	196.77	196.77
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	365.43	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.24	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	35.00	35.00	35.00	35.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	65.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.22	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00

Storage	Data Item	05/2028	06/2028	07/2028	08/2028	09/2028	10/2028
JP-1	Beg Inv Volume (MDTs)	0.00	16.64	211.52	296.93	483.48	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	16.68	195.33	85.61	186.98	121.15	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.04	0.45	0.20	0.43	0.28	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.23	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	166.88	166.88	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	104.66	0.00	11.60	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.24	0.00	0.03	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	35.97	102.78	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	36.06	66.96	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.08	0.15	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	350.00	350.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	228.02	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2028	06/2028	07/2028	08/2028	09/2028	10/2028
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.52	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	196.77	196.77	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	35.00	35.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	48.54	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	129.92	48.54	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.30	0.11	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	27.96	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	74.82	27.96	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.17	0.06	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.26	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.74	28.26	0.00	0.00	0.00

Storage	Data Item	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	386.93	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	175.27	386.93	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.60	1.32	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	56.08	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	43.92	56.08	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.15	0.19	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2029	06/2029	07/2029	08/2029	09/2029	10/2029
JP-1	Beg Inv Volume (MDTs)	0.00	167.99	211.52	306.51	483.48	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	168.38	43.64	95.21	177.38	121.15	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.39	0.10	0.22	0.41	0.28	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.23	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	148.78	148.78	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	86.52	0.00	29.74	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.20	0.00	0.07	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	35.97	102.78	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	36.06	66.96	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.08	0.15	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	350.00	350.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	228.02	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2029	06/2029	07/2029	08/2029	09/2029	10/2029
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.52	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2029	12/2029	01/2030	02/2030	03/2030	04/2030
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	31.47	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	146.99	31.47	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.07	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	18.12	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	84.66	18.12	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.19	0.04	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	0.00	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	350.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2029	12/2029	01/2030	02/2030	03/2030	04/2030
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.81	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	0.00	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	562.20	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.91	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00

Storage	Data Item	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030
JP-1	Beg Inv Volume (MDTs)	0.00	6.58	211.52	303.38	483.48	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	6.59	205.42	92.07	180.52	121.15	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.02	0.47	0.21	0.42	0.28	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.23	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	62.46	62.46	174.56	174.56	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	62.60	0.00	112.36	0.00	3.91	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.14	0.00	0.26	0.00	0.01	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.23	0.00	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	35.97	35.97	97.19	97.19	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	36.06	0.00	61.36	0.00	5.60	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.08	0.00	0.14	0.00	0.01	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.23	0.00	0.23	0.00	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	122.50	122.50	304.52	304.52	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	122.78	0.00	182.43	0.00	45.59	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2030	06/2030	07/2030	08/2030	09/2030	10/2030
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.28	0.00	0.42	0.00	0.10	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.23	0.00	0.23	0.00	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2030	12/2030	01/2031	02/2031	03/2031	04/2031
JP-1	Beg Inv Volume (MDTs)	604.35	604.35	158.51	12.84	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	445.84	145.67	12.84	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.03	0.34	0.03	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	31.47	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	146.99	31.47	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.07	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	18.12	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	84.66	18.12	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.19	0.04	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	0.00	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	350.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2030	12/2030	01/2031	02/2031	03/2031	04/2031
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.81	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	0.00	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	562.20	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.91	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00

Storage	Data Item	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
JP-1	Beg Inv Volume (MDTs)	0.00	4.29	211.52	557.25	557.25	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	4.30	207.71	346.53	0.00	47.20	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.01	0.48	0.80	0.00	0.11	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	62.46	62.46	62.46	142.77	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	62.60	0.00	0.00	80.49	35.77	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.14	0.00	0.00	0.19	0.08	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.23	0.00	0.00	0.23	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	35.97	35.97	82.23	82.23	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	36.06	0.00	46.36	0.00	20.60	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.08	0.00	0.11	0.00	0.05	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.23	0.00	0.23	0.00	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	122.50	122.50	182.45	280.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	122.78	0.00	60.09	97.78	70.16	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.28	0.00	0.14	0.22	0.16	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.23	0.00	0.23	0.23	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2031	12/2031	01/2032	02/2032	03/2032	04/2032
JP-1	Beg Inv Volume (MDTs)	604.35	435.93	110.45	0.00	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	168.42	325.48	110.45	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.39	0.75	0.25	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	162.06	48.54	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	16.40	113.52	48.54	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.04	0.26	0.11	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	79.45	27.96	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	23.33	51.49	27.96	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.05	0.12	0.06	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.02	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.98	28.02	0.00	0.00	0.00

Storage	Data Item	11/2031	12/2031	01/2032	02/2032	03/2032	04/2032
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	108.36	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	453.84	108.36	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.54	0.37	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	38.37	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	61.63	38.37	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.21	0.13	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2032	06/2032	07/2032	08/2032	09/2032	10/2032
JP-1	Beg Inv Volume (MDTs)	0.00	186.94	211.52	483.48	483.48	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	187.37	24.64	272.58	0.00	121.15	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.43	0.06	0.63	0.00	0.28	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	142.77	142.77	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	80.49	0.00	35.77	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.19	0.00	0.08	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	35.97	35.97	35.97	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	36.06	0.00	0.00	66.96	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.08	0.00	0.00	0.15	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.23	0.00	0.00	0.23	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	197.42	306.23	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	75.10	109.06	43.87	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2032	06/2032	07/2032	08/2032	09/2032	10/2032
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.17	0.25	0.10	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033
JP-1	Beg Inv Volume (MDTs)	604.35	409.92	81.13	0.00	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	194.44	328.78	81.13	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.45	0.76	0.19	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	148.49	21.59	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	29.97	126.90	21.59	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.07	0.29	0.05	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	86.17	12.62	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	16.61	73.55	12.62	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.04	0.17	0.03	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	348.75	28.02	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	1.25	320.74	28.02	0.00	0.00	0.00

Storage	Data Item	11/2032	12/2032	01/2033	02/2033	03/2033	04/2033
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	0.00	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	562.20	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.91	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00

Storage	Data Item	05/2033	06/2033	07/2033	08/2033	09/2033	10/2033
JP-1	Beg Inv Volume (MDTs)	0.00	165.93	211.52	568.09	568.09	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	166.31	45.70	357.39	0.00	36.35	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.38	0.11	0.82	0.00	0.08	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	142.77	142.77	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	80.49	0.00	35.77	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.19	0.00	0.08	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	35.97	68.72	82.23	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	36.06	32.83	13.53	20.60	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.08	0.08	0.03	0.05	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	122.50	280.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	0.00	157.86	70.16	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2033	06/2033	07/2033	08/2033	09/2033	10/2033
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.00	0.36	0.16	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.00	0.23	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034
JP-1	Beg Inv Volume (MDTs)	604.35	510.62	116.45	1.60	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	93.73	394.17	114.85	1.60	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.22	0.91	0.26	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	54.93	1.26	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	123.53	53.68	1.26	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.12	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	102.78	31.64	0.72	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	71.14	30.91	0.72	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.16	0.07	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.47	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.53	28.47	0.00	0.00	0.00

Storage	Data Item	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.07	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	382.11	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	180.09	382.11	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.61	1.30	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	37.23	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	62.77	37.23	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.21	0.13	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2034	06/2034	07/2034	08/2034	09/2034	10/2034
JP-1	Beg Inv Volume (MDTs)	0.00	206.04	211.52	500.75	500.75	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	206.51	5.50	289.89	0.00	103.84	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.47	0.01	0.67	0.00	0.24	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	0.00	62.46	174.99	174.99	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	62.60	112.79	0.00	3.47	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.26	0.00	0.01	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	35.97	35.97	102.78	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	36.06	0.00	66.96	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.08	0.00	0.15	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.23	0.00	0.23	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	122.50	293.62	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	0.00	171.52	56.51	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2034	06/2034	07/2034	08/2034	09/2034	10/2034
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.00	0.39	0.13	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.00	0.23	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2034	12/2034	01/2035	02/2035	03/2035	04/2035
JP-1	Beg Inv Volume (MDTs)	604.35	500.18	112.36	0.51	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	104.17	387.82	111.85	0.51	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.24	0.89	0.26	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	178.46	54.93	1.26	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	123.53	53.68	1.26	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.12	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	101.76	31.64	0.72	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	1.02	70.12	30.91	0.72	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.16	0.07	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.23	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	350.00	28.02	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	321.98	28.02	0.00	0.00	0.00

Storage	Data Item	11/2034	12/2034	01/2035	02/2035	03/2035	04/2035
JP-4	Inv Max Physical Capacity (Less Released) (MDT:	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.74	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	98.58	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	463.62	98.58	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT:	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.58	0.34	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	2.57	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	97.43	2.57	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT:	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.33	0.01	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.34	0.00	0.00	0.00

Storage	Data Item	05/2035	06/2035	07/2035	08/2035	09/2035	10/2035
JP-1	Beg Inv Volume (MDTs)	0.00	194.70	211.52	506.21	506.21	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	195.15	16.86	295.36	0.00	98.37	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.45	0.04	0.68	0.00	0.23	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	62.46	62.46	154.15	154.15	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	62.60	0.00	91.90	0.00	24.36	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.14	0.00	0.21	0.00	0.06	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.23	0.00	0.23	0.00	0.23	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	35.97	91.41	102.78	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	36.06	55.57	11.40	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.08	0.13	0.03	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.23	0.23	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	122.50	280.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	0.00	157.86	70.16	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2035	06/2035	07/2035	08/2035	09/2035	10/2035
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.00	0.36	0.16	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.00	0.23	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2035	12/2035	01/2036	02/2036	03/2036	04/2036
JP-1	Beg Inv Volume (MDTs)	604.35	403.21	79.10	0.00	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	201.15	324.11	79.10	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11	7.85
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68	10.33
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.46	0.75	0.18	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	132.02	17.15	0.00	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	46.44	114.87	17.15	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62	7.37
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20	18.58
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.11	0.26	0.04	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	79.17	10.68	0.00	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	23.61	68.49	10.68	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69	1.64
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82	1.76
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.05	0.16	0.02	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	337.76	28.02	0.00	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	12.24	309.75	28.02	0.00	0.00	0.00

Storage	Data Item	11/2035	12/2035	01/2036	02/2036	03/2036	04/2036
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49	14.02
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18	5.99
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.03	0.71	0.06	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	0.00	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	562.20	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99	46.44
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51	55.66
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.91	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	100.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50	14.03
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23	9.90
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00	0.00

Storage	Data Item	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
JP-1	Beg Inv Volume (MDTs)	0.00	211.52	211.52	329.57	496.19	604.35
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	212.01	0.00	118.32	167.00	108.41	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	8.11	7.85	8.11	8.11	7.85	8.11
JP-1	D2 Cost: Storage (MDTs)	10.68	10.33	10.68	10.68	10.33	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.49	0.00	0.27	0.38	0.25	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-1	Injected Fuel - Percentage	0.23	0.00	0.23	0.23	0.23	0.00
JP-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	0.00	1.97	62.46	178.46	178.46	178.46
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	1.98	60.63	116.27	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.62	7.37	7.62	7.62	7.37	7.62
JP-2	D2 Cost: Storage (MDTs)	19.20	18.58	19.20	19.20	18.58	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.14	0.27	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-2	Injected Fuel - Percentage	0.23	0.23	0.23	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	0.00	0.00	35.97	84.28	84.28	102.78
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	36.06	48.41	0.00	18.55	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.69	1.64	1.69	1.69	1.64	1.69
JP-3	D2 Cost: Storage (MDTs)	1.82	1.76	1.82	1.82	1.76	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.08	0.11	0.00	0.04	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-3	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	0.00	0.00	122.50	280.00	280.00	350.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	122.78	157.86	0.00	70.16	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.49	14.02	14.49	14.49	14.02	14.49
JP-4	D2 Cost: Storage (MDTs)	6.18	5.99	6.18	6.18	5.99	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.28	0.36	0.00	0.16	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.23	0.23	0.00	0.23	0.00
JP-4	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	0.00	0.00	196.77	196.77	449.76	562.20
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	198.18	0.00	254.80	113.24	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	47.99	46.44	47.99	47.99	46.44	47.99
Ply-1	D2 Cost: Storage (MDTs)	57.51	55.66	57.51	57.51	55.66	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	1.41	0.00	1.81	0.80	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	0.00	0.00	35.00	35.00	80.00	100.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	35.25	0.00	45.32	20.14	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.50	14.03	14.50	14.50	14.03	14.50
Ply-2	D2 Cost: Storage (MDTs)	10.23	9.90	10.23	10.23	9.90	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.25	0.00	0.32	0.14	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.71	0.00	0.71	0.71	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.00	0.00	0.00	0.00	0.00

Storage	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037
JP-1	Beg Inv Volume (MDTs)	604.35	439.30	90.54	0.00	0.00
JP-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	165.05	348.76	90.54	0.00	0.00
JP-1	Inv Max Physical Capacity (Less Released) (MDT:	604.35	604.35	604.35	604.35	604.35
JP-1	D1 Cost: Storage (MDTs)	7.85	8.11	8.11	7.32	8.11
JP-1	D2 Cost: Storage (MDTs)	10.33	10.68	10.68	9.65	10.68
JP-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.38	0.80	0.21	0.00	0.00
JP-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00
JP-1	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00
JP-2	Beg Inv Volume (MDTs)	178.46	161.57	37.11	0.00	0.00
JP-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	16.89	124.46	37.11	0.00	0.00
JP-2	Inv Max Physical Capacity (Less Released) (MDT:	178.46	178.46	178.46	178.46	178.46
JP-2	D1 Cost: Storage (MDTs)	7.37	7.62	7.62	6.88	7.62
JP-2	D2 Cost: Storage (MDTs)	18.58	19.20	19.20	17.34	19.20
JP-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.04	0.29	0.09	0.00	0.00
JP-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00
JP-2	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00
JP-3	Beg Inv Volume (MDTs)	102.78	86.50	18.24	0.00	0.00
JP-3	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Gross Vol: Storage Mthly (MDTs)	16.28	68.26	18.24	0.00	0.00
JP-3	Inv Max Physical Capacity (Less Released) (MDT:	102.78	102.78	102.78	102.78	102.78
JP-3	D1 Cost: Storage (MDTs)	1.64	1.69	1.69	1.53	1.69
JP-3	D2 Cost: Storage (MDTs)	1.76	1.82	1.82	1.64	1.82
JP-3	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.04	0.16	0.04	0.00	0.00
JP-3	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00
JP-3	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00
JP-4	Beg Inv Volume (MDTs)	350.00	347.63	28.02	0.00	0.00
JP-4	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Gross Vol: Storage Mthly (MDTs)	2.37	319.61	28.02	0.00	0.00

Storage	Data Item	11/2036	12/2036	01/2037	02/2037	03/2037
JP-4	Inv Max Physical Capacity (Less Released) (MDT	350.00	350.00	350.00	350.00	350.00
JP-4	D1 Cost: Storage (MDTs)	14.02	14.49	14.49	13.09	14.49
JP-4	D2 Cost: Storage (MDTs)	5.99	6.18	6.18	5.59	6.18
JP-4	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.01	0.74	0.06	0.00	0.00
JP-4	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00
JP-4	Withdrawn Fuel - Percentage	0.23	0.23	0.23	0.00	0.00
Ply-1	Beg Inv Volume (MDTs)	562.20	562.20	0.00	0.00	0.00
Ply-1	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	562.20	0.00	0.00	0.00
Ply-1	Inv Max Physical Capacity (Less Released) (MDT	562.20	562.20	562.20	562.20	562.20
Ply-1	D1 Cost: Storage (MDTs)	46.44	47.99	47.99	43.34	47.99
Ply-1	D2 Cost: Storage (MDTs)	55.66	57.51	57.51	51.95	57.51
Ply-1	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	1.91	0.00	0.00	0.00
Ply-1	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00
Ply-1	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00
Ply-2	Beg Inv Volume (MDTs)	100.00	100.00	0.00	0.00	0.00
Ply-2	Injected Gross Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Gross Vol: Storage Mthly (MDTs)	0.00	100.00	0.00	0.00	0.00
Ply-2	Inv Max Physical Capacity (Less Released) (MDT	100.00	100.00	100.00	100.00	100.00
Ply-2	D1 Cost: Storage (MDTs)	14.03	14.50	14.50	13.09	14.50
Ply-2	D2 Cost: Storage (MDTs)	9.90	10.23	10.23	9.24	10.23
Ply-2	Injected Fuel Vol: Storage Mthly (MDTs)	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel Vol: Storage Mthly (MDTs)	0.00	0.34	0.00	0.00	0.00
Ply-2	Injected Fuel - Percentage	0.00	0.00	0.00	0.00	0.00
Ply-2	Withdrawn Fuel - Percentage	0.00	0.34	0.00	0.00	0.00

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	01/2017 31	02/2017 28	03/2017 31	04/2017 30	05/2017 31	06/2017 30	07/2017 31	08/2017 31	09/2017 30	10/2017 31	11/2017 30	12/2017 31	01/2018 31	02/2018 28	03/2018 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000		10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980	23,980	23,980	23,980	23,980							20,380	20,380	20,380	20,380	20,380
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734

CONTRACT				COST	TERMINATION	RATE		01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017	09/2017	10/2017	11/2017	12/2017	01/2018	02/2018	03/2018
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331	331	331	331								331	331	331	331	331
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827	827	827	827								827	827	827	827	827
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662	662	662	662								662	662	662	662	662
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137	4,137	4,137	4,137								4,137	4,137	4,137	4,137	4,137
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241	1,241	1,241	1,241								1,241	1,241	1,241	1,241	1,241
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248	248	248	248								248	248	248	248	248
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126	3,126	3,126	3,126	3,126	3,126	3,126	3,126	3,126	3,126	3,126					
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602	7,602	7,602	7,602								7,602	7,602	7,602	7,602	7,602
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000	15,000	15,000	15,000							15,000	15,000	15,000	15,000	15,000

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	04/2018 30	05/2018 31	06/2018 30	07/2018 31	08/2018 31	09/2018 30	10/2018 31	11/2018 30	12/2018 31	01/2019 31	02/2019 28	03/2019 31	04/2019 30	05/2019 31	06/2019 30
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789	16,789
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000		10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980	20,380							20,380	20,380	20,380	20,380	20,380	20,380		
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734

CONTRACT				COST	TERMINATION	RATE		04/2018	05/2018	06/2018	07/2018	08/2018	09/2018	10/2018	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019	05/2019	06/2019
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331							331	331	331	331	331	331			
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827							827	827	827	827	827	827			
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662							662	662	662	662	662	662			
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137							4,137	4,137	4,137	4,137	4,137	4,137			
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241							1,241	1,241	1,241	1,241	1,241	1,241			
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248							248	248	248	248	248	248			
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602								7,602	7,602	7,602	7,602	7,602			
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000							15,000	15,000	15,000	15,000	15,000	15,000		

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	07/2019 31	08/2019 31	09/2019 30	10/2019 31	11/2019 30	12/2019 31	01/2020 31	02/2020 29	03/2020 31	04/2020 30	05/2020 31	06/2020 30	07/2020 31	08/2020 31	09/2020 30
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400					
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330	330	330	330	330	330										
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75	75	75	75	75	75										
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160	160	160	160	160	160										
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078						
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789	1,656	1,656	1,656	1,656											
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000	1,540	1,540	1,540	1,540											
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789	16,789	16,789	16,789	16,789											
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000	60,000	60,000	60,000	60,000											
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489	489	489	489	489	489	489	489	489	489						
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282	282	282	282	282	282	282	282	282	282						
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000		10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077						
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980					20,380	20,380	20,380	20,380	20,380	20,380					
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734

CONTRACT				COST	TERMINATION	RATE		07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	01/2020	02/2020	03/2020	04/2020	05/2020	06/2020	07/2020	08/2020	09/2020
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331				331	331	331	331	331	331						
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827				827	827	827	827	827	827						
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662				662	662	662	662	662	662						
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137				4,137	4,137	4,137	4,137	4,137	4,137						
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241				1,241	1,241	1,241	1,241	1,241	1,241						
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248				248	248	248	248	248	248						
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602					7,602	7,602	7,602	7,602	7,602						
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000	20,000	20,000	20,000	20,000											
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000					15,000	15,000	15,000	15,000	15,000	15,000					

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	10/2020 31	11/2020 30	12/2020 31	01/2021 31	02/2021 28	03/2021 31	04/2021 30	05/2021 31	06/2021 30	07/2021 31	08/2021 31	09/2021 30	10/2021 31	11/2021 30	12/2021 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000	5000	5000	5000	5000											
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000		10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980		20,380	20,380	20,380	20,380	20,380	20,380							20,380	20,380
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734

CONTRACT				COST	TERMINATION	RATE		10/2020	11/2020	12/2020	01/2021	02/2021	03/2021	04/2021	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021	11/2021	12/2021
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331	331	331	331	331	331	331							331	331	331
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827	827	827	827	827	827	827							827	827	827
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662	662	662	662	662	662	662							662	662	662
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137	4,137	4,137	4,137	4,137	4,137	4,137							4,137	4,137	4,137
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241	1,241	1,241	1,241	1,241	1,241	1,241							1,241	1,241	1,241
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248	248	248	248	248	248	248							248	248	248
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602		7,602	7,602	7,602	7,602	7,602								7,602	7,602
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000		15,000	15,000	15,000	15,000	15,000	15,000							15,000	15,000

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	01/2022 31	02/2022 28	03/2022 31	04/2022 30	05/2022 31	06/2022 30	07/2022 31	08/2022 31	09/2022 30	10/2022 31	11/2022 30	12/2022 31	01/2023 31	02/2023 28	03/2023 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000		10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675	10,675
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980	20,380	20,380	20,380	20,380							20,380	20,380	20,380	20,380	20,380
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734

CONTRACT				COST	TERMINATION	RATE		01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022	09/2022	10/2022	11/2022	12/2022	01/2023	02/2023	03/2023
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331	331	331	331							331	331	331	331	331	331
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827	827	827	827							827	827	827	827	827	827
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662	662	662	662							662	662	662	662	662	662
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137	4,137	4,137	4,137							4,137	4,137	4,137	4,137	4,137	4,137
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241	1,241	1,241	1,241							1,241	1,241	1,241	1,241	1,241	1,241
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248	248	248	248							248	248	248	248	248	248
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602	7,602	7,602	7,602								7,602	7,602	7,602	7,602	7,602
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000	15,000	15,000	15,000							15,000	15,000	15,000	15,000	15,000

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	04/2023 30	05/2023 31	06/2023 30	07/2023 31	08/2023 31	09/2023 30	10/2023 31	11/2023 30	12/2023 31	01/2024 31	02/2024 29	03/2024 31	04/2024 30	05/2024 31	06/2024 30
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980	20,380							20,380	20,380	20,380	20,380	20,380	20,380		
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558	11,558	11,558	11,558	11,558	11,558	11,558	11,558								
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200	200	200	200	200	200	200	200								
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232	232	232	232	232	232	232	232								
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078								
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984	2,984	2,984	2,984	2,984	2,984	2,984	2,984								
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734								

CONTRACT				COST	TERMINATION	RATE		04/2023	05/2023	06/2023	07/2023	08/2023	09/2023	10/2023	11/2023	12/2023	01/2024	02/2024	03/2024	04/2024	05/2024	06/2024
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927	8,927	8,927	8,927	8,927	8,927	8,927	8,927								
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189	2,189	2,189	2,189	2,189	2,189	2,189	2,189								
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45	45	45	45	45	45	45	45								
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313	313	313	313	313	313	313	313								
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75	75	75	75	75	75	75	75								
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331							331								
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827							827								
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662							662								
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137							4,137								
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241							1,241								
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248							248								
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000							15,000	15,000	15,000	15,000	15,000	15,000		

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	07/2024 31	08/2024 31	09/2024 30	10/2024 31	11/2024 30	12/2024 31	01/2025 31	02/2025 28	03/2025 31	04/2025 30	05/2025 31	06/2025 30	07/2025 31	08/2025 31	09/2025 30
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980					20,380	20,380	20,380	20,380	20,380	20,380					
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		07/2024	08/2024	09/2024	10/2024	11/2024	12/2024	01/2025	02/2025	03/2025	04/2025	05/2025	06/2025	07/2025	08/2025	09/2025
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000					15,000	15,000	15,000	15,000	15,000	15,000					

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	10/2025 31	11/2025 30	12/2025 31	01/2026 31	02/2026 28	03/2026 31	04/2026 30	05/2026 31	06/2026 30	07/2026 31	08/2026 31	09/2026 30	10/2026 31	11/2026 30	12/2026 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980		20,380	20,380	20,380	20,380	20,380	20,380							20,380	20,380
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		10/2025	11/2025	12/2025	01/2026	02/2026	03/2026	04/2026	05/2026	06/2026	07/2026	08/2026	09/2026	10/2026	11/2026	12/2026
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000		15,000	15,000	15,000	15,000	15,000	15,000							15,000	15,000

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	01/2027 31	02/2027 28	03/2027 31	04/2027 30	05/2027 31	06/2027 30	07/2027 31	08/2027 31	09/2027 30	10/2027 31	11/2027 30	12/2027 31	01/2028 31	02/2028 29	03/2028 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980	20,380	20,380	20,380	20,380							20,380	20,380	20,380	20,380	20,380
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		01/2027	02/2027	03/2027	04/2027	05/2027	06/2027	07/2027	08/2027	09/2027	10/2027	11/2027	12/2027	01/2028	02/2028	03/2028
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000	15,000	15,000	15,000							15,000	15,000	15,000	15,000	15,000

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	04/2028 30	05/2028 31	06/2028 30	07/2028 31	08/2028 31	09/2028 30	10/2028 31	11/2028 30	12/2028 31	01/2029 31	02/2029 28	03/2029 31	04/2029 30	05/2029 31	06/2029 30
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980	20,380														
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		04/2028	05/2028	06/2028	07/2028	08/2028	09/2028	10/2028	11/2028	12/2028	01/2029	02/2029	03/2029	04/2029	05/2029	06/2029
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583	21,583	21,583	21,583	21,583	21,583	21,583	21,583								
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973	21,973	21,973	21,973	21,973	21,973	21,973	21,973								
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000							15,000	15,000	15,000	15,000	15,000	15,000		

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	07/2029 31	08/2029 31	09/2029 30	10/2029 31	11/2029 30	12/2029 31	01/2030 31	02/2030 28	03/2030 31	04/2030 30	05/2030 31	06/2030 30	07/2030 31	08/2030 31	09/2030 30
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980															
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		07/2029	08/2029	09/2029	10/2029	11/2029	12/2029	01/2030	02/2030	03/2030	04/2030	05/2030	06/2030	07/2030	08/2030	09/2030
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583															
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973															
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000					15,000	15,000	15,000	15,000	15,000	15,000					

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	10/2030 31	11/2030 30	12/2030 31	01/2031 31	02/2031 28	03/2031 31	04/2031 30	05/2031 31	06/2031 30	07/2031 31	08/2031 31	09/2031 30	10/2031 31	11/2031 30	12/2031 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000	1,000	1,000	1,000	1,000	1,000	1,000									
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980															
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		10/2030	11/2030	12/2030	01/2031	02/2031	03/2031	04/2031	05/2031	06/2031	07/2031	08/2031	09/2031	10/2031	11/2031	12/2031
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583															
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973															
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000		15,000	15,000	15,000	15,000	15,000	15,000							15,000	15,000

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	01/2032 31	02/2032 29	03/2032 31	04/2032 30	05/2032 31	06/2032 30	07/2032 31	08/2032 31	09/2032 30	10/2032 31	11/2032 30	12/2032 31	01/2033 31	02/2033 28	03/2033 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123	205123					
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000															
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980															
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		01/2032	02/2032	03/2032	04/2032	05/2032	06/2032	07/2032	08/2032	09/2032	10/2032	11/2032	12/2032	01/2033	02/2033	03/2033
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583															
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973															
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000	15,000	15,000	15,000							15,000	15,000	15,000	15,000	15,000

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	04/2033 30	05/2033 31	06/2033 30	07/2033 31	08/2033 31	09/2033 30	10/2033 31	11/2033 30	12/2033 31	01/2034 31	02/2034 28	03/2034 31	04/2034 30	05/2034 31	06/2034 30
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123															
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000															
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980															
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		04/2033	05/2033	06/2033	07/2033	08/2033	09/2033	10/2033	11/2033	12/2033	01/2034	02/2034	03/2034	04/2034	05/2034	06/2034
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583															
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973															
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000							15,000	15,000	15,000	15,000	15,000	15,000		

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	07/2034 31	08/2034 31	09/2034 30	10/2034 31	11/2034 30	12/2034 31	01/2035 31	02/2035 28	03/2035 31	04/2035 30	05/2035 31	06/2035 30	07/2035 31	08/2035 31	09/2035 30
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123															
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000	15,000	15,000	15,000	15,000											
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000															
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980															
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		07/2034	08/2034	09/2034	10/2034	11/2034	12/2034	01/2035	02/2035	03/2035	04/2035	05/2035	06/2035	07/2035	08/2035	09/2035
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583															
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973															
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000					15,000	15,000	15,000	15,000	15,000	15,000					

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	10/2035 31	11/2035 30	12/2035 31	01/2036 31	02/2036 29	03/2036 31	04/2036 30	05/2036 31	06/2036 30	07/2036 31	08/2036 31	09/2036 30	10/2036 31	11/2036 30	12/2036 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123															
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000															
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000															
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980															
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		10/2035	11/2035	12/2035	01/2036	02/2036	03/2036	04/2036	05/2036	06/2036	07/2036	08/2036	09/2036	10/2036	11/2036	12/2036
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583															
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973															
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000		15,000	15,000	15,000	15,000	15,000	15,000							15,000	15,000

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	01/2037 31	02/2037 28	03/2037 31	04/2037 30	05/2037 31	06/2037 30	07/2037 31	08/2037 31	09/2037 30	10/2037 31	11/2037 30	12/2037 31	01/2038 31	02/2038 28	03/2038 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123															
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000															
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000															
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980															
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		01/2037	02/2037	03/2037	04/2037	05/2037	06/2037	07/2037	08/2037	09/2037	10/2037	11/2037	12/2037	01/2038	02/2038	03/2038
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583															
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973															
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000	15,000	15,000	15,000							15,000	15,000	15,000	15,000	15,000

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	04/2038 30	05/2038 31	06/2038 30	07/2038 31	08/2038 31	09/2038 30	10/2038 31	11/2038 30	12/2038 31	01/2039 31	02/2039 28	03/2039 31	04/2039 30	05/2039 31	06/2039 30
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123															
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420															
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400															
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330															
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75															
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160															
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078															
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000															
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000															
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000															
PARK AND BALANCE																						
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0															
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0															
TF-2																						
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789															
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000															
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789															
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000															
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125															
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489															
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282															
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000																
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077															
GTN																						
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980															
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558															
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200															
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232															
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078															
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984															
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734															

CONTRACT				COST	TERMINATION	RATE		04/2038	05/2038	06/2038	07/2038	08/2038	09/2038	10/2038	11/2038	12/2038	01/2039	02/2039	03/2039	04/2039	05/2039	06/2039
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927															
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189															
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45															
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313															
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75															
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331															
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827															
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662															
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137															
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241															
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248															
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS																						
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126															
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583															
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973															
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602															
SPECTRA																						
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000															
RUBY PIPELINE LLC																						
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000	15,000							15,000	15,000	15,000	15,000	15,000	15,000		

CONTRACT DESCRIPTION	PRINCIPLE RECEIPT	MAJOR DELIVERY	PIPELINE	COST ALLOCATION	TERMINATION DATE	RATE PER DAY ($/DT)	MDQ (DTs)	07/2039 31	08/2039 31	09/2039 30	10/2039 31
TF-1 Contract #100002 April 31, 1991	all rec	all del	NWP	Principal	10/31/2032	0.41000	205123				
Contract #135384 (JP/Bremerton), March 26, 2007	jackson prairie	bremerton/mt vernon	NWP	Washington	10/31/2029	0.24600	30420				
Contract #135558 (Sumas/Prtld), 4/1/2007)	sumas	stanfield/portland west	NWP	system	4/30/2020	0.41000	25400				
Contract 139382 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	6191	6191	6191	6191	6191
Contract 139383 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	1050	1050	1050	1050	1050
Contract 139384 Sumas/Sedro Wooley	sumas	sedro wooley	NWP	Washington	10/31/2050	0.41000	3259	3259	3259	3259	3259
Contract #100134 January 15,1993	sumas/ignacio	burbank/yakima/aberdeen	NWP	Washington	11/30/2019	0.41000	330				
Contract #100149 February 15,1996	sumas/ignacio	walla walla	NWP	Washington	11/30/2019	0.41000	75				
Contract #100150 May 15, 1996	sumas/ignacio	menan starch	NWP	Washington	11/30/2019	0.41000	160				
Contract #100064 May 8, 1995	sumas	hermiston/pasco	NWP	system	3/31/2020	0.41000	1078				
Weyer Release Contract #132329 July 1, 2004	sumas	kern river	NWP	system	1/31/2021	0.41000	5000				
Contract #139090 June 2, 2011	sumas	plymouth/umatilla/bellingham	NWP	system	3/31/2052	0.41000	27063	27063	27063	27063	27063
Contract #139637 Jan 1, 2013	sumas	hermiston/oak harbor/selah	NWP	system	10/31/2050	0.41000	7241	7241	7241	7241	7241
Contract #139630 Sep 1, 2012	stanfield	durkee/pendelton/mission	NWP	Oregon	10/31/2050	0.41000	7,450	7,450	7,450	7,450	7,450
Contract #140047	sumas	bellingham/ferndale	NWP	Washington	10/31/2034	0.41000	15,000				
Contract #140748	Opal	Portland West/Scappoose	NWP	Oregon	3/31/2031	0.41000	1,000				
PARK AND BALANCE											
Clay Basin Park & Loan #135675	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0				
Jackson Prairie Park & Loan #131179	jackson prairie	jackson prairie	NWP	system	12/31/2098	0.00000	0				
Clay Basin Park & Loan #129152	clay basin	clay basin	NWP	system	12/31/2098	0.00000	0				
TF-2											
Contract #100302 TF-2 January 12, 1994	jackson prairie	Stanfield, Wenatchee, Longview, Kennewick	NWP	system	10/31/2019	0.41000	16,789				
Contract #100304 TF-2 January 12, 1994	plymouth	plymouth	NWP	system	10/31/2019	0.41000	60,000				
Jackson Prairie Expansion Precident Agreement # 135365 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2060	0.04056	30,000	30,000	30,000	30,000	30,000
Contract # 100401 SGS-2F	jackson prairie	jackson prairie	NWP	system	10/31/2019	0.03562	16,789				
Contract #100601 LS-2F	plymouth	plymouth	NWP	system	10/31/2019	0.02587	60,000				
Contract #140857 LS-2F	plymouth	plymouth	NWP	system	3/31/2023	0.02587	18,125				
Contract #139627 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	489				
Contract #139624 TF-2	jackson prairie	bellingham	NWP	Washington	3/31/2020	0.41000	282				
Contract #141193 TF-2	plymouth	plymouth	NWP	Washington	3/31/2023	0.41000					
Contract #139622 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2026	0.03562	3,500	3,500	3,500	3,500	3,500
Contract #139626 SGS-2F	jackson prairie	jackson prairie	NWP	system	3/31/2020	0.03562	6,077				
GTN											
2003 Expansion, #17037 (#08488 & #02812 formerly), 5/12/2015	kingsgate	malin	GTN	Oregon	10/31/2028	0.30020	23,980				
Firm Transportation #17019 (#00179, October 7, 1993), 5/12/2015	kingsgate	Spokane NPC	GTN	Oregon	10/31/2023	0.08139	11,558				
Firm Transportation #17021 (#00179, October 7, 1993), 5/12/2015	kingsgate	Kosmos Farm	GTN	Oregon	10/31/2023	0.15229	200				
Firm Transportation #17022 (#00179, October 7, 1993), 5/12/2015	kingsgate	Stanfield City	GTN	Oregon	10/31/2023	0.15711	232				
Firm Transportation #17023 (#00179, October 7, 1993), 5/12/2015	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	2,078				
Firm Transportation #17025 (#00179, October 7, 1993), 5/12/2015	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	2,984				
Firm Transportation #17026 (#00179, October 7, 1993), 5/12/2015	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	2,734				

CONTRACT				COST	TERMINATION	RATE		07/2039	08/2039	09/2039	10/2039
Firm Transportation #17028 (#00179, October 7, 1993), 5/12/2015	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	8,927				
Firm Transportation #17031 (#00179, October 7, 1993), 5/12/2016	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	2,189				
Firm Transportation #17033 (#00179, October 7, 1993), 5/12/2015	kingsgate	LaPine	GTN	Oregon	10/31/2023	0.24441	45				
Firm Transportation #17034 (#00179, October 7, 1993), 5/12/2015	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	313				
Firm Transportation #17036 (#00179, October 7, 1993), 5/12/2015	kingsgate	Chemult	GTN	Oregon	10/31/2023	0.25983	75				
Firm Transportation #17023 (#00152 ,December 1, 1997)	kingsgate	Madras	GTN	Oregon	10/31/2023	0.21240	331				
Firm Transportation #17025 (#00152 ,December 1, 1997)	kingsgate	Prineville	GTN	Oregon	10/31/2023	0.21967	827				
Firm Transportation #17026 (#00152 ,December 1, 1997)	kingsgate	Redmond	GTN	Oregon	10/31/2023	0.22462	662				
Firm Transportation #17028 (#00152 ,December 1, 1997)	kingsgate	Bend	GTN	Oregon	10/31/2023	0.23165	4,137				
Firm Transportation #17031 (#00152 ,December 1, 1997)	kingsgate	Stearns	GTN	Oregon	10/31/2023	0.23802	1,241				
Firm Transportation #17034 (#00152 ,December 1, 1997)	kingsgate	Gilchrist	GTN	Oregon	10/31/2023	0.25181	248				
Firm Backhaul Transportation #12094/13687 4/1/2018 - 10/31/2039	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.14293	10,000	10,000	10,000	10,000	10,000
Firm Backhaul Transportation #13688 11/1/14 - 10/31/39	turqouise flats	stanfield	GTN	Oregon	10/31/2039	0.17867	5,000	5,000	5,000	5,000	5,000
NOVA AND FOOTHILLS											
2002 Service Agreement (CNG FS-2)	AB/C border	kingsgate	FOOTHILLS	Oregon	11/1/2017	0.07600	3,126				
Service Agreement (ANG) September 11, 2001 (#CNG FS-3)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2028	0.07600	21,583				
Service Agreement (NOVA) September 4, 2001 (#2003039348-1)	NIT	AB/C border	NOVA	Oregon	10/31/2028	0.15910	21,973				
FS-1 Transportation (ANG) June 12, 1991 (CNG FS-1)	AB/C border	kingsgate	FOOTHILLS	Oregon	10/31/2023	0.07600	7,602				
SPECTRA											
Westcoast Service Agreement January 3, 2002 (#FI-2583-B-00)	station 2	huntingdon	WESTCOAST	Washington	10/31/2019	0.48330	20,000				
RUBY PIPELINE LLC											
Firm Service Agreement #61036000B, November 1, 2014	pearl creek	turqouise flats	RUBY	system	10/31/2039	0.75000	15,000				

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario KEY ELEMENTS IN SENDOUT SCENARIO			NPV 20 Year Costs in $000s	Average Cost Per Therm ($/Therm)	Unserved Demand (therms)	Served Demand (therms)	Class of Unserved Demand
As Is	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,213,446.21	0.595105	5,915,600	7,080,168,900	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					104 Com-2668208.09
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					105 Ind-549324
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					111 Com/Ind-83601.89
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					170 Int-253564.54
	NWP Wen EXP	***Aeco Hub Storage***						502 Res-0
	Incremental Foothills							504 Com-547195.82
	NWP Z20 EXP							505 Ind-989666.49
	Incremental GTN STARRD							511 Com/Ind-456282.84
	T-South-So Crossing							570 Int-352620.13
	TRAIL MAX/N-MAX							577 Int-15178.24
	NWP East OR EXP							
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario KEY ELEMENTS IN SENDOUT SCENARIO			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
Incrm Transport	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,085,782.37	0.576625	403,084	7,085,681,431	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							502 Res-0
	Incremental GTN STARRD							505 Ind-327414.89
	T-South-So Crossing							511 Com/Ind-51442.9
	TRAIL MAX/N-MAX							570 Int-21970.94
	NWP East OR EXP							577 Int-2251.36
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario KEY ELEMENTS IN SENDOUT SCENARIO			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
Incrm Storage & Transport	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,085,782.38	0.576625	403,084	7,085,681,431	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
								170 Int-17513.76
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					502 Res-0
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					505 Ind-327414.89
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					511 Com/Ind-51442.9
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					570 Int-6708.53
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							
	Incremental GTN STARRD							
	T-South-So Crossing							
	TRAIL MAX/N-MAX							
	NWP East OR EXP							
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
All In	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,085,938.69	0.576617	27,364	7,086,057,150	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-1121.52
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-23987.56
	NWP East OR EXP							577 Int-2251.36
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
Expected	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,073,121.20	0.574808	27,364	7,086,057,150	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-14235.93
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-10873.15
	NWP East OR EXP							577 Int-2251.36
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Low Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
Expected - Low Growth	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	3,822,847.79	0.585631	0	6,527,743,576	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							-
	Incremental GTN STARRD							-
	T-South-So Crossing							-
	TRAIL MAX/N-MAX							-
	NWP East OR EXP							-
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO High Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
Expected - High Growth	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,360,342.68	0.565744	396,153	7,707,275,251	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-61804.16
	Incremental GTN STARRD							505 Ind-184142.76
	T-South-So Crossing							511 Com/Ind-14727.29
	TRAIL MAX/N-MAX							570 Int-127681.43
	NWP East OR EXP							577 Int-7794.67
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario KEY ELEMENTS IN SENDOUT SCENARIO			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
Limit BC BLUE TEXT = 20% OF ALL IN SUPPLY AVAILABLE	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,365,403.75	0.616162	1,253,186	7,084,831,328	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-398592.23
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-3138.14
	TRAIL MAX/N-MAX							570 Int-812019.44
	NWP East OR EXP							577 Int-39432.87
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
Limit Alberta BLUE TEXT = 20% OF ALL IN SUPPLY AVAILABLE	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,371,551.69	0.616927	78,577	7,086,005,937	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-78573.69
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-0
	NWP East OR EXP							577 Int-0
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario KEY ELEMENTS IN SENDOUT SCENARIO			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
Limit Canada BLUE TEXT = 20% OF ALL IN SUPPLY AVAILABLE	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	5,086,396.32	0.717936	1,330,929	7,084,753,585	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-477165.92
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-3138.14
	TRAIL MAX/N-MAX							570 Int-811188.64
	NWP East OR EXP							577 Int-39432.87
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	Medium Load Growth, Medium Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario							
	KEY ELEMENTS IN SENDOUT SCENARIO							
Limit Rockies BLUE TEXT = 20% OF ALL IN SUPPLY AVAILABLE	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,123,937.39	0.581983	74,732	7,086,009,783	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-22015.29
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-48291.65
	NWP East OR EXP							577 Int-4420.85
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Low Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
All In - Price Determined using 20 year forecast low scenario	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,000,318.06	0.564533	16,154	7,086,068,361	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-8787.1
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-5680.4
	NWP East OR EXP							577 Int-1682.55
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Hi Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
All In - Price Determined using 20 year forecast Hi scenario	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,151,112.36	0.585814	27,364	7,086,057,150	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-11769.96
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-13339.12
	NWP East OR EXP							577 Int-2251.36
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Low Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
All In - Price Determined using lowest MC draw	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	3,723,480.62	0.525465	15,534	7,086,068,980	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-11664.09
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-3866.57
	NWP East OR EXP							577 Int-0
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Low Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
All In - Price Determined using lowest draw per month	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	3,179,913.88	0.448755	0	7,086,084,511	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							
	Incremental GTN STARRD							N/A
	T-South-So Crossing							
	TRAIL MAX/N-MAX							
	NWP East OR EXP							
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, High Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
All In - Price Determined by using Highest Draw	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,121,819.83	0.581684	67,621	7,086,016,894	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-21009.76
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-44355.69
	NWP East OR EXP							577 Int-2251.36
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, High Gas Price Forecast, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
All In - Price Determined using highest draw per month	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,801,535.28	0.677610	99,951	7,085,984,563	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-30258.34
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-65213.64
	NWP East OR EXP							577 Int-4475.43
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	Medium Load Growth, Medium Gas Price Forecast, Low weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario							
	KEY ELEMENTS IN SENDOUT SCENARIO							
All In - Weather Determined using lowest draw	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,055,874.80	0.579442	280,870	6,999,623,562	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-0
	Incremental GTN STARRD							504 Com-58022.44
	T-South-So Crossing							505 Ind-140425.33
	TRAIL MAX/N-MAX							511 Com/Ind-71341.32
	NWP East OR EXP							570 Int-11078.53
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast, High weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
All In - Weather Determined using highest draw	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,123,292.90	0.577168	1,297,631	7,144,003,659	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-0
	Incremental GTN STARRD							504 Com-366426.57
	T-South-So Crossing							505 Ind-699161.65
	TRAIL MAX/N-MAX							511 Com/Ind-196444.84
	NWP East OR EXP							570 Int-35595.21
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast w/ 10% Carbon Adder, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
Expected - 10% Carbon Adder	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,203,755.06	0.593243	27,364	7,086,057,150	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-21009.76
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-6350.68
	NWP East OR EXP							577 Int-0
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast w/ 20% Carbon Adder, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
Expected - 20% Carbon Adder	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,318,705.48	0.609467	51,818	7,086,032,697	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-21009.76
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-28552.61
	NWP East OR EXP							577 Int-2251.36
	Incremental GTN S-N							
	Pacific Connector							

SCENARIO NAME	KEY ELEMENTS IN SENDOUT SCENARIO Medium Load Growth, Medium Gas Price Forecast w/ 30% Carbon Adder, Average weather with Peak Event. All elements considered. All items in **RED** mean those elements were excluded from the scenario			NPV 20 Year Costs in $000s	Average Cost Per Therm	Unserved Demand	Served Demand	Class of Unserved Demand
	KEY ELEMENTS IN SENDOUT SCENARIO							
Expected - 30% Carbon Adder	**Current Station2**	**JP1**	**AECO Base/Fixed, Winter, Day W/S, Peak**	4,421,042.31	0.623911	67,621	7,086,016,894	
	Current NOVA	**JP2**	**SUMAS Base/Fixed, Winter, Day W/S, Peak**					
	Current GTN	**JP3**	**ROCKIES Base/Fixed, Winter, Day W/S, Peak**					
	Current NWP	**JP4**	**HUNT Base/Fixed, Winter, Day W/S**					
	Current Foothills	**PLY-1**	**KINGSGATE BASE**					
	Current Ruby	**PLY-2**	**OPAL BASE**					
			KERN WINTER					
			STAT2 BASE					
	Incremental NOVA	***Ryckman Crk Storage***	***Kern Incrm Supply***					
	Incremental GTN	***Gill Ranch Storage***	***BioNatualGas***					
	NWP I-5 EXP	***Mist Storage***	***Satellite LNG***					
	Incremental Ruby	***Wild Goose Storage***	***Resource Mix - 3 Basins***					
	NWP Wen EXP	***Aeco Hub Storage***						
	Incremental Foothills							
	NWP Z20 EXP							170 Int-21009.76
	Incremental GTN STARRD							502 Res-0
	T-South-So Crossing							505 Ind-0
	TRAIL MAX/N-MAX							570 Int-44355.69
	NWP East OR EXP							577 Int-2251.36
	Incremental GTN S-N							
	Pacific Connector							

Appendix F

Capacity Requirements & Peak Day Planning

UG-160453

Introduction

The purpose of this document is to illustrate the flexibility of Cascade's system, and to identify where Cascade needs to pick up incremental transportation rights.

Cascade can realign some of the transportation Maximum Daily Delivery Obligation(s)(MDDOs) in the Company's contracts to Citygates in the same zone so long as the contract doesn't specify a specific Citygate where the gas needs to flow.

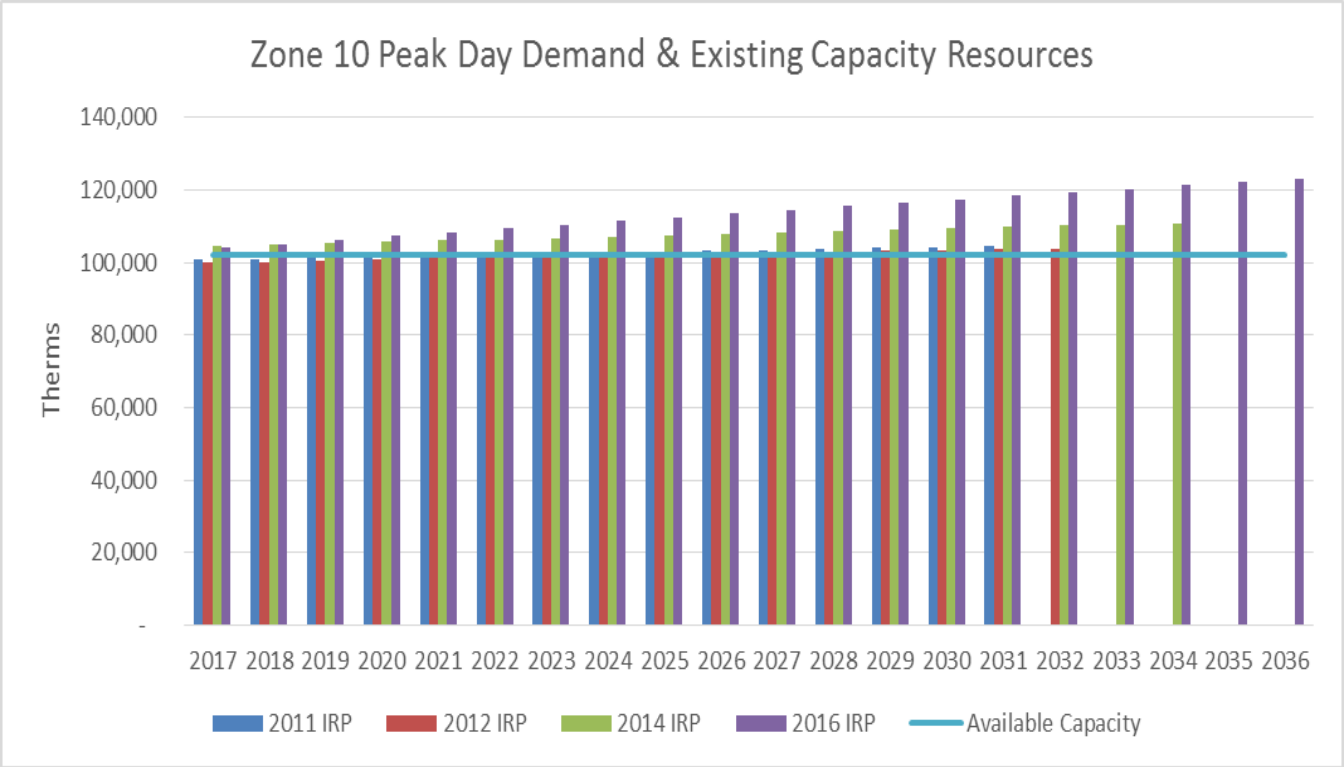
In the first series of charts, below, the company compares the forecasted demand at the zonal level in the past four IRPs to the current available transportation capacity. The Company also aggregates the gates by Zone, by state, and finally the entire system. This is shown in the second series of charts which analyzes each of the Citygates in Oregon and Washington. In these charts, the green bars indicate what the company forecasts demand to be in a peak day environment for a 20 year time horizon. The gray line shows how many Therms can contractually be moved to that area with location-specific MDDOs. The orange line shows the total amount of Therms that are utilized by realigning certain contracts that do not specify a fixed location where the Therms need to go, and adding those MDDOs to the fixed contracts. These flexible contracts are assigned using the company's optimization software, SENDOUT. Finally, the blue line illustrates how much demand Cascade can serve by adding incremental transportation agreements to its existing transportation portfolio. The space between the blue line and orange line, if any, shows exactly how much additional transport the company believes will need to be acquired, and when it needs to be picked up.

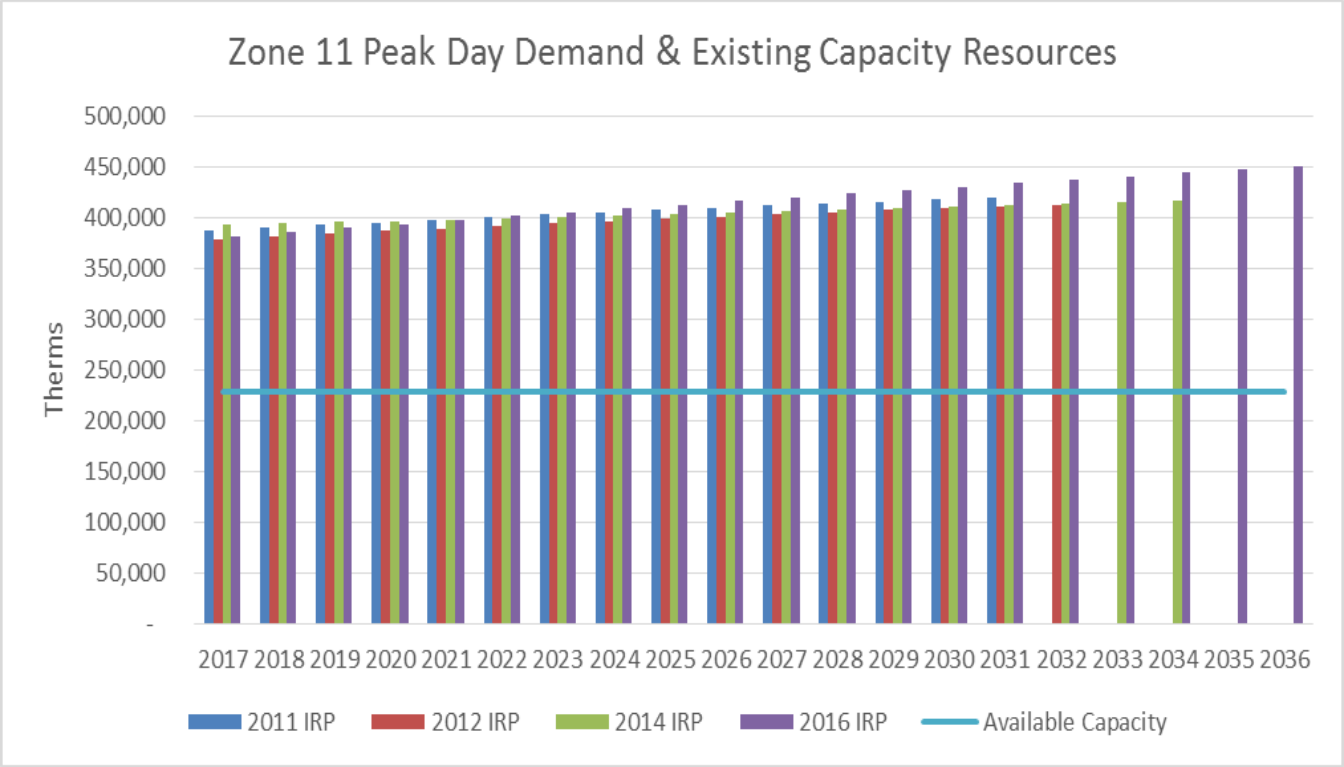
As mentioned above, Cascade has the ability to realign certain MDDOs on the zonal level to help serve demand in areas where there is not a direct contract to that citygate. To that end, certain citygates within Northwest Pipeline (NWP) will utilize MDDOs above or below their contracted level. Some examples of this are shown below:

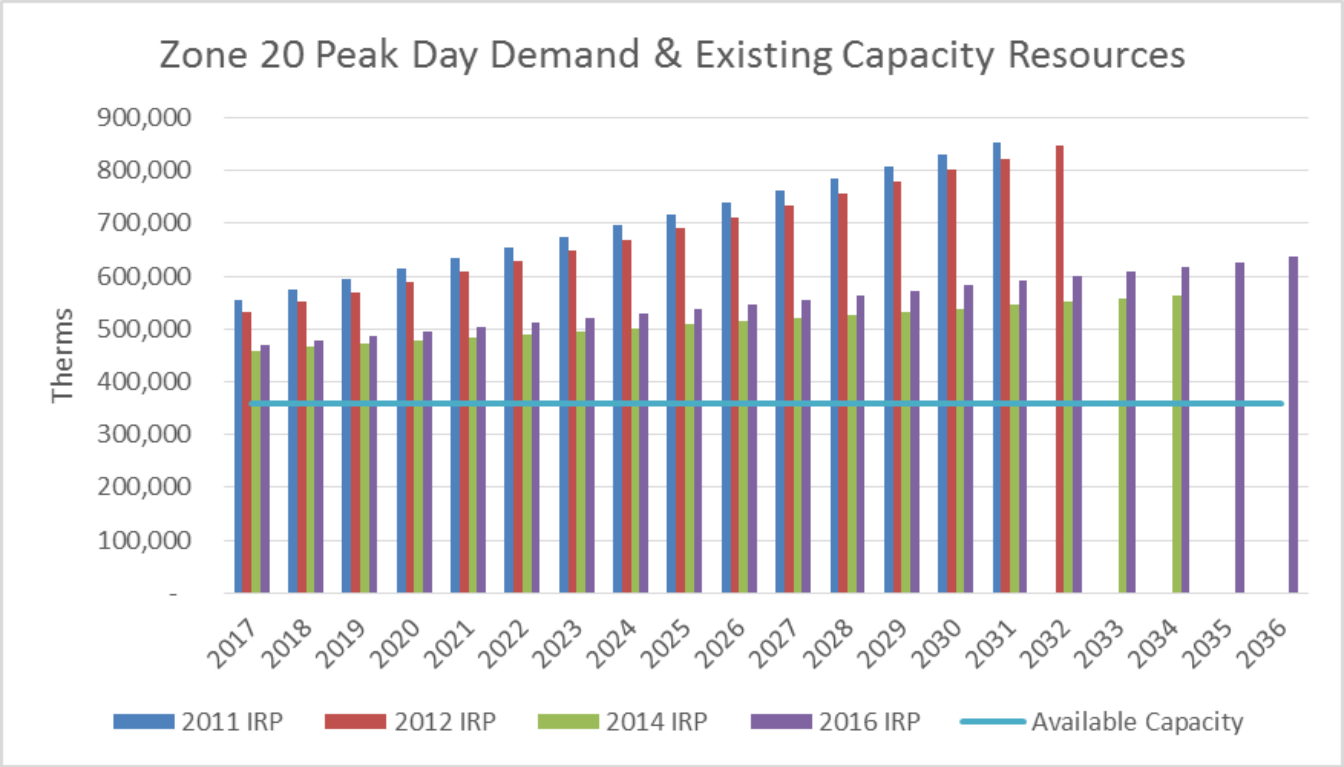
-Citygates where Utilized MDDOs are below contracted MDDOs: This occurs when the company has the capacity to send more gas to a citygate than what they project is needed over the 20 year planning horizon. Ideally, this transportation capacity is moved to another citygate within that zone, but in certain situations these MDDOs are unable to be utilized if they are not needed elsewhere. Examples: Kalama #1&2, Dehawn Dairy, Milton-Freewater.

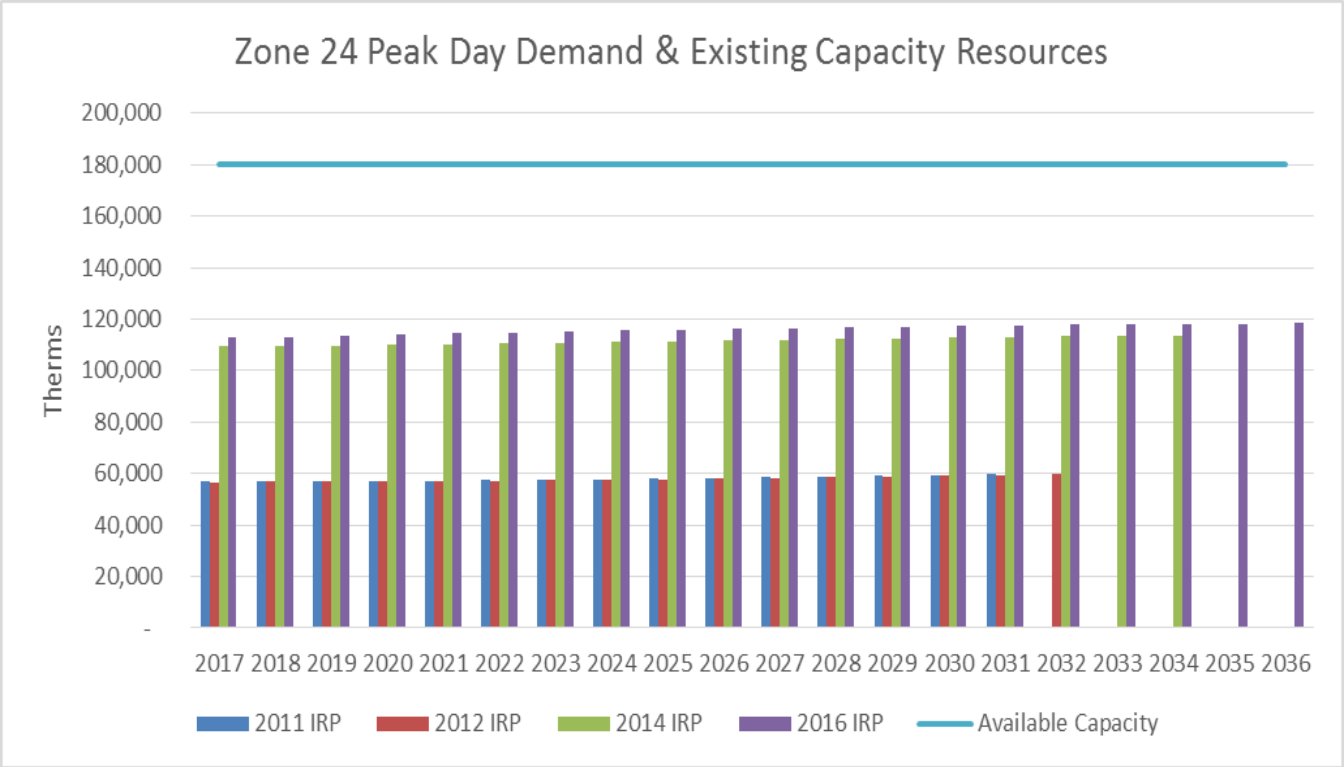
-Citygates where Utilized MDDOs are above Contracted MDDOs: This occurs when the company projects that there is not enough capacity in existing contracts to serve projected demand over the 20 year planning horizon, but there is excess capacity at a citygate within the same zone. It is important to distinguish that this is not an acquisition of additional capacity, but a realignment of excess capacity within the same zone. Examples:7th day school, North Pasco, Sunnyside

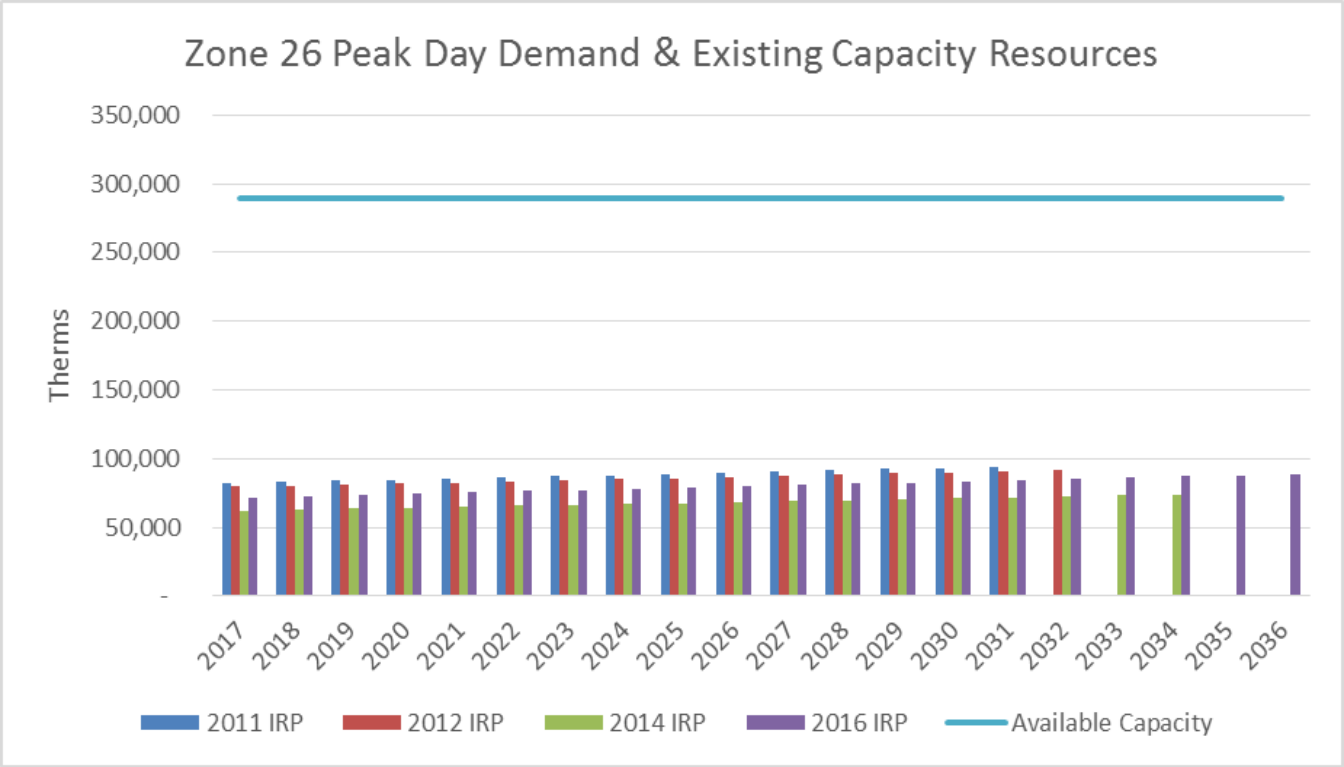
-Citygates where Utilized MDDOs are both above and below Contracted MDDOs: In certain situations, a citygate may start the planning horizon with excess capacity, but grow to a point where Cascade expects a shortfall with current contracts. In these circumstances the company illustrates the citygate first sharing the excess MDDOs with other locations that need it, but later pulling capacity from other areas with excess transportation contracts. Examples: Burbank Heights, Grandview, LDS church.

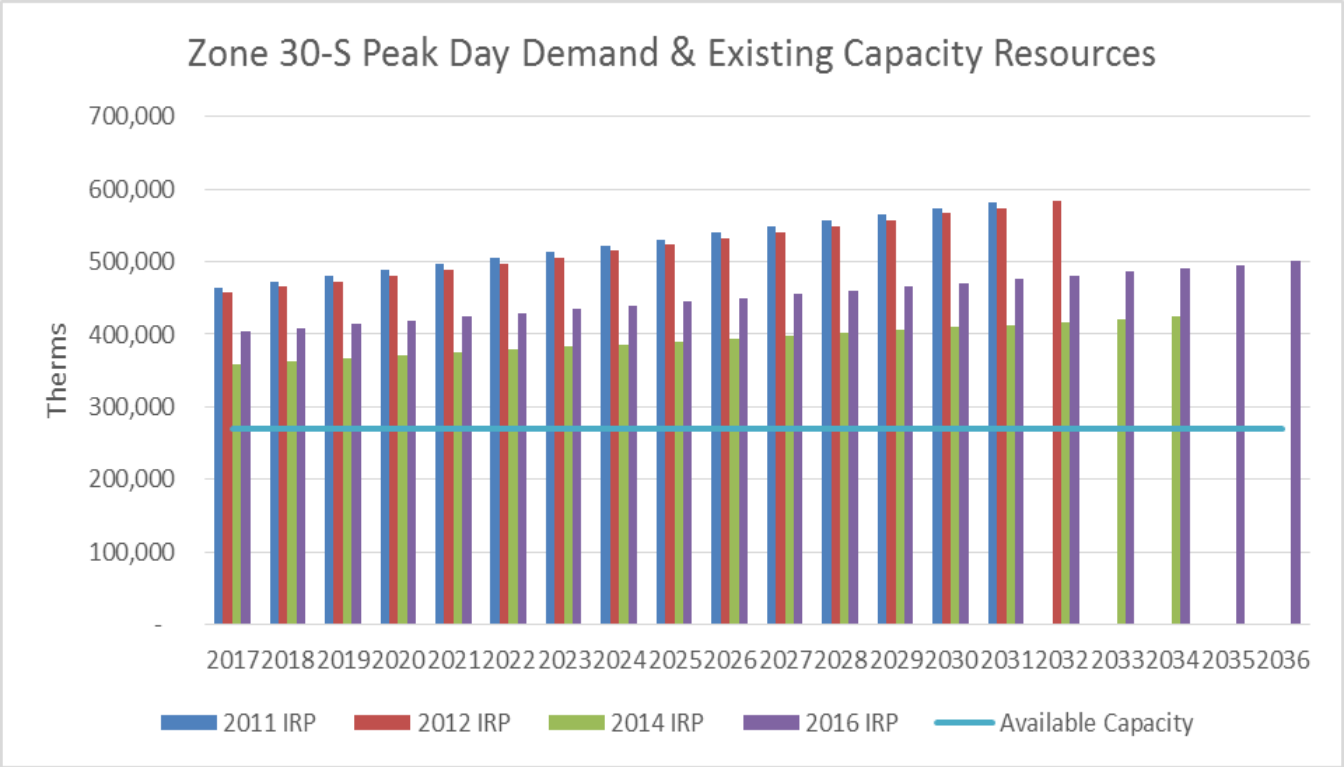

Zone 10 Peak Day Demand & Existing Capacity Resources
Therms
140,000
120,000
100,000
80,000
60,000
40,000
20,000
-
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

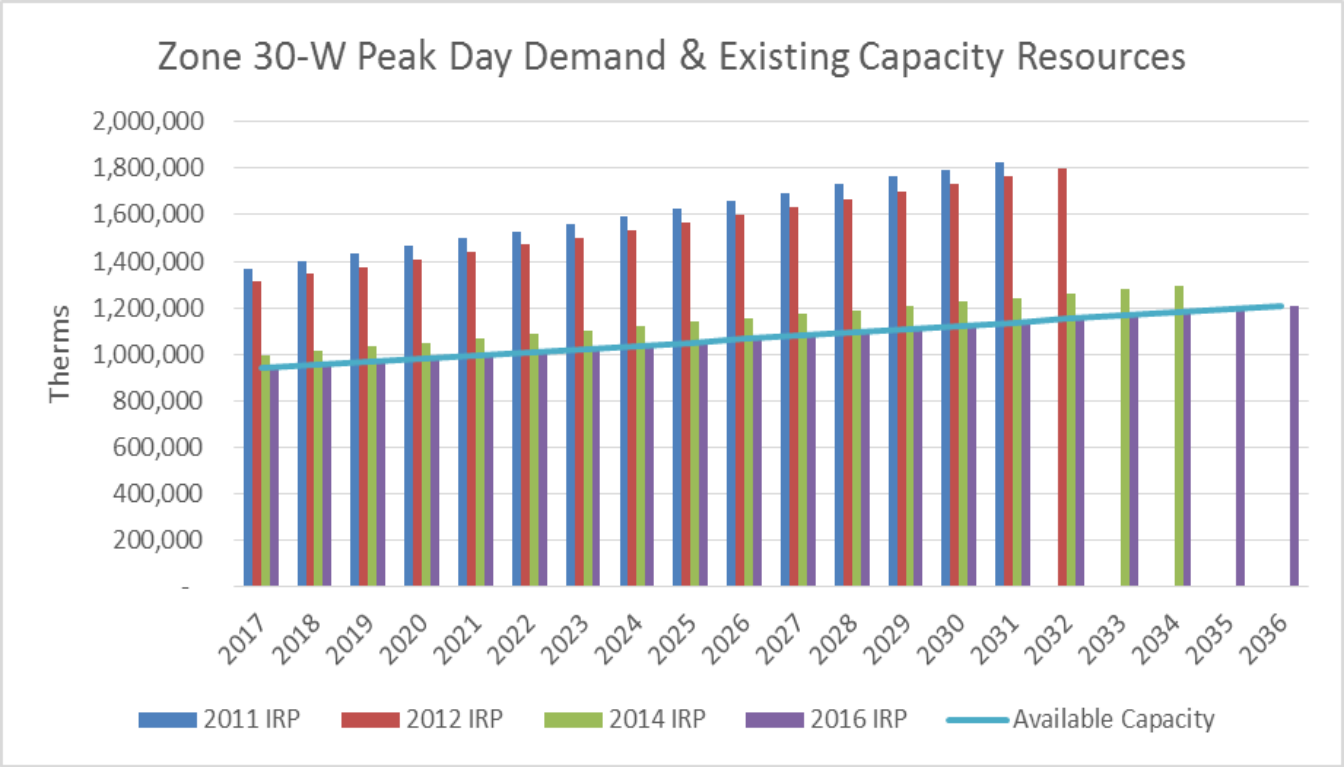

Zone 11 Peak Day Demand & Existing Capacity Resources
Therms
500,000
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

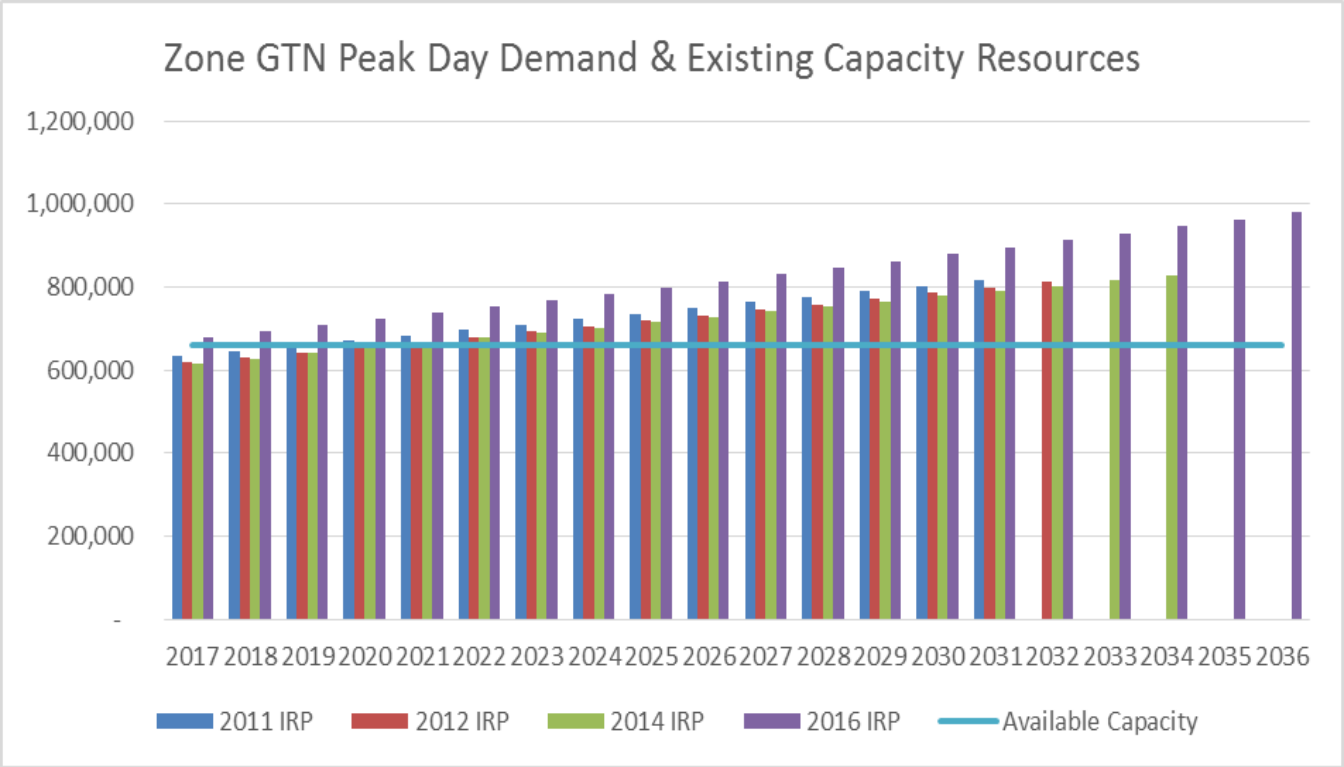

Zone 20 Peak Day Demand & Existing Capacity Resources
Therms
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
-
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

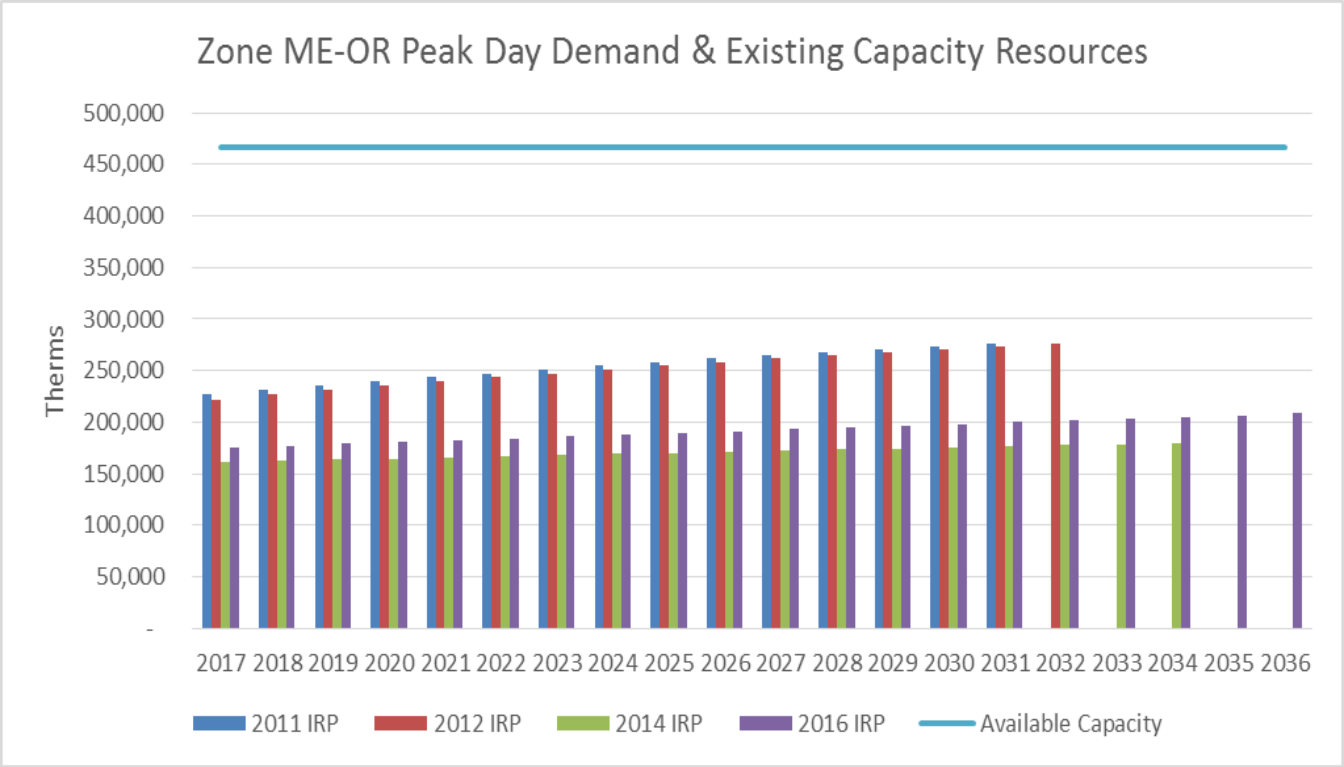

Zone 24 Peak Day Demand & Existing Capacity Resources
Therms
200,000
180,000
160,000
140,000
120,000
100,000
80,000
60,000
40,000
20,000
-
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

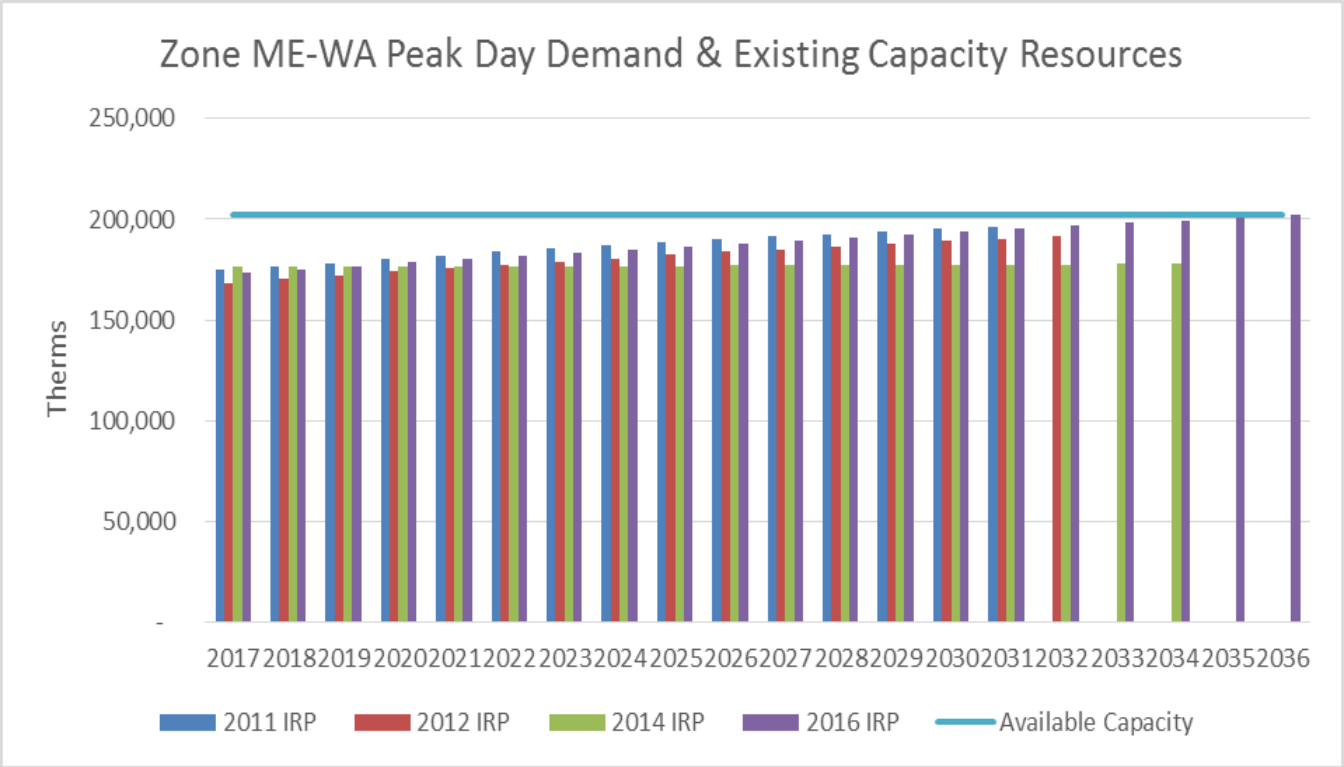

Zone 26 Peak Day Demand & Existing Capacity Resources
Therms
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

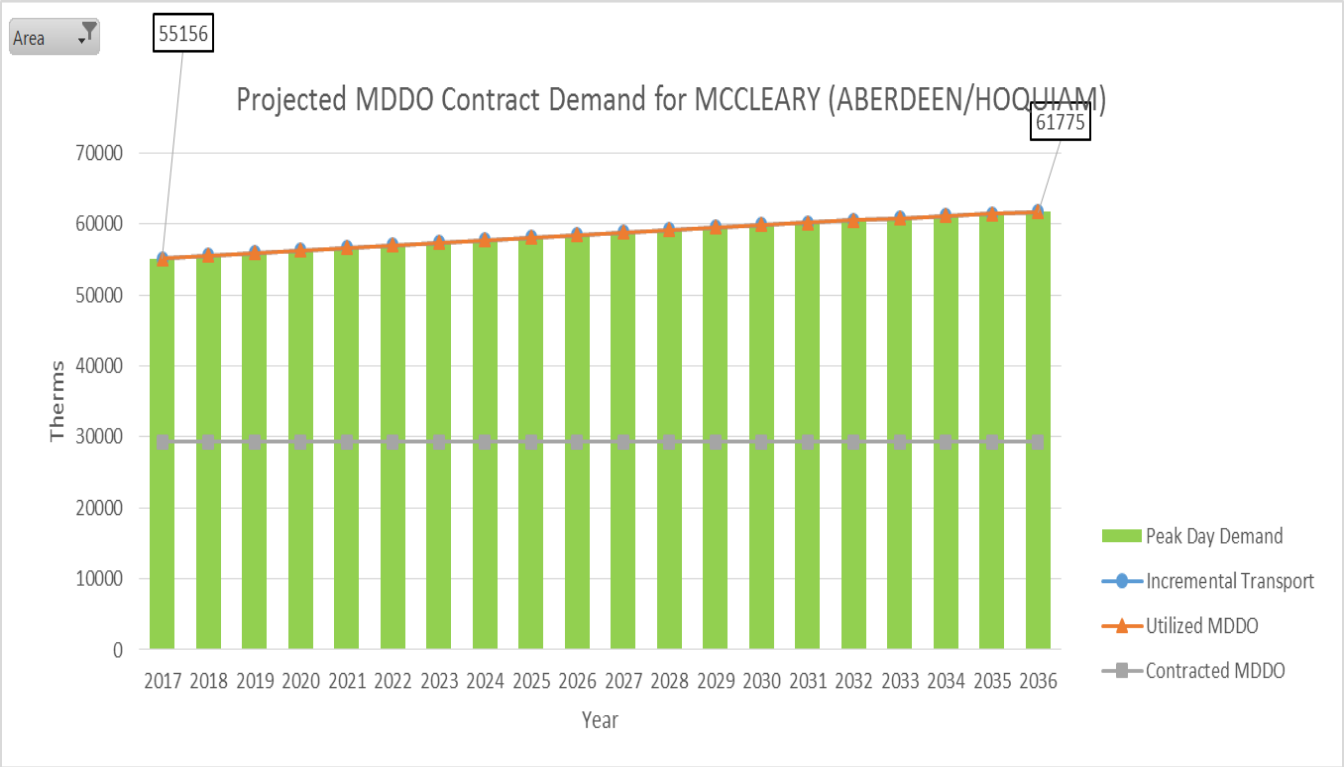

Zone 30-S Peak Day Demand & Existing Capacity Resources
Therms
700,000
600,000
500,000
400,000
300,000
200,000
100,000
-
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

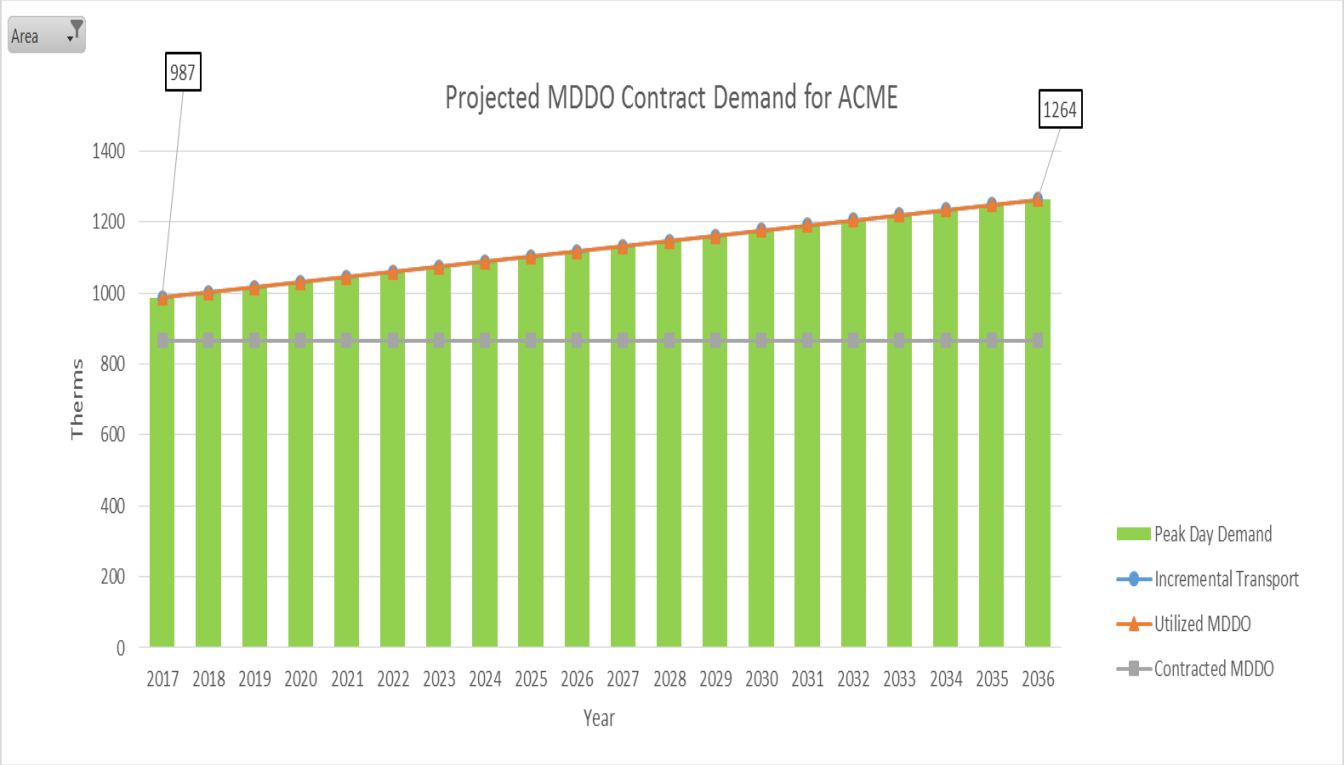

Zone 30-W Peak Day Demand & Existing Capacity Resources
Therms
2,000,000
1,800,000
1,600,000
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
-
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

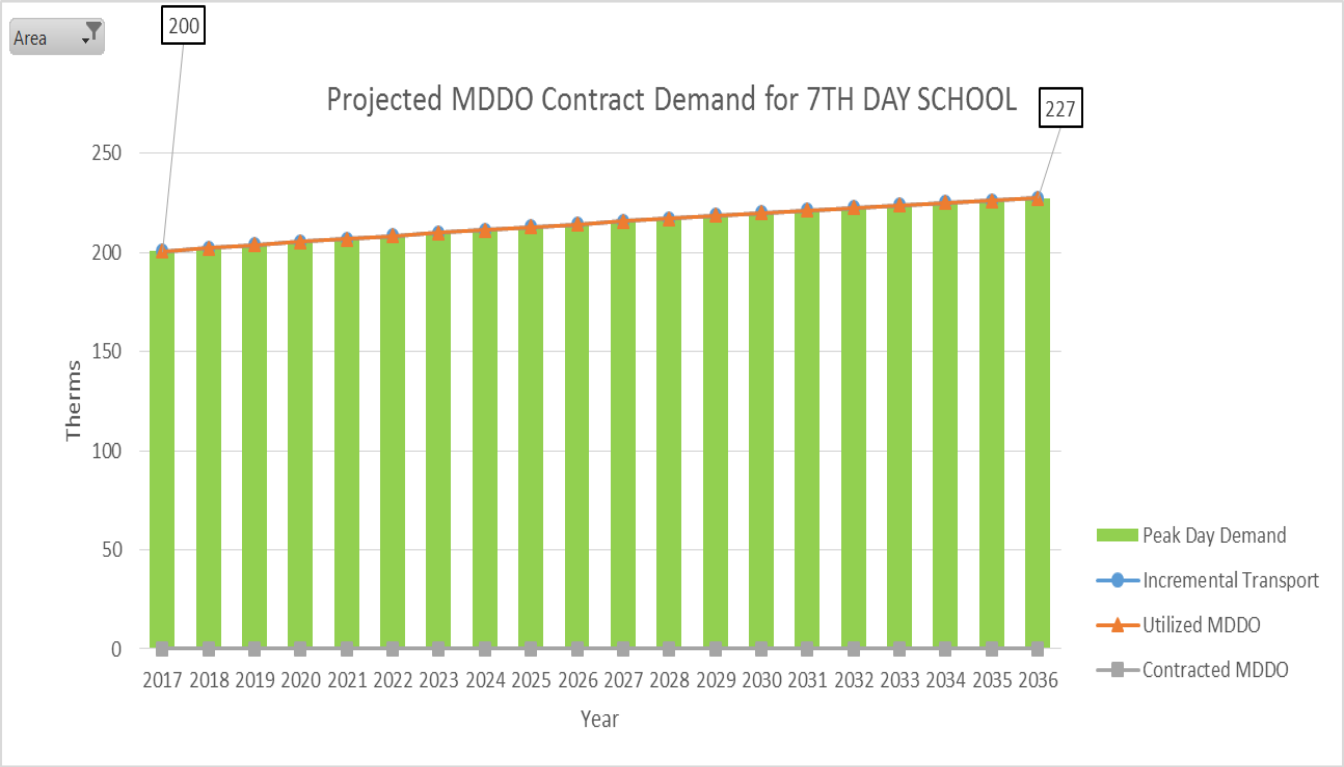

Zone GTN Peak Day Demand & Existing Capacity Resources
1,200,000
1,000,000
800,000
600,000
400,000
200,000
-
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

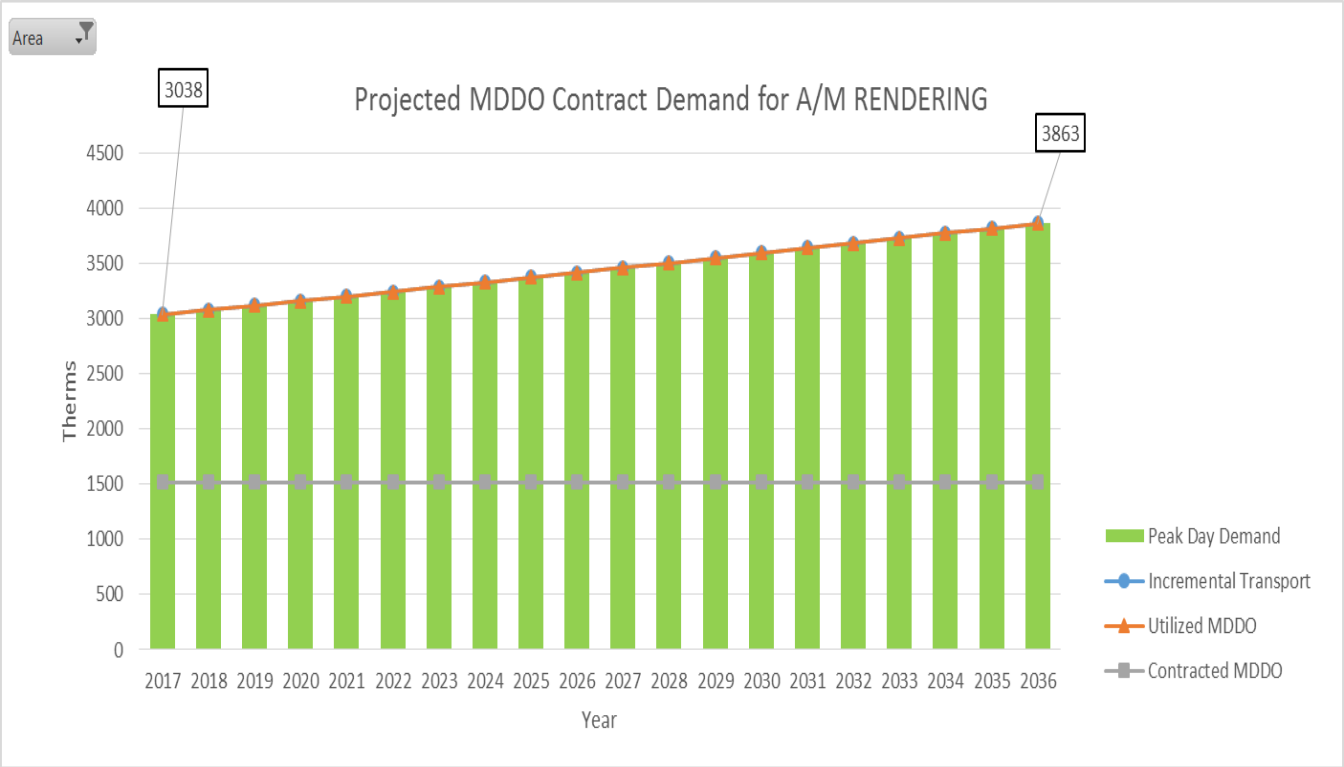

Zone ME-OR Peak Day Demand & Existing Capacity Resources
Therms
500,000
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

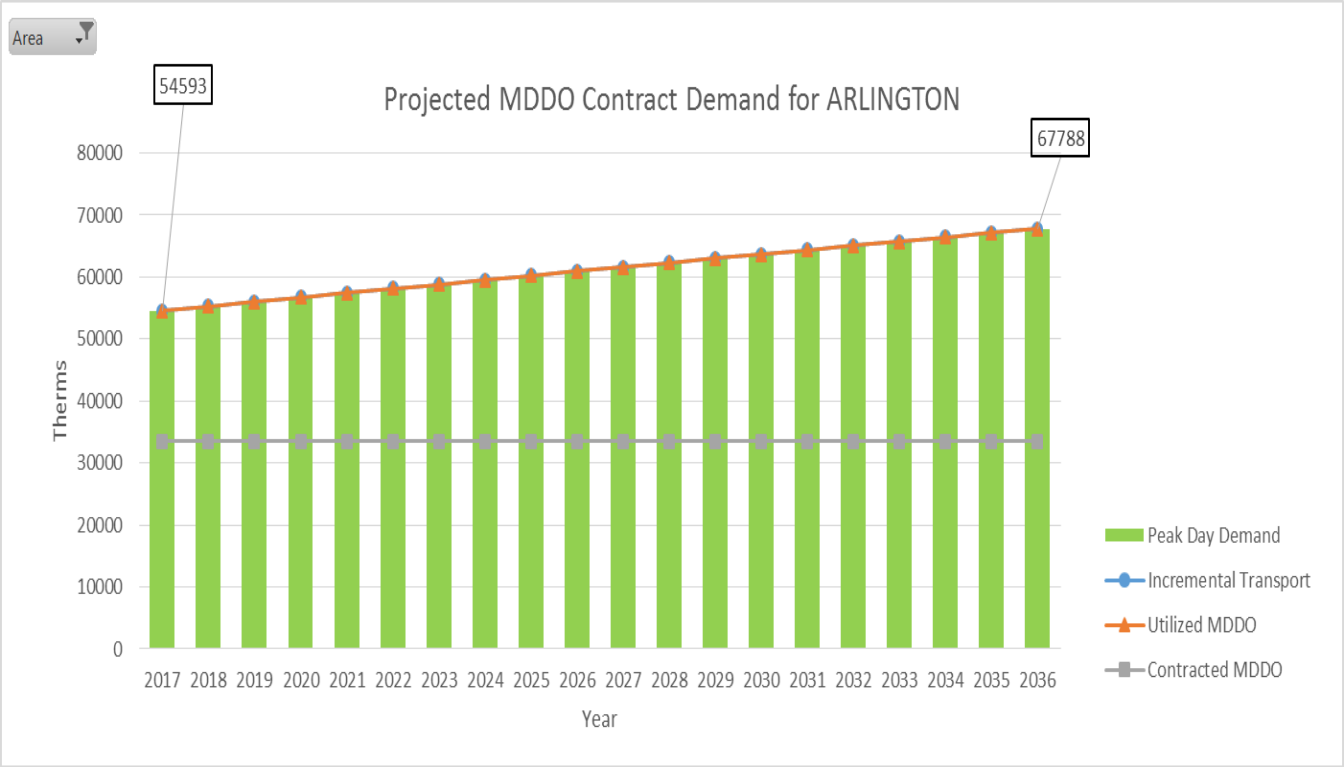

Zone ME-WA Peak Day Demand & Existing Capacity Resources
Therms
250,000
200,000
150,000
100,000
50,000
-
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
2011 IRP
2012 IRP
2014 IRP
2016 IRP
Available Capacity

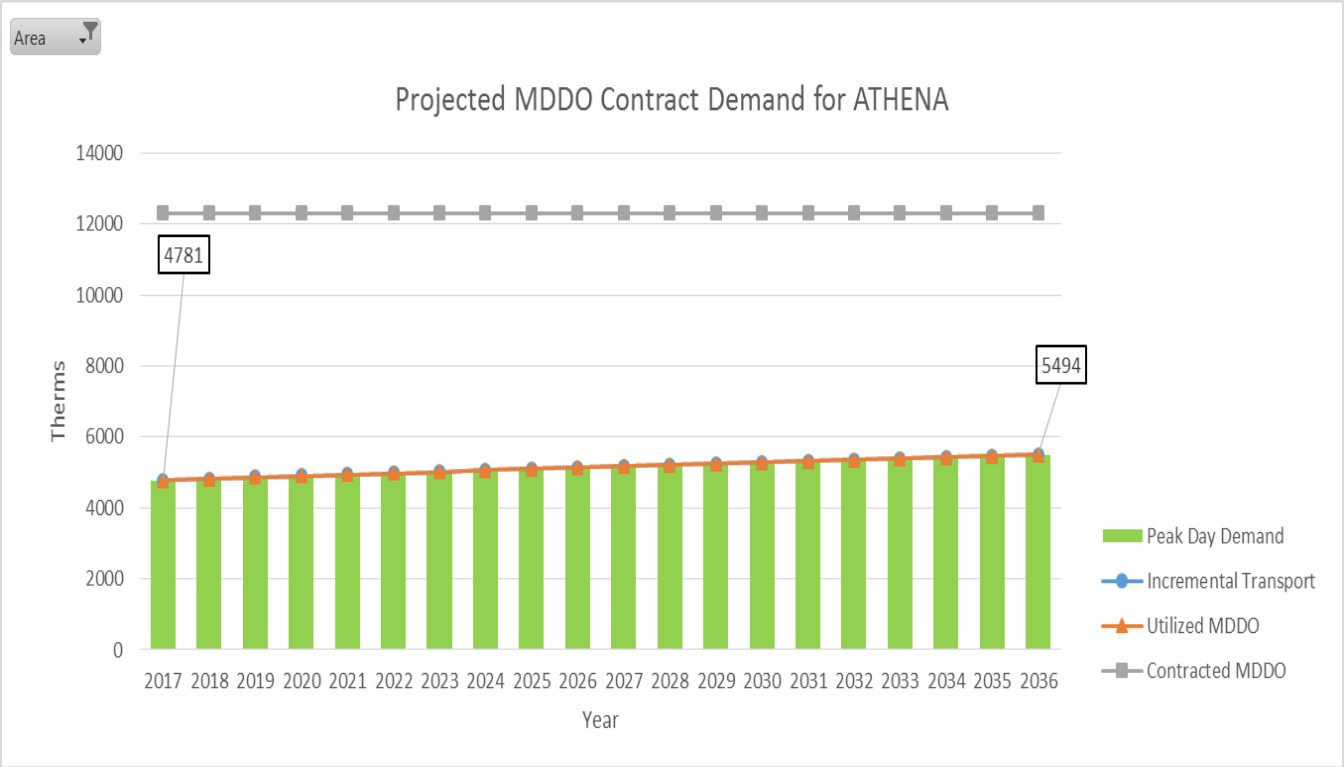

Area
55156
Projected MDDO Contract Demand for MCCLEARY (ABERDEEN/HOQUIAM)
61775
70000
60000
50000
40000
30000
20000
10000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

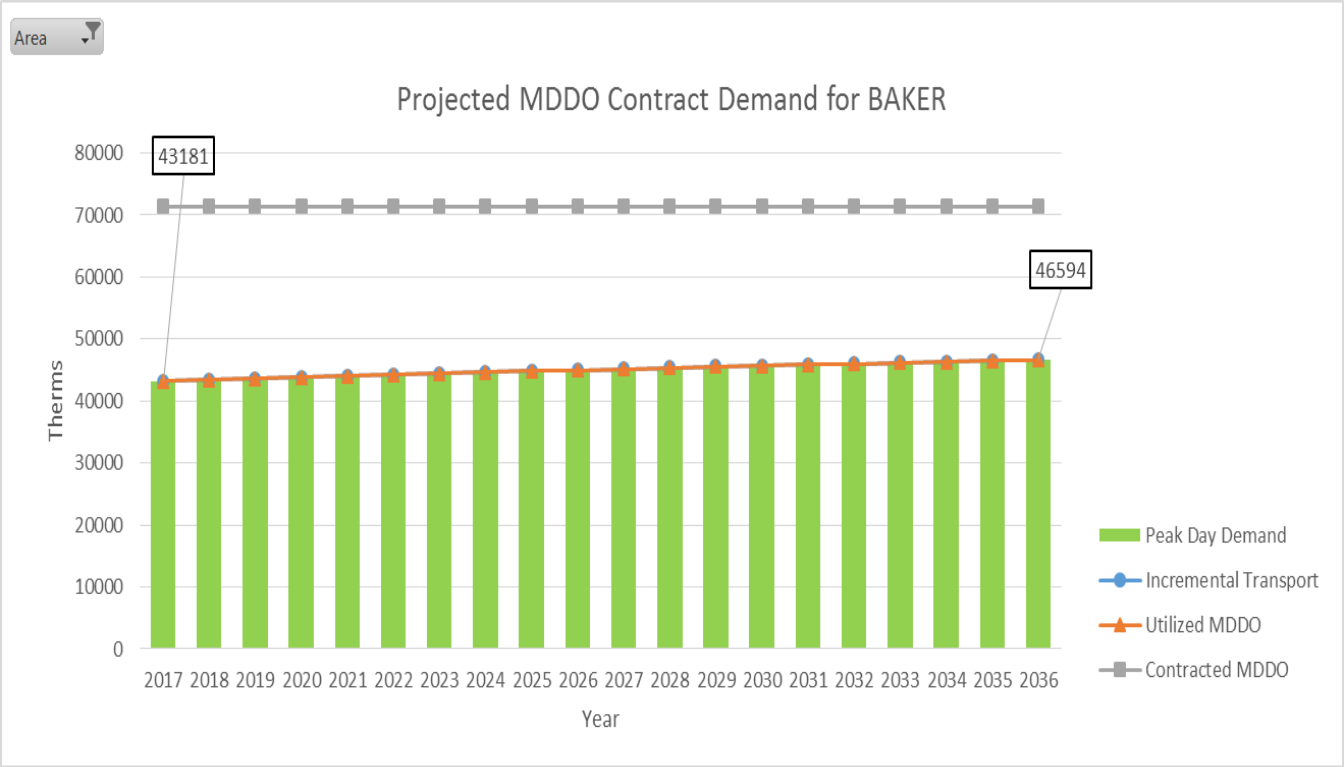

Area
987
Projected MDDO Contract Demand for ACME
1264
1400
1200
1000
800
600
400
200
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

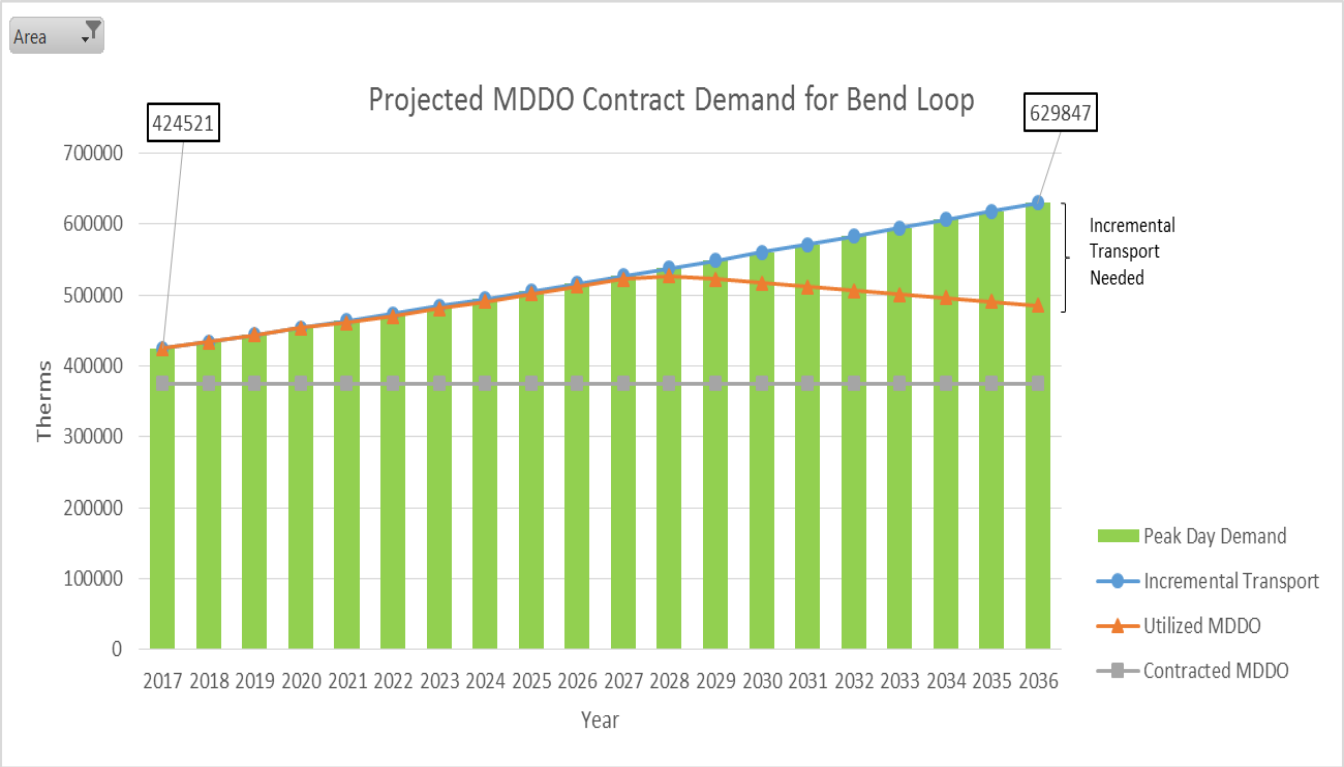

Area
200
Projected MDDO Contract Demand for 7TH DAY SCHOOL
227
250
200
150
100
50
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

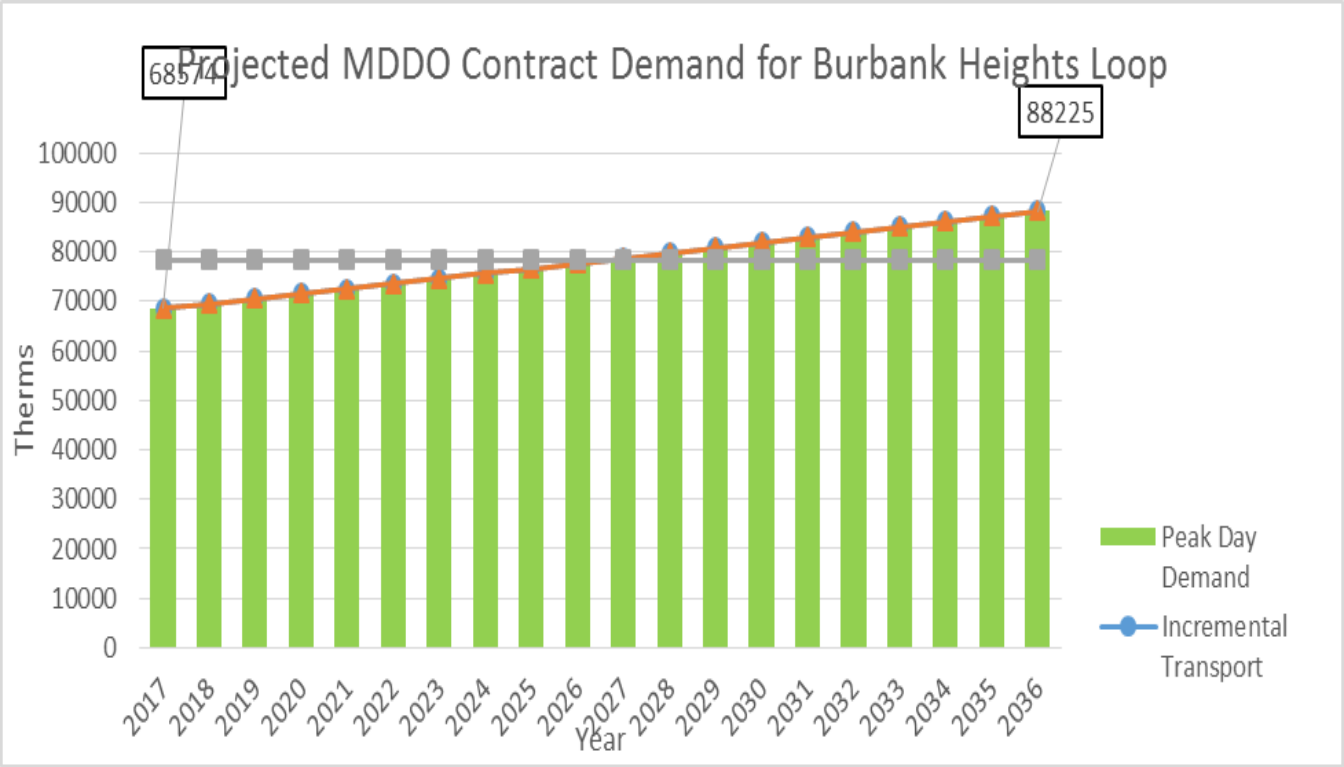

Area
3038
Projected MDDO Contract Demand for A/M RENDERING
3863
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

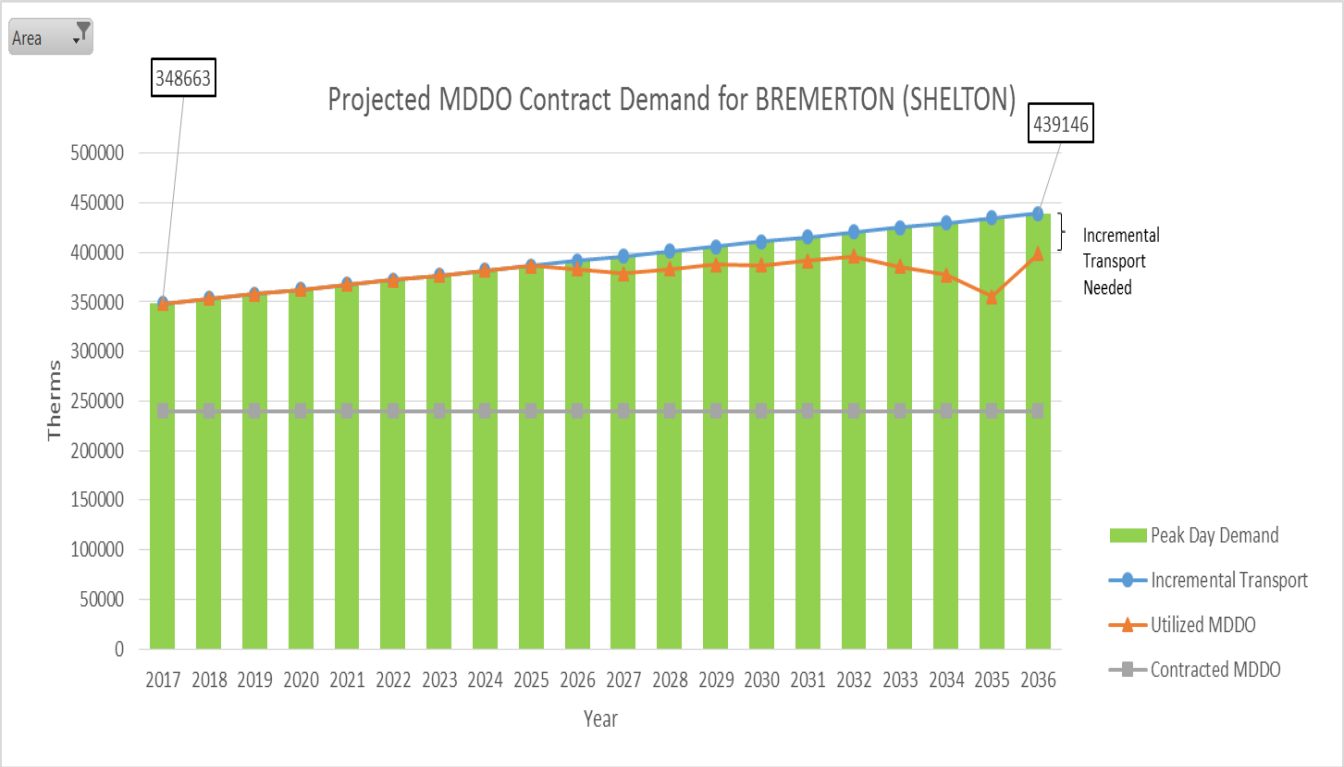

Area
Projected MDDO Contract Demand for ARLINGTON
54593
67788
80000
70000
60000
50000
40000
30000
20000
10000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

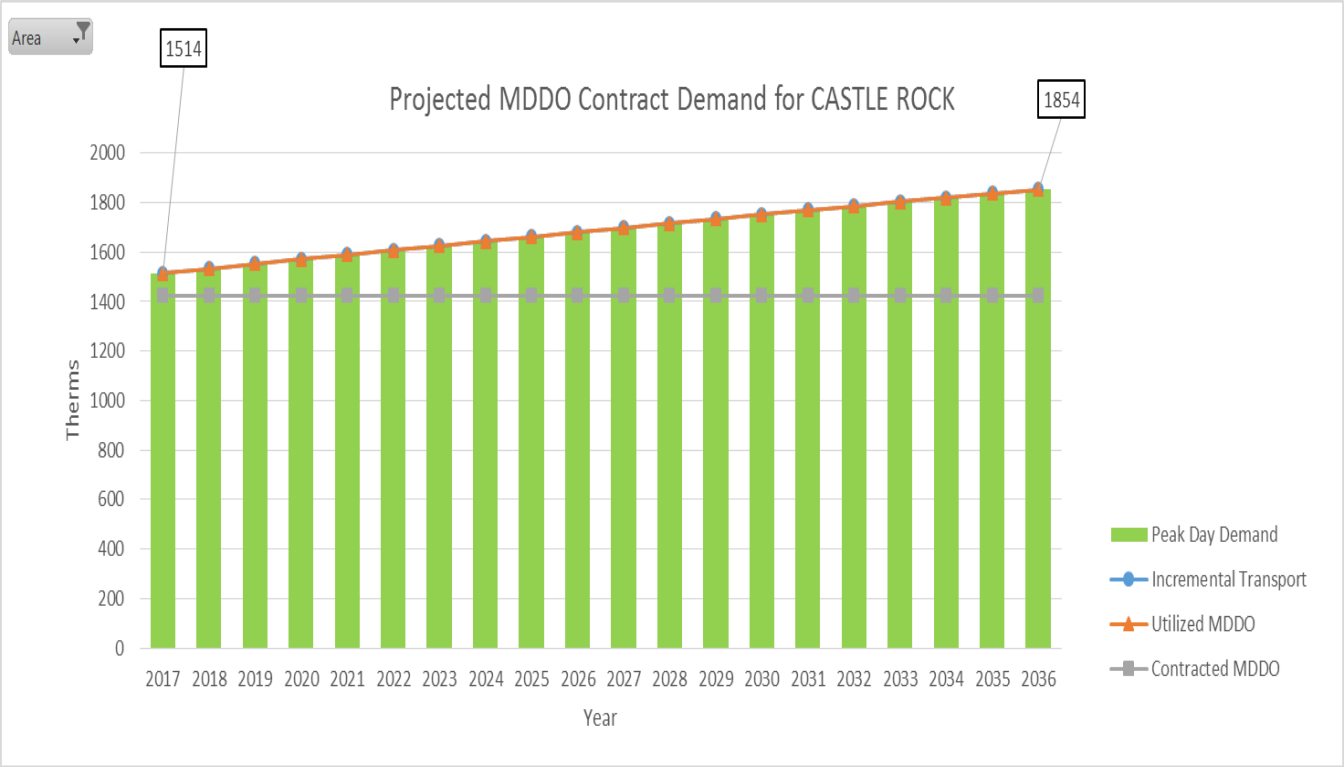

Area
Projected MDDO Contract Demand for ATHENA
14000
12000
10000
8000
6000
4000
2000
0
Therms
4781
5494
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

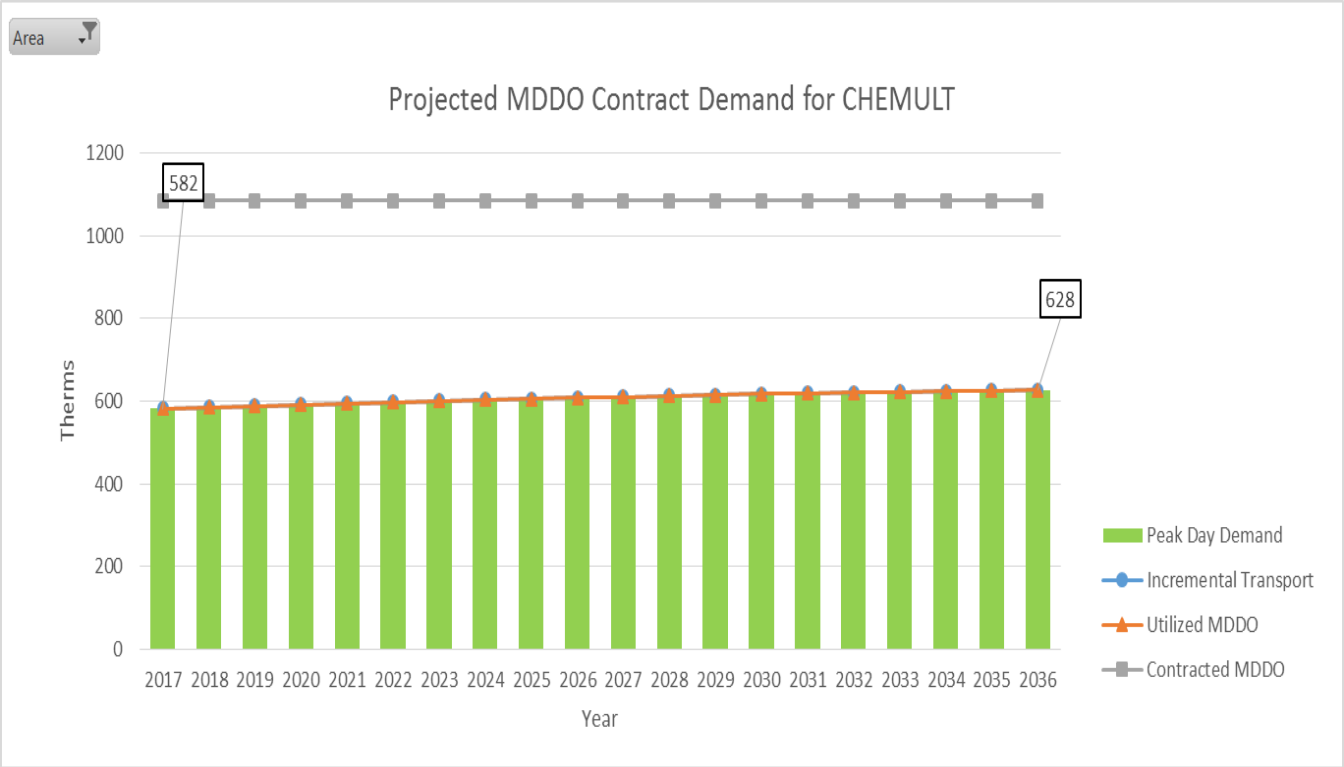

Area
Projected MDDO Contract Demand for BAKER
43181
46594
80000
70000
60000
50000
40000
30000
20000
10000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

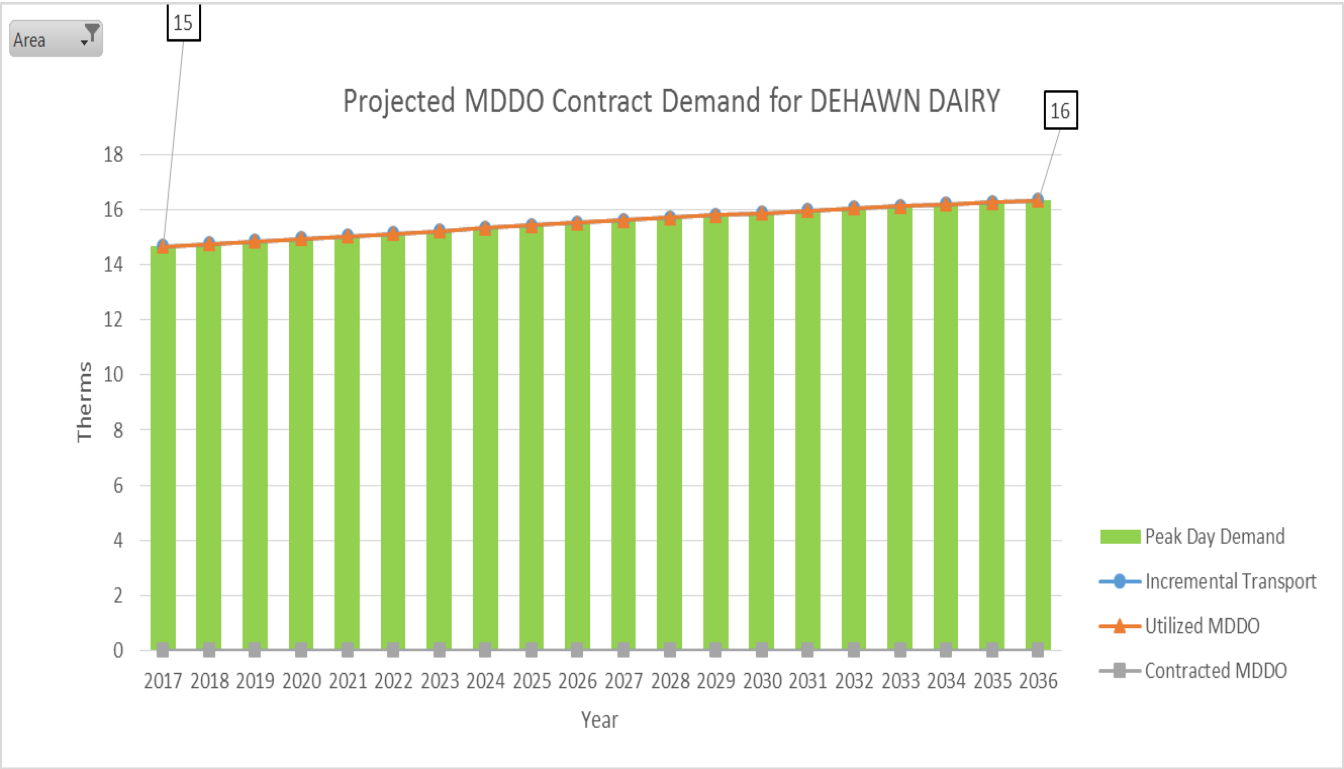

Area
Projected MDDO Contract Demand for Bend Loop
424521
629847
700000
600000
500000
400000
300000
200000
100000
0
Therms
Incremental Transport Needed
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

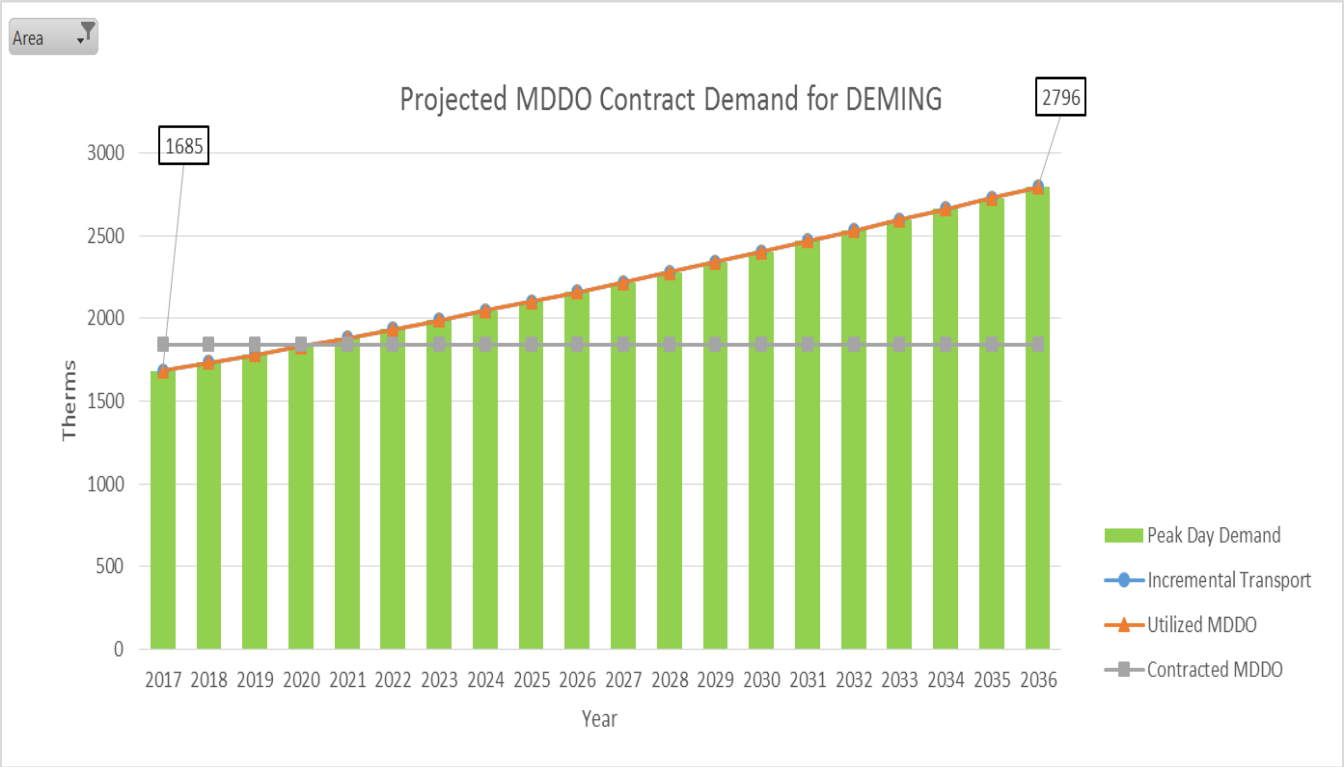

Projected MDDO Contract Demand for Burbank Heights Loop
68574
88225
Therms
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
Year
Peak Day Demand
Incremental Transport

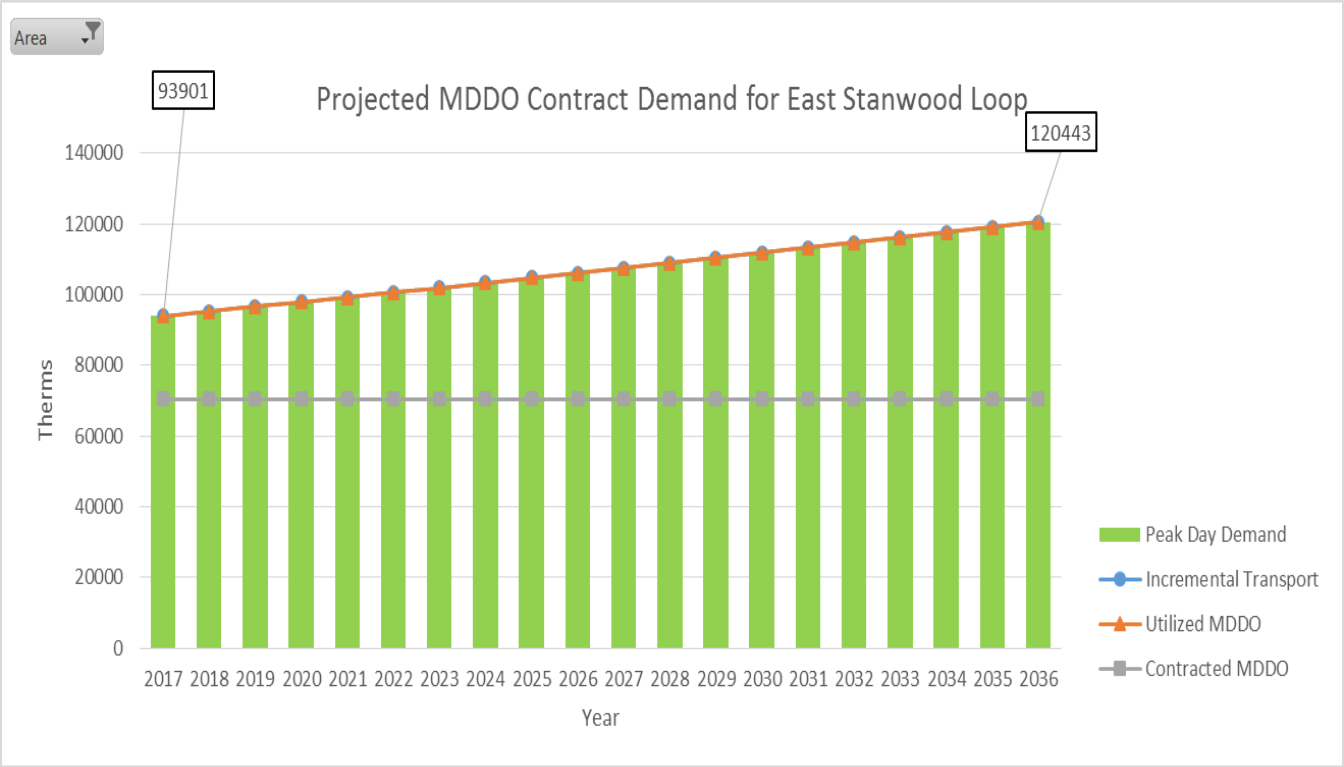

Area
Projected MDDO Contract Demand for BREMERTON (SHELTON)
348663
439146
Therms
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
Year
Incremental Transport Needed
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

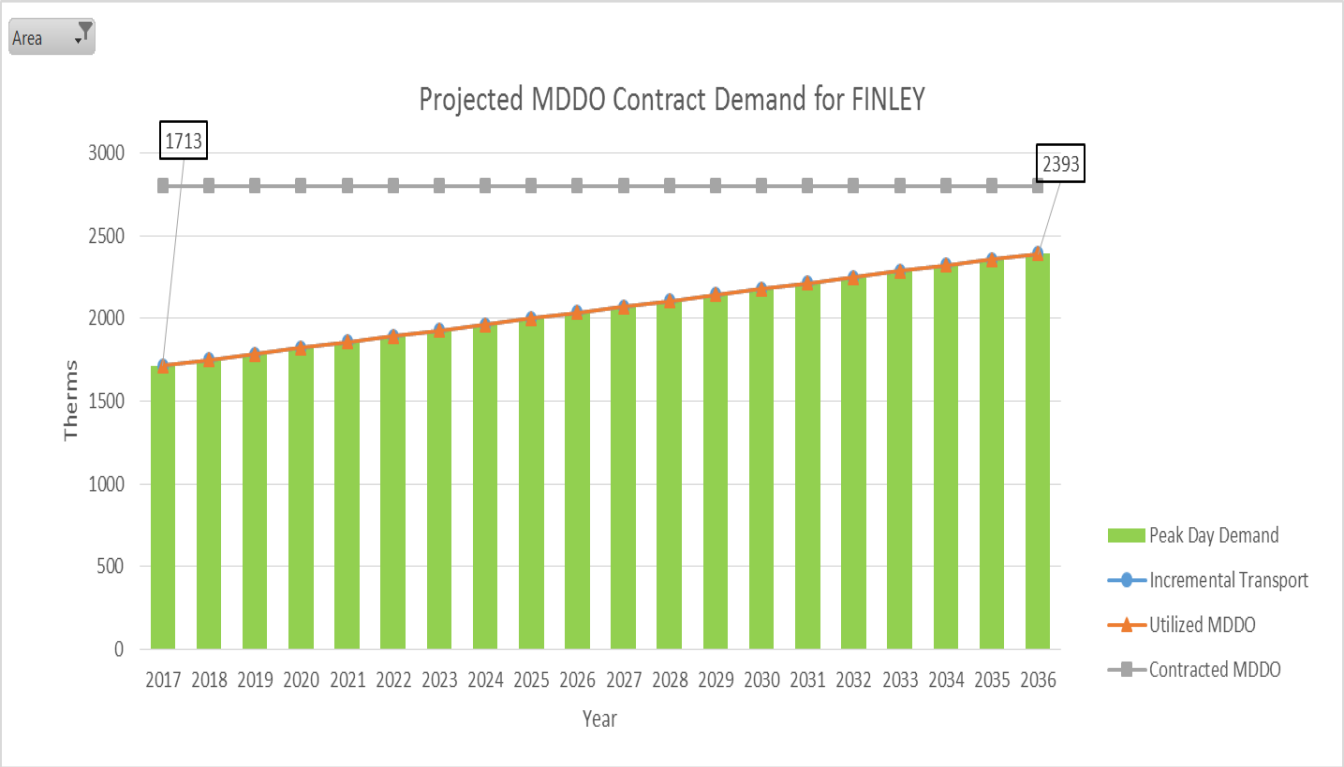

Area
Projected MDDO Contract Demand for CASTLE ROCK
1514
1854
Therms
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

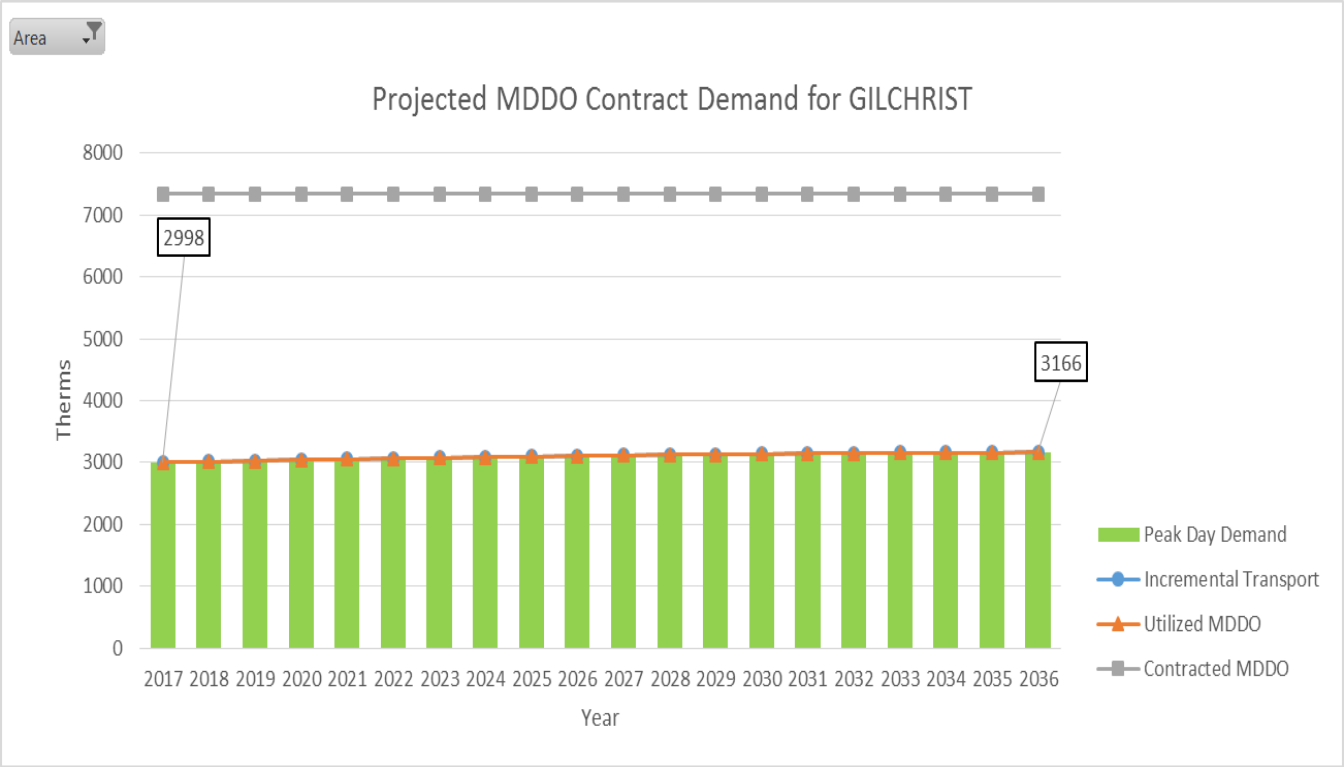

Area
Projected MDDO Contract Demand for CHEMULT
582
628
Therms
0
200
400
600
800
1000
1200
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

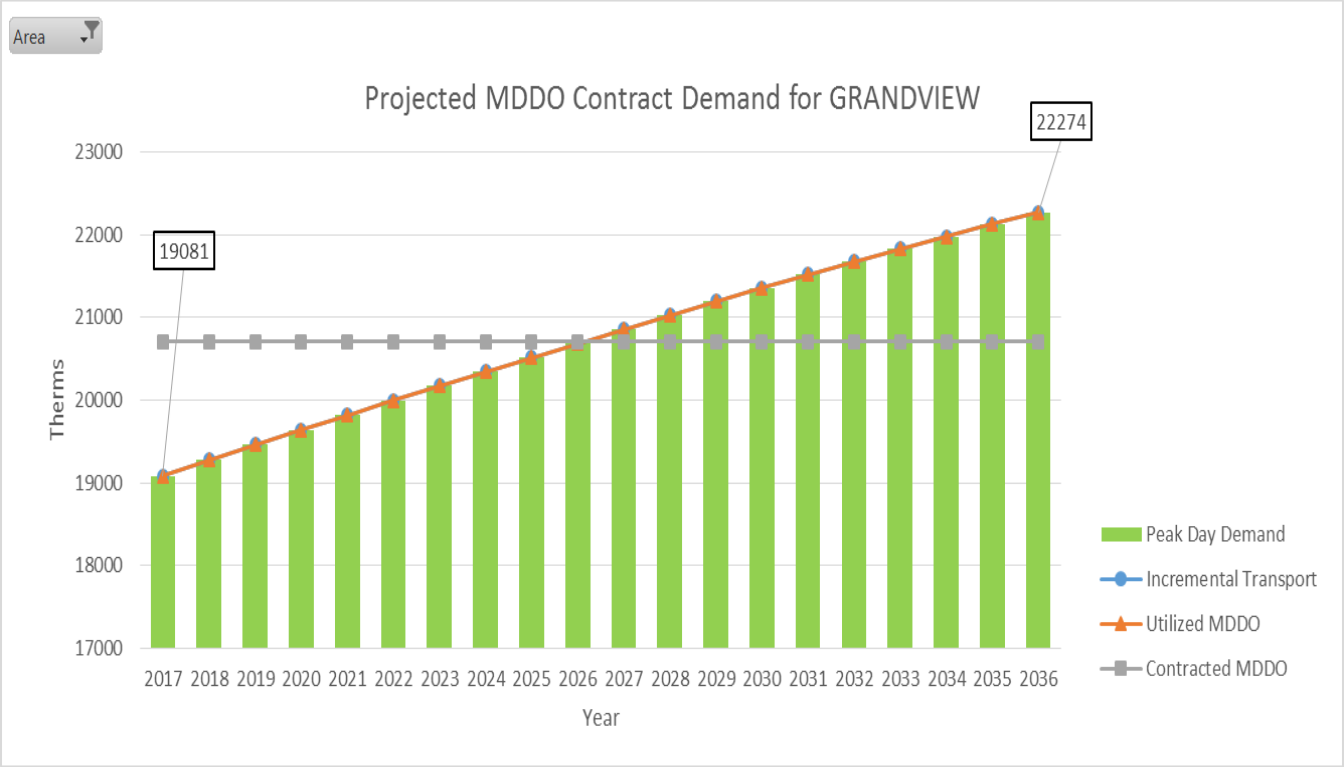

Area
Projected MDDO Contract Demand for DEHAWN DAIRY
15
16
Therms
0
2
4
6
8
10
12
14
16
18
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

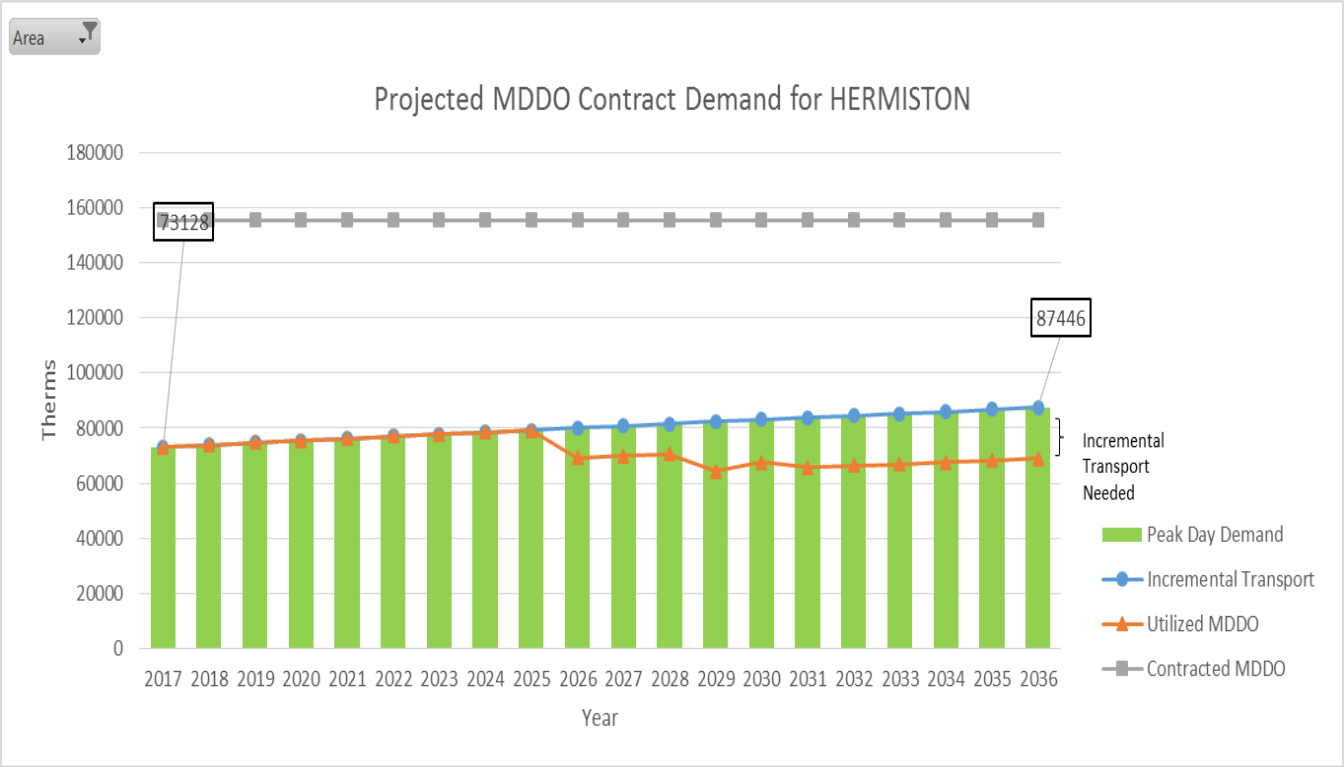

Area
Projected MDDO Contract Demand for DEMING
1685
2796
Therms
0
500
1000
1500
2000
2500
3000
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

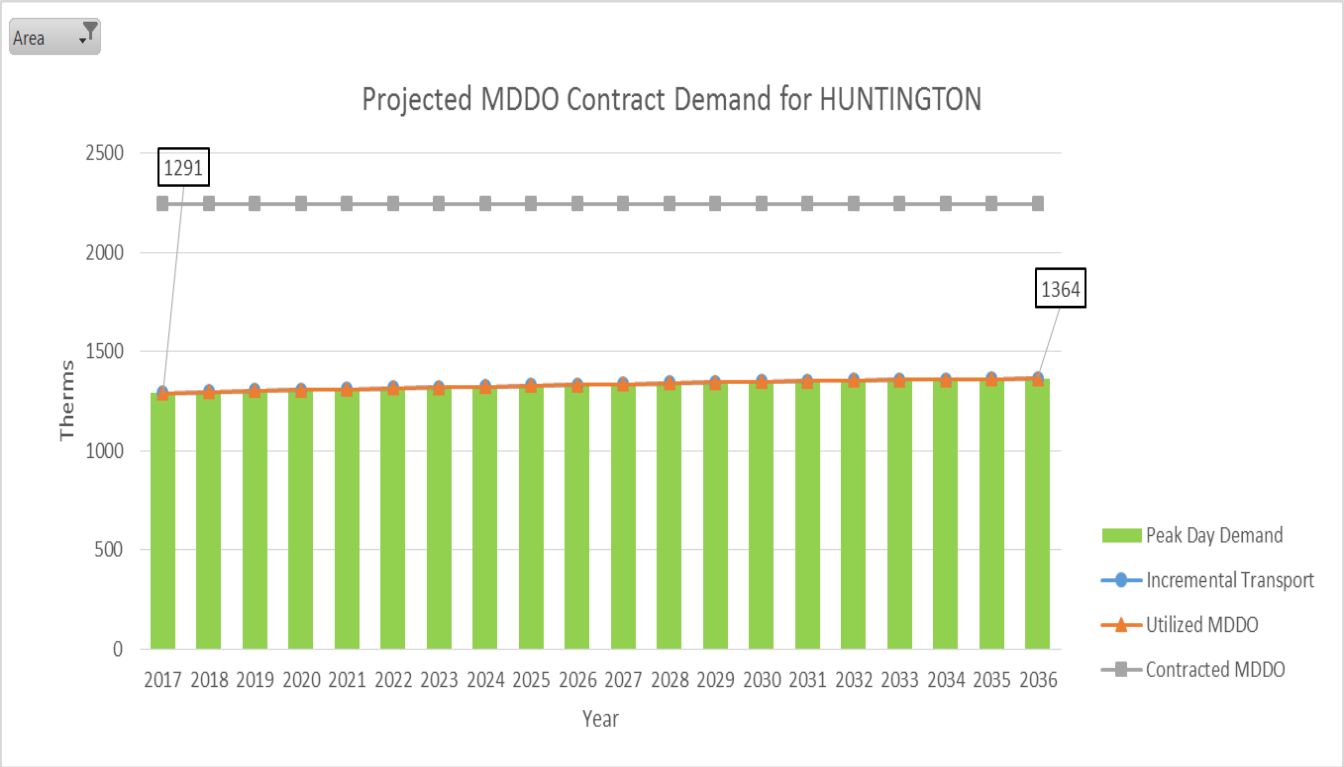

Area
Projected MDDO Contract Demand for East Stanwood Loop
93901
120443
140000
120000
100000
80000
60000
40000
20000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

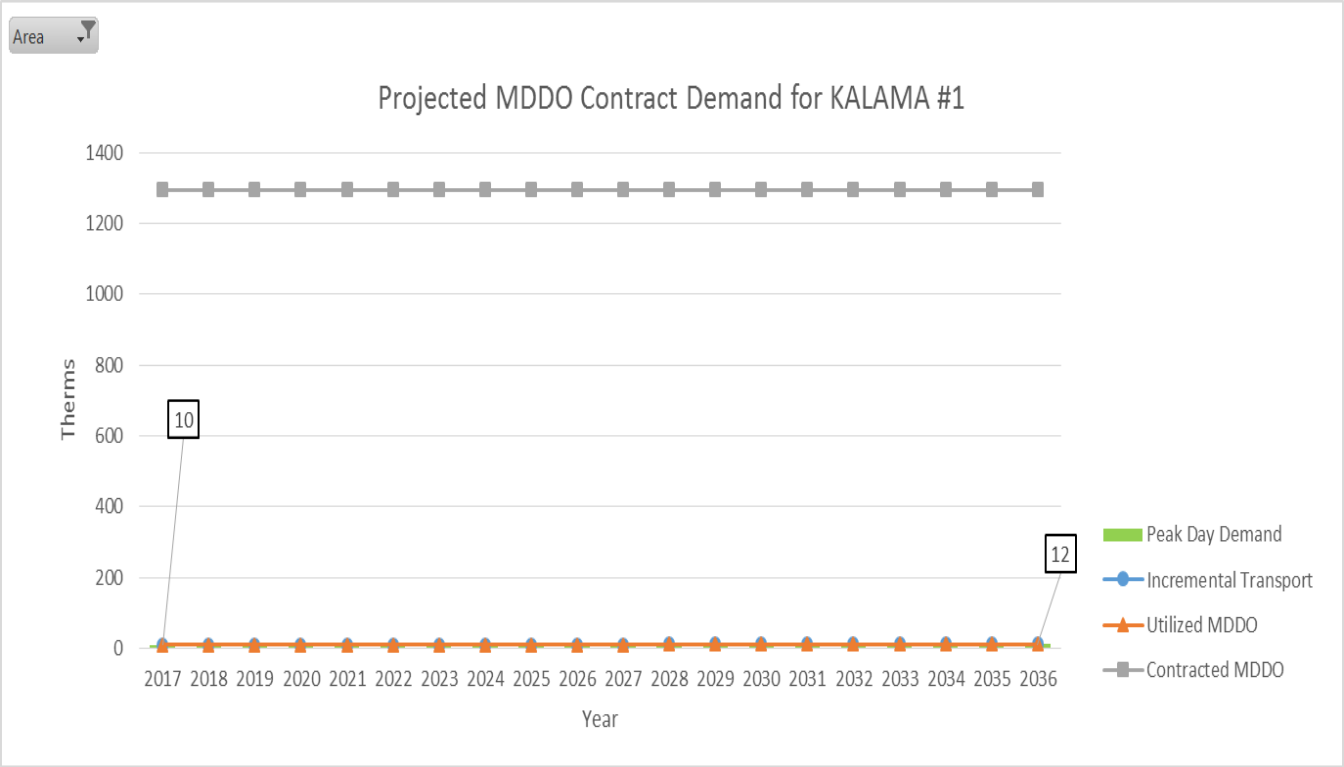

Area
Projected MDDO Contract Demand for FINLEY
1713
2393
3000
2500
2000
1500
1000
500
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

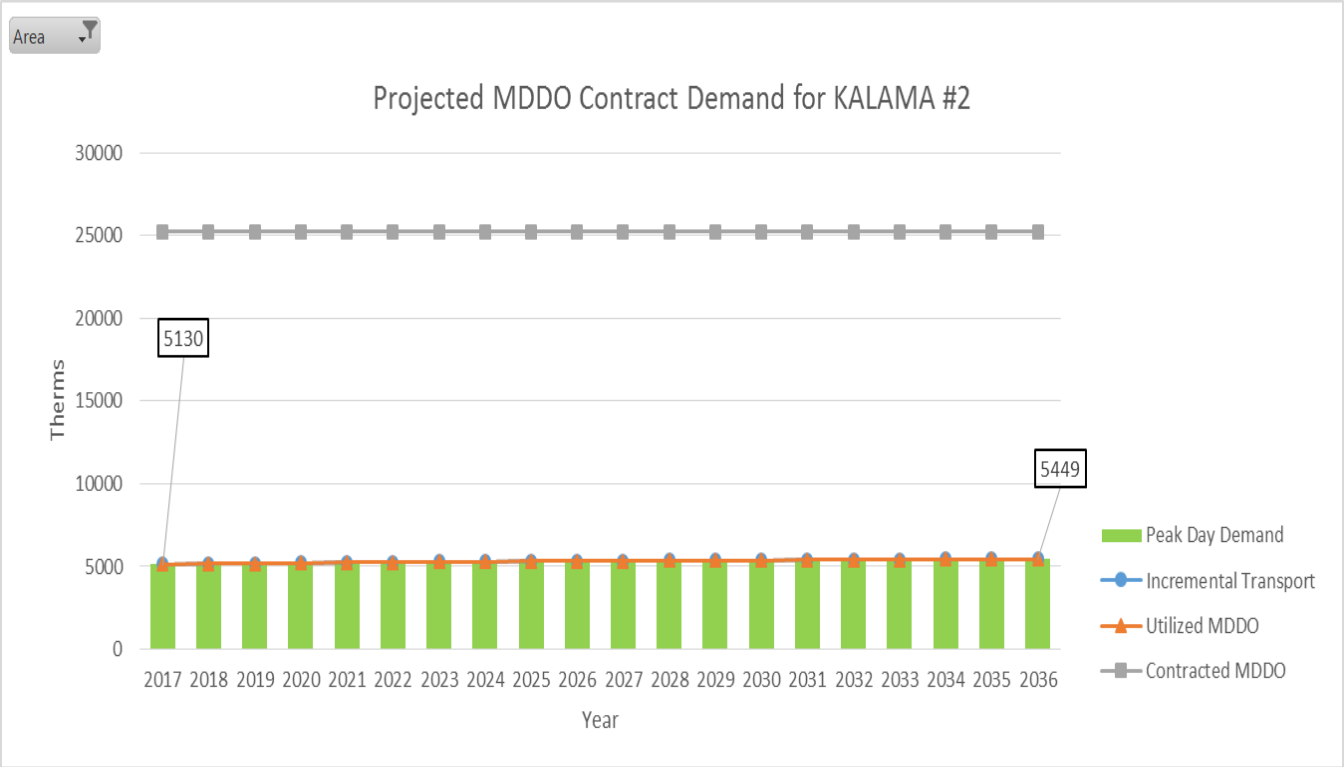

Area
Projected MDDO Contract Demand for GILCHRIST
8000
7000
6000
5000
4000
3000
2000
1000
0
Therms
2998
3166
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

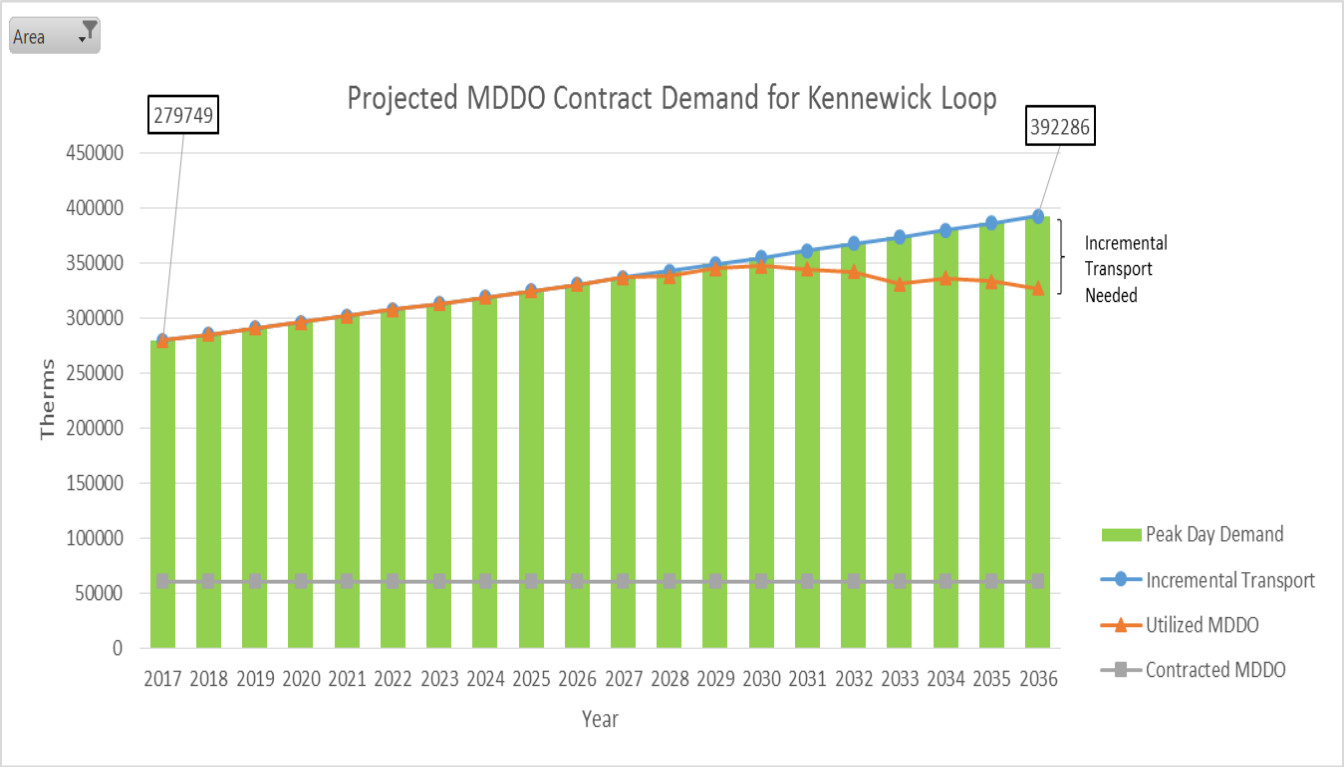

Area
Projected MDDO Contract Demand for GRANDVIEW
23000
22000
21000
20000
19000
18000
17000
Therms
19081
22274
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

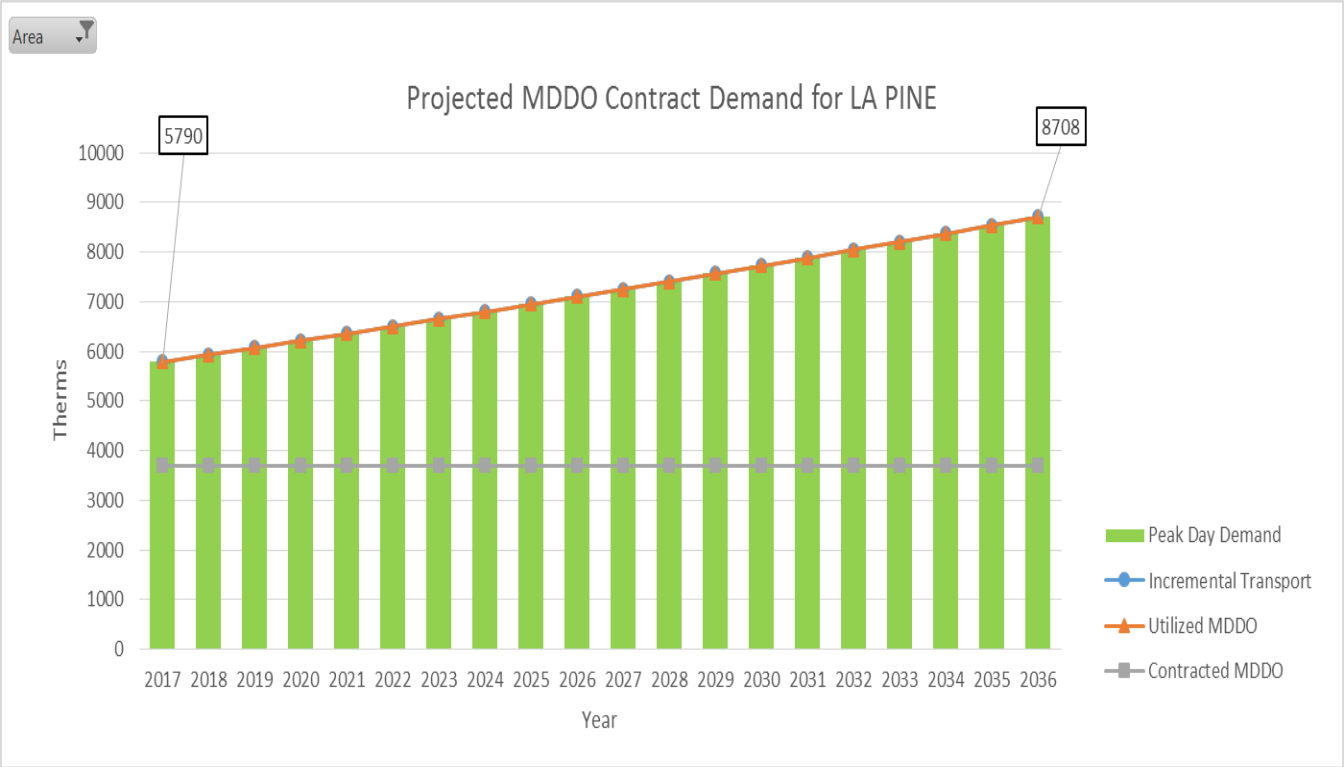

Area
Projected MDDO Contract Demand for HERMISTON
Therms
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
73128
87446
Incremental Transport Needed
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

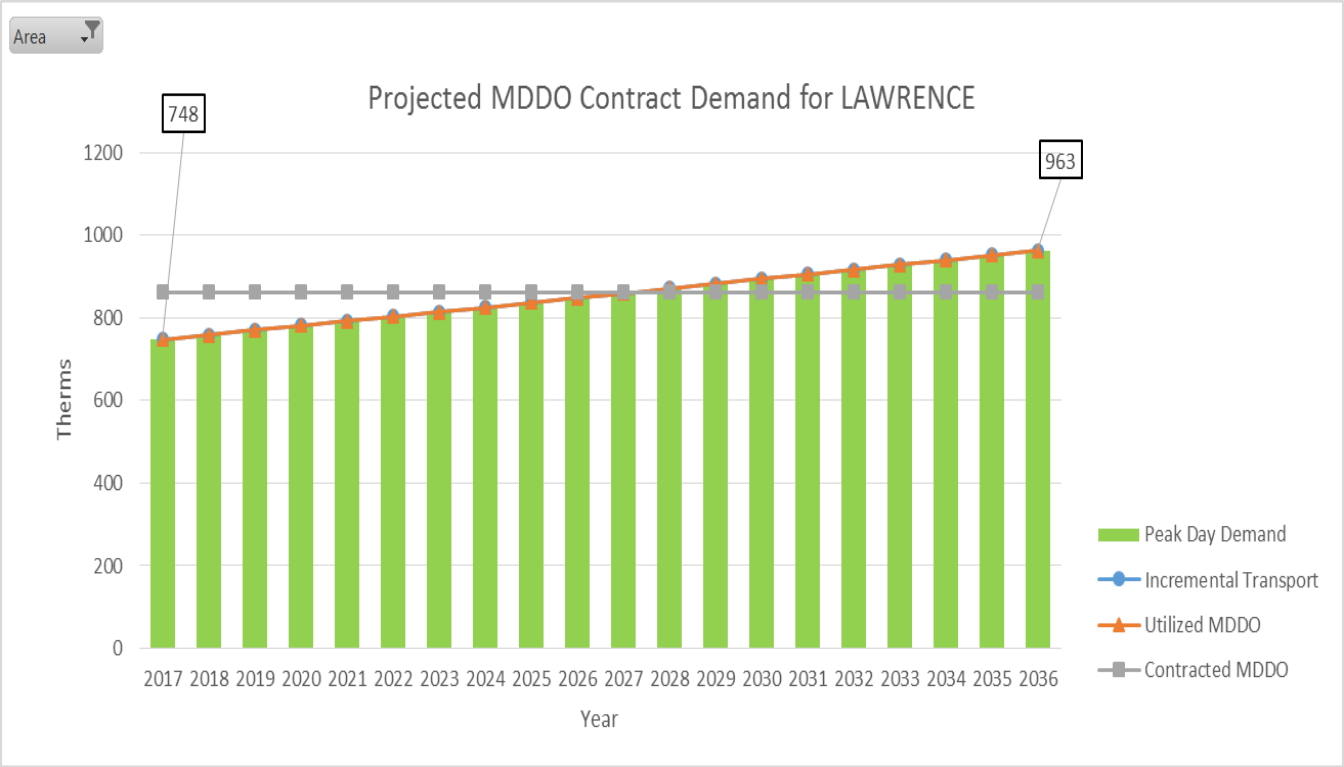

Area
Projected MDDO Contract Demand for HUNTINGTON
Therms
2500
2000
1500
1000
500
0
1291
1364
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

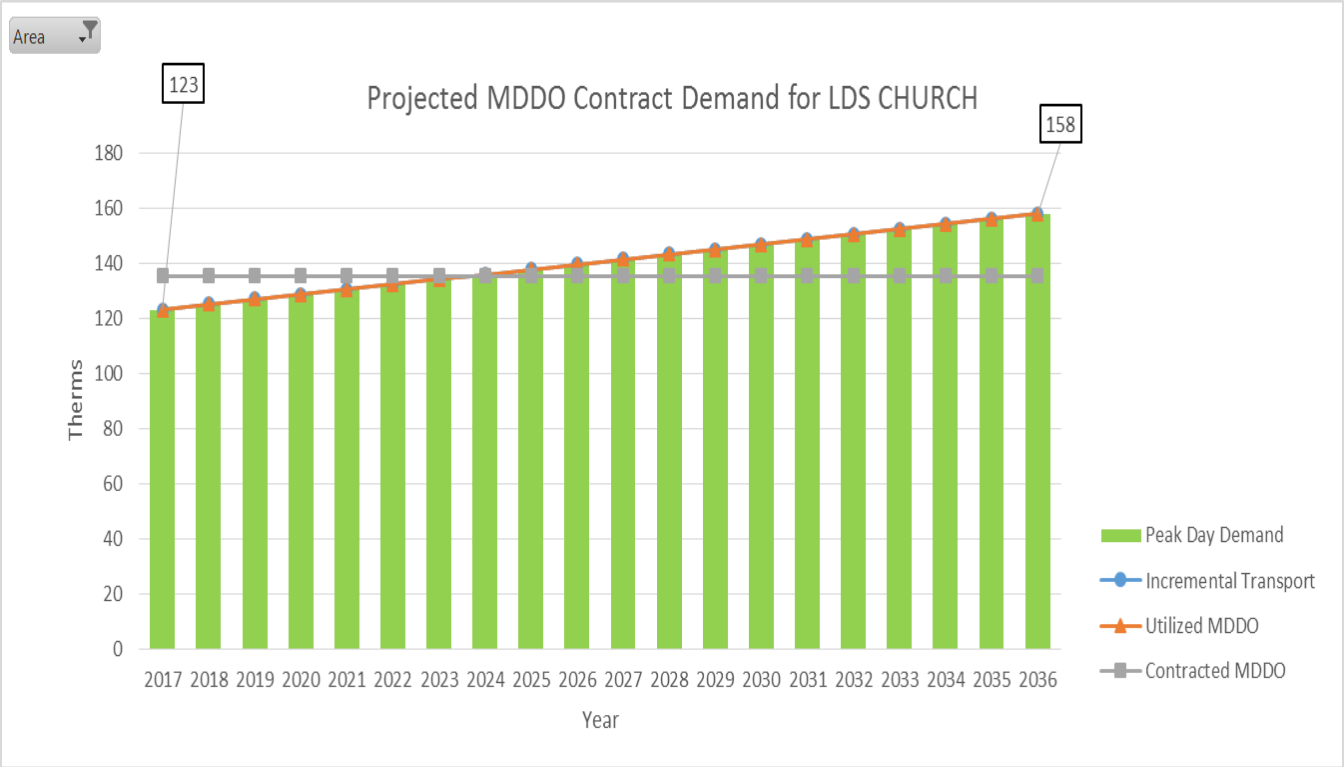

Area
Projected MDDO Contract Demand for KALAMA #1
1400
1200
1000
800
600
400
200
0
Therms
10
12
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

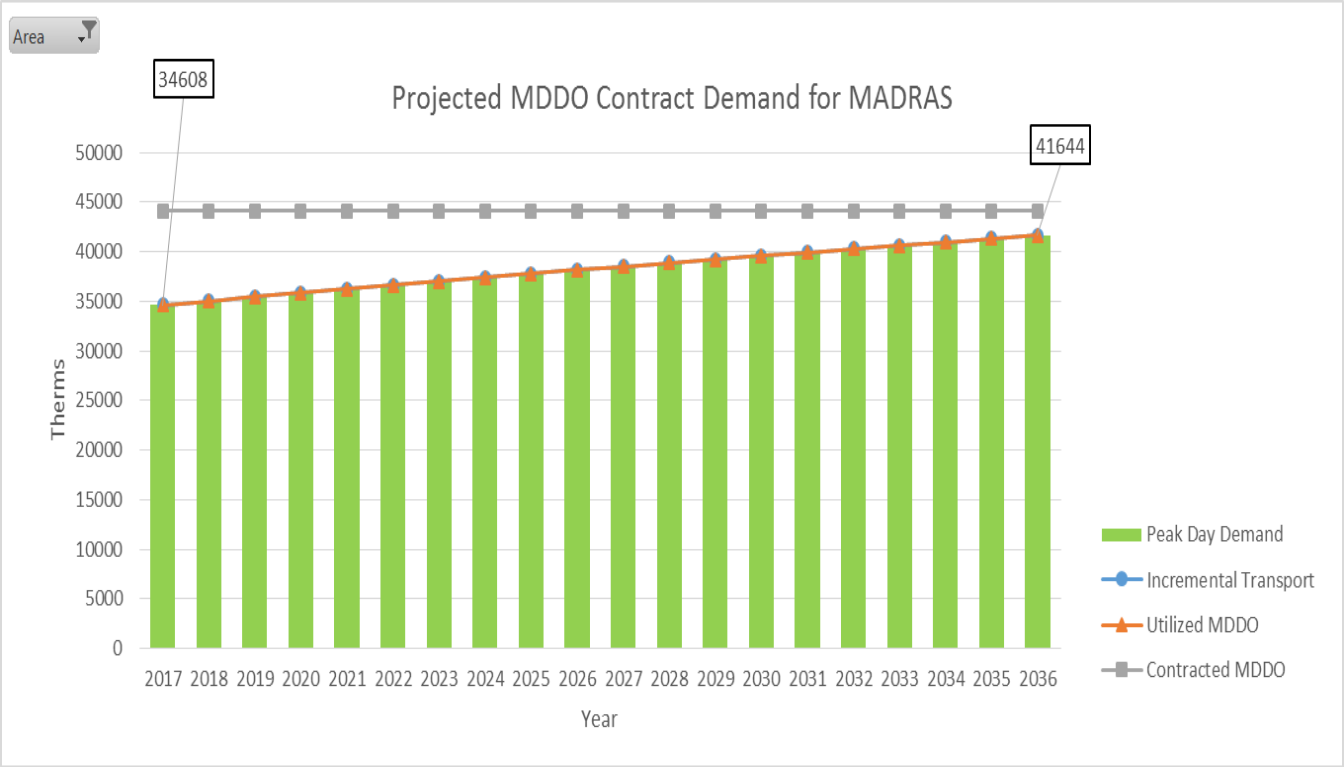

Area
Projected MDDO Contract Demand for KALAMA #2
30000
25000
20000
15000
10000
5000
0
Therms
5130
5449
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

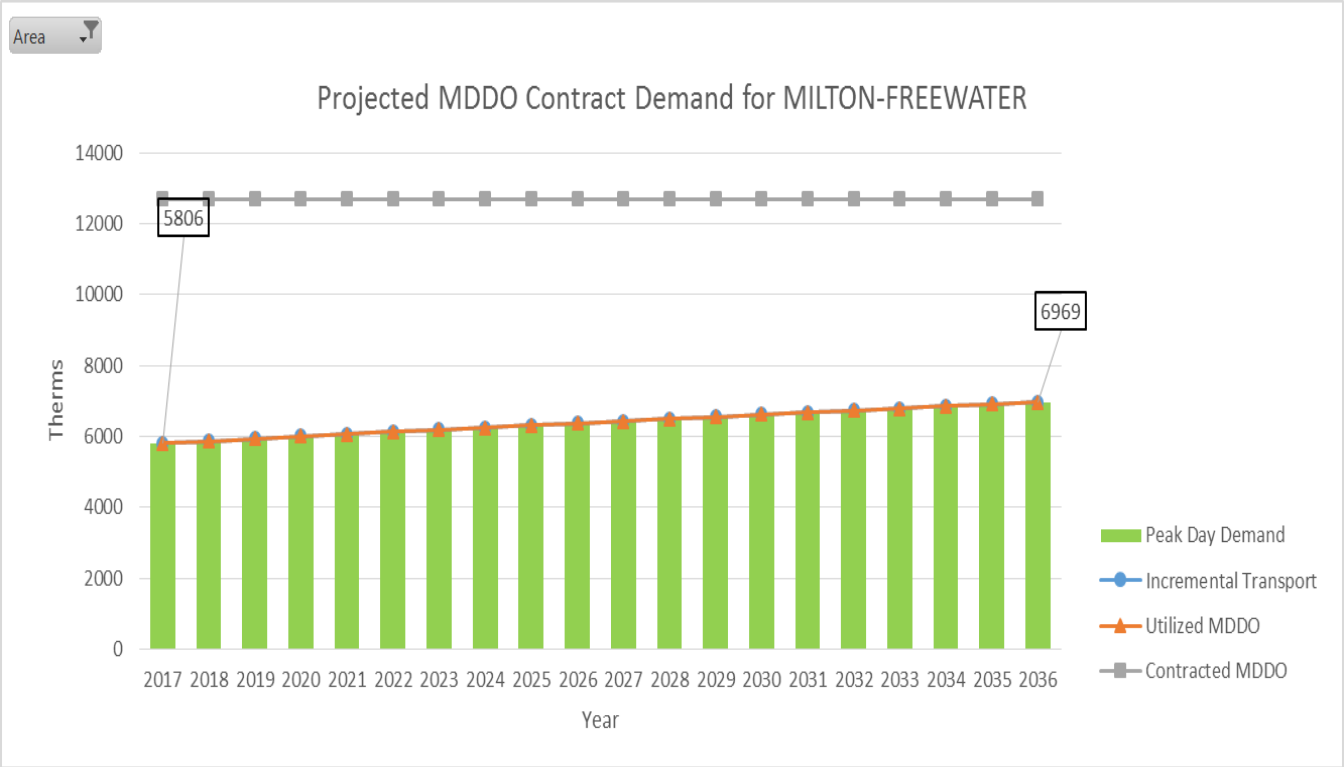

Area
Projected MDDO Contract Demand for Kennewick Loop
279749
392286
Incremental Transport Needed
Therms
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

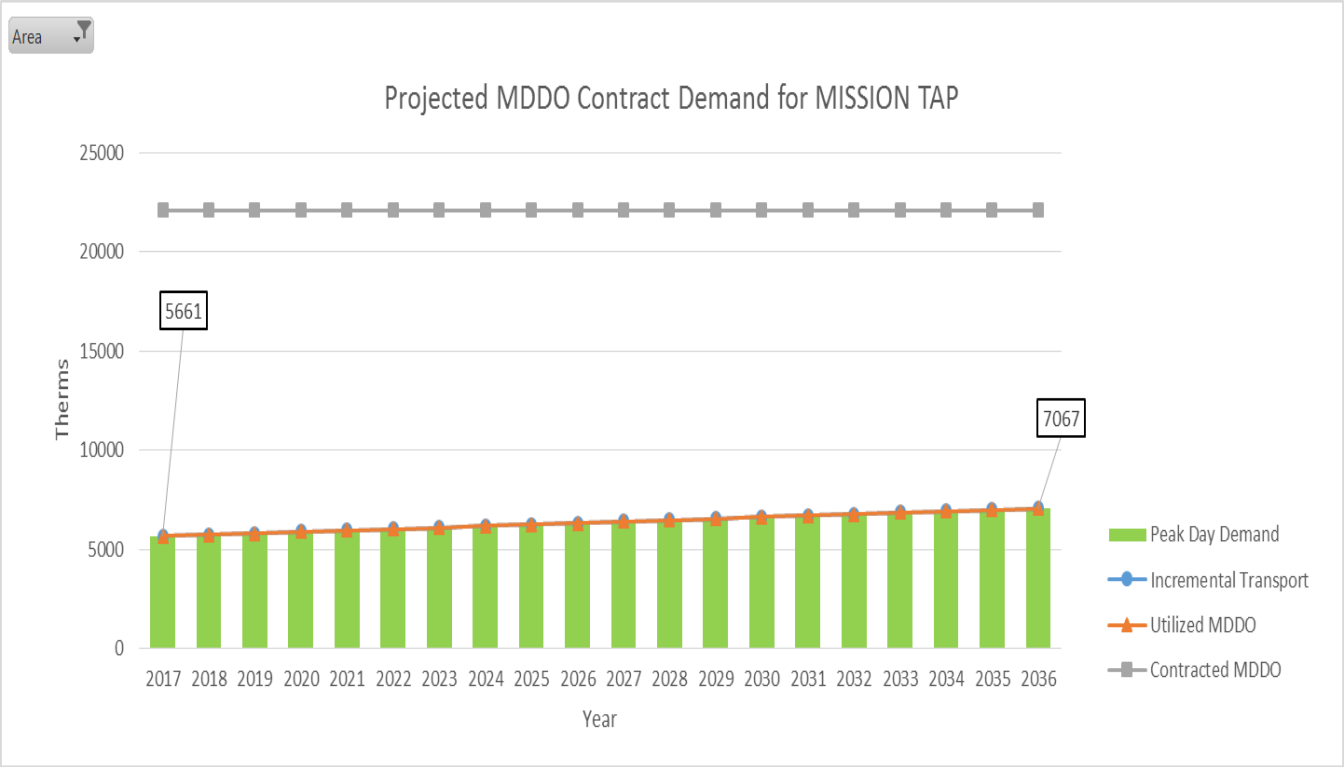

Area
Projected MDDO Contract Demand for LA PINE
5790
8708
Therms
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

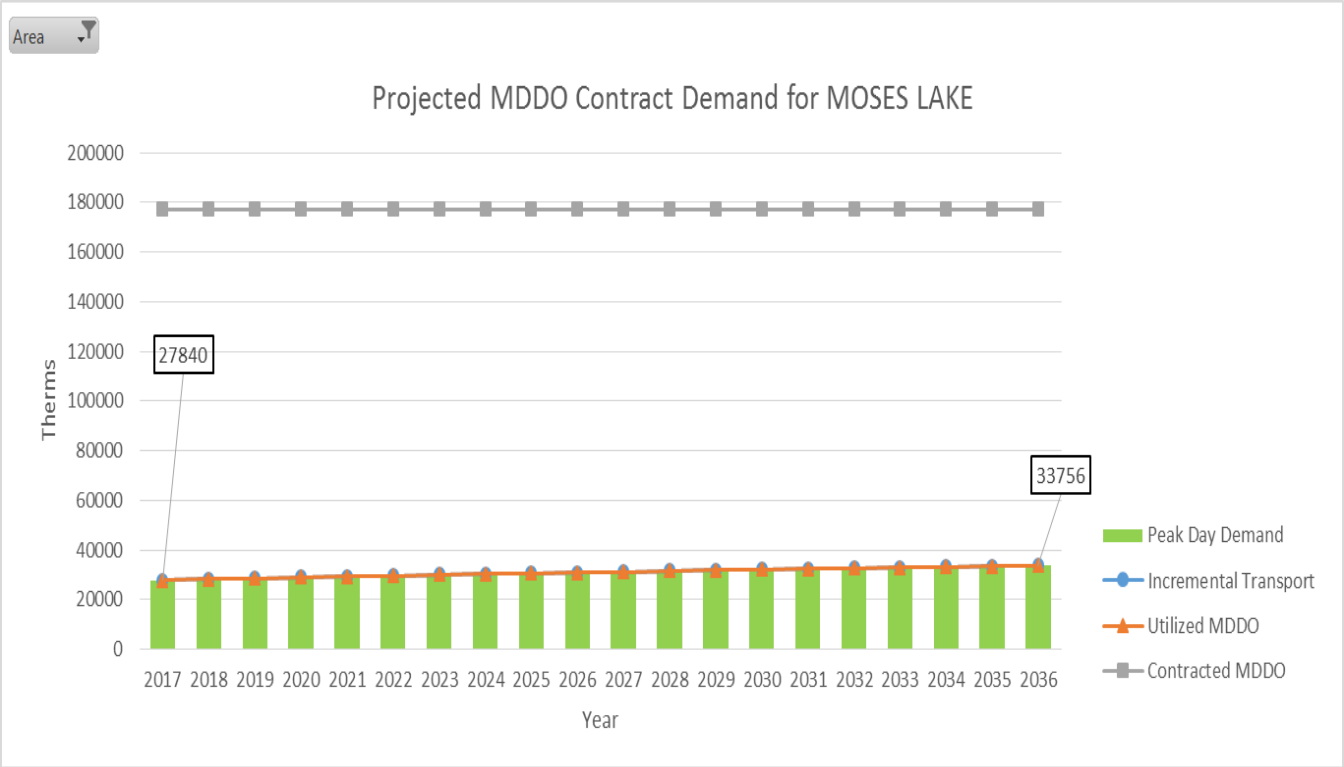

Area
Projected MDDO Contract Demand for LAWRENCE
748
963
1200
1000
800
600
400
200
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

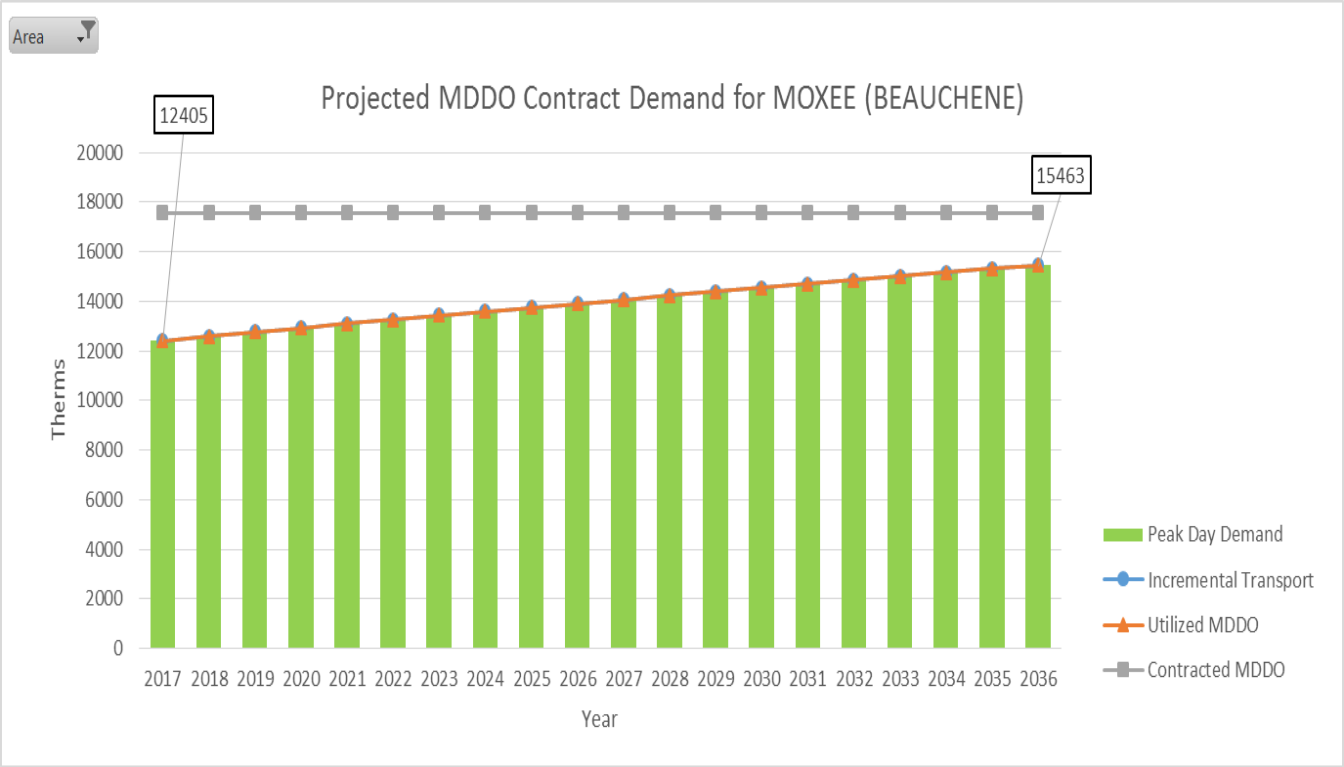

Area
Projected MDDO Contract Demand for LDS CHURCH
123
158
180
160
140
120
100
80
60
40
20
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

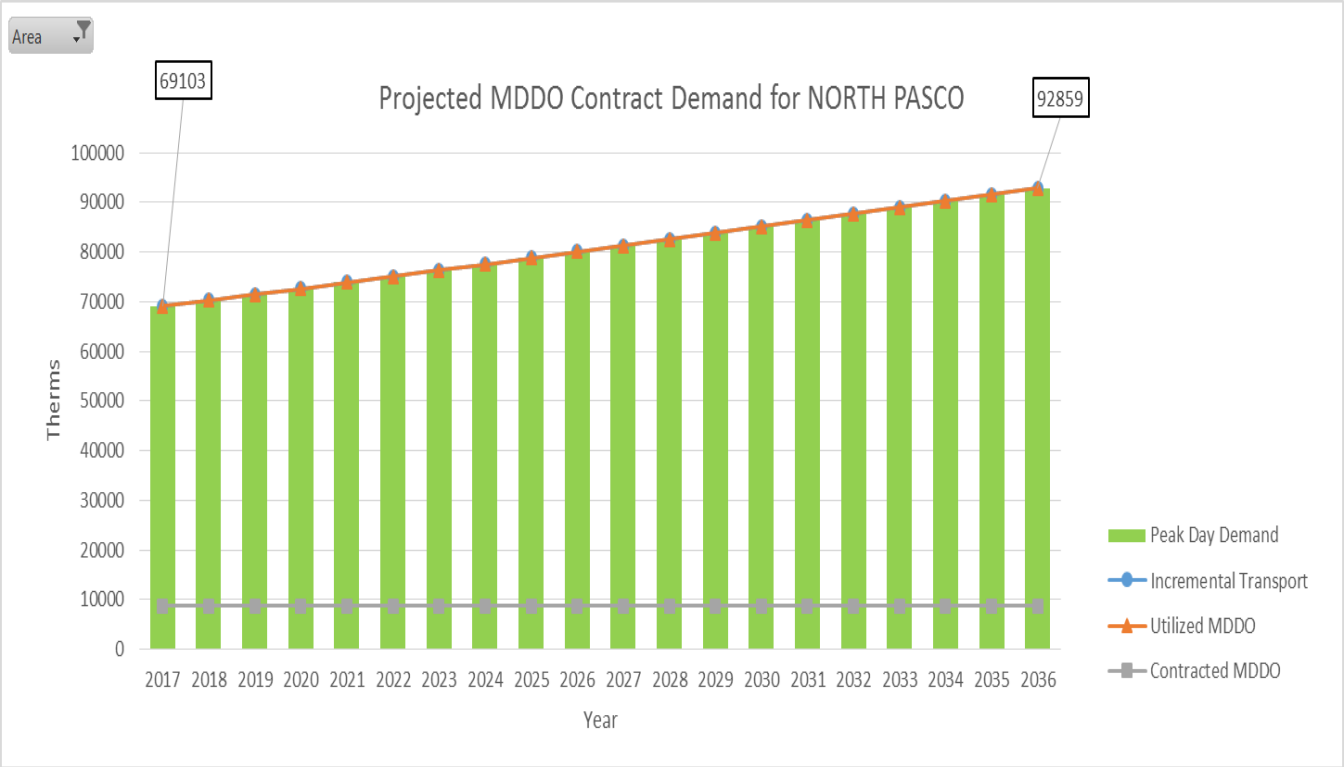

Area
Projected MDDO Contract Demand for MADRAS
34608
41644
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

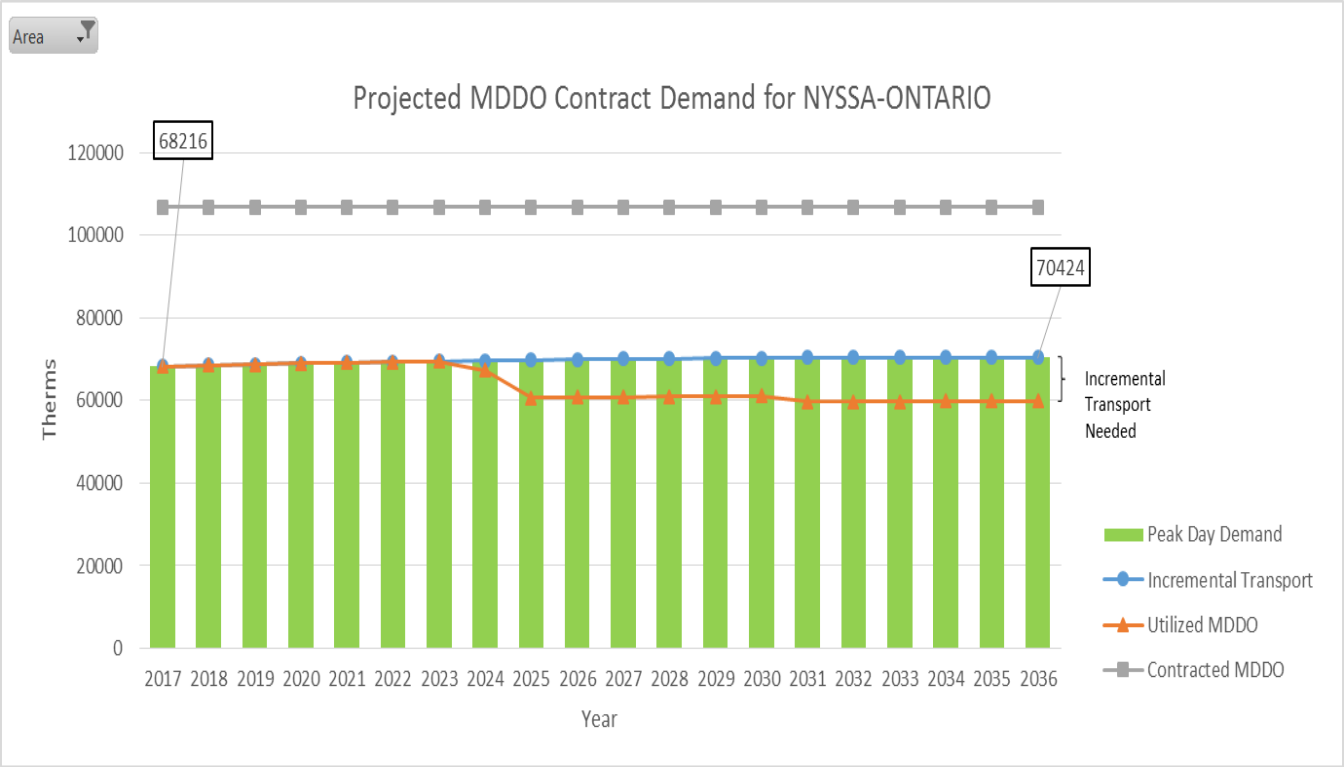

Area
Projected MDDO Contract Demand for MILTON-FREEWATER
14000
12000
10000
8000
6000
4000
2000
0
Therms
5806
6969
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

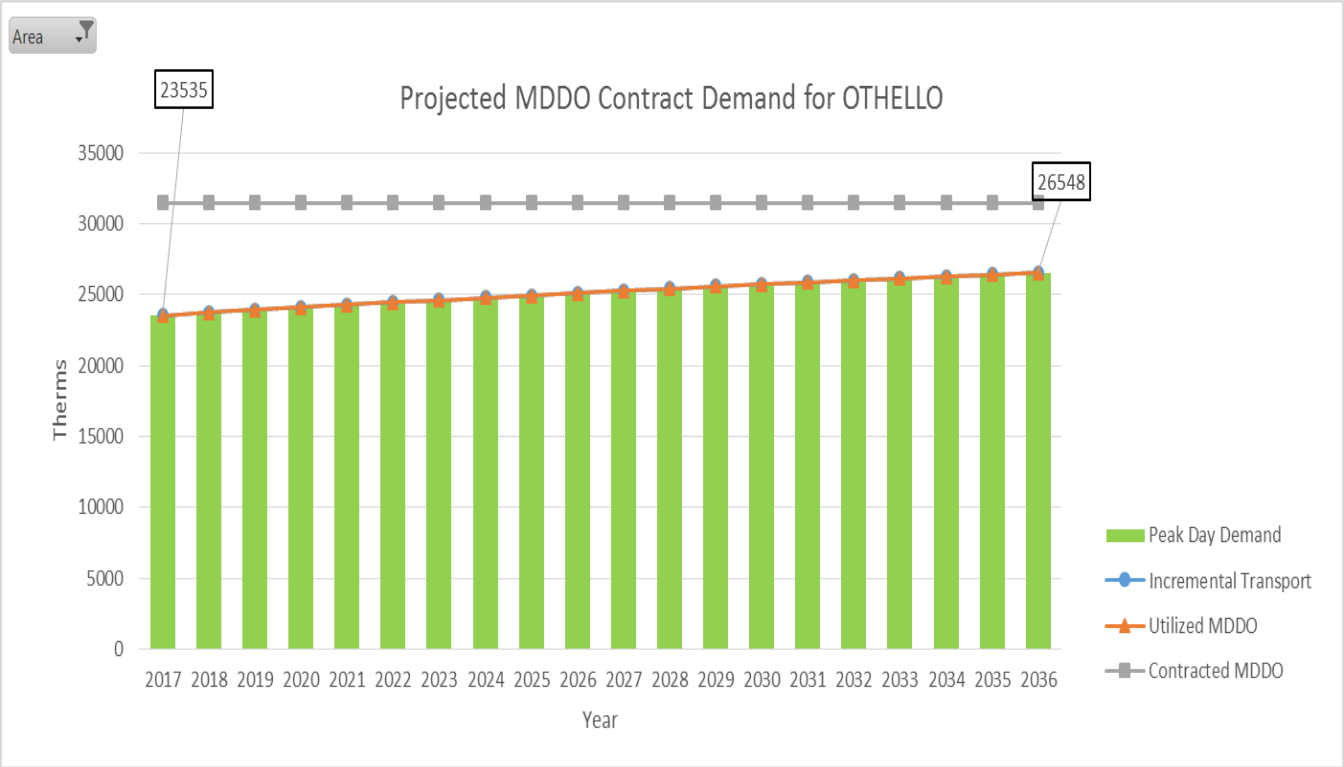

Area
Projected MDDO Contract Demand for MISSION TAP
25000
20000
15000
10000
5000
0
Therms
5661
7067
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

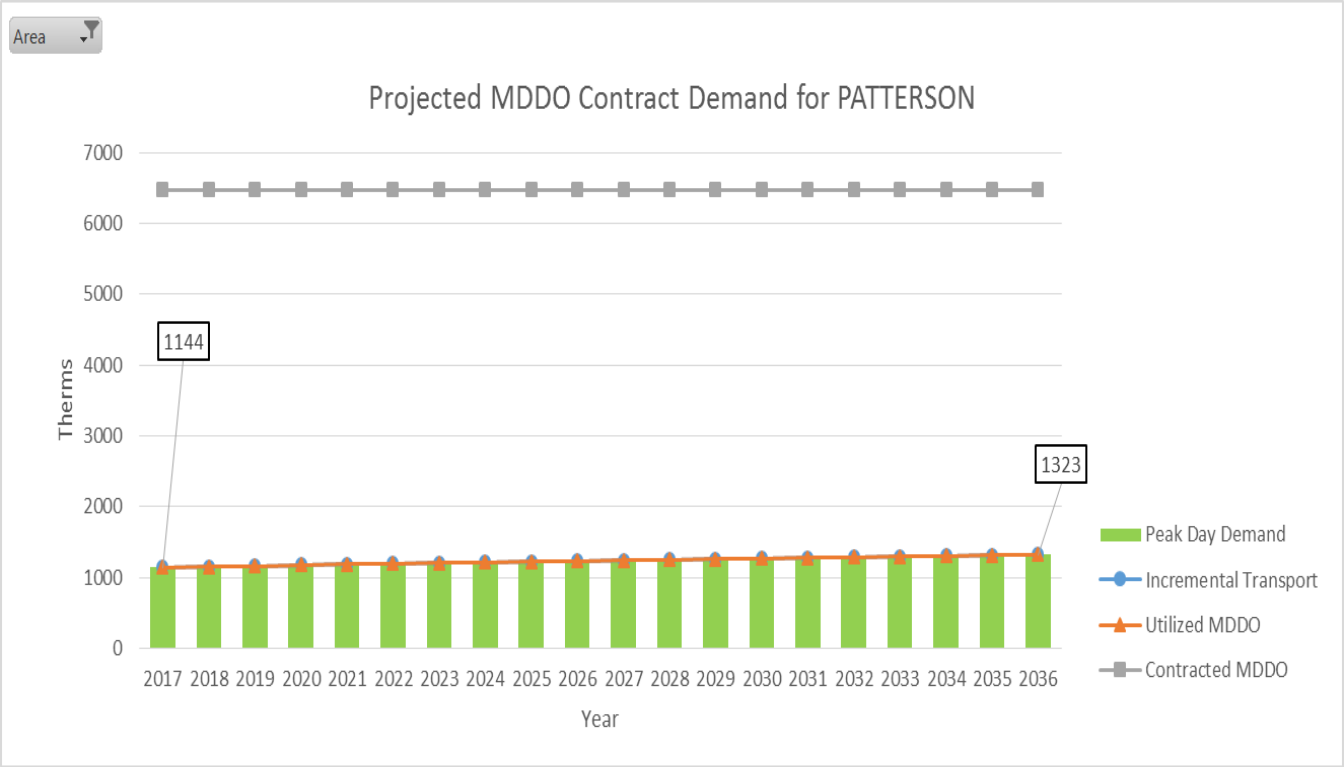

Area
Projected MDDO Contract Demand for MOSES LAKE
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
Therms
27840
33756
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

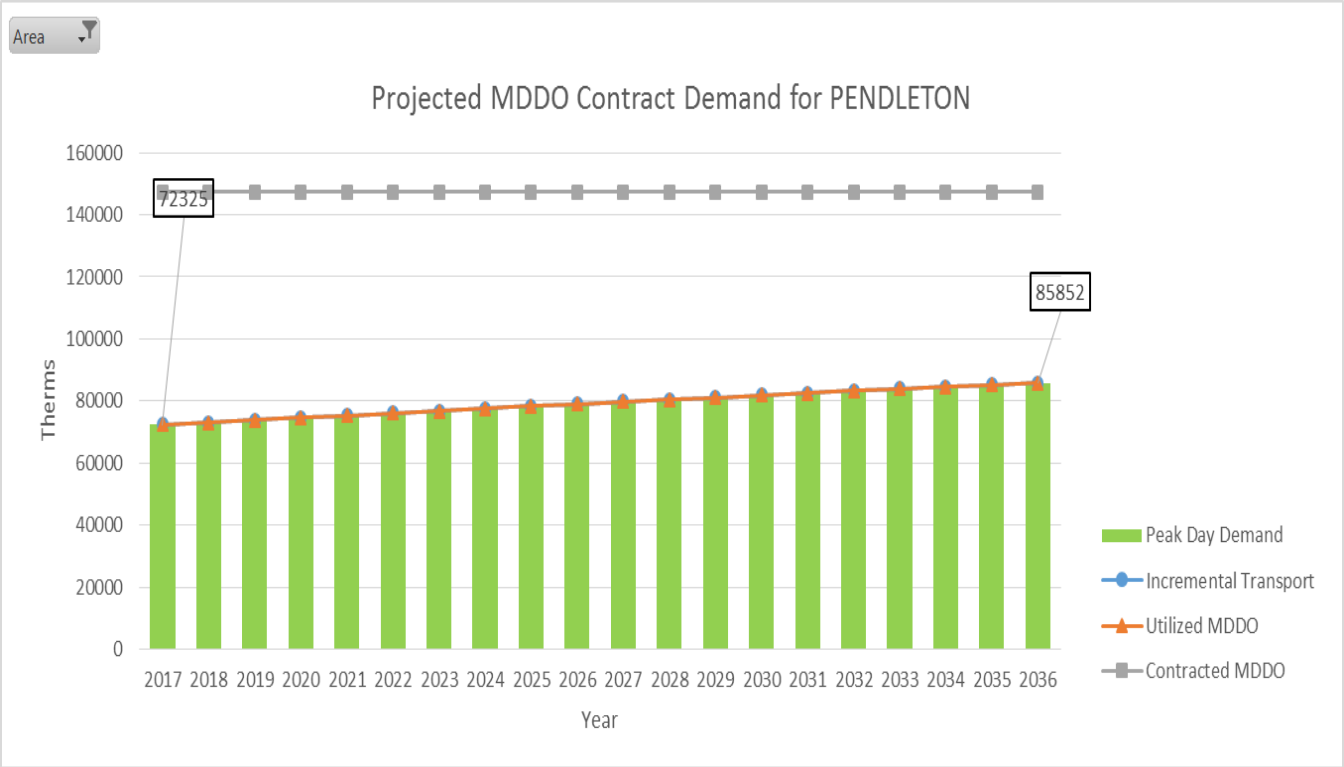

Area
Projected MDDO Contract Demand for MOXEE (BEAUCHENE)
12405
15463
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

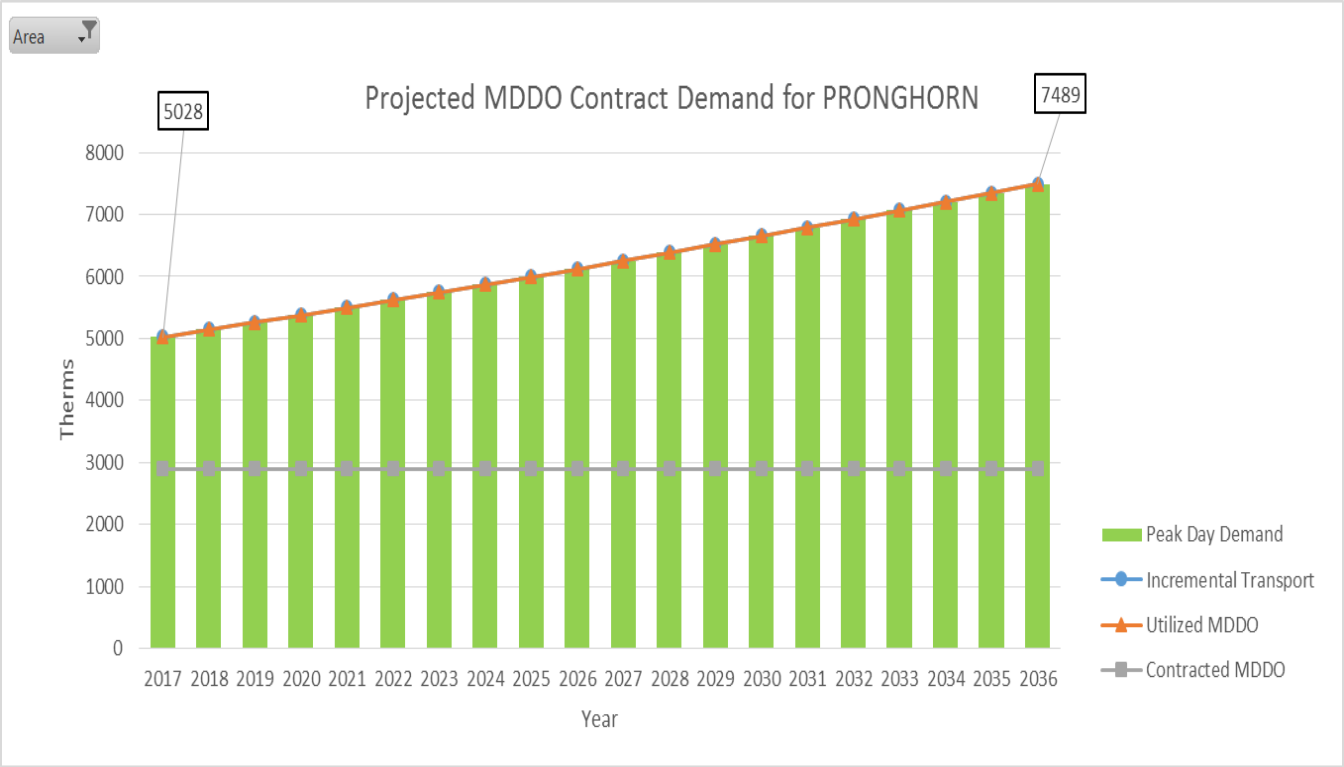

Area
Projected MDDO Contract Demand for NORTH PASCO
69103
92859
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

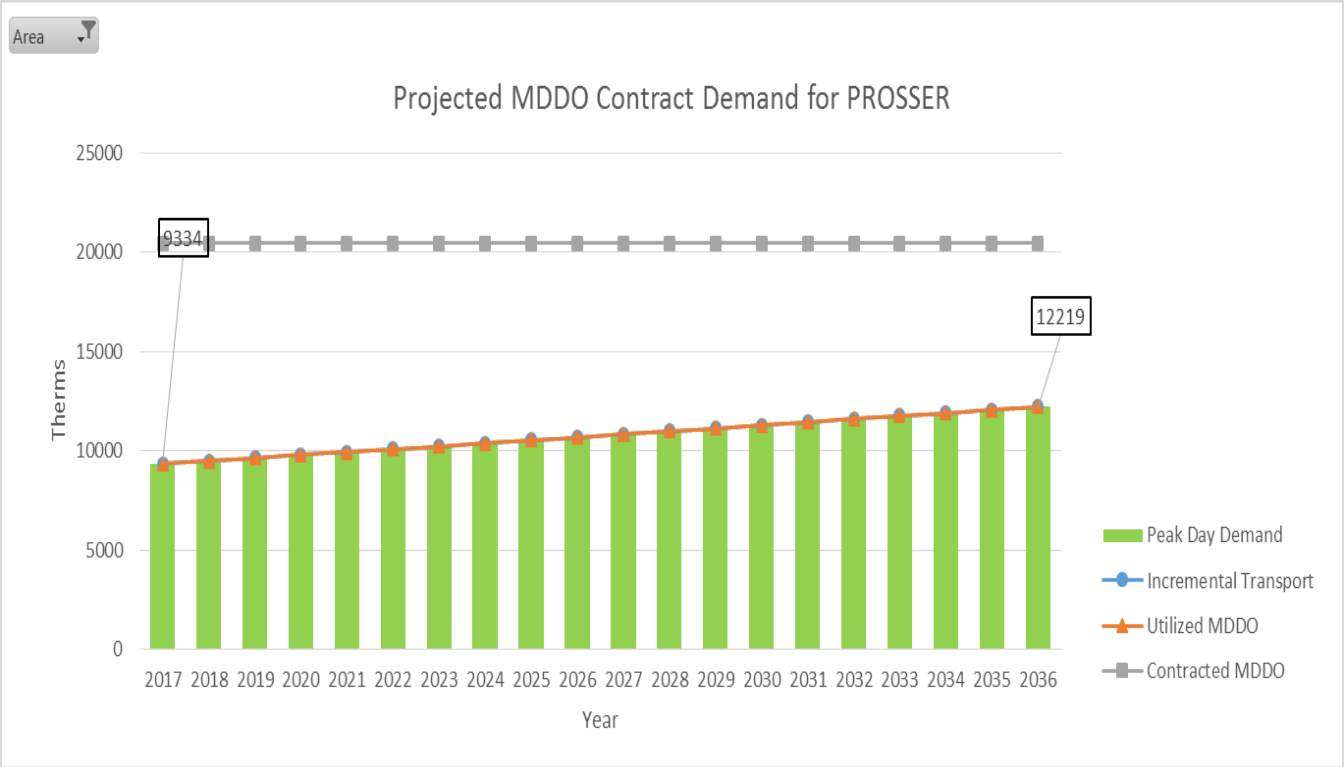

Area
Projected MDDO Contract Demand for NYSSA-ONTARIO
68216
70424
120000
100000
80000
60000
40000
20000
0
Therms
Incremental Transport Needed
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year

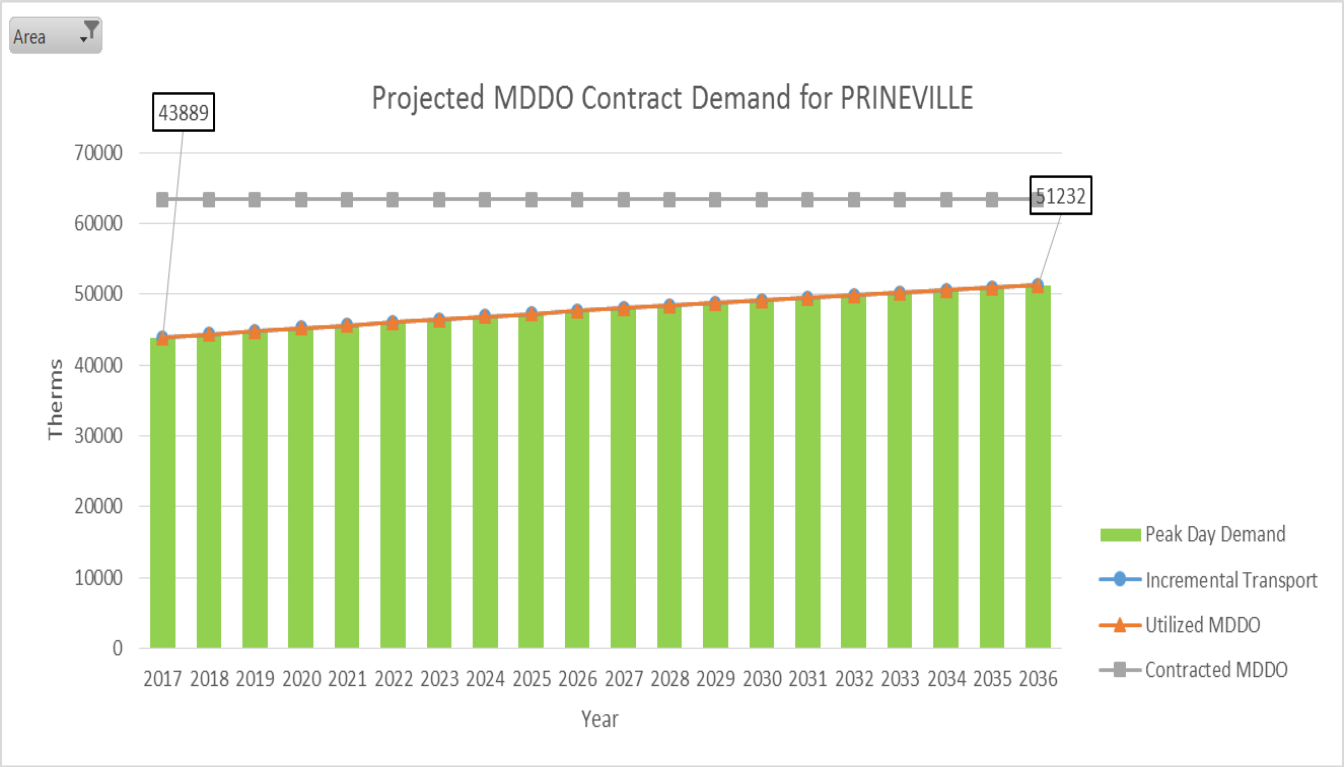

Area
Projected MDDO Contract Demand for OTHELLO
23535
26548
35000
30000
25000
20000
15000
10000
5000
0
Therms
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year

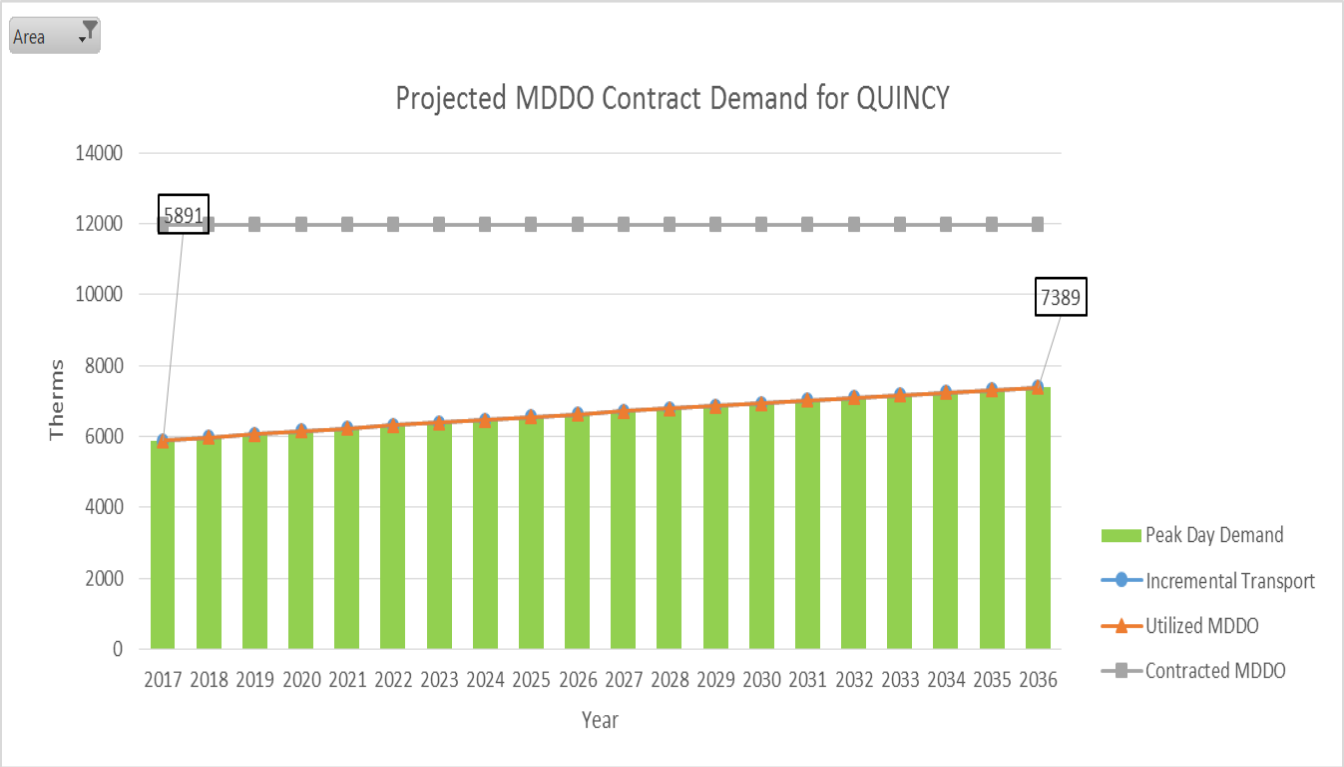

Area
Projected MDDO Contract Demand for PATTERSON
7000
6000
5000
4000
3000
2000
1000
0
Therms
1144
1323
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

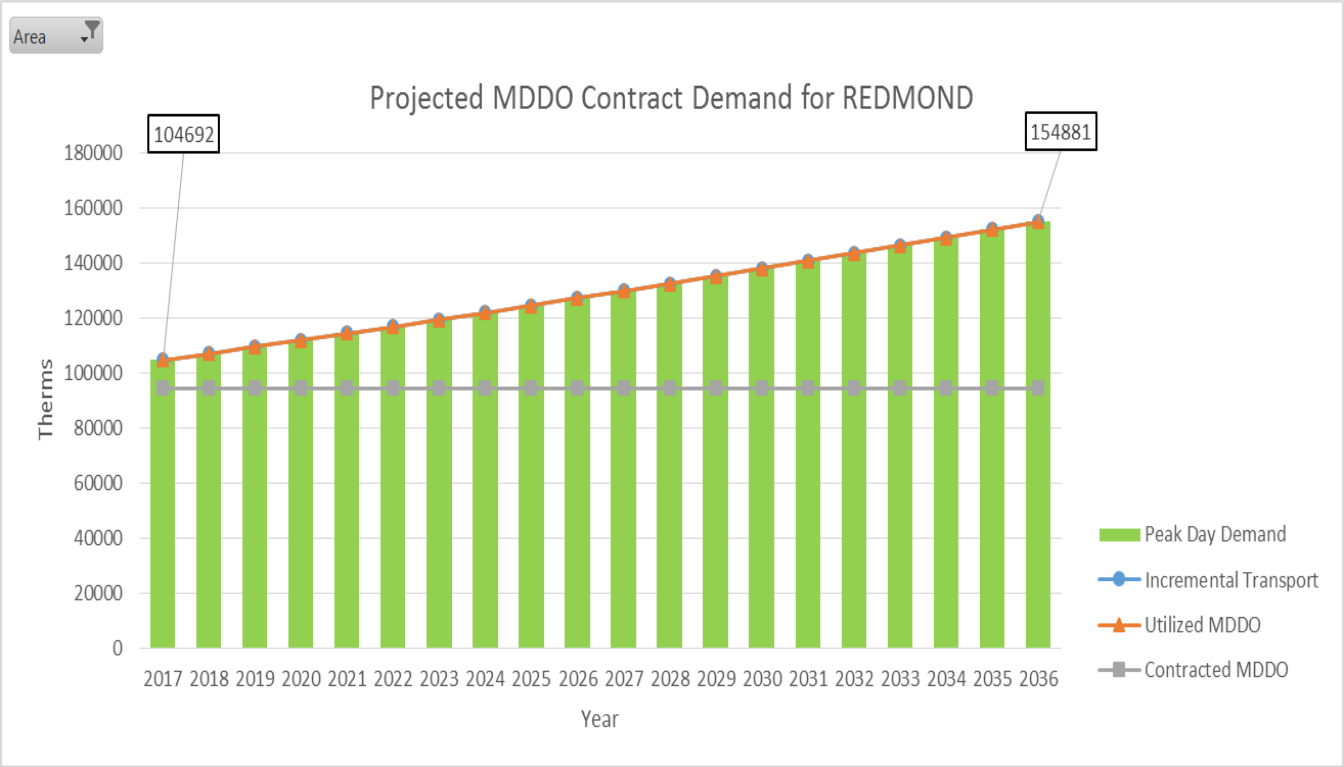

Area
Projected MDDO Contract Demand for PENDLETON
160000
140000
120000
100000
80000
60000
40000
20000
0
Therms
72325
85852
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

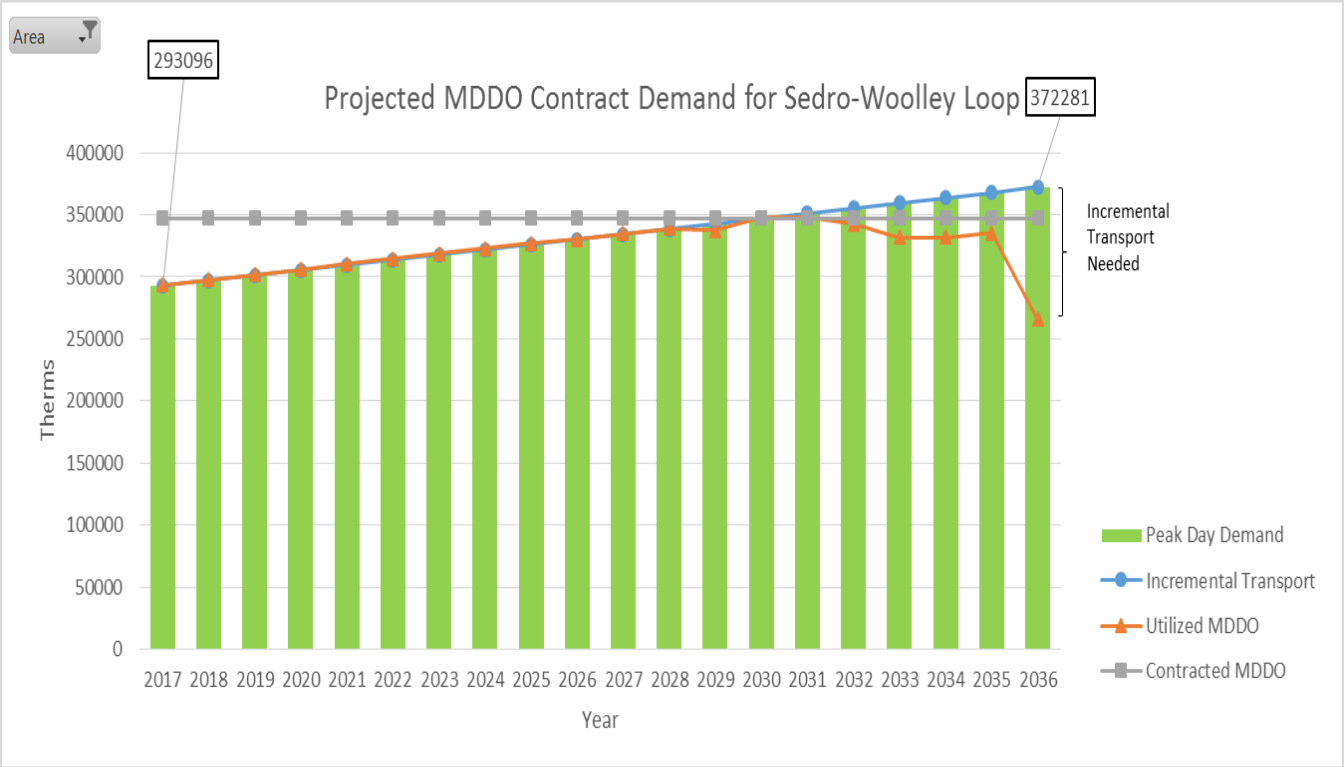

Area
Projected MDDO Contract Demand for PRONGHORN
5028
7489
8000
7000
6000
5000
4000
3000
2000
1000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

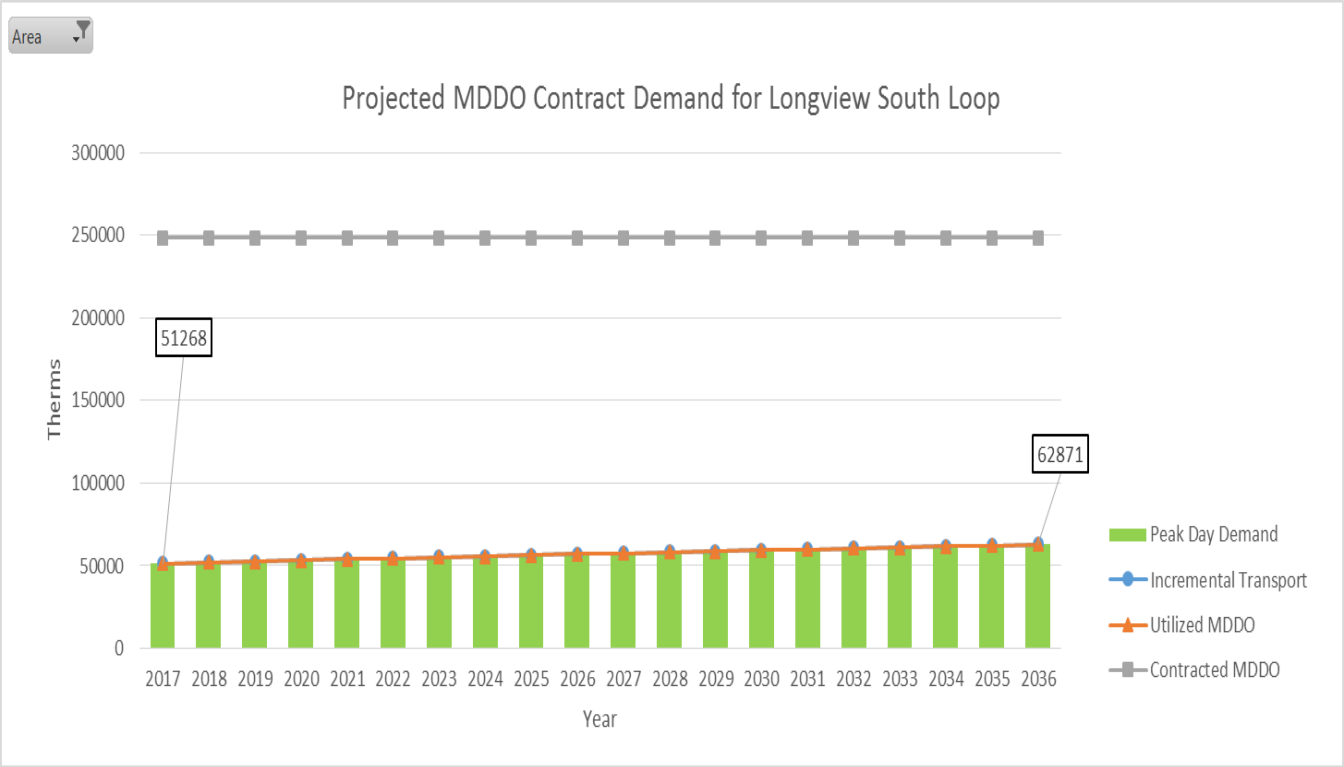

Area
Projected MDDO Contract Demand for PROSSER
25000
20000
15000
10000
5000
0
Therms
9334
12219
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

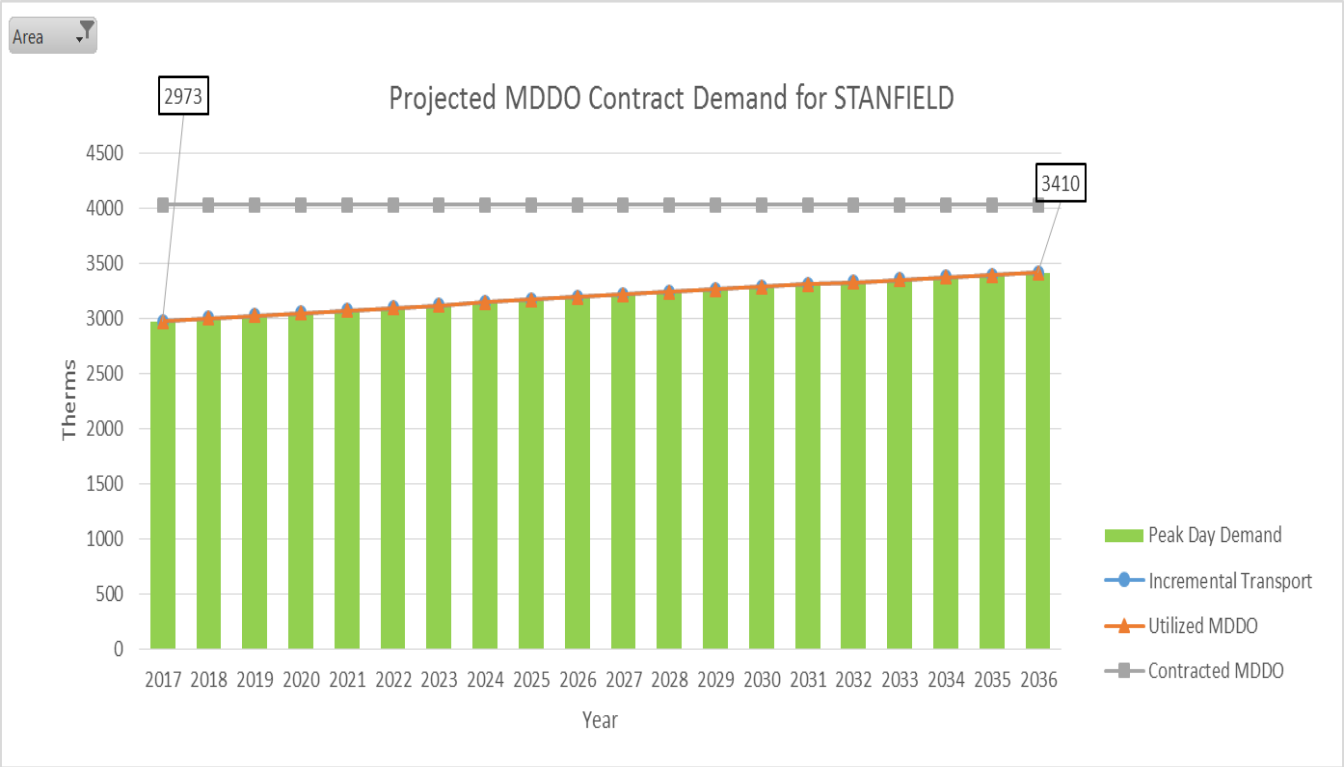

Area
Projected MDDO Contract Demand for PRINEVILLE
43889
51232
70000
60000
50000
40000
30000
20000
10000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

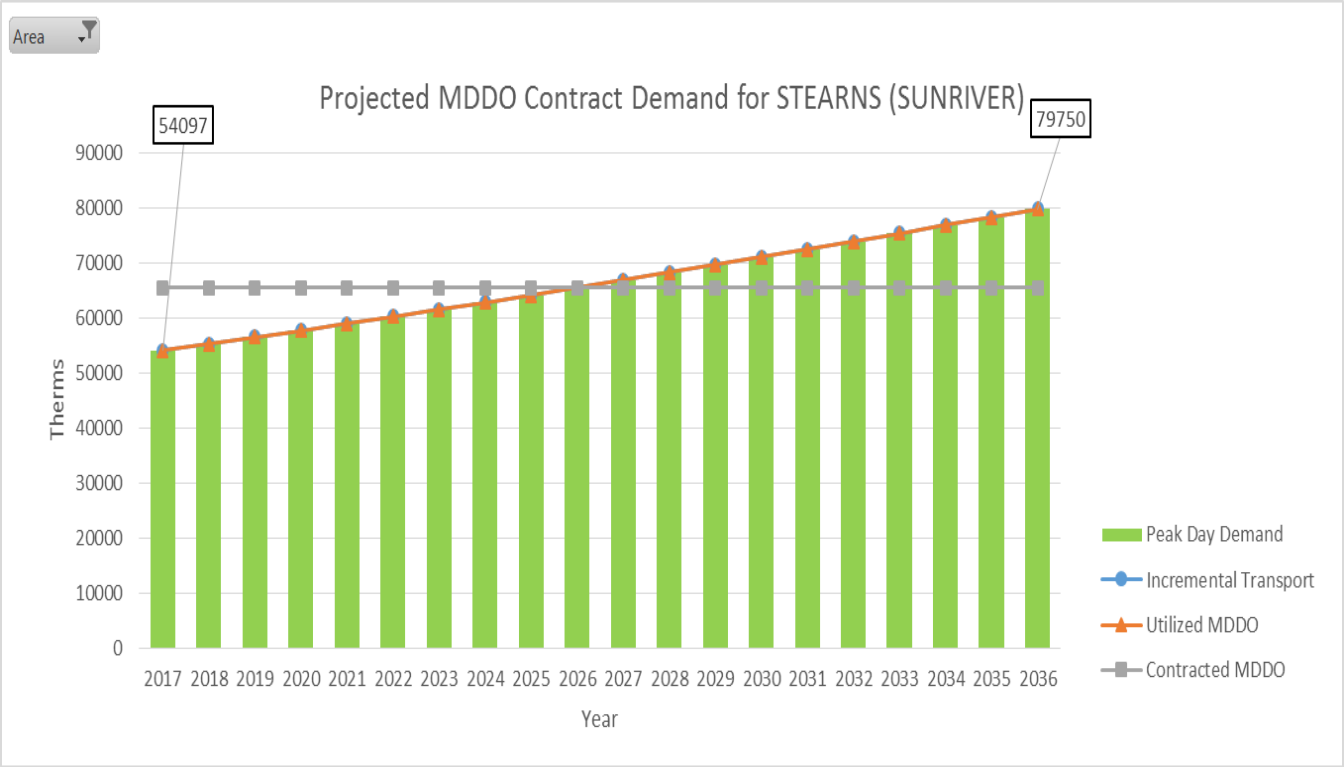

Area
Projected MDDO Contract Demand for QUINCY
5891
7389
14000
12000
10000
8000
6000
4000
2000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

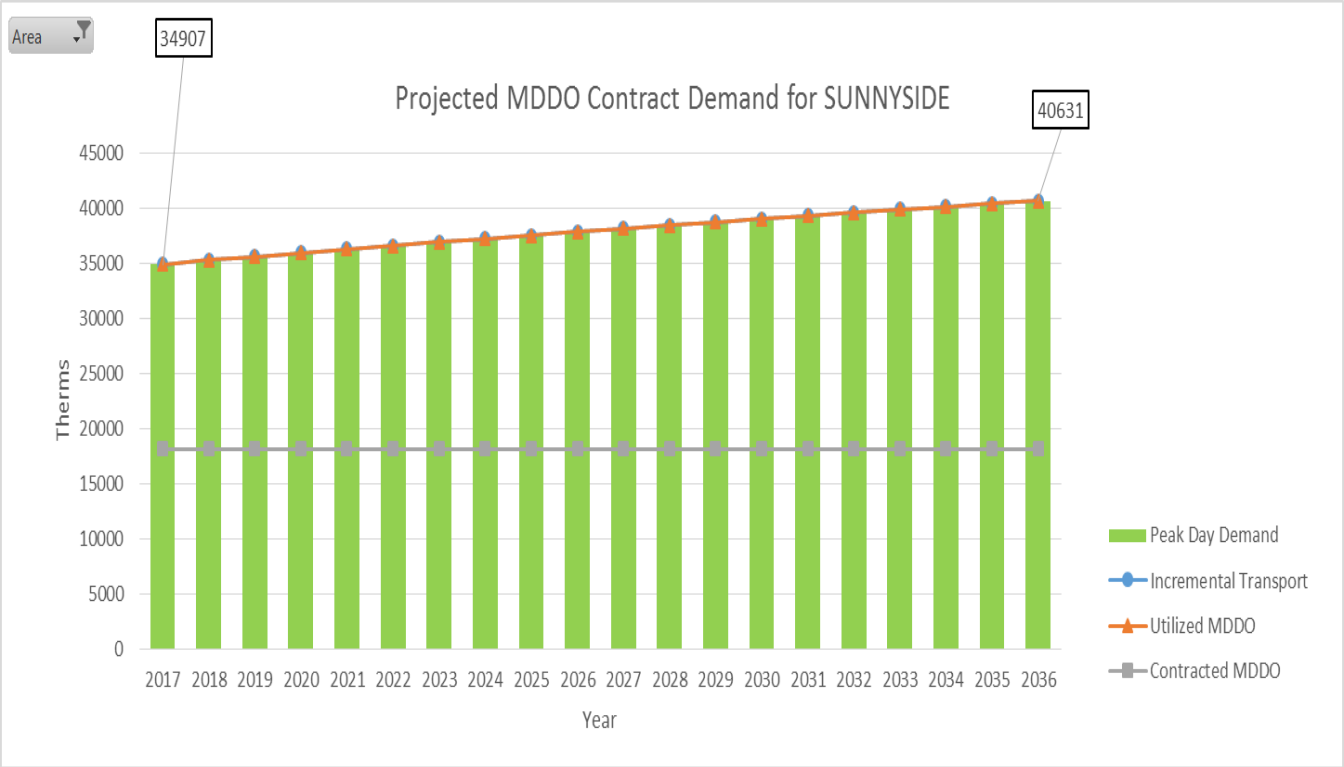

Area
Projected MDDO Contract Demand for REDMOND
104692
154881
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

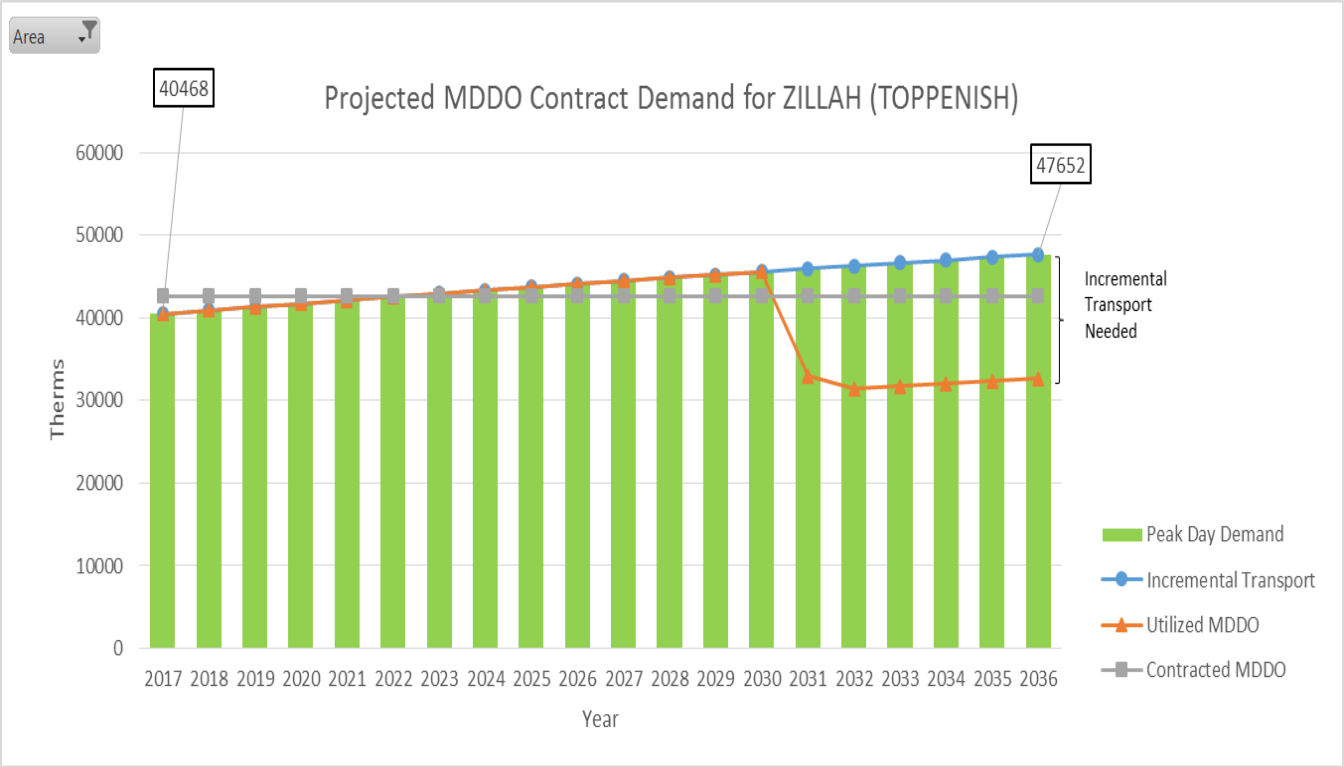

Area
293096
Projected MDDO Contract Demand for Sedro-Woolley Loop
372281
400000
350000
300000
250000
200000
150000
100000
50000
0
Therms
Incremental Transport Needed
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

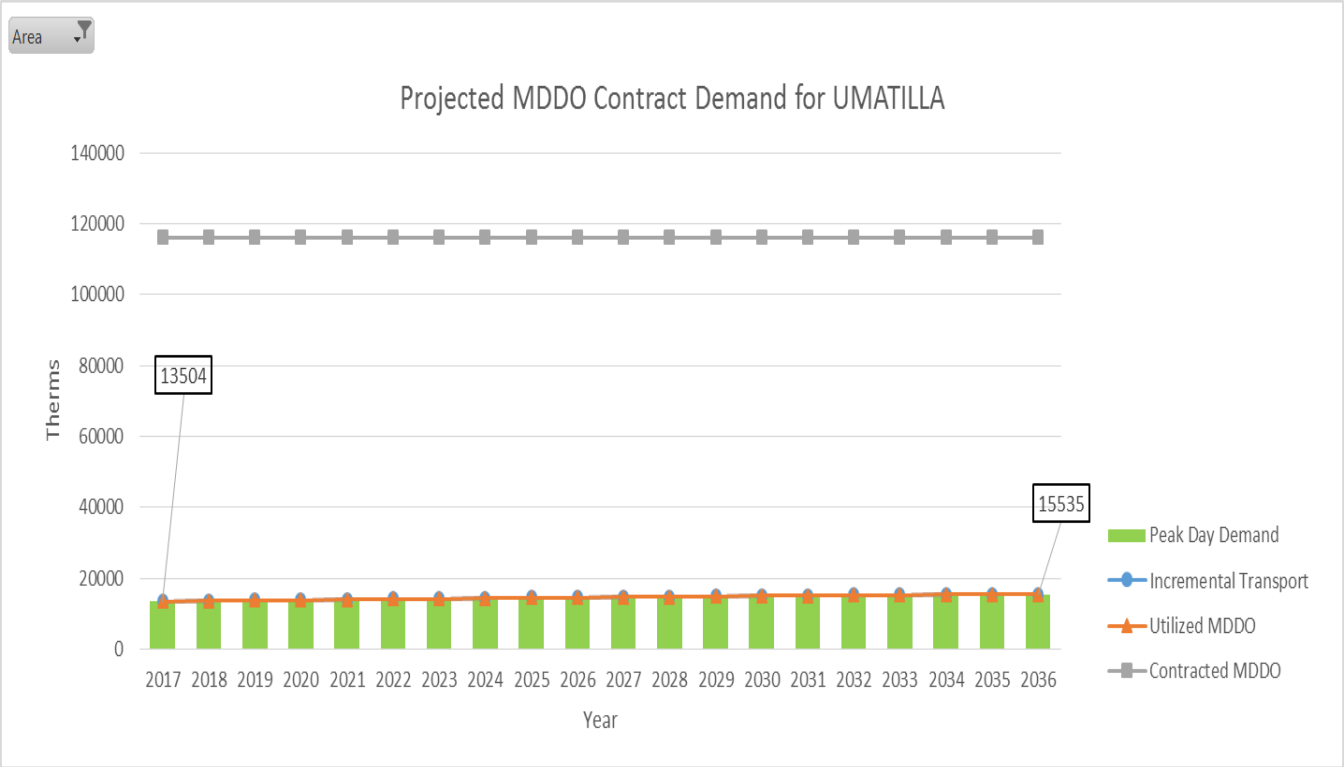

Area
Projected MDDO Contract Demand for Longview South Loop
300000
250000
200000
150000
100000
50000
0
Therms
51268
62871
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

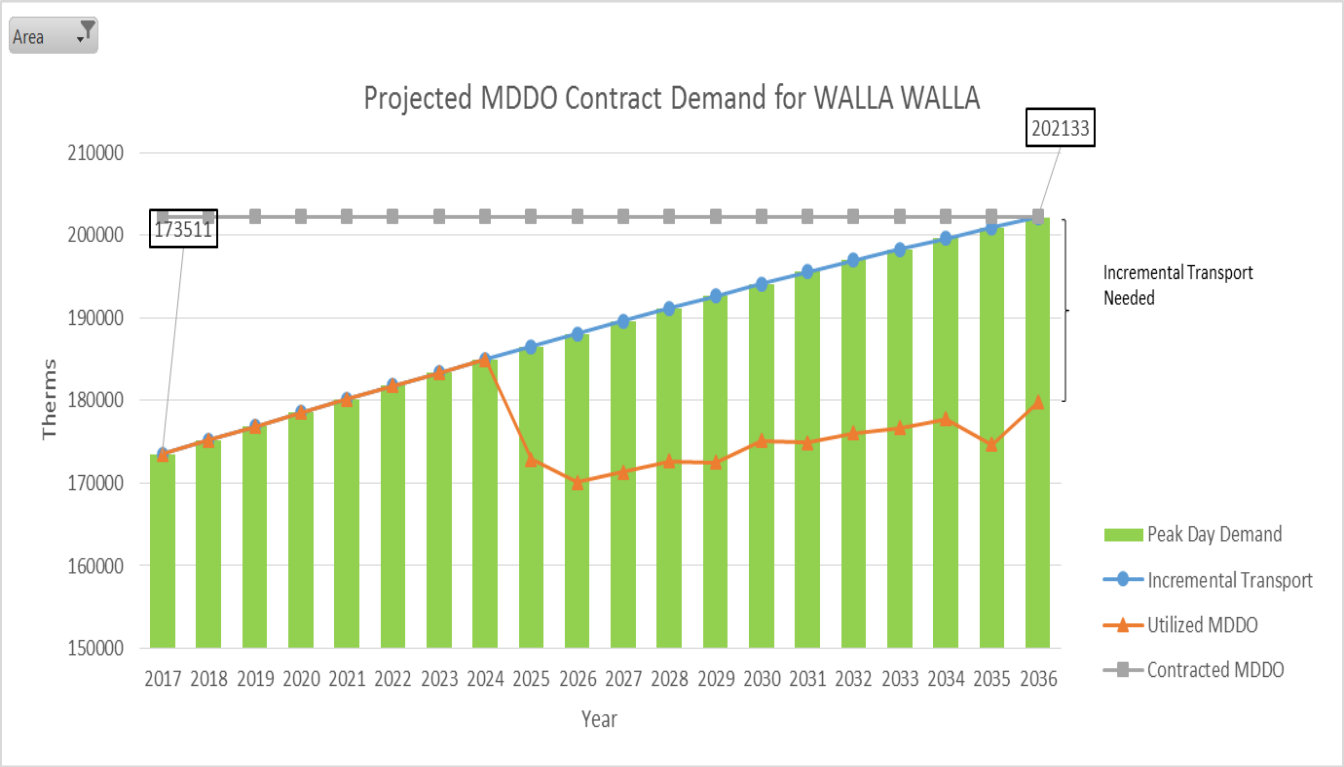

Area
Projected MDDO Contract Demand for STANFIELD
2973
3410
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

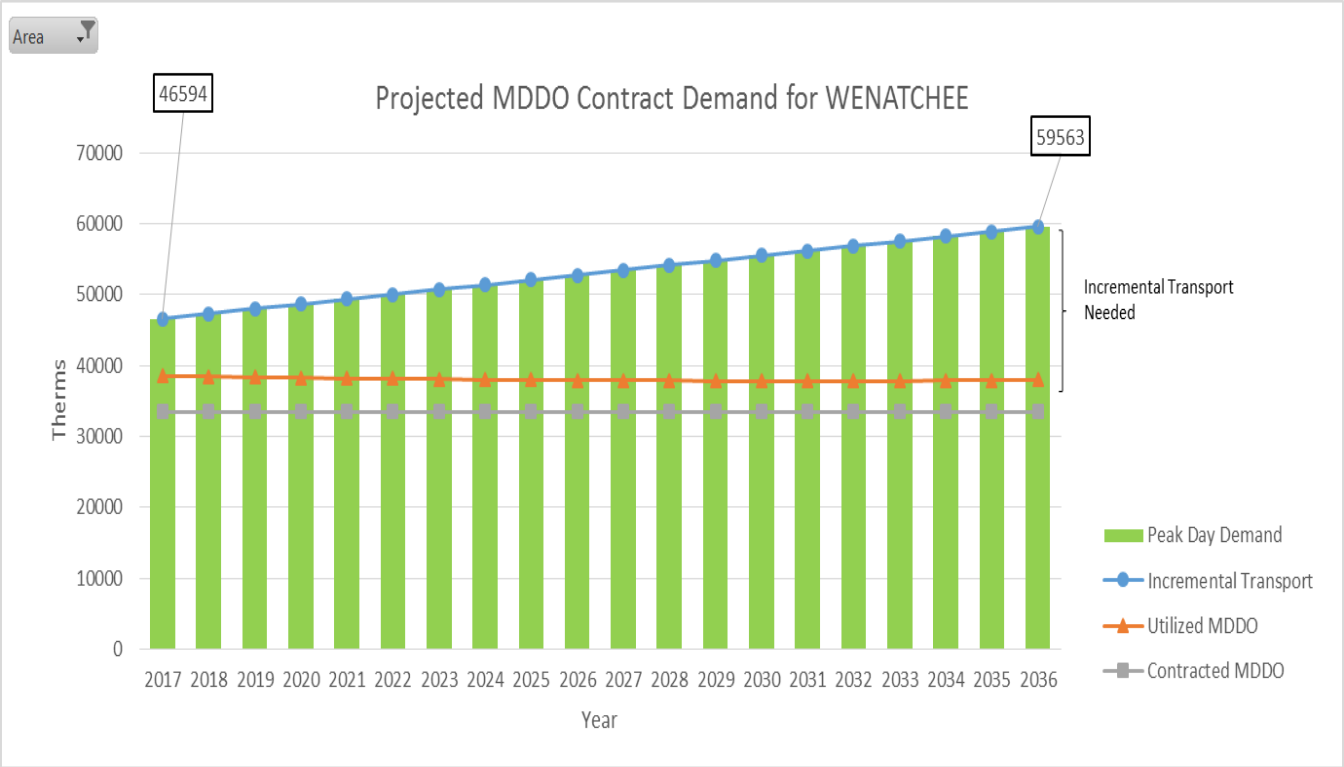

Area
Projected MDDO Contract Demand for STEARNS (SUNRIVER)
54097
79750
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

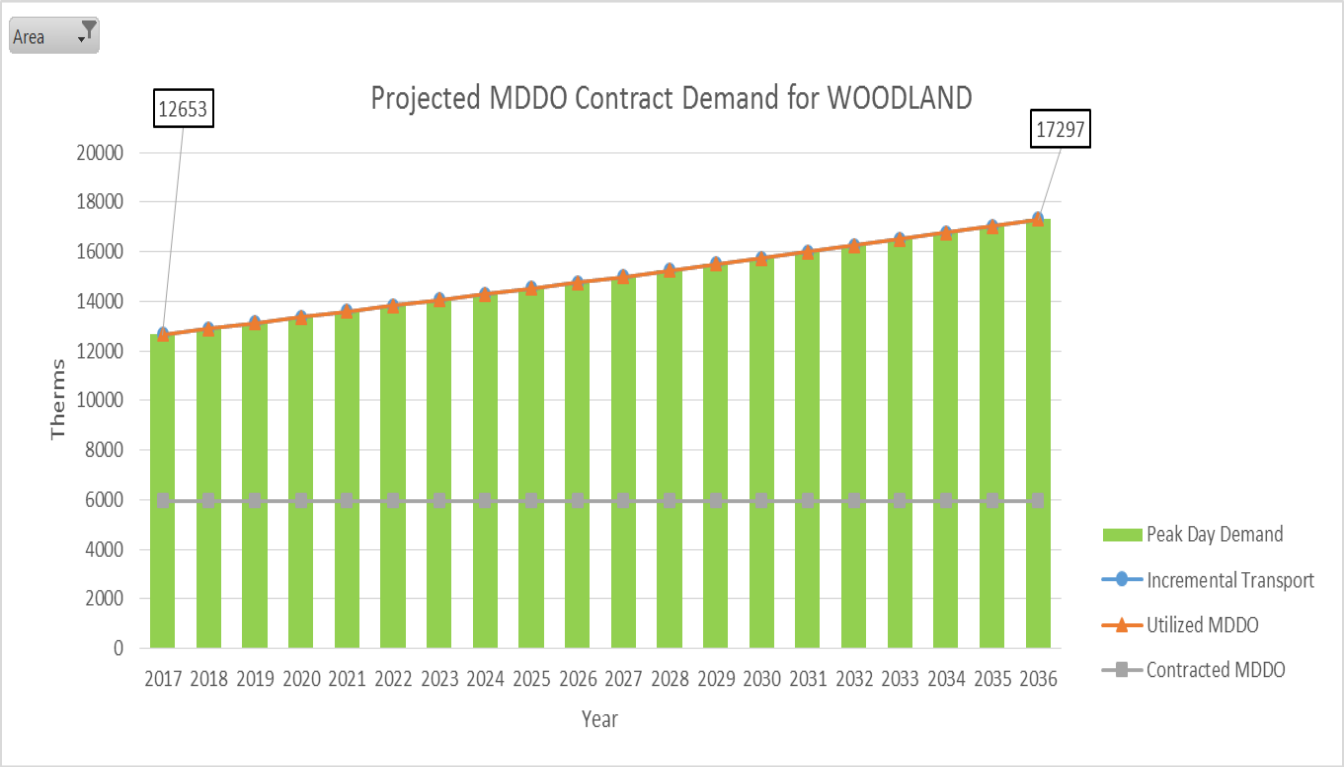

Area
34907
Projected MDDO Contract Demand for SUNNYSIDE
40631
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

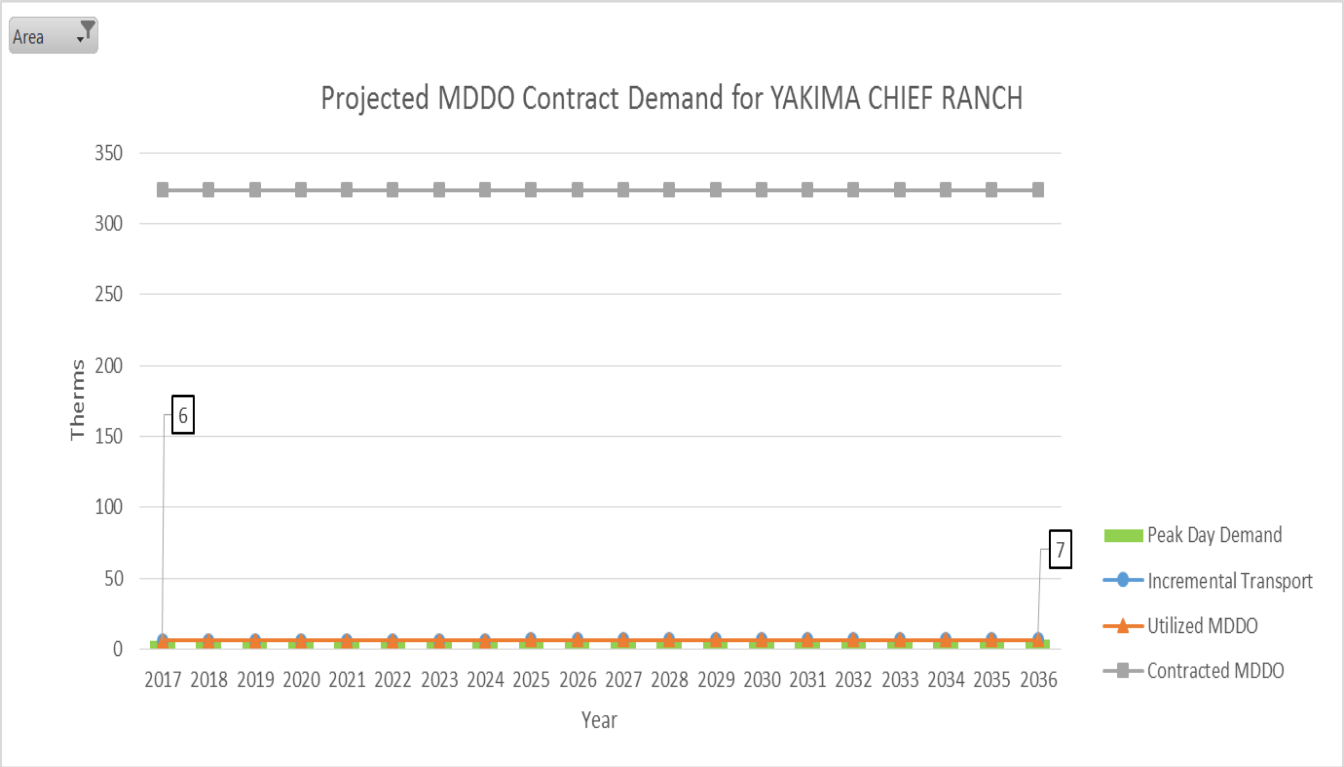

Area
Projected MDDO Contract Demand for ZILLAH (TOPPENISH)
40468
47652
Incremental Transport Needed
Therms
60000
50000
40000
30000
20000
10000
0
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

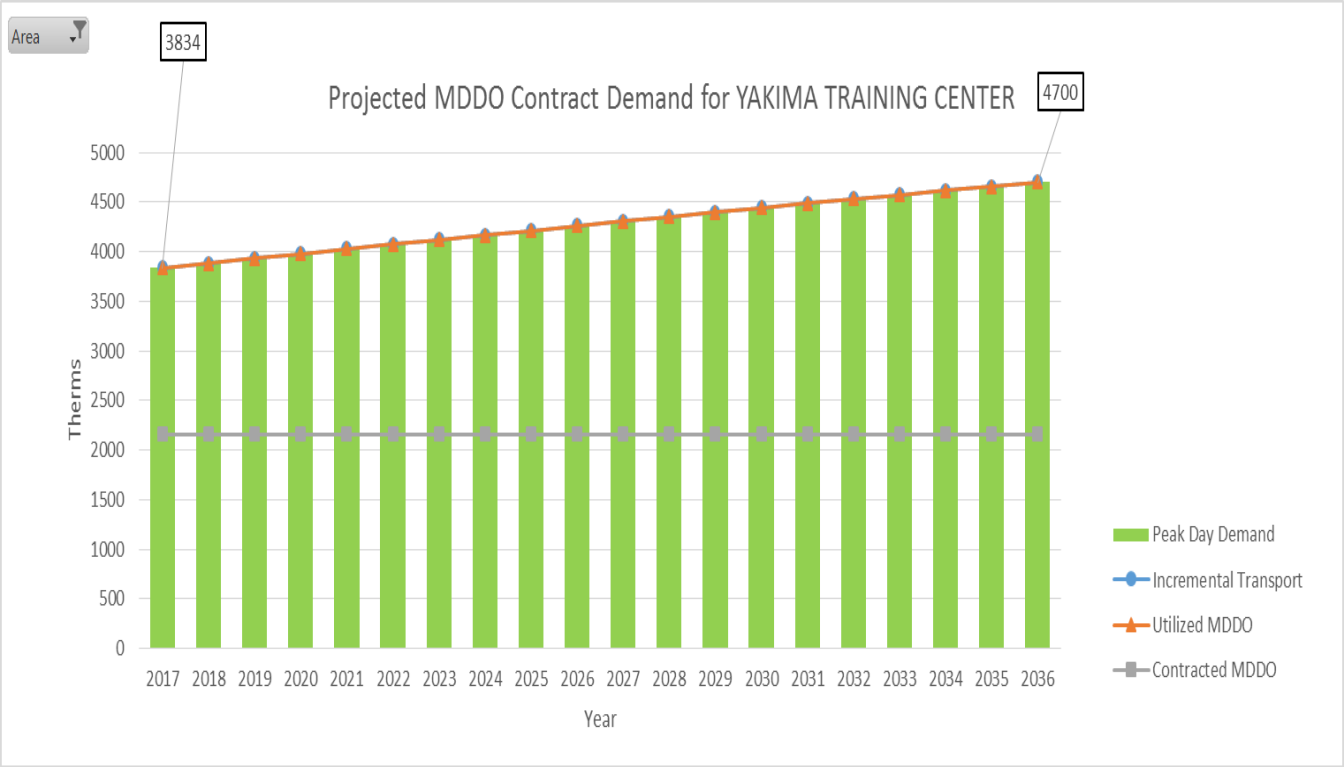

Area
Projected MDDO Contract Demand for UMATILLA
Therms
140000
120000
100000
80000
60000
40000
20000
0
13504
15535
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

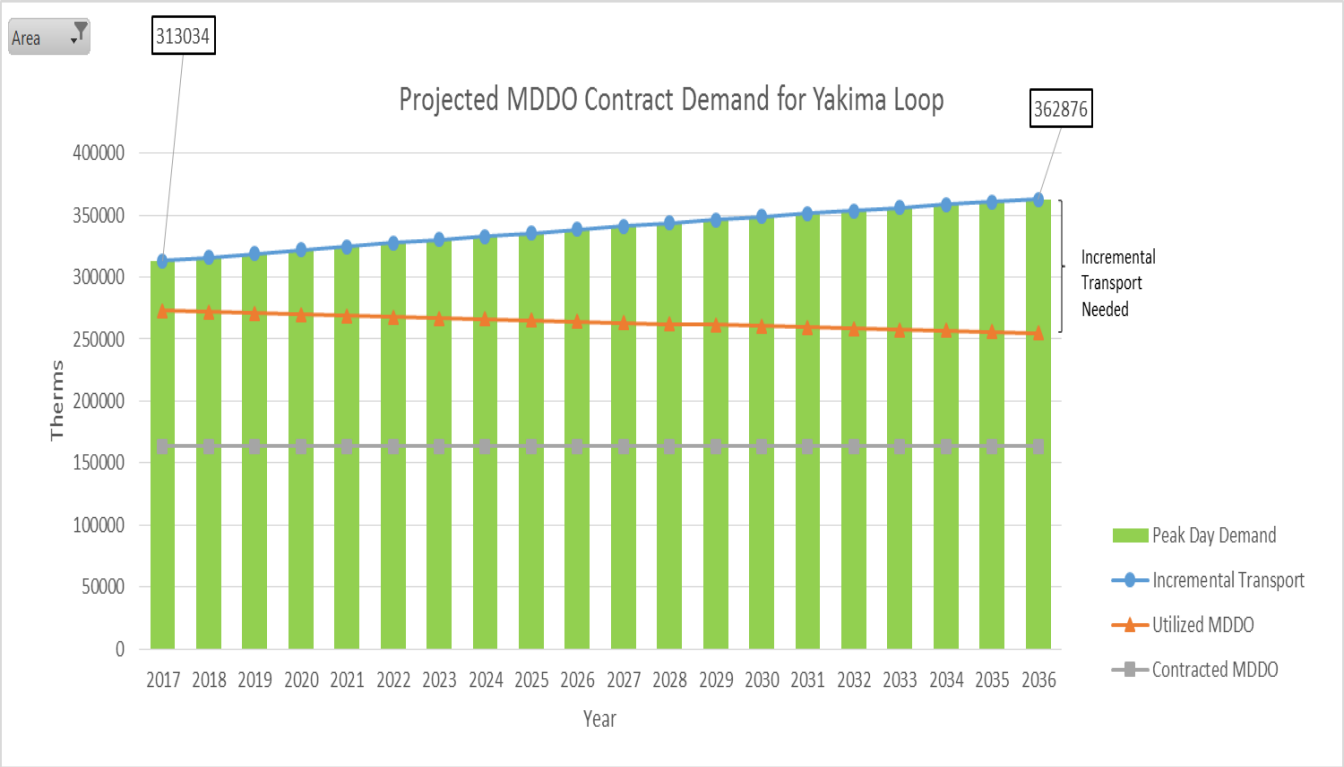

Area
Projected MDDO Contract Demand for WALLA WALLA
202133
173511
210000
200000
190000
180000
170000
160000
150000
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Incremental Transport Needed
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

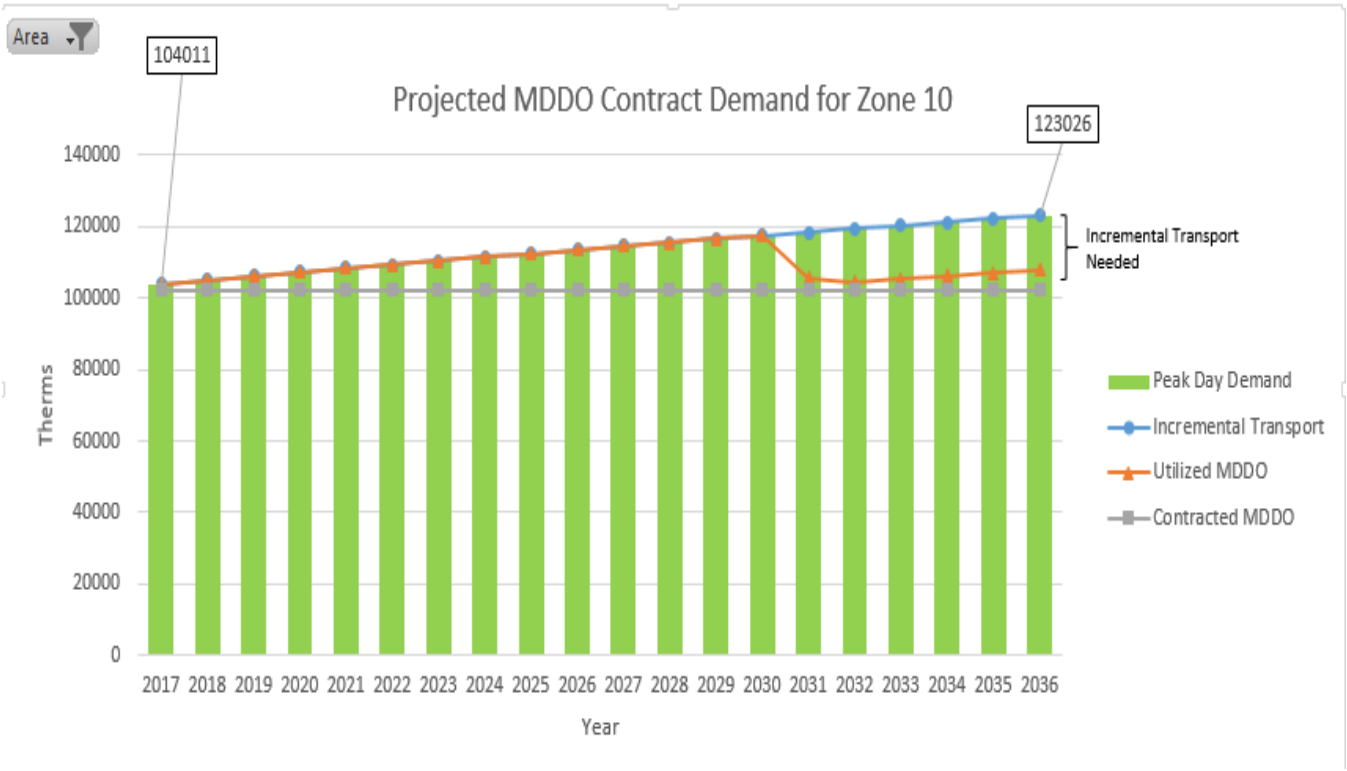

Area
46594
Projected MDDO Contract Demand for WENATCHEE
59563
70000
60000
50000
40000
30000
20000
10000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Incremental Transport Needed
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

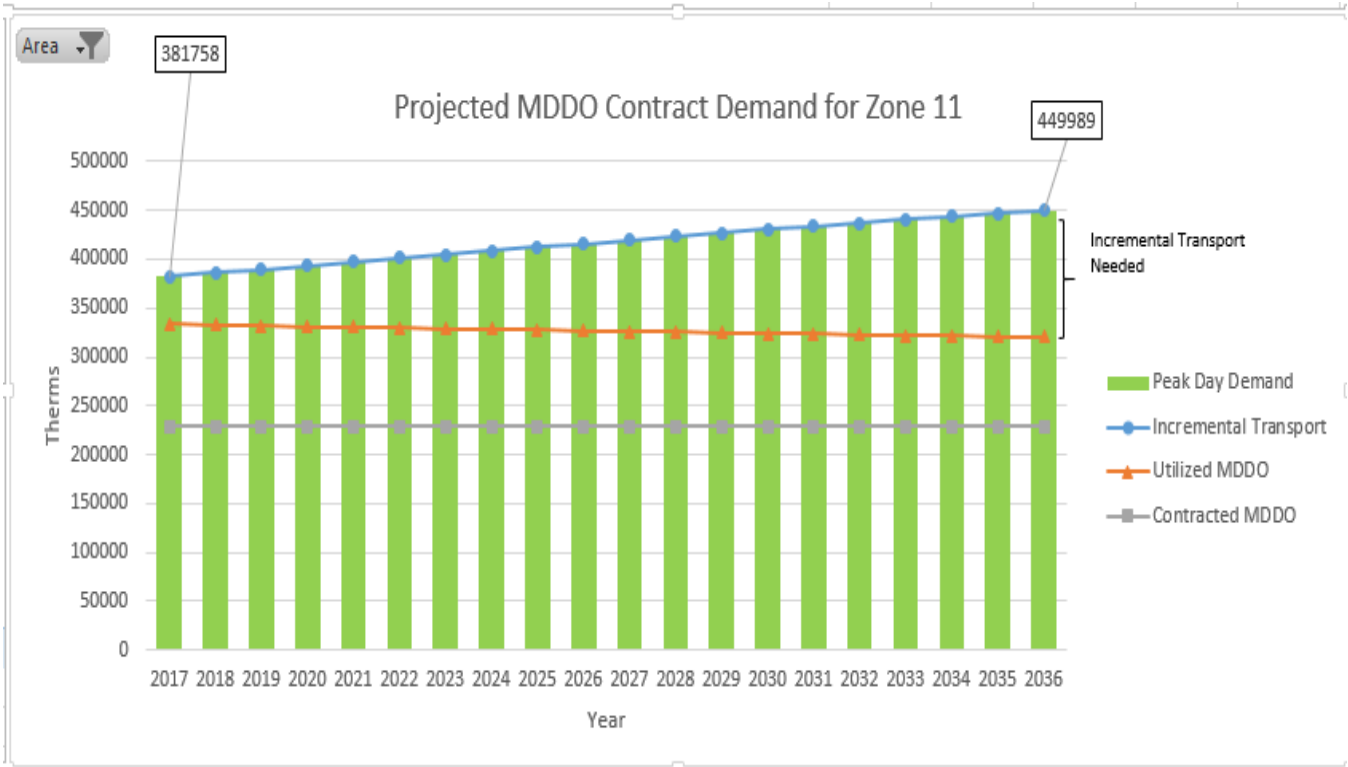

Area
Projected MDDO Contract Demand for WOODLAND
12653
17297
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

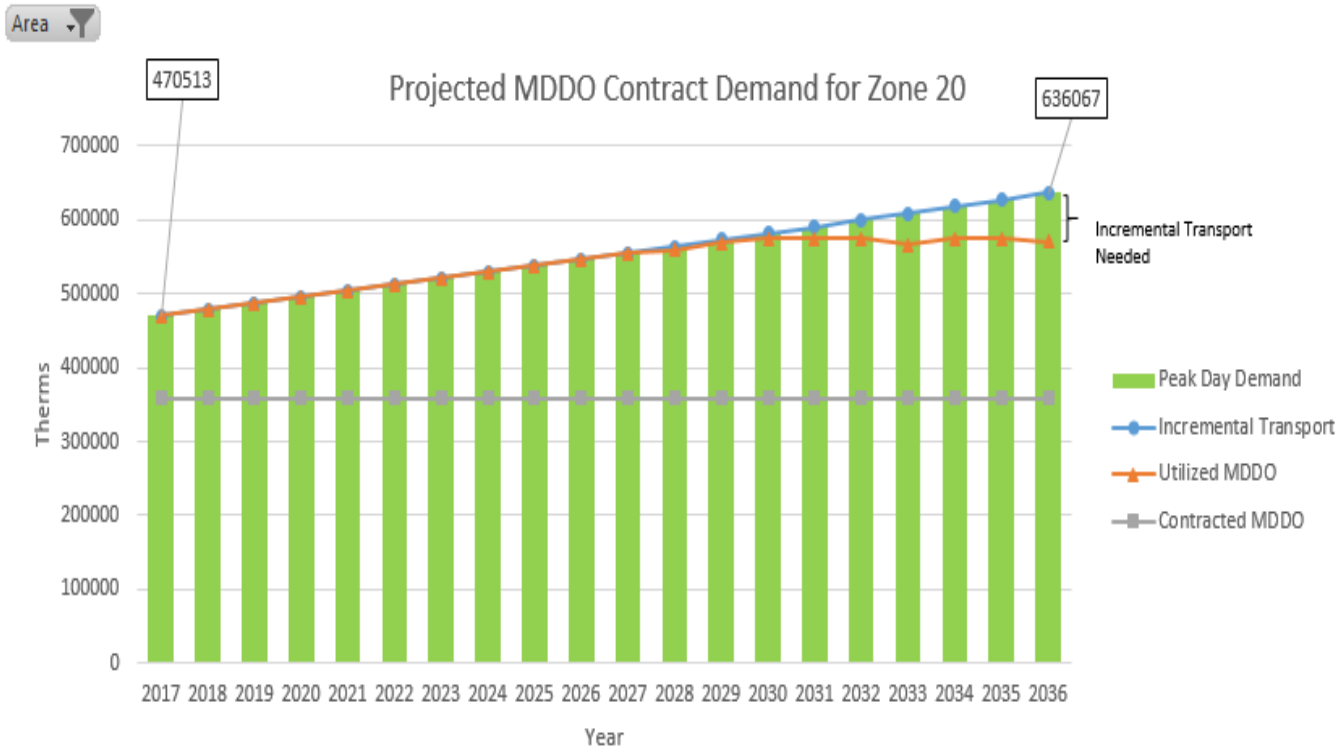

Area
Projected MDDO Contract Demand for YAKIMA CHIEF RANCH
350
300
250
200
150
100
50
0
Therms
6
7
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

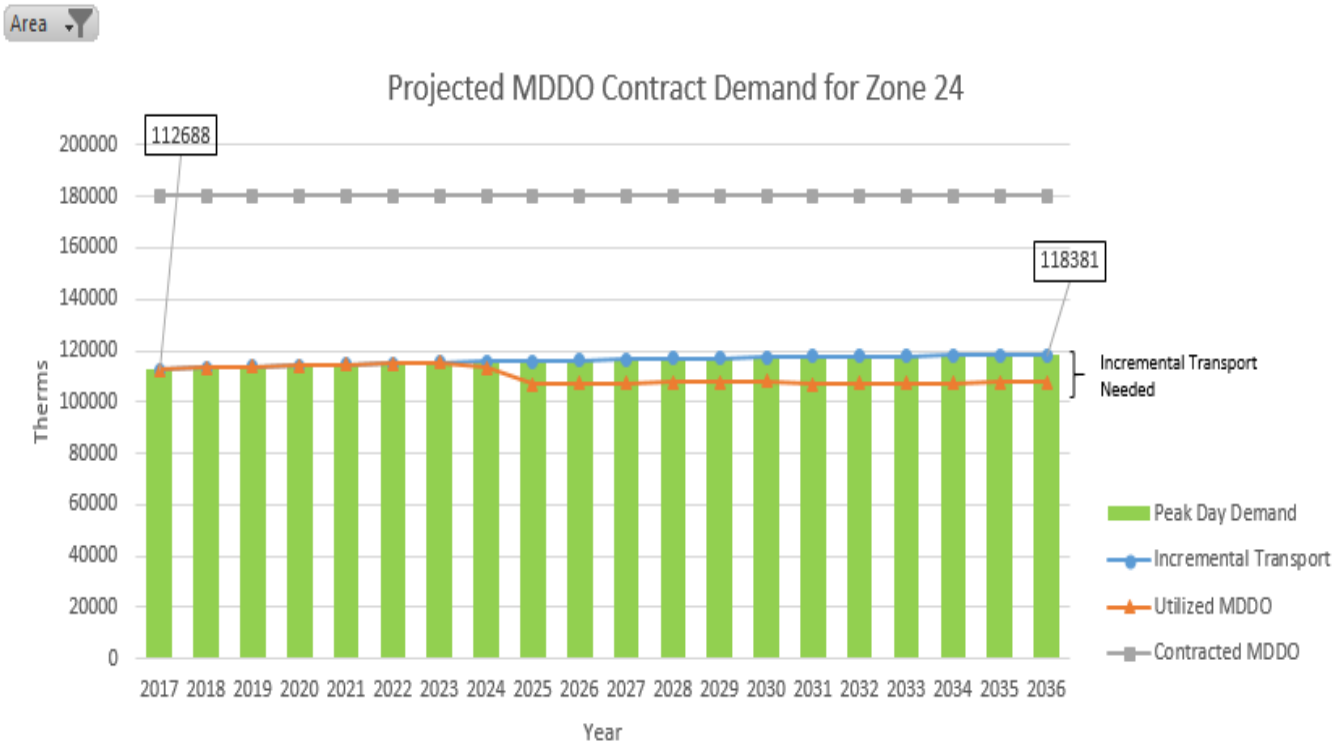

Area
3834
Projected MDDO Contract Demand for YAKIMA TRAINING CENTER
4700
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

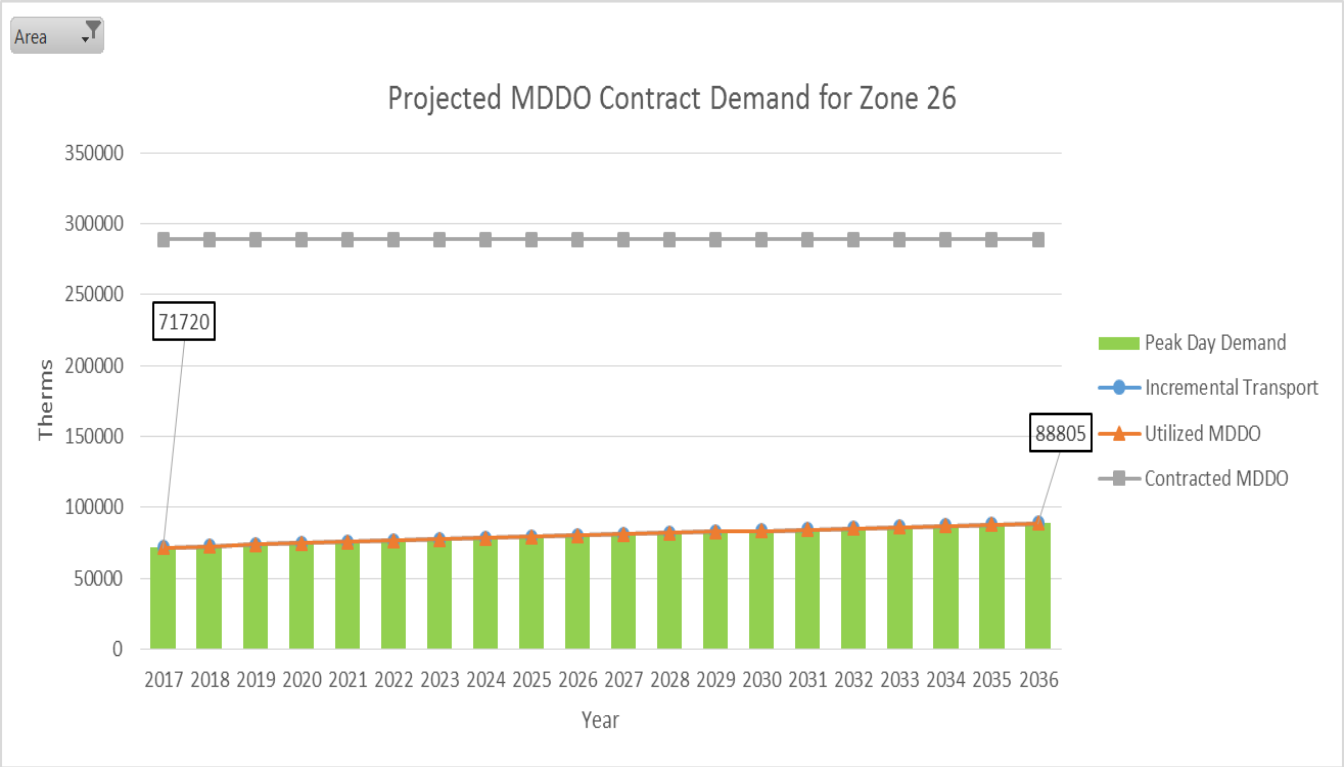

Area
313034
Projected MDDO Contract Demand for Yakima Loop
362876
400000
350000
300000
250000
200000
150000
100000
50000
0
Therms
Incremental Transport Needed
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

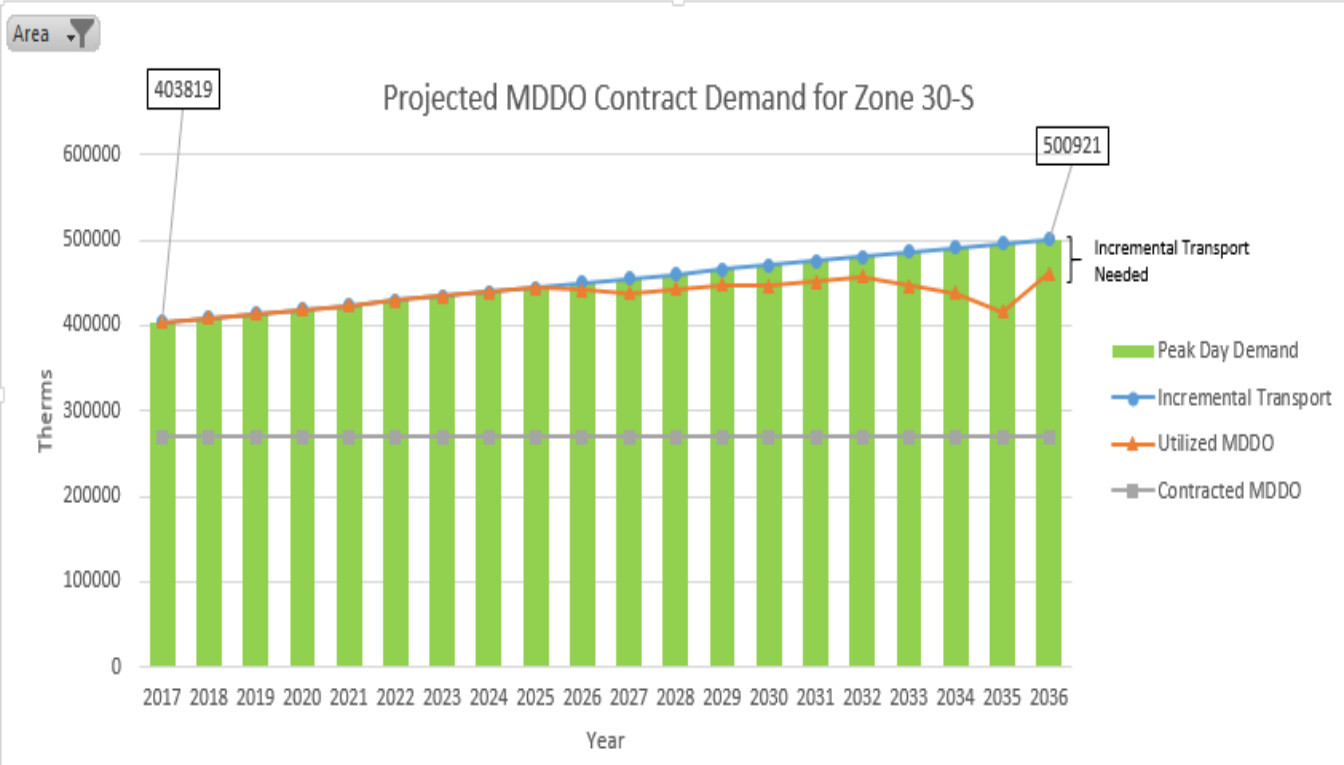

Area
104011
Projected MDDO Contract Demand for Zone 10
123026
140000
120000
100000
80000
60000
40000
20000
0
Therms
Incremental Transport Needed
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year

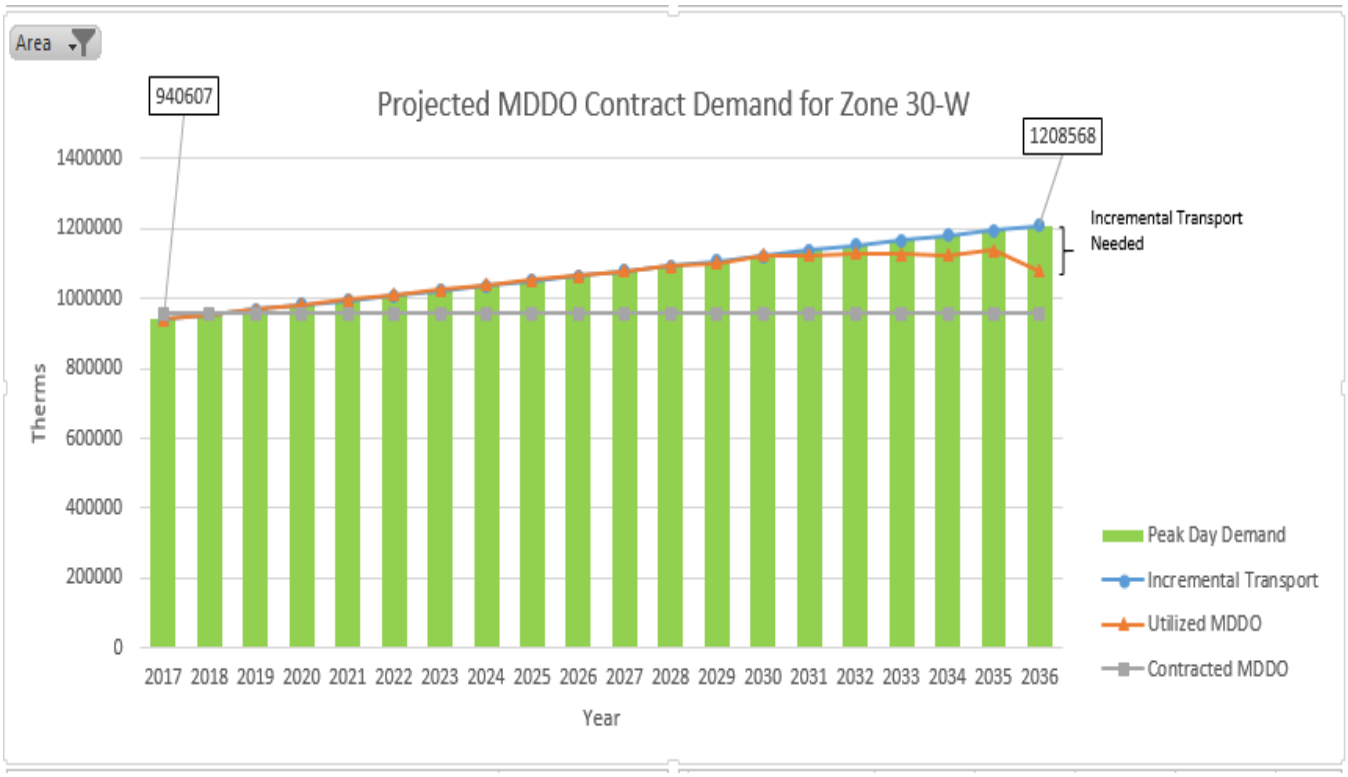

Area
381758
Projected MDDO Contract Demand for Zone 11
449989
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Therms
Incremental Transport Needed
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year

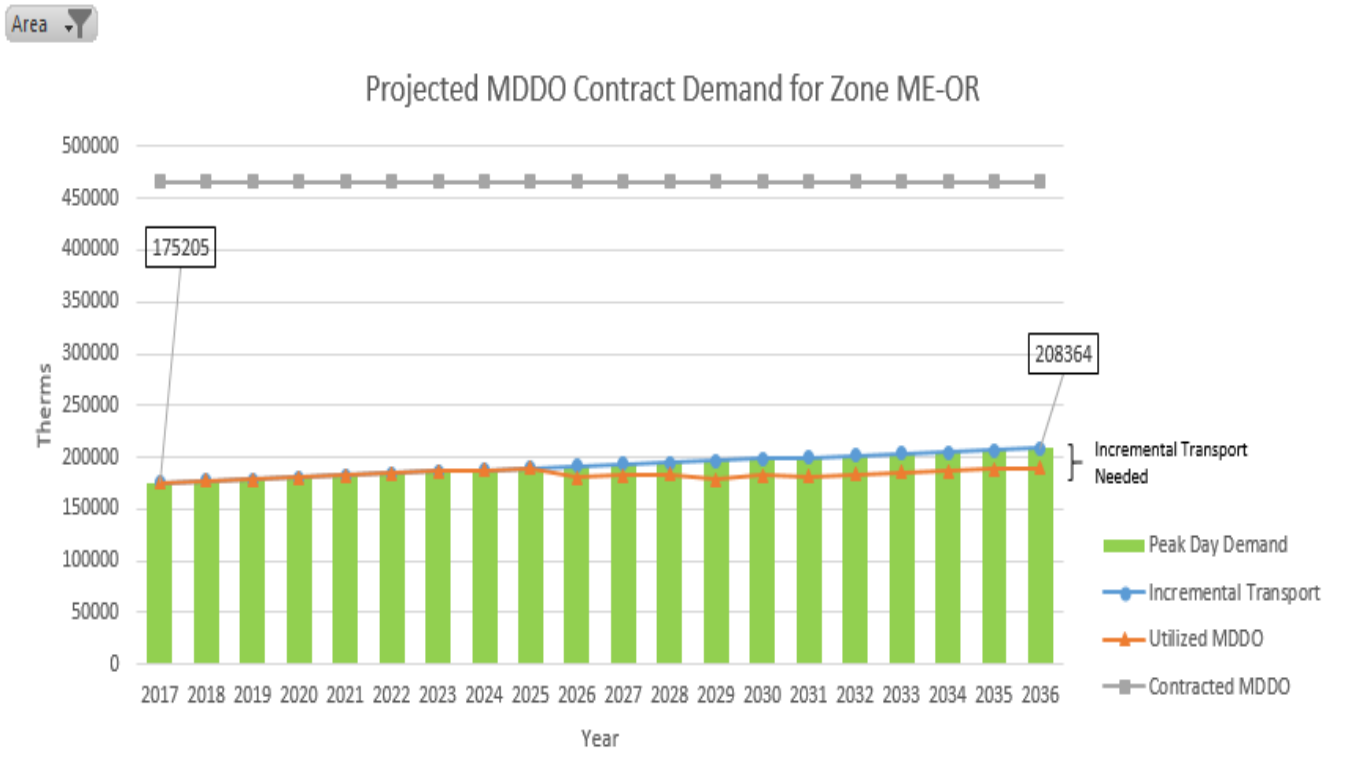

Area
Projected MDDO Contract Demand for Zone 20
470513
636067
Incremental Transport Needed
Therms
700000
600000
500000
400000
300000
200000
100000
0
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

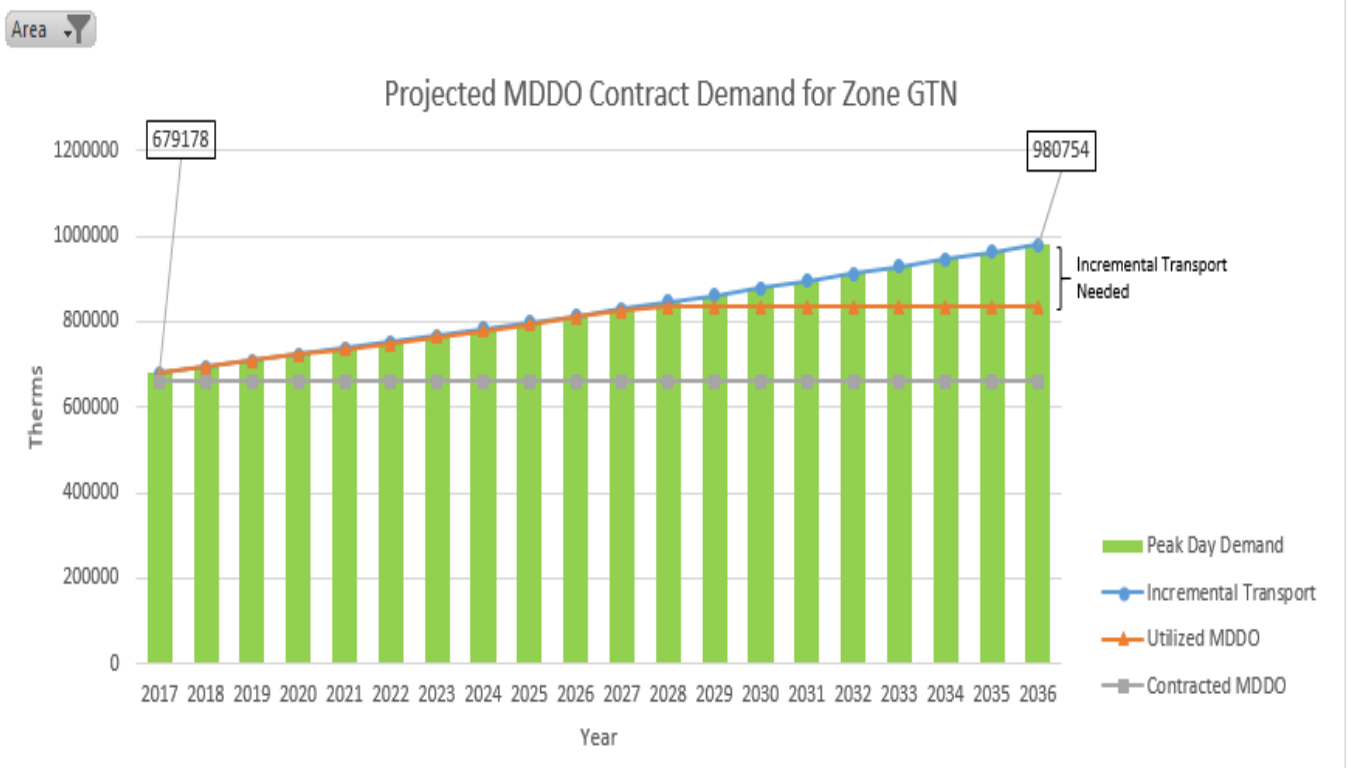

Area
Projected MDDO Contract Demand for Zone 24
112688
118381
Incremental Transport Needed
Therms
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

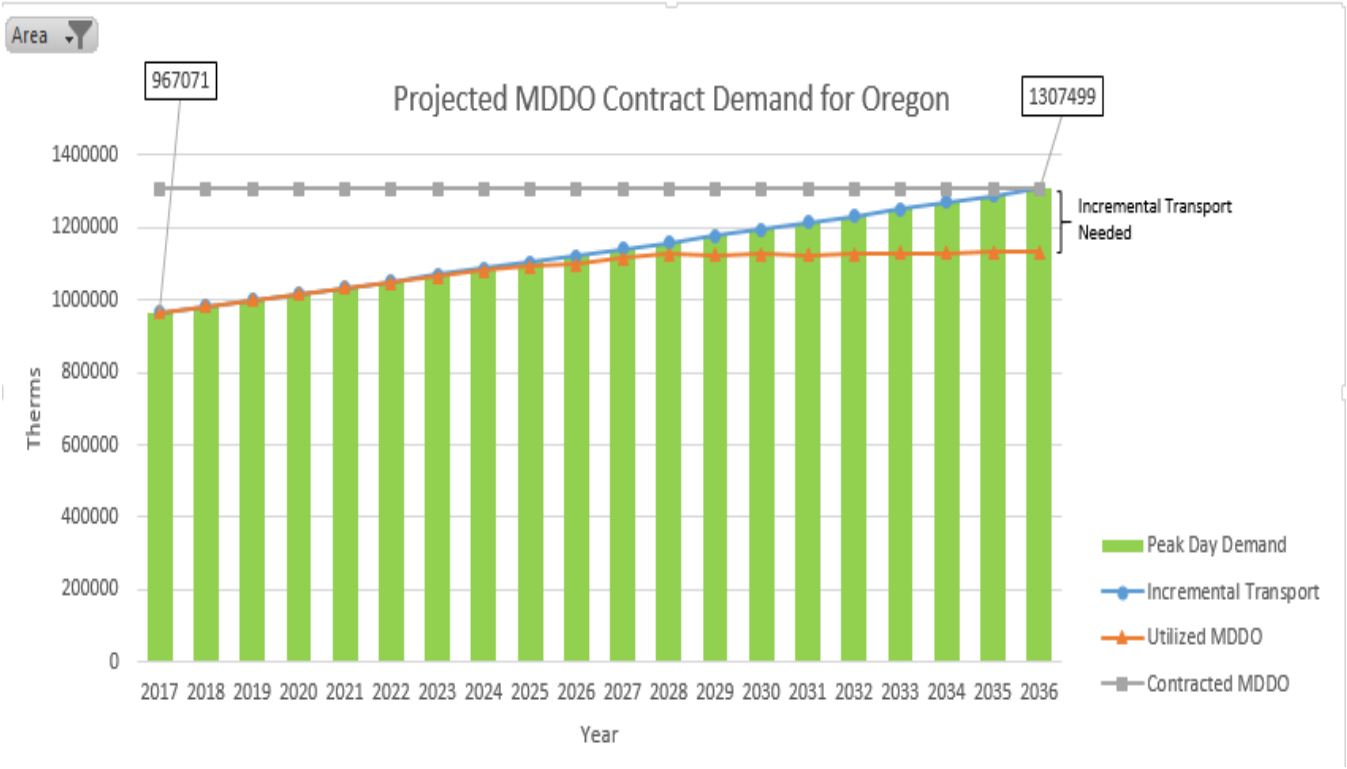

Area
Projected MDDO Contract Demand for Zone 26
350000
300000
250000
200000
150000
100000
50000
0
Therms
71720
88805
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year

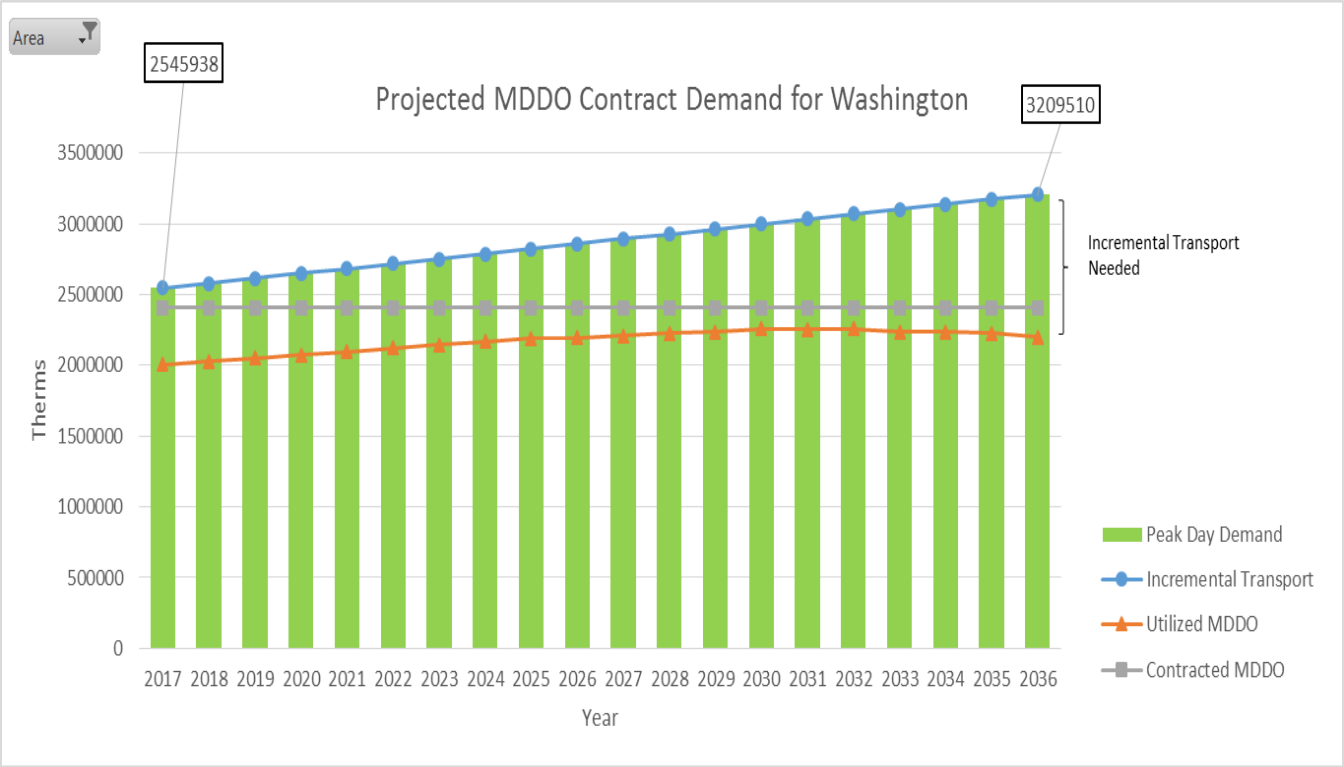

Area
Projected MDDO Contract Demand for Zone 30-S
403819
500921
600000
500000
400000
300000
200000
100000
0
Therms
Incremental Transport Needed
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year

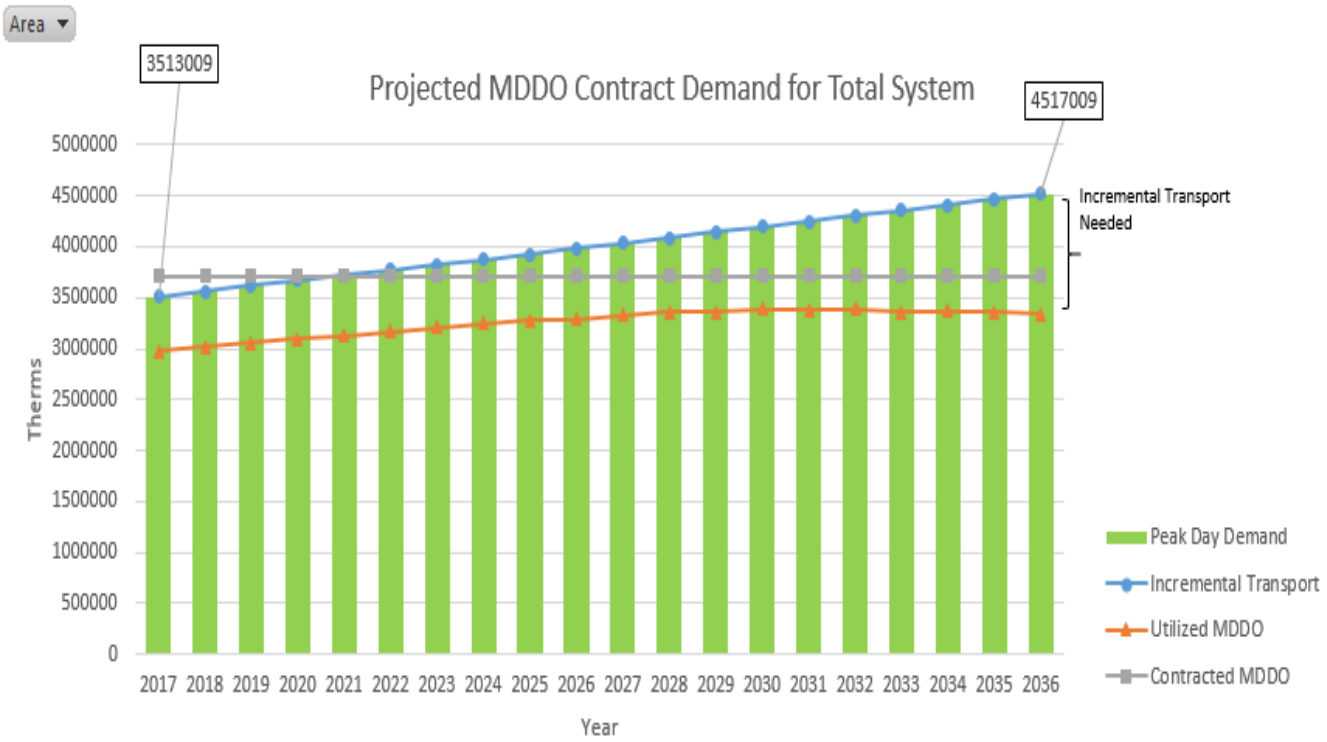

Area
Projected MDDO Contract Demand for Zone 30-W
940607
1208568
Incremental Transport Needed
1400000
1200000
1000000
800000
600000
400000
200000
0
Therms
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO


Area
Projected MDDO Contract Demand for Zone ME-OR
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Therms
175205
208364
Incremental Transport Needed
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO


Area
Projected MDDO Contract Demand for Zone GTN
679178
980754
Incremental Transport Needed
Therms
1200000
1000000
800000
600000
400000
200000
0
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO


Area
Projected MDDO Contract Demand for Oregon
967071
1307499
Incremental Transport Needed
Therms
1400000
1200000
1000000
800000
600000
400000
200000
0
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO


Area
Projected MDDO Contract Demand for Washington
2545938
3209510
Incremental Transport Needed
Therms
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO


Area
Projected MDDO Contract Demand for Total System
3513009
4517009
Incremental Transport Needed
Therms
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036
Year
Peak Day Demand
Incremental Transport
Utilized MDDO
Contracted MDDO

Appendix G

Weather & Price Uncertainty Analysis

UG-160453

Draw	2017	2018	2019	2020	2021	2022	2023
1	31,218,264	31,416,335	31,282,618	32,967,867	32,779,179	33,449,798	33,791,228
2	30,790,309	31,169,006	32,250,009	31,394,930	33,357,183	32,889,202	34,331,558
3	29,172,324	31,241,211	32,518,248	31,740,319	33,747,849	33,447,177	32,483,896
4	31,782,632	31,822,331	31,148,005	31,566,981	31,990,162	32,902,308	33,637,493
5	30,952,791	31,488,672	31,835,668	31,984,149	32,863,437	32,827,499	33,357,678
6	29,924,370	30,549,175	31,608,299	32,569,540	32,621,011	33,819,161	33,739,661
7	31,555,150	31,646,324	31,532,470	30,844,073	32,858,927	32,542,470	33,231,688
8	30,981,944	31,785,945	32,048,682	31,342,178	32,860,419	34,130,076	33,546,764
9	30,843,910	30,789,649	32,204,370	32,122,912	33,398,545	32,152,614	33,151,978
10	30,236,812	31,559,380	31,662,476	31,781,456	33,243,429	33,578,894	33,534,637
11	30,701,748	31,409,762	31,599,926	32,447,716	32,706,079	33,168,560	34,205,567
12	30,408,816	32,130,376	32,138,850	32,523,037	32,312,657	33,151,381	33,880,057
13	30,891,088	31,783,821	32,201,385	32,064,794	32,760,072	33,794,496	33,097,308
14	30,730,086	31,847,194	31,904,657	32,565,673	31,691,168	33,672,859	33,010,448
15	30,724,453	30,850,327	32,620,281	32,439,093	32,940,451	32,516,389	33,281,307
16	31,338,698	32,085,896	31,689,773	32,467,949	33,115,979	32,586,356	33,146,632
17	31,666,772	31,675,083	30,861,313	31,359,212	32,361,539	32,819,892	33,147,936
18	31,024,803	31,425,931	31,236,484	32,633,476	31,940,001	33,525,844	33,546,194
19	31,445,258	31,026,470	31,600,117	31,284,999	33,222,038	33,170,531	33,570,671
20	30,576,159	31,091,919	31,725,965	32,426,620	32,337,697	32,320,554	33,371,348
21	31,512,087	31,370,996	32,127,907	32,341,598	32,786,115	32,219,165	32,574,686
22	30,327,079	30,771,152	31,224,476	31,596,541	31,934,515	33,311,451	33,749,133
23	30,410,583	31,832,650	31,493,980	32,906,231	32,535,624	33,995,148	34,285,330
24	30,850,121	31,856,521	31,832,673	31,180,480	33,295,464	33,452,320	32,965,882
25	30,733,472	31,178,624	31,239,233	32,619,032	32,760,551	32,893,324	33,290,294
26	31,326,211	31,205,895	31,143,564	31,432,853	32,708,367	33,275,259	32,372,022
27	30,967,296	31,554,317	32,105,078	31,010,450	32,551,016	32,553,874	34,583,694
28	31,016,506	31,800,071	32,222,313	32,006,944	33,184,614	33,701,924	33,793,756
29	31,002,502	31,560,249	32,439,298	33,072,825	32,785,873	33,644,302	32,565,887
30	30,878,783	31,957,399	30,739,633	32,090,914	32,488,659	33,820,047	33,586,548
31	30,738,098	31,182,468	32,036,494	32,228,361	32,781,870	33,581,021	33,855,889
32	31,399,529	31,092,743	31,940,320	31,981,333	32,833,414	33,714,215	33,853,145
33	30,164,992	30,725,336	31,981,303	32,922,596	33,211,885	32,810,236	33,727,795
34	31,353,603	32,105,994	32,377,702	32,309,883	32,229,256	33,641,049	33,120,685
35	30,913,334	31,220,562	31,269,954	31,606,279	31,942,341	33,369,861	33,627,094
36	31,147,109	31,881,571	32,203,390	32,715,880	32,452,382	32,996,157	32,829,469
37	30,870,888	31,852,898	32,140,147	32,749,597	32,725,423	31,825,275	33,657,779
38	32,451,685	31,818,121	31,186,228	31,964,795	34,220,524	33,314,073	34,548,320
39	30,840,750	31,350,499	31,148,690	32,513,305	33,086,857	33,329,018	32,842,442
40	30,040,241	31,678,490	32,445,992	32,081,139	32,814,471	34,324,567	34,108,208
41	30,526,731	31,840,335	31,373,472	32,174,224	32,920,787	33,444,805	32,843,751
42	31,221,012	31,200,011	31,125,702	31,642,971	32,200,633	33,308,018	33,695,043
43	30,945,818	31,589,523	32,470,127	32,363,892	32,463,503	33,001,691	32,824,298
44	31,053,720	31,957,880	32,729,995	32,772,339	32,953,079	33,329,145	33,595,920
45	30,824,403	31,874,588	31,075,091	31,736,390	32,797,602	33,019,597	35,069,917
46	30,214,969	31,976,634	32,408,671	32,021,902	32,593,729	33,610,123	33,897,726
47	31,885,688	32,401,165	31,975,495	32,552,635	33,796,182	32,548,866	32,840,398
48	30,903,591	31,392,215	31,730,123	33,409,997	32,382,787	33,576,985	32,084,882
49	31,496,740	31,064,724	32,421,425	32,407,197	32,513,672	32,910,769	33,354,339
50	31,072,056	31,136,453	32,156,867	32,463,773	33,615,888	33,285,106	33,379,490

Draw	2017	2018	2019	2020	2021	2022	2023
51	30,198,484	32,204,828	33,013,478	32,141,827	33,215,376	33,497,990	34,087,388
52	30,581,674	31,825,249	31,503,959	33,431,561	31,873,403	33,715,403	34,062,332
53	30,837,449	31,929,350	31,494,836	32,214,043	32,363,937	34,346,954	33,373,987
54	30,018,887	31,004,516	32,067,239	32,392,112	32,807,722	33,372,530	33,745,867
55	30,579,260	32,300,917	31,768,253	31,833,668	32,965,359	33,881,070	34,144,672
56	31,169,762	31,353,061	33,206,232	32,147,095	32,184,319	33,232,627	32,816,840
57	30,832,117	31,360,304	32,096,137	32,716,396	31,984,572	34,265,431	33,768,686
58	31,386,895	31,582,393	31,886,865	32,165,147	32,921,221	32,999,558	34,127,915
59	30,436,301	31,001,471	32,170,628	32,808,436	32,584,293	33,174,374	34,063,436
60	31,419,360	31,764,899	33,051,218	33,120,664	33,280,306	33,703,549	33,896,990
61	30,743,811	31,331,208	31,552,277	31,968,419	32,883,205	33,187,190	33,968,130
62	30,890,647	31,131,377	31,935,096	32,057,867	34,322,810	32,956,308	34,457,819
63	30,246,290	31,063,588	33,190,713	31,855,747	32,518,128	33,195,704	33,357,706
64	31,122,655	31,424,231	31,905,128	32,821,031	32,980,084	33,443,555	32,763,559
65	31,199,483	30,668,858	31,361,875	31,572,680	32,931,244	33,098,328	33,740,981
66	30,594,120	30,691,662	31,912,971	32,302,683	32,543,331	34,100,250	34,162,941
67	30,762,401	32,140,467	31,240,298	33,193,614	32,672,397	32,563,207	32,835,487
68	29,707,651	31,642,837	31,063,969	32,761,124	32,629,431	32,758,197	33,312,616
69	30,878,069	30,217,077	31,632,485	33,815,169	33,021,785	33,998,457	33,329,841
70	30,656,285	31,080,990	31,259,399	31,734,542	32,592,970	34,156,889	33,446,645
71	31,321,637	31,388,548	31,224,520	32,684,478	32,983,197	33,675,270	33,096,016
72	30,364,830	31,057,050	32,108,540	33,286,557	32,570,290	32,975,733	32,130,626
73	30,605,826	32,253,664	32,653,727	31,279,559	32,383,443	33,524,493	34,017,432
74	31,055,542	30,705,546	31,416,354	31,759,800	33,049,369	32,369,673	33,619,873
75	31,014,783	30,764,304	32,331,317	33,580,942	32,694,193	33,355,507	33,757,397
76	30,487,902	31,072,978	32,294,302	32,977,673	32,714,205	32,801,163	33,233,095
77	30,456,542	31,540,512	31,832,623	33,128,579	32,463,754	32,975,252	32,763,295
78	32,145,874	31,371,303	32,614,097	32,716,690	32,435,462	33,602,168	33,753,922
79	30,091,975	31,280,866	31,542,059	32,230,811	32,057,402	33,033,799	33,506,617
80	31,225,863	31,806,192	31,722,698	32,768,862	33,021,140	33,296,809	33,848,667
81	30,938,447	31,251,224	31,861,576	31,479,594	32,885,032	33,210,582	34,104,870
82	30,183,851	31,789,396	32,130,752	32,261,926	33,227,487	34,285,052	32,610,117
83	30,836,007	30,076,780	31,251,630	32,824,424	31,816,345	32,722,822	34,739,050
84	30,575,094	31,434,358	31,407,599	32,082,354	32,355,337	33,054,203	33,720,126
85	31,008,599	32,022,684	32,026,544	31,905,255	32,015,246	33,121,462	32,942,458
86	30,241,856	32,344,535	31,763,180	33,665,058	32,607,169	33,269,094	32,893,642
87	31,119,626	30,886,410	32,278,774	32,507,375	32,932,630	33,361,072	34,354,908
88	30,369,489	31,424,789	31,904,309	32,440,900	31,736,463	33,431,095	33,430,649
89	29,937,291	31,630,302	31,405,815	33,205,865	32,711,556	33,135,381	32,869,599
90	31,224,243	31,087,667	30,744,350	32,922,219	32,412,045	33,153,182	33,205,577
91	31,088,937	32,079,695	31,867,371	31,828,824	32,796,777	33,585,842	32,691,128
92	30,722,719	32,591,322	31,183,430	32,501,030	33,988,662	32,670,225	33,583,766
93	31,498,171	30,516,209	31,841,564	32,646,821	31,865,494	33,028,390	34,621,000
94	31,065,889	32,215,359	31,941,185	30,773,939	32,603,226	33,120,551	33,918,435
95	30,509,978	31,947,614	32,470,370	32,234,479	33,643,617	33,472,053	33,526,947
96	31,328,713	30,524,467	32,655,244	32,662,105	31,986,906	34,288,803	33,780,131
97	30,890,002	30,856,677	31,267,749	33,279,714	31,948,288	33,628,086	33,667,627
98	31,195,624	30,943,602	30,881,542	32,417,918	32,530,840	33,216,928	33,673,336
99	30,572,494	31,105,630	32,171,103	32,690,209	31,520,598	33,464,616	33,646,736
100	30,564,820	32,295,862	32,993,513	32,168,473	33,071,942	32,963,666	33,017,592

Draw	2017	2018	2019	2020	2021	2022	2023
101	30,431,365	30,536,040	31,891,752	32,313,763	32,770,219	33,786,457	33,106,506
102	31,232,764	31,706,143	31,031,198	33,277,689	33,723,886	33,053,566	33,790,528
103	30,716,257	32,745,497	32,014,558	32,711,537	32,391,570	33,141,214	34,039,335
104	31,498,478	31,628,418	31,680,475	31,277,691	31,132,201	32,820,978	33,671,215
105	30,003,105	31,669,807	32,225,506	31,656,539	32,692,751	32,422,674	33,525,919
106	30,697,271	31,651,999	32,012,388	33,327,421	33,132,839	32,254,661	32,330,185
107	31,219,218	30,715,366	31,414,716	31,467,061	32,251,140	32,810,686	33,425,759
108	31,526,339	31,278,226	31,074,944	32,153,214	32,782,077	33,383,260	33,230,227
109	31,277,680	31,280,205	31,606,631	31,725,050	32,351,859	33,036,006	33,701,603
110	31,266,954	31,118,998	31,987,455	33,090,819	32,543,366	32,549,985	33,898,431
111	31,005,218	32,064,827	32,035,422	32,538,532	32,796,301	33,875,707	33,312,596
112	31,023,422	31,008,965	31,770,133	32,436,157	31,888,778	33,564,063	34,461,447
113	31,242,469	31,304,487	32,897,887	32,320,241	32,531,628	33,247,106	32,977,484
114	31,134,490	32,286,230	31,896,978	31,850,524	32,670,008	32,767,704	34,106,193
115	30,986,903	31,303,434	32,675,083	32,221,162	32,575,838	33,809,367	33,623,073
116	31,425,731	32,215,723	31,826,615	31,708,412	31,855,186	32,894,739	33,784,787
117	31,559,024	31,077,532	31,961,543	31,942,935	32,539,544	33,568,919	34,056,842
118	30,245,898	30,918,485	31,803,916	33,006,840	32,503,673	33,400,569	34,351,774
119	30,676,242	31,805,912	31,947,138	31,010,306	32,075,098	32,476,732	33,921,577
120	30,498,136	31,650,657	31,856,680	32,773,279	32,509,198	32,280,065	33,615,926
121	31,480,340	31,519,620	31,712,376	31,663,202	33,767,363	33,090,929	34,580,312
122	30,885,578	30,858,063	31,562,150	32,326,471	32,434,362	33,212,283	34,407,678
123	31,328,011	30,793,600	32,497,779	32,024,719	32,343,840	32,831,079	33,138,669
124	30,818,600	32,071,772	31,647,417	32,308,902	32,928,960	33,418,892	33,714,045
125	31,195,694	32,149,511	31,415,983	33,103,391	32,912,852	33,328,064	33,360,320
126	29,909,331	31,347,162	30,707,767	32,559,483	32,345,031	32,359,936	32,574,619
127	30,442,746	30,942,314	31,632,441	32,645,378	32,668,189	32,128,092	33,228,547
128	30,237,972	32,679,675	32,169,028	32,869,292	33,122,530	34,535,785	33,659,225
129	30,862,640	32,104,625	32,309,348	31,528,655	32,992,123	32,675,700	32,716,049
130	30,922,984	31,255,792	31,873,919	31,905,699	32,593,383	33,345,499	33,244,640
131	30,524,082	30,846,984	31,812,090	32,200,106	32,312,256	33,285,869	32,074,967
132	31,082,657	31,139,063	31,247,656	32,478,520	32,614,210	32,431,667	33,763,180
133	30,653,813	32,181,346	31,956,416	32,614,756	31,676,507	32,986,686	34,412,034
134	30,004,531	30,194,527	32,503,828	32,135,102	32,396,618	33,744,906	34,588,729
135	31,044,069	30,087,555	32,058,919	31,464,852	33,326,421	33,208,220	33,408,164
136	31,194,207	31,851,645	32,299,682	33,361,098	33,435,193	34,061,814	34,695,135
137	31,022,881	31,942,863	32,155,976	33,120,051	32,457,664	33,296,671	33,656,641
138	30,942,368	31,459,044	31,356,436	31,577,681	32,962,041	33,145,659	34,506,619
139	30,574,419	31,868,023	31,855,838	32,765,254	34,200,722	32,371,778	34,484,708
140	31,144,934	31,857,105	31,865,226	32,034,442	32,376,982	32,809,092	33,493,613
141	30,590,234	32,033,781	31,578,165	32,210,203	32,368,014	33,178,461	33,421,956
142	31,214,496	31,783,176	32,238,951	32,577,119	32,578,651	33,030,079	33,930,257
143	30,448,642	31,035,530	31,901,991	31,995,431	34,113,946	31,725,090	33,109,752
144	31,526,854	31,142,837	31,984,220	32,919,717	32,210,658	33,333,577	33,569,963
145	30,794,117	30,746,235	31,892,347	33,032,912	31,871,594	32,300,636	33,428,092
146	31,285,606	30,643,131	31,125,660	31,875,421	32,726,802	33,722,553	33,910,343
147	30,886,230	31,796,058	32,172,433	32,204,930	32,705,478	33,879,756	33,881,156
148	30,923,723	31,614,255	31,645,821	31,832,963	31,823,605	32,677,270	33,255,863
149	31,091,810	31,183,932	32,170,139	32,175,698	32,910,674	32,371,504	33,998,424
150	30,287,709	31,895,274	31,607,656	31,937,106	32,518,444	32,504,748	33,951,066

Draw	2017	2018	2019	2020	2021	2022	2023
151	30,588,849	30,931,923	31,695,087	32,532,947	32,808,052	33,704,808	33,180,435
152	30,748,833	30,969,101	31,484,180	33,404,475	33,174,098	33,940,512	33,836,368
153	31,034,595	31,792,460	31,308,462	32,955,465	31,484,069	32,834,144	33,179,616
154	30,336,288	31,970,043	30,872,815	32,733,541	33,532,664	33,701,542	33,656,766
155	30,749,829	30,994,097	32,093,448	31,716,933	31,806,333	33,478,636	32,885,529
156	31,605,312	31,444,330	32,573,706	31,739,035	32,892,022	33,148,709	32,561,807
157	31,339,202	31,896,524	32,262,344	33,013,197	33,271,608	33,440,981	34,454,300
158	30,879,568	30,634,213	31,910,382	32,028,279	33,085,605	33,151,023	34,715,062
159	31,744,763	31,475,210	31,317,878	31,967,370	32,507,046	32,634,737	34,012,492
160	30,691,189	30,979,738	31,700,600	31,413,359	32,436,720	33,260,077	32,689,101
161	30,445,165	31,612,678	30,866,975	32,197,116	32,640,914	32,759,661	33,175,611
162	31,498,175	32,797,653	31,426,002	32,141,892	31,974,994	32,161,124	34,224,636
163	30,145,256	30,824,197	31,439,706	32,103,084	33,350,231	32,975,775	34,352,268
164	31,109,110	31,651,890	31,569,191	32,903,892	32,885,758	32,751,523	33,667,530
165	30,543,294	31,786,389	31,927,831	32,201,003	34,031,788	33,243,205	34,191,721
166	30,516,854	31,622,601	31,537,444	33,161,395	32,759,225	33,315,406	33,479,835
167	31,291,780	31,360,458	31,412,980	33,098,482	32,487,819	33,451,812	34,105,434
168	30,903,757	31,646,881	32,219,730	32,889,522	31,759,726	33,540,403	32,107,336
169	30,904,383	31,104,908	32,265,203	32,549,025	31,832,069	32,555,632	34,579,884
170	31,535,563	30,913,496	31,378,562	31,764,089	33,146,901	33,913,122	33,289,462
171	31,358,871	30,647,666	31,054,009	32,959,223	33,444,484	33,283,188	33,600,592
172	30,612,253	31,997,478	32,241,767	33,338,570	31,778,968	33,266,616	34,277,605
173	30,858,087	30,375,169	32,221,282	32,270,398	33,119,819	32,715,382	34,085,740
174	31,409,879	31,211,324	32,230,165	31,476,422	32,643,016	32,792,938	35,501,803
175	30,217,036	31,439,350	31,987,880	32,724,505	33,017,392	32,534,970	35,003,467
176	30,746,741	32,166,933	31,569,765	32,387,191	32,349,165	32,733,736	34,745,539
177	30,995,878	30,134,257	31,805,327	31,663,651	33,116,782	33,707,173	33,084,256
178	31,098,277	31,059,283	32,508,208	32,241,320	32,807,557	32,592,455	34,489,608
179	31,213,517	30,877,914	31,634,581	32,189,549	32,786,178	33,138,868	34,609,509
180	31,051,093	30,624,253	31,449,082	32,233,729	32,436,658	32,793,638	33,540,563
181	30,992,147	32,076,058	32,561,084	32,142,776	33,128,347	32,940,199	34,554,005
182	31,629,905	31,978,322	31,614,310	31,537,596	33,340,469	33,250,750	33,567,070
183	31,003,034	31,744,280	31,724,836	32,841,739	32,675,458	33,940,307	33,425,220
184	31,100,138	31,898,302	32,694,769	31,585,569	32,115,222	32,858,359	33,991,710
185	30,526,067	30,757,160	31,829,527	32,552,972	32,476,510	33,407,932	33,820,549
186	31,004,075	31,400,531	32,023,241	31,951,940	32,699,565	32,832,628	32,516,867
187	30,874,895	31,792,915	32,335,376	33,318,979	32,034,373	33,635,495	33,288,476
188	30,777,531	32,313,306	32,091,611	32,932,640	33,668,588	32,984,524	34,728,680
189	30,992,391	30,610,111	32,215,930	32,056,103	32,939,315	33,304,630	34,244,238
190	30,601,895	31,011,781	32,379,178	32,453,238	33,860,626	33,508,316	34,993,359
191	30,323,523	31,503,021	31,673,511	32,479,277	32,978,654	33,020,831	32,683,656
192	30,803,419	31,479,387	30,897,201	32,168,855	32,243,824	32,482,590	32,944,769
193	31,104,095	32,313,237	32,976,439	31,333,246	32,470,223	33,561,780	33,636,255
194	31,359,349	31,017,678	30,646,489	32,838,721	33,641,792	32,303,850	33,078,975
195	31,568,382	31,829,601	31,279,066	32,417,204	32,673,542	33,764,723	33,134,259
196	30,770,580	31,344,570	31,720,843	31,759,778	33,208,059	33,405,588	34,117,114
197	31,708,126	31,953,263	31,290,158	32,848,664	33,185,383	32,735,172	33,713,363
198	31,592,585	31,138,874	31,919,386	32,404,631	33,032,206	34,272,417	33,921,449
199	31,724,667	30,783,723	32,223,463	32,304,211	32,850,015	34,351,057	33,795,702
200	30,289,914	30,480,290	31,923,634	32,990,139	32,261,579	33,305,008	34,150,117

Draw	2024	2025	2026	2027	2028	2029	2030
1	34,844,435	33,990,909	34,731,174	36,507,517	36,992,112	36,132,967	36,565,998
2	33,986,235	34,537,774	34,814,599	35,162,583	36,370,713	35,562,686	36,423,986
3	34,301,769	33,847,220	35,316,389	35,334,980	34,490,997	36,549,064	36,610,679
4	34,540,424	35,181,054	35,093,047	35,876,922	35,732,760	36,866,953	37,200,637
5	34,936,668	34,914,304	35,093,012	35,496,485	36,302,303	36,389,542	37,073,083
6	34,409,884	35,425,026	34,313,694	35,245,369	36,195,826	35,399,305	37,325,044
7	34,526,061	35,028,123	35,290,473	35,416,385	36,419,280	35,527,616	36,568,720
8	34,712,428	34,185,082	35,744,568	35,113,438	35,877,969	36,092,076	36,628,239
9	34,133,811	34,597,123	35,465,751	34,075,236	35,756,514	37,142,688	38,425,387
10	34,645,279	34,759,751	34,700,707	35,602,463	36,965,072	36,528,690	37,166,306
11	34,118,992	34,133,149	34,600,228	35,789,829	36,467,321	35,227,263	36,027,265
12	33,220,858	34,361,042	33,485,917	34,797,810	35,513,784	37,309,706	35,469,837
13	34,031,246	34,764,404	34,818,083	36,473,230	37,064,395	37,506,246	37,145,176
14	34,014,856	34,616,013	35,160,031	34,929,252	36,232,743	36,518,906	36,931,681
15	34,401,709	33,823,432	34,734,583	35,154,296	35,809,318	37,710,649	35,592,524
16	34,811,084	34,740,782	34,149,735	34,623,973	36,979,150	36,207,798	37,296,827
17	34,401,260	33,558,057	34,433,669	34,935,843	34,609,352	36,061,327	37,069,068
18	34,014,009	33,630,174	35,424,833	34,851,646	36,269,883	36,159,111	36,441,785
19	34,299,373	35,443,488	34,459,930	35,002,493	35,505,496	36,103,696	36,467,836
20	34,016,083	34,820,365	36,577,497	35,381,645	36,254,060	36,085,230	37,390,306
21	34,844,250	34,314,562	35,390,908	35,104,726	35,797,033	37,559,219	36,155,209
22	34,483,472	33,351,665	35,812,870	35,635,582	35,218,218	36,726,695	37,164,428
23	33,693,434	34,624,262	34,945,997	34,706,083	35,629,829	36,964,311	35,836,273
24	34,018,305	34,172,810	34,486,140	36,242,837	36,207,934	36,203,029	36,046,698
25	33,968,991	34,116,224	35,523,351	36,466,093	36,642,380	35,678,052	36,576,221
26	33,811,465	34,316,283	35,661,640	35,906,041	36,677,249	36,698,983	36,689,632
27	33,861,064	34,503,997	33,867,957	35,103,199	36,419,173	36,966,815	36,572,124
28	34,274,223	34,363,339	36,369,391	34,988,898	34,711,149	35,298,558	36,748,480
29	35,043,648	33,913,800	34,435,030	35,394,505	36,566,956	36,172,461	36,278,668
30	35,182,492	34,334,984	35,163,093	35,278,924	36,317,982	36,703,211	36,712,428
31	34,057,517	34,600,367	34,603,659	35,922,792	36,887,145	37,499,489	35,744,893
32	32,454,359	34,055,688	35,335,796	34,602,583	35,520,844	36,484,488	35,953,214
33	34,233,172	34,025,813	35,879,157	36,127,114	36,149,994	37,518,430	36,572,276
34	35,139,972	34,473,870	35,477,618	34,780,850	35,068,485	35,750,953	37,119,976
35	34,630,526	33,631,543	35,081,717	35,464,012	35,929,772	36,298,623	36,100,590
36	35,365,096	35,167,469	34,979,946	35,280,044	36,037,659	37,222,360	35,963,514
37	33,336,839	34,288,918	33,891,648	35,491,232	35,446,175	36,368,551	36,922,973
38	33,950,743	35,487,772	35,007,221	35,207,628	37,061,334	37,865,182	38,074,471
39	34,684,826	34,036,477	35,246,370	36,655,659	36,341,931	36,611,411	38,153,489
40	33,246,773	35,158,788	35,504,004	34,972,471	35,431,491	37,173,506	36,103,842
41	33,934,914	35,231,893	35,019,578	36,603,421	36,918,142	37,107,094	37,630,885
42	35,679,701	34,753,474	35,174,259	34,788,694	35,123,885	35,591,041	36,462,070
43	32,822,321	34,049,587	35,349,123	34,439,718	36,586,073	35,612,964	37,620,288
44	34,820,499	34,794,419	34,334,061	36,514,378	36,410,534	36,550,506	37,570,476
45	34,472,430	33,935,879	34,810,983	35,933,275	36,519,731	35,809,048	37,234,124
46	33,774,308	34,926,981	35,727,832	35,346,449	35,671,052	37,868,152	36,874,971
47	33,329,037	34,470,382	35,516,922	35,622,540	36,211,660	37,392,405	35,022,080
48	34,834,823	33,948,987	35,762,248	35,702,569	36,206,072	36,711,287	36,818,246
49	34,410,521	33,617,992	35,353,353	36,401,356	36,258,898	37,150,964	36,181,842
50	33,511,434	34,224,835	36,279,184	35,879,896	35,098,313	36,970,763	36,670,770

Draw	2024	2025	2026	2027	2028	2029	2030
51	33,739,590	35,691,926	35,772,261	36,148,452	36,491,844	36,652,513	37,024,382
52	35,743,102	34,164,799	34,924,955	35,673,885	35,786,763	35,975,757	36,911,733
53	34,237,701	34,626,021	34,480,127	35,591,920	34,746,752	36,692,140	38,088,735
54	34,359,446	34,101,079	33,582,408	35,961,825	35,829,719	37,039,189	36,335,048
55	33,892,359	34,413,915	35,480,209	35,463,400	37,158,550	35,838,965	36,725,087
56	34,335,850	36,176,500	34,996,670	34,683,342	35,329,184	36,923,302	37,136,607
57	33,688,164	35,242,081	34,297,539	35,839,172	34,469,939	36,493,948	37,152,679
58	34,427,824	33,801,002	35,542,496	35,555,162	36,746,307	36,063,119	36,863,634
59	33,800,064	34,866,722	35,017,583	35,908,371	36,524,322	36,491,130	36,762,570
60	34,048,201	35,237,436	35,088,432	35,226,243	36,501,517	36,430,659	36,768,225
61	33,137,500	34,243,583	35,533,152	35,311,469	36,162,259	36,828,637	35,941,395
62	34,145,068	34,434,280	35,738,730	35,208,566	34,874,219	36,548,310	37,543,792
63	34,051,975	34,898,654	34,997,801	35,729,780	35,597,042	35,666,653	37,615,178
64	34,769,482	34,109,972	34,446,684	35,304,586	35,059,893	36,851,672	36,868,240
65	33,757,510	34,779,565	34,168,242	35,727,698	36,286,733	37,749,605	36,924,514
66	33,851,642	34,865,743	34,542,051	35,498,717	36,150,955	36,990,338	36,631,876
67	34,944,392	33,692,588	34,085,853	35,240,581	35,762,448	37,179,276	37,201,351
68	34,039,636	34,542,888	34,071,079	34,789,465	36,675,712	35,767,395	36,540,576
69	33,680,399	34,394,701	35,489,787	35,950,883	35,855,209	35,963,927	37,467,354
70	34,010,805	33,567,112	33,733,345	35,545,431	35,131,839	35,993,355	36,860,614
71	33,688,300	34,926,746	34,677,738	35,340,993	36,438,961	36,965,823	37,497,808
72	33,890,286	34,173,369	33,868,484	35,153,732	34,603,461	37,337,390	36,897,108
73	34,721,769	34,559,697	35,031,561	35,503,713	35,500,686	37,196,571	37,346,298
74	34,175,014	34,994,905	34,998,365	35,307,439	37,039,598	35,914,423	36,173,878
75	33,802,914	34,603,378	34,348,530	35,506,929	36,280,526	36,825,954	35,949,754
76	33,457,818	34,475,140	35,543,064	35,079,432	36,136,233	36,212,771	37,588,016
77	33,226,576	34,408,245	35,834,064	36,094,002	34,751,134	36,198,320	37,265,478
78	33,474,445	35,603,547	35,199,611	35,404,151	35,931,198	36,747,384	37,978,947
79	34,006,651	34,094,720	35,531,478	35,915,717	36,238,433	36,495,674	36,232,164
80	33,832,326	34,282,511	36,070,989	35,163,329	35,205,565	36,965,038	37,497,420
81	34,489,727	34,181,809	35,521,048	35,275,961	34,951,536	37,450,273	36,700,597
82	34,746,694	35,152,173	33,543,612	34,945,857	36,384,258	35,618,220	37,941,647
83	34,457,969	35,015,589	35,187,875	35,833,404	36,438,742	35,233,923	38,336,475
84	33,371,936	35,091,648	35,232,097	34,556,685	35,523,375	34,951,136	36,286,297
85	34,238,457	35,353,372	35,563,805	35,135,948	36,298,883	36,156,209	37,845,604
86	34,239,472	35,287,405	34,794,893	34,739,679	36,196,676	36,631,682	37,156,895
87	34,052,168	34,567,499	34,710,704	35,379,279	36,803,085	36,553,274	37,157,936
88	33,799,307	35,222,242	33,631,920	36,978,611	36,094,802	37,322,966	36,587,279
89	33,680,389	34,422,565	34,391,938	34,731,771	35,971,260	36,172,850	36,764,002
90	33,976,703	34,762,398	35,317,677	36,023,327	36,323,336	36,237,416	36,285,044
91	33,658,374	35,274,404	35,345,200	35,162,844	36,915,460	35,691,965	36,442,572
92	34,280,630	34,660,738	34,516,597	34,617,936	36,058,078	35,026,030	36,946,713
93	33,793,532	34,891,259	34,849,366	35,936,881	35,718,406	36,028,558	37,158,539
94	33,898,817	33,038,602	34,179,783	35,421,630	36,322,023	35,026,940	35,881,658
95	34,663,250	34,695,333	35,078,752	35,949,515	36,419,306	36,691,940	37,103,574
96	33,887,321	34,517,229	35,541,371	36,061,473	35,118,303	36,338,359	36,725,428
97	33,139,995	34,260,963	35,391,755	34,745,837	35,124,913	36,150,183	38,232,260
98	35,168,075	34,422,678	35,518,739	35,827,502	37,216,988	36,932,438	36,842,402
99	34,773,885	34,942,934	35,493,569	35,887,574	35,369,505	36,447,743	37,213,653
100	34,211,304	34,214,740	33,959,513	36,685,229	35,642,946	36,177,489	37,619,744

Draw	2024	2025	2026	2027	2028	2029	2030
101	34,010,838	33,185,325	34,533,172	36,415,434	36,345,196	36,318,257	35,750,025
102	33,967,148	33,472,332	34,832,773	36,112,921	35,607,357	36,561,333	39,034,156
103	34,218,166	33,820,722	35,075,518	36,019,172	36,557,916	35,913,635	37,153,584
104	34,180,666	35,428,342	34,521,780	35,206,474	36,439,269	37,200,698	35,907,187
105	33,617,298	34,299,361	33,693,579	36,147,838	37,156,946	34,877,563	37,383,015
106	34,626,989	34,530,715	34,210,555	35,008,982	36,284,681	35,360,654	36,849,904
107	33,993,515	34,614,080	35,432,094	35,187,727	35,869,334	36,319,070	35,918,829
108	33,823,429	34,812,918	34,249,972	34,680,732	36,508,841	36,609,867	36,937,312
109	33,798,749	34,676,837	36,197,521	36,597,379	36,526,967	36,279,832	36,890,887
110	34,815,154	34,531,664	34,290,461	35,574,433	36,696,027	36,276,144	37,257,244
111	33,865,044	34,414,657	35,559,670	35,034,996	37,293,691	36,120,478	38,597,096
112	35,255,204	36,058,028	33,480,603	35,355,729	36,593,454	37,035,472	36,234,022
113	33,793,405	34,068,454	33,877,037	35,840,626	36,111,628	36,121,265	37,294,737
114	34,410,657	34,092,088	34,981,316	36,066,259	36,050,644	36,709,839	36,478,374
115	34,608,321	34,443,554	36,179,071	34,982,122	35,995,947	36,002,130	35,944,264
116	32,813,022	34,827,180	34,012,521	34,863,171	35,442,587	36,402,887	36,860,227
117	32,864,583	33,748,185	35,303,521	35,186,678	35,319,554	37,167,193	36,868,081
118	33,417,092	35,003,431	35,739,454	35,538,907	35,840,916	37,349,668	36,078,747
119	33,702,239	35,056,286	36,104,422	35,878,309	36,054,496	35,435,085	37,325,330
120	34,569,701	34,040,733	35,390,877	34,560,257	36,562,995	37,149,272	36,701,124
121	34,258,026	33,980,104	35,609,971	34,794,088	36,310,435	36,770,512	36,105,153
122	33,890,826	34,898,032	34,959,127	35,867,846	35,438,596	36,720,341	35,890,712
123	32,820,071	35,430,836	35,211,829	35,183,440	34,252,980	36,956,168	37,348,690
124	34,527,415	34,288,312	33,580,498	35,303,150	36,037,224	36,945,550	37,214,827
125	35,915,575	34,253,764	36,455,095	35,209,449	36,127,101	35,883,685	37,380,584
126	33,627,949	34,459,788	35,217,663	35,750,816	36,409,686	36,526,884	37,276,535
127	33,053,870	34,311,938	35,083,312	34,956,986	36,128,377	36,792,709	37,184,098
128	34,589,594	34,619,195	34,678,326	35,798,411	35,166,345	36,303,974	37,012,009
129	34,353,746	34,288,929	36,145,056	34,444,831	36,896,934	35,388,651	37,970,889
130	34,664,363	34,313,848	34,459,558	35,004,306	36,681,108	36,619,124	36,289,522
131	34,425,095	35,111,930	35,551,972	35,484,349	35,806,001	36,777,143	36,672,285
132	34,253,225	33,751,151	34,895,694	35,577,580	35,692,293	36,536,971	36,384,081
133	34,285,428	35,553,221	35,311,949	36,117,570	34,737,841	36,532,779	36,416,031
134	34,266,338	34,620,910	35,612,262	36,445,880	36,363,173	35,542,060	36,679,411
135	34,894,351	34,769,530	35,983,212	35,590,097	36,603,097	36,985,249	36,303,287
136	33,288,776	34,606,411	35,734,816	35,598,828	36,660,979	35,732,347	36,766,728
137	34,141,345	34,370,075	35,059,894	35,085,865	35,206,679	36,579,889	35,858,757
138	33,914,744	34,931,012	35,948,470	36,094,877	36,686,856	35,866,968	36,080,360
139	33,784,438	34,177,149	35,370,922	35,046,291	37,292,581	36,621,333	36,571,094
140	33,471,847	34,869,282	34,488,876	35,586,654	36,812,352	36,643,073	37,223,032
141	35,235,946	34,331,024	34,852,386	34,819,995	36,622,565	35,750,255	37,144,883
142	34,713,773	34,748,758	34,644,597	34,971,876	35,771,674	35,903,423	37,763,862
143	33,652,654	34,089,957	35,192,921	35,868,096	36,297,669	37,256,510	38,190,067
144	33,699,928	34,084,420	35,449,595	35,591,519	35,959,282	36,233,279	36,770,273
145	35,183,600	34,207,442	34,731,579	36,129,339	35,900,188	37,165,242	37,273,776
146	34,275,524	35,924,971	35,334,554	35,100,855	36,104,077	36,262,011	36,580,993
147	34,747,550	34,368,335	35,673,701	33,909,767	36,545,787	36,883,741	36,374,480
148	34,509,413	34,884,281	35,457,737	35,247,518	35,481,051	35,991,318	37,472,002
149	34,535,302	35,307,357	34,668,124	36,995,796	35,839,755	37,133,594	38,171,109
150	34,143,206	34,859,466	35,957,304	35,679,964	36,656,372	37,498,848	36,908,475

Draw	2024	2025	2026	2027	2028	2029	2030
151	33,628,923	34,116,170	35,828,837	36,324,455	36,357,969	37,793,715	36,293,393
152	34,054,005	34,697,366	34,646,971	34,853,356	35,915,165	35,782,474	36,978,261
153	34,381,955	34,325,018	35,146,805	35,832,136	36,984,491	35,849,583	37,631,962
154	33,193,822	33,835,525	34,877,805	36,163,587	34,790,133	37,288,993	35,966,221
155	32,492,282	33,648,017	34,668,204	35,822,027	36,403,229	36,674,179	36,146,979
156	34,723,097	34,194,255	35,011,358	34,550,883	36,582,734	37,385,018	37,092,105
157	33,559,734	35,204,554	35,042,838	35,078,300	36,056,810	37,841,678	36,498,522
158	33,673,270	35,132,137	35,366,843	35,008,569	35,731,499	36,623,750	36,573,633
159	34,308,726	33,599,672	35,636,549	34,181,492	36,101,986	36,896,424	36,229,772
160	34,589,453	35,649,220	35,326,773	35,627,973	35,410,467	37,685,723	37,364,034
161	34,137,582	35,142,775	35,832,003	34,798,334	36,409,912	37,571,235	36,525,710
162	33,532,581	34,191,479	35,126,716	34,847,980	36,106,925	36,879,734	37,530,291
163	33,704,012	34,462,881	34,785,146	35,472,976	36,233,431	36,494,799	36,861,788
164	33,297,552	35,718,538	33,942,950	34,794,593	36,611,599	37,147,409	36,079,339
165	33,615,178	34,798,200	34,391,889	35,333,133	35,858,262	35,764,861	36,849,836
166	34,363,355	34,276,665	35,747,485	35,285,706	36,096,628	36,767,407	36,405,153
167	34,523,385	34,249,301	35,069,819	36,416,589	36,159,976	35,834,870	36,019,207
168	33,546,441	34,209,860	35,215,054	34,671,736	36,894,715	37,273,840	37,345,233
169	34,444,704	35,051,521	35,368,851	35,054,628	35,500,174	36,507,266	37,085,885
170	34,205,867	33,903,339	35,016,514	34,919,674	35,835,486	36,084,637	36,834,127
171	34,946,406	34,728,652	34,822,983	36,404,593	36,914,507	36,214,209	37,207,856
172	33,809,508	35,237,921	35,414,887	35,326,333	36,024,486	35,787,922	35,689,618
173	33,332,643	33,140,329	34,557,640	35,075,284	35,920,532	37,116,007	36,462,946
174	34,492,328	34,522,963	35,188,516	35,308,453	35,254,455	36,559,605	38,241,774
175	33,716,225	34,222,340	34,961,192	35,323,331	35,418,606	36,242,180	37,136,642
176	34,182,201	34,932,968	35,559,871	34,389,494	35,927,573	35,750,087	37,381,735
177	33,614,000	34,786,824	34,203,692	35,717,511	35,913,340	35,425,145	36,968,667
178	33,953,869	34,958,441	34,448,033	35,137,733	35,306,806	37,050,746	36,638,306
179	33,770,531	34,918,065	35,255,269	36,254,997	35,565,147	36,267,201	35,907,044
180	35,053,146	34,474,672	34,911,514	35,241,821	35,513,724	36,549,450	36,591,489
181	34,647,629	34,114,087	34,989,962	35,209,534	35,484,772	36,213,078	36,282,384
182	34,411,193	35,409,229	34,588,732	35,020,569	35,440,003	35,867,543	36,636,958
183	33,933,958	35,242,191	35,415,858	35,817,886	35,727,057	36,102,055	36,691,715
184	33,822,731	35,379,272	35,126,228	36,420,955	36,700,097	36,914,667	35,804,368
185	34,315,733	33,901,761	35,163,066	36,207,732	36,695,764	36,797,720	37,447,224
186	34,036,149	34,591,066	35,736,167	34,280,326	36,209,849	36,455,850	36,655,051
187	32,976,866	35,127,367	35,437,481	35,798,472	36,235,509	37,509,151	35,944,507
188	34,308,576	34,586,399	35,551,836	35,176,257	34,987,849	36,199,628	35,698,985
189	33,287,826	34,188,941	34,067,355	34,597,467	35,696,117	36,157,548	36,984,631
190	33,784,849	35,074,456	34,490,160	35,503,536	35,697,211	36,204,048	37,809,443
191	34,089,866	33,774,774	33,846,233	34,540,815	35,225,442	35,956,560	36,635,002
192	33,350,971	34,142,730	35,246,161	35,433,113	35,866,744	37,302,289	36,073,618
193	33,146,329	35,542,272	33,647,692	35,149,949	35,928,178	35,930,090	36,217,352
194	34,124,235	34,540,590	35,402,559	35,309,383	36,522,799	35,855,986	37,937,738
195	33,906,149	34,420,533	35,658,509	35,459,062	35,699,718	35,274,740	37,769,590
196	34,285,869	34,064,911	35,174,748	35,085,428	36,694,159	36,263,719	37,390,761
197	34,239,746	33,755,954	34,781,420	34,415,295	36,488,645	35,311,097	36,779,461
198	34,103,402	36,000,932	35,027,044	36,860,197	35,877,552	35,971,534	36,604,947
199	33,243,315	34,004,284	34,370,959	35,231,108	36,174,529	37,370,770	35,605,900
200	35,003,970	34,125,277	35,791,552	36,026,426	35,975,862	37,258,044	37,385,645

Draw	2031	2032	2033	2034	2035	2036	20-Year Total
1	38,066,303	37,983,369	37,223,611	38,249,511	39,587,475	39,312,467	707,093,136
2	37,376,925	38,042,106	38,983,025	38,715,784	40,347,426	39,110,711	705,616,749
3	37,588,555	37,154,185	38,515,213	38,997,395	38,588,224	39,360,836	701,006,530
4	36,856,102	38,430,377	37,753,851	38,398,705	39,165,959	39,798,497	705,745,198
5	36,657,495	37,966,923	38,488,550	39,109,696	41,110,414	39,917,081	708,765,451
6	37,088,993	37,630,954	37,123,322	39,402,158	39,028,467	39,094,484	702,513,742
7	38,740,580	38,249,293	39,201,664	39,535,157	39,552,037	38,536,282	706,802,772
8	36,046,472	37,603,851	38,854,786	39,034,707	38,107,223	40,393,082	705,089,927
9	36,505,531	38,635,828	39,048,316	37,700,224	39,175,063	40,664,974	705,990,424
10	37,704,940	37,764,781	37,665,752	38,585,968	39,260,428	38,768,860	705,716,082
11	37,248,112	38,373,334	38,172,870	38,809,447	38,920,317	39,594,435	703,721,918
12	37,026,888	38,838,056	37,295,773	38,748,589	38,537,267	39,083,522	700,234,222
13	36,638,526	36,620,828	38,810,960	39,874,802	39,559,270	39,144,286	709,044,416
14	37,921,491	38,162,378	38,234,595	37,310,739	39,731,732	40,402,271	705,588,775
15	38,143,595	37,797,317	39,340,909	39,204,505	39,061,619	41,185,223	707,331,983
16	37,025,766	39,019,201	39,004,915	39,440,872	38,129,004	40,231,605	708,091,994
17	36,954,087	37,987,946	38,722,015	39,066,539	39,527,477	39,657,987	700,876,376
18	36,800,193	37,028,629	39,082,360	37,294,646	39,216,912	40,763,025	702,309,939
19	38,068,904	37,048,302	37,700,916	38,753,615	39,463,362	40,076,547	703,714,043
20	36,937,627	37,487,484	38,025,819	38,653,441	39,028,157	40,587,685	705,095,661
21	36,806,010	37,548,417	38,894,261	39,156,490	38,132,717	37,462,019	702,098,375
22	37,365,307	37,623,584	38,419,463	39,057,423	39,003,741	39,841,807	702,618,602
23	37,623,333	38,142,967	38,683,393	38,173,365	38,631,568	40,533,929	705,648,289
24	37,053,620	38,244,150	38,953,520	38,569,075	40,563,621	39,588,281	705,783,483
25	38,259,017	37,712,378	39,251,810	38,469,054	39,066,542	39,620,283	706,064,927
26	37,095,964	37,792,891	37,856,839	38,173,968	39,791,757	38,663,215	702,600,101
27	36,445,096	38,502,445	38,482,129	38,067,653	39,475,155	40,546,238	704,138,768
28	37,835,435	38,511,768	38,726,945	37,429,518	38,978,277	40,260,150	706,222,260
29	38,175,187	37,082,835	39,492,234	38,138,041	40,561,705	39,020,333	707,346,337
30	37,414,890	37,642,444	38,662,694	39,435,837	39,562,415	40,011,218	707,984,596
31	36,920,327	37,611,702	37,859,360	39,339,513	39,729,924	39,234,665	706,415,555
32	37,548,431	37,227,402	38,374,471	38,804,278	37,850,662	40,183,391	701,210,307
33	37,253,092	37,408,064	38,433,510	39,427,525	39,803,433	38,838,388	707,214,112
34	36,979,644	36,782,500	38,439,092	38,535,203	39,933,675	39,590,768	705,210,778
35	38,624,738	36,714,807	40,401,548	38,724,939	38,367,867	39,409,675	703,329,783
36	37,846,362	38,590,331	39,313,186	38,893,775	39,469,740	39,517,591	709,873,031
37	37,131,866	36,861,135	38,614,931	38,515,491	40,089,343	39,900,031	702,681,140
38	37,305,024	37,276,176	38,333,207	39,558,655	38,104,673	40,057,408	712,793,241
39	36,852,777	38,128,051	38,450,943	38,836,755	39,590,514	38,981,428	707,682,192
40	36,766,651	38,571,803	38,268,872	37,804,060	39,382,582	39,260,328	705,138,279
41	37,442,431	37,882,071	37,385,821	39,709,140	40,081,333	38,289,895	708,360,724
42	37,611,670	37,727,264	38,100,540	40,196,359	38,623,960	40,225,242	704,451,549
43	36,119,896	36,985,830	38,054,621	39,968,454	40,381,385	40,736,967	704,386,078
44	37,708,811	37,577,772	37,020,699	37,834,551	39,584,187	39,123,002	708,235,973
45	36,226,491	37,205,980	37,278,870	38,592,947	39,430,920	40,157,546	704,005,811
46	38,208,816	37,839,507	38,366,142	39,387,521	39,140,534	38,557,563	708,413,580
47	36,722,014	36,765,830	37,442,986	37,924,972	40,369,528	39,853,742	704,644,525
48	37,420,677	36,820,595	38,944,010	38,968,801	40,799,367	41,378,198	709,796,462
49	37,254,273	37,966,524	37,916,346	38,819,400	38,860,016	39,454,103	705,814,455
50	37,190,652	37,636,098	38,365,437	39,049,377	40,211,154	39,224,461	707,422,008

Draw	2031	2032	2033	2034	2035	2036	20-Year Total
51	37,731,029	38,533,904	37,920,506	39,749,158	39,994,103	40,721,090	714,530,129
52	37,260,345	37,718,555	37,676,971	39,248,039	40,631,226	39,756,358	708,466,069
53	36,475,310	37,237,391	38,593,949	37,328,426	38,133,886	39,441,658	702,234,573
54	39,101,947	37,713,440	38,290,277	37,610,968	39,667,729	39,364,826	704,366,772
55	36,708,744	38,981,539	38,531,202	38,831,343	38,702,532	37,810,351	706,011,395
56	36,710,698	38,104,032	38,609,380	39,041,647	39,233,903	40,816,508	708,207,560
57	37,919,682	37,230,862	38,327,780	39,123,257	38,013,732	39,995,220	704,817,698
58	37,680,806	38,204,821	37,791,144	37,687,184	40,170,916	39,836,196	707,440,603
59	38,625,043	38,237,107	38,543,584	37,505,656	39,126,058	40,308,054	707,955,202
60	36,194,030	37,521,466	36,883,815	38,170,064	39,493,359	40,426,543	708,226,976
61	37,646,777	38,012,931	39,378,718	38,685,531	38,259,567	40,947,000	705,722,759
62	36,736,817	38,417,500	38,662,290	37,828,417	39,580,218	39,746,790	707,216,921
63	36,566,515	37,589,943	38,984,222	39,297,556	38,572,109	40,026,013	705,021,317
64	36,835,879	38,270,305	37,826,586	37,752,307	39,441,032	40,578,106	704,574,985
65	36,904,068	38,755,378	39,149,315	38,646,402	39,682,548	39,625,819	706,730,847
66	38,452,514	37,325,217	37,578,418	39,278,587	39,301,723	39,983,414	706,759,153
67	34,771,216	37,510,334	39,155,621	38,551,702	38,999,721	39,465,772	701,968,728
68	38,596,244	37,047,091	38,339,624	39,028,242	39,977,236	39,255,960	702,546,971
69	38,863,426	37,810,928	38,717,116	39,014,595	39,779,271	39,605,207	709,485,686
70	36,653,643	38,040,085	38,912,032	38,126,062	39,386,290	40,456,973	701,345,307
71	37,594,100	36,828,915	39,123,869	38,127,346	39,221,915	39,358,205	706,164,384
72	37,693,875	36,914,795	37,939,144	38,380,299	38,682,798	39,962,077	699,990,443
73	37,353,967	37,308,556	38,152,591	38,268,393	40,277,316	38,429,944	706,369,208
74	38,218,089	38,634,827	38,421,705	38,198,070	38,824,194	40,491,262	705,367,927
75	38,784,373	37,168,151	38,162,183	38,865,844	39,701,432	40,103,290	707,601,700
76	38,978,198	37,997,749	38,148,280	38,774,410	40,108,356	39,409,161	707,489,947
77	39,535,311	38,286,597	38,134,666	38,994,898	38,547,507	39,096,215	705,533,570
78	37,742,222	38,097,427	37,711,346	37,955,877	39,358,287	39,696,475	709,540,432
79	37,337,307	37,269,765	39,709,528	38,892,280	40,228,250	39,227,928	704,923,424
80	37,342,751	38,545,559	38,575,698	38,692,770	39,273,976	38,941,194	708,079,357
81	37,369,620	38,650,188	38,547,716	37,987,480	39,498,186	40,297,329	706,652,793
82	37,146,998	37,221,586	37,943,914	37,884,701	38,813,288	39,655,349	703,486,876
83	37,304,747	38,450,240	38,222,137	39,193,182	40,138,432	39,173,693	707,253,464
84	37,526,252	37,317,731	39,928,142	39,493,785	39,108,802	40,511,455	703,528,413
85	37,444,917	38,433,735	38,378,873	37,829,925	38,446,063	39,300,720	705,468,761
86	38,840,023	37,952,681	38,428,271	39,775,005	39,090,743	40,148,460	710,066,419
87	37,040,429	37,665,531	37,825,689	39,098,369	38,594,290	38,687,972	705,577,022
88	36,802,880	36,597,876	38,068,564	38,254,757	38,503,883	39,771,738	702,374,519
89	37,394,732	37,203,373	38,658,865	37,995,097	39,695,831	39,333,388	701,311,870
90	37,072,658	37,698,935	37,862,296	38,897,798	39,919,747	39,344,753	704,471,371
91	37,675,471	37,735,615	38,472,858	39,290,356	38,032,819	38,718,543	704,355,055
92	36,641,247	36,408,118	39,348,740	38,227,872	38,272,734	39,362,375	701,608,964
93	37,868,704	38,060,305	38,509,224	39,226,701	39,654,085	39,732,522	707,445,730
94	35,951,954	38,327,656	38,903,533	39,425,597	39,495,338	40,061,995	701,574,110
95	37,313,302	37,342,150	37,188,912	37,488,924	39,272,319	39,583,373	706,595,708
96	36,920,111	38,596,999	39,217,256	40,561,486	39,643,494	38,836,688	709,191,889
97	35,982,198	37,454,229	38,758,005	38,915,766	39,229,566	40,201,135	703,124,947
98	37,216,059	37,742,497	38,217,370	38,126,683	41,311,353	40,367,590	709,770,161
99	38,179,352	38,367,379	37,600,003	39,538,903	38,943,064	41,008,836	708,937,788
100	37,405,285	38,491,287	39,020,284	39,875,402	38,652,877	40,128,296	709,160,265

Draw	2031	2032	2033	2034	2035	2036	20-Year Total
101	37,057,744	36,406,569	39,147,096	41,102,999	38,172,060	40,247,859	703,528,677
102	37,258,510	37,555,685	38,664,222	38,286,438	39,584,525	39,956,973	708,710,147
103	37,822,971	38,870,714	37,545,312	38,426,241	39,064,640	40,041,590	708,290,150
104	37,419,896	38,142,675	39,417,141	38,521,591	39,482,992	39,331,482	704,909,646
105	37,623,102	37,439,780	38,434,657	37,962,230	39,296,522	39,541,132	701,669,325
106	37,022,619	36,758,492	39,436,795	38,884,783	39,669,353	39,162,298	703,213,585
107	36,985,778	36,832,926	37,884,480	38,574,569	39,330,854	41,075,459	701,322,660
108	36,526,271	38,564,502	38,329,326	39,475,050	38,963,055	40,263,920	705,173,482
109	37,763,641	37,874,596	39,386,573	37,440,090	37,964,885	40,325,986	706,702,978
110	37,223,257	37,677,247	39,996,935	38,351,542	39,264,448	39,917,452	708,328,017
111	36,834,363	37,111,783	38,177,485	38,590,518	38,957,094	40,341,714	708,527,193
112	37,654,858	37,523,992	39,384,869	39,906,969	38,833,365	39,493,538	708,963,068
113	37,895,444	36,867,005	39,604,952	38,949,872	38,415,151	39,306,961	704,667,838
114	38,273,384	38,216,866	38,923,443	38,719,743	40,525,849	40,291,131	710,451,718
115	38,181,748	38,014,804	37,916,026	38,661,038	39,124,961	40,817,032	708,065,878
116	37,866,780	38,103,981	38,008,416	38,393,506	37,790,306	39,531,097	700,626,872
117	36,289,349	38,084,228	38,312,094	39,655,508	40,569,741	41,267,095	707,342,148
118	37,276,798	38,376,055	38,929,039	37,639,678	38,815,586	39,416,020	705,652,545
119	37,095,781	38,423,251	38,500,623	38,673,742	39,670,150	39,530,635	705,363,353
120	35,930,982	36,767,949	38,706,484	37,664,760	39,272,039	41,024,123	703,525,235
121	37,020,381	38,174,081	37,303,342	38,277,866	39,514,037	40,116,940	706,049,078
122	37,107,046	38,398,226	39,312,801	39,003,138	38,621,191	39,489,273	705,283,740
123	37,047,696	37,331,573	38,957,971	38,731,707	39,458,112	39,526,790	703,215,558
124	38,316,811	38,051,882	38,687,221	39,775,025	39,228,163	40,022,484	708,887,151
125	37,294,521	37,527,634	38,838,592	37,788,052	40,305,615	39,513,988	709,959,469
126	37,205,522	38,381,459	37,664,004	38,773,212	39,707,203	40,731,111	703,535,160
127	37,076,426	37,258,167	38,072,473	38,573,340	40,078,602	40,478,533	702,736,538
128	37,932,665	37,975,335	37,504,482	39,652,614	39,184,067	39,242,658	708,933,183
129	37,524,730	37,836,612	37,902,618	38,188,519	38,642,671	40,348,656	705,121,981
130	36,325,528	36,435,851	38,675,757	37,890,536	39,321,918	39,770,262	701,593,599
131	37,724,422	37,436,242	38,436,805	38,141,216	38,824,271	39,943,394	703,391,477
132	39,064,667	37,452,629	39,110,186	38,680,022	38,774,949	39,372,157	704,302,557
133	37,721,393	38,824,963	38,986,342	37,929,492	38,796,946	39,408,722	707,104,235
134	36,981,292	38,051,627	39,092,968	38,293,575	39,637,407	38,662,711	705,817,855
135	37,214,321	37,363,481	37,730,463	38,322,299	38,268,841	39,750,260	704,376,688
136	36,175,343	37,342,724	38,455,586	38,397,101	38,833,526	39,057,058	707,548,996
137	37,539,190	36,765,070	37,991,246	38,579,545	39,205,435	38,597,399	702,633,136
138	36,883,303	38,898,762	39,359,178	39,604,031	39,000,580	40,877,352	710,096,340
139	37,872,936	38,138,363	37,480,778	38,692,520	39,008,526	39,859,117	708,036,790
140	37,567,807	37,039,859	37,407,271	38,749,496	37,761,598	40,828,217	704,030,758
141	36,974,314	36,643,529	37,439,913	38,506,593	40,108,886	39,093,772	702,904,876
142	37,503,591	37,955,539	37,559,081	39,600,235	38,831,532	39,531,760	706,852,430
143	37,669,921	37,826,572	38,937,358	38,648,490	39,342,907	38,577,252	705,880,757
144	37,510,717	37,805,288	38,917,383	38,032,239	39,642,647	39,627,026	706,011,424
145	37,391,076	38,779,429	37,811,617	37,902,423	39,059,373	39,801,184	705,402,201
146	37,144,434	37,633,453	38,529,852	38,429,039	38,634,953	39,964,424	705,208,655
147	37,794,480	36,857,944	39,288,635	39,642,850	37,655,436	40,524,765	707,793,511
148	37,485,616	38,852,747	37,704,897	39,225,006	38,769,632	39,040,482	703,895,200
149	37,361,276	37,827,251	38,168,493	38,325,413	38,013,843	39,315,059	707,564,552
150	36,196,474	36,681,219	38,085,762	38,877,091	38,200,039	38,703,198	703,149,420

Draw	2031	2032	2033	2034	2035	2036	20-Year Total
151	37,618,743	36,919,764	37,030,555	38,870,605	39,176,242	39,353,713	704,755,184
152	36,899,099	37,799,437	38,832,966	38,569,583	38,422,455	39,295,297	704,304,001
153	38,027,250	37,209,810	38,813,757	37,843,740	38,451,325	38,617,028	703,703,672
154	36,467,536	37,936,509	37,480,424	39,842,357	39,102,663	39,357,629	703,106,862
155	36,396,802	38,774,847	38,362,739	39,010,760	40,728,059	39,641,709	702,494,639
156	37,727,536	39,859,124	37,254,252	39,544,388	39,640,998	39,594,483	709,125,151
157	37,153,120	37,040,511	39,177,736	38,360,382	40,557,809	39,120,898	710,371,047
158	35,846,559	37,510,012	37,076,161	38,253,997	40,772,532	39,190,708	703,163,804
159	37,650,738	38,189,020	38,250,422	38,790,106	38,423,255	39,271,573	703,189,231
160	38,170,594	38,779,222	38,060,647	39,007,482	39,622,996	39,243,093	707,708,462
161	36,644,092	37,599,791	37,818,613	38,021,809	38,694,209	41,079,632	703,973,819
162	37,182,344	37,888,976	37,921,893	38,271,141	40,202,784	38,729,489	704,636,809
163	36,776,325	37,999,676	38,546,184	39,563,611	39,672,415	40,727,450	706,491,210
164	37,048,759	38,724,994	37,558,599	39,296,975	38,800,247	40,865,930	706,426,377
165	37,345,102	36,858,463	37,226,059	38,458,721	38,480,122	38,940,248	701,845,305
166	37,842,136	37,847,180	38,014,557	38,325,379	39,297,643	39,512,377	706,174,430
167	37,676,252	38,616,169	39,053,197	39,068,486	39,174,093	40,237,268	709,307,377
168	38,506,572	38,174,278	39,013,218	39,230,707	39,074,823	39,433,424	707,657,257
169	37,498,562	37,041,901	37,717,179	38,652,653	39,178,312	40,059,552	704,952,293
170	36,405,226	38,047,207	37,081,595	38,106,138	38,747,891	40,366,213	701,495,108
171	37,580,783	37,705,206	38,422,221	38,598,002	39,096,467	39,880,541	708,870,459
172	36,182,754	38,525,037	38,164,219	38,759,921	39,310,865	39,882,612	705,629,341
173	37,451,937	38,497,405	38,404,918	40,086,622	39,511,866	38,932,960	704,136,966
174	37,870,584	38,542,122	38,123,662	38,024,246	41,095,604	39,950,764	710,440,623
175	37,533,658	37,871,019	38,223,240	39,683,018	39,332,424	40,185,710	706,774,185
176	37,440,342	38,882,549	38,229,983	38,542,345	39,032,892	40,823,170	707,774,281
177	38,320,690	38,811,341	39,291,854	39,077,849	38,787,243	38,751,442	704,176,921
178	37,021,063	38,142,213	39,819,620	38,977,409	38,693,501	38,850,965	705,795,413
179	37,014,302	38,459,673	39,299,490	40,119,952	39,779,690	38,287,290	707,348,767
180	35,579,003	38,833,665	37,049,865	38,036,535	39,648,915	39,412,899	701,025,715
181	36,433,884	37,272,300	38,920,249	39,420,379	39,931,844	40,415,197	707,729,916
182	38,068,355	38,162,985	39,441,743	39,059,752	38,705,038	39,483,156	707,213,677
183	37,385,504	38,428,323	38,975,204	38,136,721	39,229,671	39,106,315	707,547,332
184	38,655,761	37,350,973	38,633,679	37,767,810	40,846,686	38,760,254	708,427,551
185	36,616,094	38,762,796	38,546,803	37,895,853	39,147,148	40,720,840	707,589,252
186	37,366,766	39,032,896	39,216,120	39,537,644	38,147,452	39,636,191	705,330,374
187	36,496,242	37,889,766	37,804,770	39,035,237	39,184,648	40,938,681	707,659,207
188	37,286,492	38,170,893	37,245,305	39,155,276	39,621,552	39,312,461	706,798,388
189	37,340,063	37,935,574	37,331,221	38,775,818	38,771,475	39,849,210	701,345,963
190	37,173,514	38,426,538	39,473,173	38,945,410	39,236,701	39,661,045	710,288,477
191	36,511,311	37,400,350	38,659,353	39,184,671	40,320,084	39,364,276	700,171,209
192	37,930,138	38,338,015	38,319,997	38,730,649	40,546,867	39,446,108	703,747,445
193	37,690,134	37,635,043	38,336,930	38,622,427	38,023,733	38,923,264	702,188,667
194	37,004,136	37,117,156	38,529,261	39,499,971	39,555,331	39,799,198	706,085,198
195	37,242,094	37,781,854	38,577,882	39,091,808	39,017,221	39,728,368	706,294,307
196	36,992,400	37,465,959	38,373,998	38,248,151	38,798,000	39,980,767	705,145,402
197	36,809,075	39,072,916	38,343,713	39,068,541	39,852,263	40,688,704	707,040,958
198	36,495,889	37,650,552	37,618,363	37,469,609	39,759,601	40,724,076	708,445,246
199	37,278,545	38,040,018	38,319,345	38,212,403	40,343,236	40,406,020	706,633,271
200	36,676,599	37,827,058	38,034,939	38,271,916	38,178,901	39,402,080	705,358,949

Draw	2017	2018	2019	2020	2021	2022	2023
1	155,261,499	154,176,615	153,040,451	165,748,122	162,058,669	173,492,783	170,200,603
2	160,758,482	154,084,759	154,357,030	150,664,656	168,314,777	163,871,784	175,562,287
3	157,766,839	152,607,748	149,509,208	161,306,084	172,499,104	165,664,685	156,207,323
4	160,386,780	152,726,421	153,216,535	151,195,591	161,418,088	150,364,045	171,421,350
5	158,699,394	148,237,181	156,640,213	156,654,865	162,110,827	155,740,674	188,523,279
6	151,227,750	144,370,026	161,757,300	153,867,966	160,116,466	174,283,608	174,774,896
7	157,180,072	148,152,042	158,250,562	143,372,490	159,493,185	149,070,790	171,407,451
8	156,401,712	148,250,448	158,830,289	157,049,909	156,414,661	171,448,931	173,104,951
9	150,745,623	155,213,993	153,720,065	154,486,164	173,892,353	157,301,281	159,627,800
10	153,117,414	162,202,070	149,147,898	153,007,113	160,639,760	163,412,491	169,916,318
11	158,800,161	149,438,024	151,286,845	155,034,749	157,781,584	167,181,122	180,435,217
12	152,292,632	156,332,369	152,311,469	155,822,194	161,576,482	166,586,341	174,818,622
13	152,236,250	155,785,324	159,114,348	156,849,573	173,151,237	178,783,555	179,599,000
14	159,062,874	150,144,754	152,788,501	157,816,106	157,255,833	175,668,628	163,412,904
15	157,381,544	154,259,910	152,922,673	155,613,491	169,330,140	177,097,369	162,928,908
16	151,240,615	157,327,189	164,888,995	163,324,974	161,452,526	162,893,955	165,757,502
17	154,786,447	154,094,776	145,421,839	148,039,519	158,097,572	160,781,705	173,878,283
18	160,976,900	158,401,145	154,506,606	156,203,438	172,191,723	184,887,037	172,640,334
19	153,875,595	151,903,810	154,326,923	151,893,086	159,363,075	156,873,255	179,842,358
20	152,250,234	143,047,273	157,734,296	161,709,606	154,875,787	153,401,194	152,676,188
21	157,155,174	147,927,001	154,830,923	154,696,404	168,267,529	155,600,032	160,403,597
22	150,731,290	148,313,508	143,222,820	152,627,988	147,996,784	166,881,613	165,577,599
23	150,323,770	163,906,654	157,437,707	162,317,799	164,804,001	173,215,867	182,602,444
24	155,816,474	151,670,689	146,330,293	154,687,228	169,159,209	171,133,283	169,001,053
25	153,810,734	149,609,468	151,648,042	152,981,007	171,701,750	159,260,412	174,540,078
26	160,634,543	152,360,550	145,113,989	160,016,991	159,894,765	162,389,853	158,844,493
27	156,553,020	153,051,989	147,850,688	158,133,308	171,383,236	161,147,544	179,030,438
28	155,224,529	149,365,856	163,075,201	156,701,501	153,754,804	161,366,028	173,101,273
29	158,607,114	151,369,479	156,944,198	159,494,129	165,603,691	165,502,410	162,840,079
30	153,467,444	151,612,130	148,784,824	163,053,999	163,641,011	180,010,470	179,982,190
31	153,464,017	151,921,526	152,895,389	156,343,594	154,215,313	157,814,714	169,798,282
32	159,204,814	155,777,617	154,930,684	161,681,100	170,240,953	178,975,786	180,034,747
33	154,627,845	149,927,124	154,758,079	167,343,573	160,215,935	166,857,020	160,262,624
34	155,351,477	157,038,088	152,912,189	158,048,107	158,951,644	177,682,734	173,412,648
35	157,327,932	155,709,673	149,153,770	149,575,102	149,172,910	166,078,046	171,977,294
36	155,072,222	153,844,711	155,917,537	158,104,170	160,142,308	165,405,693	174,749,305
37	151,669,121	162,480,082	159,700,816	162,167,009	153,294,997	160,607,526	164,445,454
38	161,621,327	150,153,839	152,328,571	158,724,848	175,611,719	179,286,226	178,712,639
39	154,249,532	160,808,564	153,881,174	151,917,907	167,058,925	167,702,367	175,402,396
40	151,948,816	147,505,017	155,384,717	159,597,966	171,699,556	179,972,812	170,874,532
41	153,781,806	155,031,780	147,439,178	159,329,107	163,413,010	163,514,180	164,065,373
42	155,908,177	151,864,902	153,077,157	152,859,870	163,028,622	162,537,488	174,613,918
43	157,832,293	151,239,150	158,394,326	171,969,570	158,523,464	162,599,845	159,317,136
44	157,506,287	152,662,441	154,922,541	165,766,768	161,554,477	168,807,682	174,250,116
45	162,277,611	150,961,604	148,038,295	152,036,183	157,462,186	168,135,737	195,386,587
46	157,540,466	149,149,713	154,494,704	164,575,604	154,563,544	160,809,519	168,181,294
47	161,626,421	153,684,512	153,610,479	164,188,403	180,265,520	166,092,883	180,888,059
48	155,319,819	151,615,252	155,621,042	159,710,945	164,042,838	164,985,056	167,998,710
49	149,802,646	151,329,533	151,504,965	146,020,466	161,320,904	173,408,276	185,195,188
50	153,655,788	152,533,235	156,069,510	169,804,060	162,233,103	174,927,769	169,643,195

Draw	2017	2018	2019	2020	2021	2022	2023
51	151,107,236	154,416,879	163,947,076	161,902,264	172,632,257	171,099,814	177,155,261
52	148,421,356	153,528,148	145,598,879	173,232,667	159,446,580	165,267,343	169,486,730
53	150,244,321	159,264,485	151,102,479	157,303,195	169,469,409	172,333,187	159,988,959
54	152,925,371	151,291,341	152,522,398	165,118,268	162,468,607	170,695,558	180,868,100
55	155,946,302	153,167,009	146,463,266	155,439,990	168,719,867	177,885,079	180,542,816
56	155,681,769	158,293,039	154,685,031	163,127,439	152,875,260	176,833,858	166,144,012
57	152,746,823	157,947,503	154,553,292	165,450,156	158,933,526	165,923,512	177,366,517
58	158,921,679	145,009,679	158,538,663	157,239,037	164,164,578	174,795,312	189,264,645
59	149,469,198	149,854,487	153,923,601	156,874,573	172,699,850	166,233,502	179,114,890
60	152,826,511	159,143,439	161,037,660	166,143,342	164,005,083	184,446,430	172,586,815
61	164,127,735	154,524,067	151,622,061	157,761,795	168,087,091	152,492,020	167,404,848
62	157,088,490	154,651,107	158,518,081	154,208,106	161,155,626	167,573,759	187,034,484
63	150,838,834	151,716,998	165,173,723	158,611,285	154,477,433	166,242,970	154,703,945
64	156,672,198	152,969,875	155,245,040	159,453,945	169,149,236	164,319,804	166,549,690
65	159,887,816	151,041,324	148,748,421	151,646,780	152,433,552	168,158,831	174,697,525
66	151,827,420	150,752,201	144,927,637	148,566,375	160,043,569	179,181,689	169,881,563
67	157,974,293	151,524,406	151,244,618	168,202,196	170,206,698	154,487,733	165,501,025
68	156,576,437	153,982,765	144,633,073	158,861,391	161,038,292	171,406,922	165,538,027
69	154,295,514	148,176,938	141,506,649	169,470,823	172,105,314	167,374,566	175,782,944
70	151,480,934	154,974,998	153,540,580	157,792,031	173,501,107	177,856,532	171,031,215
71	159,939,293	149,713,849	149,924,931	155,749,105	171,568,951	172,349,715	163,044,944
72	161,340,921	154,729,232	158,707,979	159,403,968	160,965,344	175,362,037	164,151,137
73	156,269,315	158,850,043	163,096,629	141,925,067	153,990,726	169,874,233	178,550,057
74	160,067,948	154,789,694	149,315,673	153,789,115	164,741,971	158,277,899	180,694,323
75	153,291,737	152,626,021	155,634,991	168,521,144	157,409,858	154,740,740	176,527,888
76	153,575,519	151,766,203	161,198,977	155,113,043	155,812,376	158,232,743	170,733,606
77	149,706,264	158,507,762	156,437,937	169,770,572	159,064,326	169,894,348	176,301,056
78	156,071,591	154,237,382	161,760,984	157,243,983	152,332,529	180,070,776	174,870,720
79	151,890,625	156,902,652	136,094,704	154,911,172	151,189,662	168,834,867	169,137,290
80	159,448,281	153,761,378	149,567,231	162,015,108	168,771,990	165,734,816	179,527,952
81	158,190,045	151,015,748	152,388,999	142,903,380	160,120,647	168,885,324	181,937,670
82	152,720,103	151,945,249	165,772,271	158,112,481	164,835,192	172,581,994	155,933,206
83	158,244,813	143,999,582	149,596,464	163,031,431	149,147,157	163,730,000	176,859,286
84	149,846,223	152,484,455	146,284,108	163,558,663	161,594,642	176,322,621	165,614,540
85	154,711,984	153,407,716	153,416,788	156,542,124	158,523,931	158,693,781	170,549,004
86	149,487,841	149,608,212	160,238,689	168,898,510	154,989,456	171,521,368	160,448,869
87	155,562,587	149,019,656	162,066,459	163,842,548	167,100,688	167,246,100	176,081,971
88	159,701,260	147,461,336	158,002,637	157,410,194	149,085,954	164,994,015	153,912,218
89	161,680,433	153,747,619	144,119,537	164,599,865	160,859,121	162,931,827	174,614,186
90	154,240,564	142,613,661	147,495,182	161,455,940	165,611,853	165,137,129	183,750,259
91	158,853,571	152,752,730	147,640,013	156,578,727	152,345,901	160,829,077	162,149,140
92	157,421,233	154,729,509	145,902,938	164,530,974	168,552,177	169,311,676	171,188,010
93	155,935,430	148,708,238	153,766,359	160,354,942	157,165,491	163,577,994	179,209,632
94	157,661,122	154,015,227	162,305,086	136,345,822	163,499,610	159,956,653	170,880,630
95	155,528,431	161,058,926	159,699,714	155,161,421	169,052,043	181,478,583	174,069,558
96	157,041,100	147,275,996	165,277,900	162,002,833	151,267,104	186,918,998	167,228,864
97	153,534,749	154,677,774	153,031,006	160,902,413	159,877,951	176,661,614	182,806,555
98	162,611,537	150,639,233	141,652,947	154,742,091	157,468,941	164,437,358	174,109,219
99	151,908,417	151,778,525	159,639,096	155,643,378	157,352,165	167,944,958	167,505,249
100	154,982,050	167,124,592	172,812,828	149,313,478	174,043,958	157,168,250	157,494,740

Draw	2017	2018	2019	2020	2021	2022	2023
101	154,996,562	154,579,260	153,516,455	158,804,489	170,357,732	166,896,043	171,686,025
102	151,909,389	158,825,937	138,985,687	169,469,326	165,652,301	159,556,553	179,906,281
103	155,791,180	153,651,795	155,924,514	159,028,758	156,792,107	172,933,837	170,167,027
104	154,912,266	146,683,563	152,990,979	142,622,811	141,666,519	175,178,048	168,877,791
105	154,953,491	152,147,023	156,501,948	157,383,608	153,367,324	165,774,235	164,886,989
106	156,120,189	156,248,987	159,242,346	167,270,537	158,740,604	161,046,867	162,329,961
107	150,138,309	146,753,549	149,944,272	145,727,308	148,459,165	161,286,147	176,738,570
108	154,137,162	153,637,869	149,531,908	150,256,322	159,129,889	166,563,937	173,586,458
109	153,144,980	152,520,226	152,369,354	157,146,979	151,309,565	171,082,492	176,969,608
110	155,375,868	155,474,912	150,799,941	154,833,243	156,442,204	171,713,840	165,439,367
111	152,213,729	162,058,456	162,430,629	162,314,914	173,907,459	182,882,219	181,394,884
112	153,130,241	155,132,350	151,001,826	150,147,107	152,734,520	150,212,862	189,162,835
113	155,754,264	155,413,017	155,042,854	159,897,665	154,627,400	170,638,754	166,189,535
114	151,399,505	154,359,913	146,533,097	155,952,626	154,056,301	165,866,387	175,834,120
115	155,479,626	158,278,980	153,859,851	149,803,593	166,540,500	175,118,390	161,470,997
116	158,144,306	149,335,065	157,997,682	152,969,823	155,975,323	170,795,844	163,368,543
117	153,370,787	151,607,804	162,540,769	150,650,023	162,492,299	167,732,183	178,015,034
118	153,086,280	146,427,825	161,572,713	160,090,324	170,168,438	168,852,702	176,051,281
119	151,612,329	151,963,717	144,474,719	151,835,646	157,280,428	169,590,225	159,447,321
120	153,497,882	150,835,550	150,313,035	163,079,996	158,323,540	153,318,854	178,278,121
121	159,640,781	146,911,407	150,547,634	163,141,941	173,364,248	165,658,225	190,677,089
122	152,528,862	150,787,164	147,779,658	157,239,155	154,918,654	162,128,575	192,272,924
123	158,049,001	150,781,739	151,685,224	155,006,750	158,388,878	166,754,203	168,171,078
124	155,058,240	150,716,839	147,958,591	158,501,020	177,782,920	161,135,507	182,460,995
125	155,149,589	153,000,902	156,928,559	162,028,945	158,131,313	174,729,014	171,260,618
126	156,757,549	148,221,279	144,605,034	158,918,412	148,275,303	160,615,724	166,967,676
127	149,996,742	153,207,414	158,090,865	155,110,704	148,956,528	149,671,560	168,308,944
128	157,945,540	160,748,469	153,221,180	172,214,761	168,845,209	173,508,583	174,241,249
129	157,494,336	151,683,954	158,119,133	164,764,656	165,676,394	164,944,083	161,871,789
130	160,290,021	144,203,541	152,510,802	161,662,355	164,656,116	170,543,890	157,205,354
131	153,119,886	144,713,028	156,947,945	160,665,676	155,799,928	183,886,234	143,888,129
132	158,575,810	146,837,866	141,119,770	157,141,061	165,014,558	158,346,852	177,958,585
133	150,787,595	158,839,760	155,199,023	152,599,338	163,802,708	169,937,972	184,584,830
134	150,865,311	143,405,129	157,118,658	162,352,638	164,286,383	183,671,554	172,973,133
135	152,580,835	149,761,931	150,522,128	148,941,236	163,777,477	161,915,240	168,925,682
136	155,294,542	150,873,882	154,138,129	176,001,540	167,180,146	175,071,018	178,257,187
137	156,749,711	149,394,342	166,189,385	170,813,351	157,202,249	164,007,959	172,381,506
138	158,163,501	148,928,374	153,599,268	151,061,896	160,177,297	165,040,386	191,978,750
139	158,144,704	149,601,520	155,991,610	168,318,154	161,060,646	166,855,775	177,843,436
140	154,868,104	147,605,064	157,980,936	158,387,734	169,067,744	156,958,698	172,565,383
141	153,410,866	151,264,441	148,063,636	159,807,040	152,159,011	151,854,320	175,465,100
142	149,636,133	154,369,618	154,882,563	157,747,322	155,154,539	169,712,496	169,362,030
143	151,688,068	159,365,288	152,819,541	155,024,864	175,889,063	152,641,792	169,868,573
144	157,263,379	152,622,352	159,536,915	156,884,473	164,840,588	158,677,154	177,915,419
145	156,086,229	144,419,723	147,813,426	161,536,426	146,391,182	165,297,592	170,616,140
146	156,961,837	148,739,126	153,813,737	156,983,539	165,300,931	176,111,899	168,194,143
147	153,238,209	152,991,362	153,557,520	162,374,467	158,214,771	165,695,160	184,115,141
148	154,446,835	152,919,130	151,914,111	156,438,056	151,697,970	161,496,339	168,466,109
149	156,983,833	153,286,463	154,317,963	154,093,397	172,712,488	154,667,171	170,970,069
150	154,176,715	147,625,046	151,271,857	169,908,901	163,136,234	148,593,869	168,074,103

Draw	2017	2018	2019	2020	2021	2022	2023
151	153,648,422	146,303,301	157,866,131	166,221,965	164,887,498	164,211,842	164,783,578
152	153,167,475	149,001,558	158,339,966	160,516,380	168,759,330	192,331,631	187,455,088
153	154,505,293	152,746,347	147,965,569	162,133,631	138,979,053	183,596,249	172,901,782
154	153,046,665	153,483,920	157,337,752	167,630,933	173,704,813	168,926,529	167,675,878
155	155,964,850	147,608,473	150,848,235	161,619,159	166,432,459	172,173,340	155,118,020
156	159,309,789	149,085,555	150,456,094	159,369,127	152,411,343	173,871,379	147,091,419
157	155,413,933	155,393,667	161,054,069	167,552,551	168,489,786	179,152,620	167,986,127
158	156,236,854	154,082,762	153,520,045	162,203,216	171,437,440	158,802,103	198,331,871
159	160,820,794	150,277,836	156,467,503	159,097,883	162,261,574	158,210,831	171,170,687
160	154,235,667	153,985,819	152,951,502	156,216,997	171,487,750	175,256,326	169,498,281
161	155,519,935	154,873,463	150,499,013	166,828,172	156,935,382	173,904,156	152,231,194
162	156,814,150	153,207,774	157,530,875	162,467,440	167,635,344	157,070,383	179,807,031
163	153,464,009	146,886,310	149,577,310	160,451,865	164,059,352	144,511,424	182,238,739
164	149,481,375	156,346,699	149,221,200	169,453,506	166,591,386	164,590,731	190,184,326
165	154,266,190	145,483,890	153,616,006	165,068,317	173,328,759	169,508,753	192,560,412
166	153,852,942	150,476,940	150,823,271	170,945,852	173,212,789	166,790,709	181,139,477
167	160,782,641	153,024,125	153,285,496	165,114,987	168,112,268	182,171,555	165,687,794
168	158,276,260	158,619,062	152,511,313	159,409,636	156,268,515	166,445,023	150,270,624
169	156,693,950	149,262,198	163,627,416	153,285,083	155,208,430	166,560,454	182,067,994
170	152,443,520	158,275,269	151,181,952	152,935,250	175,415,976	183,367,887	160,471,609
171	154,085,806	153,366,844	154,724,149	163,337,761	170,555,224	164,314,827	166,271,313
172	157,816,478	152,390,182	147,936,702	169,054,649	157,369,373	178,918,312	172,724,276
173	151,402,323	151,426,866	154,432,179	164,544,210	170,595,087	166,580,296	172,478,925
174	153,699,382	157,755,795	158,399,230	156,749,932	177,012,116	169,657,521	190,207,166
175	154,918,331	145,842,854	154,406,988	159,970,816	150,647,141	154,743,171	194,432,156
176	156,820,560	152,885,323	148,925,282	150,748,313	153,426,188	158,374,318	194,101,389
177	154,143,028	149,698,574	159,870,101	158,429,423	166,256,200	172,375,887	159,919,259
178	153,911,499	164,220,971	150,624,667	151,183,911	162,145,749	144,165,871	171,002,121
179	159,029,175	148,515,320	158,681,985	142,491,086	151,419,460	151,502,405	174,943,637
180	153,436,543	143,749,452	153,700,278	156,254,208	155,053,047	167,441,144	165,169,979
181	158,902,774	153,326,741	161,272,253	157,148,651	164,142,490	167,190,129	199,323,364
182	160,328,455	151,273,049	149,610,232	163,249,367	163,674,526	162,127,043	167,280,648
183	154,181,432	157,512,277	153,949,482	166,822,924	170,529,541	167,878,657	190,108,478
184	158,735,931	155,214,766	165,952,145	150,670,143	150,089,974	160,609,018	177,096,729
185	151,140,039	158,797,075	156,553,132	153,091,110	154,176,562	157,042,393	181,202,544
186	155,696,870	150,591,469	150,485,766	159,458,650	155,909,104	161,365,200	170,681,774
187	159,447,267	148,125,736	160,002,622	169,534,190	161,768,877	171,842,022	166,853,172
188	158,219,222	160,289,993	154,537,493	169,296,896	172,101,827	181,092,087	184,029,517
189	153,438,605	146,324,916	158,243,733	156,983,819	158,395,452	168,666,182	179,355,315
190	160,098,801	145,132,191	159,714,449	163,855,469	173,691,052	176,867,303	195,557,381
191	155,123,751	146,757,302	150,925,901	157,186,574	165,417,936	164,171,066	152,810,163
192	159,002,167	147,375,987	146,709,140	151,079,006	165,358,072	152,389,061	158,114,873
193	157,280,152	156,584,875	157,059,078	143,507,338	151,562,602	164,416,909	185,288,314
194	154,782,760	155,819,906	144,565,361	153,393,307	178,429,711	166,386,657	177,183,715
195	159,070,726	147,291,875	149,628,573	154,064,736	174,635,124	164,635,792	166,468,169
196	154,769,662	147,281,138	152,002,141	149,642,107	155,215,437	170,814,886	173,066,418
197	152,465,087	150,519,431	150,187,049	172,558,433	170,115,409	155,453,047	174,470,242
198	159,666,484	148,533,992	147,517,120	157,471,550	160,247,350	181,013,358	176,510,962
199	155,920,518	148,823,289	154,542,948	166,536,729	157,742,880	197,397,077	168,717,410
200	152,100,252	149,219,053	156,697,333	160,408,639	160,981,780	173,892,714	185,027,546

Draw	2024	2025	2026	2027	2028	2029	2030
1	181,145,267	174,205,757	170,899,896	191,876,786	228,565,797	225,868,575	184,995,413
2	183,622,842	177,781,050	190,445,936	179,363,806	209,418,563	183,405,245	181,418,435
3	179,962,902	177,267,741	184,855,259	185,085,995	185,358,973	218,769,748	213,480,419
4	190,446,854	199,035,233	178,034,295	216,929,102	161,816,669	195,650,194	224,546,605
5	196,378,348	186,689,265	185,422,320	172,253,615	211,082,080	212,671,948	195,172,401
6	180,685,788	183,639,879	174,050,515	178,044,157	191,875,639	187,430,255	213,531,574
7	177,806,625	165,801,647	192,167,076	192,107,266	209,865,048	202,529,528	202,586,025
8	184,732,917	160,367,843	183,984,775	166,267,017	193,421,023	202,006,097	206,792,975
9	170,792,954	174,327,009	190,919,325	164,519,433	192,738,930	211,267,548	235,203,258
10	179,993,249	180,632,059	171,257,864	198,329,498	214,885,545	207,757,098	228,420,995
11	193,179,796	175,366,284	170,381,638	184,786,640	209,520,836	183,040,771	208,543,354
12	171,003,288	179,160,914	173,597,505	189,072,270	215,609,238	225,798,559	203,693,605
13	173,613,878	184,442,111	177,518,625	207,586,353	213,437,483	210,603,780	213,916,191
14	187,623,022	176,063,994	168,870,300	145,781,092	197,004,091	215,236,397	205,824,884
15	170,577,039	169,461,938	172,982,600	167,526,417	205,380,923	234,331,307	199,962,276
16	188,304,607	182,416,331	168,692,680	180,283,146	205,850,311	234,901,376	222,388,214
17	179,744,491	172,629,038	180,246,354	176,916,529	163,530,491	186,410,771	214,029,035
18	177,430,627	189,837,522	183,382,159	189,303,269	193,773,290	227,511,214	204,415,755
19	172,153,238	194,297,931	184,423,541	164,388,298	180,236,549	203,230,524	209,291,411
20	177,208,110	177,998,040	228,554,103	221,025,735	200,361,967	209,726,719	219,289,573
21	182,526,263	166,930,027	188,810,565	186,025,704	181,950,032	220,438,750	219,422,269
22	178,701,146	165,535,912	193,650,488	179,579,615	187,301,678	191,269,419	216,213,972
23	171,963,123	171,127,907	188,670,686	189,724,457	167,797,396	201,141,395	193,424,921
24	164,881,547	175,830,030	194,521,506	202,645,755	203,347,354	201,149,146	172,395,207
25	181,217,688	176,260,428	191,841,563	210,718,974	214,068,486	205,976,189	214,651,480
26	159,129,502	178,665,228	202,173,563	196,927,473	202,110,420	234,760,354	200,840,765
27	174,219,523	172,532,728	141,874,648	185,901,635	210,023,411	227,813,853	208,285,643
28	179,329,547	186,722,308	185,668,565	180,044,244	193,806,397	171,805,255	201,678,125
29	183,205,016	173,007,501	168,173,309	192,941,471	216,601,996	205,147,788	209,228,091
30	179,242,663	172,190,631	179,863,573	183,574,298	195,787,439	216,251,257	221,527,313
31	178,356,124	174,731,366	169,194,002	197,610,718	209,108,927	223,260,137	197,717,586
32	166,200,953	163,591,934	178,803,075	150,282,917	188,710,406	184,596,647	181,516,224
33	169,519,873	175,871,673	189,061,571	204,250,083	196,300,860	209,188,252	204,854,423
34	200,316,780	169,312,528	182,001,755	177,904,362	182,273,681	213,255,763	209,557,713
35	159,988,408	167,617,620	183,746,307	188,390,110	205,523,776	214,521,816	213,161,752
36	208,805,914	172,273,953	194,950,079	191,537,824	183,337,153	222,699,267	207,940,593
37	174,901,637	170,435,044	153,873,484	186,000,905	195,101,866	205,623,678	206,707,480
38	178,885,215	182,695,424	176,132,264	194,092,650	198,713,090	227,383,584	238,599,527
39	178,961,961	194,074,658	182,148,726	201,105,236	225,519,509	222,990,602	226,786,072
40	157,185,518	173,230,187	184,714,924	172,404,220	191,225,334	198,307,916	197,292,007
41	172,043,417	175,265,168	189,404,920	220,095,960	202,455,105	229,684,091	237,564,330
42	194,224,299	167,214,125	183,009,463	182,494,821	174,678,846	178,671,354	197,709,860
43	150,743,939	163,883,067	198,740,018	172,901,028	200,411,883	202,645,316	227,077,967
44	179,577,876	184,913,732	182,286,428	186,819,514	254,199,305	207,265,768	231,570,997
45	193,662,853	174,222,597	193,380,333	199,022,178	194,363,126	199,545,440	207,809,557
46	181,210,772	190,367,849	199,551,476	192,694,377	181,244,090	215,960,099	227,347,109
47	174,734,447	159,779,452	176,876,226	207,295,025	190,194,439	224,282,315	195,782,621
48	178,579,151	171,774,505	185,892,404	195,135,060	184,162,878	214,854,138	188,426,284
49	169,978,411	181,652,824	194,829,353	199,477,681	198,723,755	225,906,900	229,107,744
50	162,591,110	162,695,927	200,887,553	184,798,641	183,486,146	195,353,847	222,989,061

Draw	2024	2025	2026	2027	2028	2029	2030
51	186,823,556	205,184,515	193,620,458	205,305,939	211,516,572	216,437,985	220,976,669
52	188,245,462	176,586,934	194,544,674	195,033,149	188,478,596	199,682,160	215,350,797
53	178,752,265	194,853,662	164,952,696	182,301,915	173,366,180	199,909,154	230,658,276
54	184,558,397	180,535,771	160,983,889	201,968,757	193,624,742	210,376,482	204,823,776
55	178,487,129	167,618,611	172,983,203	181,725,045	200,008,417	236,459,068	201,360,194
56	174,854,378	200,096,757	201,322,263	176,629,929	182,125,459	207,156,289	230,559,953
57	171,679,932	180,923,411	165,918,887	191,300,366	182,388,872	212,821,646	212,067,523
58	185,063,111	166,890,355	199,853,599	189,315,992	238,087,780	205,805,465	206,467,480
59	171,468,165	186,851,902	198,978,010	189,317,239	192,926,979	197,002,311	205,261,099
60	175,383,316	195,150,578	172,840,149	183,857,683	217,703,942	214,941,584	249,059,184
61	169,416,356	174,372,008	177,425,599	181,558,740	189,570,682	224,128,890	211,034,292
62	175,558,524	160,261,299	176,631,084	186,991,573	177,527,754	197,551,329	220,842,071
63	182,403,914	179,831,772	176,572,711	171,241,779	190,447,563	180,567,776	213,686,075
64	180,525,606	173,952,246	175,100,478	178,418,782	177,377,559	234,233,215	207,649,979
65	166,240,455	172,139,749	173,960,530	168,871,565	207,391,850	216,837,415	201,758,309
66	162,340,085	190,213,063	157,447,203	190,895,724	209,128,768	203,050,475	212,187,477
67	174,124,207	167,615,442	160,973,389	194,273,461	196,309,693	194,012,000	202,318,765
68	178,482,180	159,862,262	157,063,831	194,349,666	195,680,974	192,025,124	211,363,656
69	187,177,944	173,783,571	205,773,562	199,186,064	200,977,069	191,896,154	220,510,477
70	174,005,664	154,899,034	157,663,110	211,776,943	177,314,996	186,293,173	216,435,865
71	171,119,870	176,928,173	188,555,303	184,511,510	188,572,827	223,976,828	197,763,835
72	174,841,751	170,925,132	168,141,184	172,554,272	177,004,559	231,331,592	196,031,552
73	185,706,370	189,556,271	192,627,988	180,320,923	193,422,422	204,749,753	222,182,454
74	192,905,233	192,351,279	160,770,804	181,244,302	210,111,219	221,785,162	210,482,826
75	179,197,379	182,820,465	177,303,836	226,579,708	208,818,527	209,014,886	207,385,526
76	168,585,495	164,659,713	178,688,079	178,351,639	186,742,012	199,341,050	225,643,432
77	165,326,235	174,462,287	203,677,049	200,394,211	170,554,220	186,406,313	210,848,439
78	173,071,522	200,647,215	190,111,281	183,764,755	190,309,557	204,193,541	210,724,385
79	190,479,617	156,138,202	178,391,922	209,863,294	194,325,558	205,274,998	172,532,875
80	193,137,961	180,362,728	189,346,706	178,335,212	182,796,664	207,677,521	223,576,926
81	179,135,738	173,865,791	206,583,424	195,036,791	178,024,906	195,756,396	219,935,843
82	192,318,773	180,800,965	150,111,495	160,488,909	230,152,632	193,417,936	223,922,088
83	175,970,115	194,463,641	175,410,363	203,308,319	208,792,170	211,821,379	217,656,201
84	165,829,349	175,913,611	188,875,008	168,487,262	216,035,308	193,506,801	195,519,526
85	176,455,677	179,631,736	187,252,783	173,440,043	188,936,749	189,258,888	221,435,098
86	181,173,325	189,822,867	178,854,754	188,390,813	198,049,350	219,933,711	212,175,508
87	163,943,606	203,310,044	190,491,601	158,523,794	212,546,362	190,402,315	208,787,981
88	175,995,223	187,577,380	173,325,554	204,863,039	187,839,993	242,261,977	222,909,906
89	178,998,212	167,932,233	181,778,374	163,871,389	185,660,388	199,399,808	210,970,423
90	186,421,850	183,818,036	210,209,100	205,277,104	215,278,565	208,773,220	200,826,298
91	168,187,156	190,817,595	175,885,767	184,153,696	195,370,737	198,877,465	203,636,009
92	186,757,207	187,117,089	185,799,443	175,646,893	187,818,135	195,252,123	227,449,978
93	176,549,528	168,843,104	171,724,736	199,073,733	193,218,044	194,583,158	208,520,210
94	183,574,490	154,384,986	152,268,797	194,846,918	186,802,291	194,228,795	187,569,065
95	188,243,828	187,306,231	187,502,474	193,054,901	208,544,089	188,332,974	233,334,672
96	179,532,046	181,017,337	202,215,638	197,741,965	177,566,671	201,868,694	222,170,627
97	176,768,933	170,664,529	185,643,745	165,349,161	162,313,562	194,559,158	245,147,069
98	173,510,821	182,334,320	190,396,194	182,861,603	212,355,835	211,242,283	210,852,577
99	189,279,931	198,798,496	178,327,077	179,758,960	161,959,761	181,032,377	199,383,069
100	180,135,726	158,664,599	159,634,344	198,196,560	184,615,015	225,091,985	225,175,995

Draw	2024	2025	2026	2027	2028	2029	2030
101	175,212,973	179,664,755	179,528,827	188,097,547	204,409,348	206,949,221	199,091,287
102	170,917,953	146,793,093	170,406,848	203,161,345	192,861,480	209,601,710	227,728,588
103	177,905,871	164,395,382	173,716,921	214,945,737	210,395,177	200,130,261	220,961,985
104	176,749,522	195,894,275	185,388,757	205,469,144	190,642,346	228,055,315	179,733,448
105	164,548,126	155,440,200	143,873,028	203,524,471	224,100,770	190,403,813	218,153,816
106	170,734,012	179,627,993	194,368,843	173,093,672	207,161,090	197,452,365	203,767,969
107	188,684,208	176,967,222	189,461,468	185,463,162	200,055,749	213,435,257	191,096,575
108	170,411,104	192,499,457	171,517,434	182,229,782	203,289,958	204,640,514	224,953,476
109	149,590,005	200,928,600	230,373,759	195,410,264	233,614,760	194,106,522	205,802,715
110	187,578,573	179,283,889	160,619,048	199,718,133	227,085,498	202,971,051	221,735,377
111	169,386,089	174,345,851	179,378,405	195,175,736	222,680,575	221,444,470	229,014,016
112	186,678,472	215,214,736	150,493,210	162,063,785	192,166,255	216,794,807	209,872,899
113	169,117,113	172,171,476	164,392,252	191,101,231	185,594,944	205,036,743	203,379,937
114	198,581,109	165,447,539	161,575,814	195,571,696	192,313,598	217,233,003	203,218,580
115	191,286,527	161,530,958	204,394,955	176,424,274	178,694,221	196,590,815	189,956,708
116	161,461,940	176,274,901	178,570,280	170,613,033	179,956,242	216,416,715	219,460,681
117	174,428,098	174,467,170	182,759,040	165,531,609	173,087,352	236,250,426	236,245,885
118	166,311,869	185,871,740	205,697,176	184,937,613	201,012,841	201,771,888	247,554,563
119	151,084,502	185,243,654	200,778,938	197,983,333	176,339,661	192,501,926	221,613,221
120	186,172,289	167,248,096	175,451,434	163,983,912	194,836,034	218,375,653	203,336,398
121	171,855,951	182,879,771	186,558,579	186,482,744	211,444,015	211,800,877	221,599,848
122	176,698,021	196,952,593	176,644,966	192,195,723	204,294,811	213,644,762	191,538,513
123	162,815,599	202,749,639	186,100,362	159,980,263	153,270,049	200,022,209	224,758,635
124	172,763,406	181,941,063	158,789,286	182,389,838	174,666,231	216,140,712	208,487,565
125	185,872,314	180,299,765	202,378,845	198,264,856	188,468,899	189,099,571	244,610,887
126	165,930,567	176,050,609	183,555,303	173,221,702	203,766,146	211,724,963	204,498,960
127	170,860,501	156,371,267	176,963,398	181,984,006	195,222,246	209,673,755	215,656,029
128	196,440,000	183,930,054	192,062,142	189,764,186	171,351,584	198,354,708	220,618,591
129	184,233,772	187,060,894	199,817,037	151,348,593	188,064,896	165,802,833	223,054,842
130	185,449,214	176,588,395	162,769,111	185,263,671	200,552,243	223,618,286	197,857,045
131	165,165,887	212,983,221	192,402,600	192,160,645	171,050,236	196,815,888	212,860,838
132	183,263,007	171,205,957	185,815,288	180,918,734	186,052,555	200,926,023	210,760,456
133	176,809,400	198,348,167	201,212,106	227,166,507	164,709,083	206,437,769	218,157,229
134	180,534,945	196,155,104	203,275,133	209,700,193	222,724,742	195,039,005	188,618,675
135	188,389,567	190,380,821	217,071,810	178,997,510	209,373,744	224,095,202	189,376,578
136	183,104,688	183,609,387	184,919,301	194,553,454	206,006,362	187,862,574	221,517,310
137	189,868,470	175,199,659	187,010,619	179,046,552	190,407,898	195,198,188	209,884,569
138	183,958,449	179,312,754	193,663,844	202,975,914	203,091,625	208,016,800	208,084,251
139	177,896,689	160,388,521	193,538,904	209,786,485	194,780,745	195,135,507	193,490,061
140	205,133,993	184,523,187	182,985,762	194,464,326	195,772,216	210,826,613	208,631,480
141	182,920,188	183,014,124	183,364,892	177,785,109	197,981,012	199,461,348	210,314,969
142	183,032,711	188,947,721	177,934,282	189,323,351	205,406,640	210,891,241	224,917,037
143	171,940,542	159,626,595	176,571,277	202,552,589	207,912,434	215,899,841	232,605,520
144	175,271,132	168,540,934	192,114,602	199,136,938	200,022,839	214,738,013	202,275,719
145	183,130,265	159,853,560	170,332,512	194,058,186	184,343,951	209,882,998	266,079,817
146	176,928,853	197,621,693	178,467,514	184,993,165	207,061,547	204,069,909	185,447,995
147	178,059,502	168,066,463	183,102,146	166,305,326	200,610,297	229,263,052	207,038,438
148	180,537,371	191,720,731	175,441,760	218,088,190	188,057,900	195,101,219	192,225,633
149	192,791,264	188,240,710	176,234,420	205,203,940	205,211,743	214,840,621	253,889,051
150	186,913,984	195,114,963	207,793,110	182,325,962	223,197,583	223,585,818	199,771,499

Draw	2024	2025	2026	2027	2028	2029	2030
151	183,068,967	182,147,218	182,344,709	194,395,568	229,156,830	226,270,946	221,167,511
152	179,211,115	198,379,435	161,023,908	161,765,063	195,634,383	209,063,229	231,767,684
153	188,453,177	188,015,746	180,036,884	223,202,080	209,244,869	202,257,020	251,155,463
154	179,345,897	173,560,145	176,864,737	191,564,313	170,624,579	206,054,450	190,352,716
155	156,296,540	161,125,188	165,958,722	183,773,105	203,215,233	189,060,205	170,580,429
156	186,698,257	171,062,181	187,326,152	161,072,876	197,264,375	219,401,394	209,925,326
157	174,669,457	185,619,911	197,502,486	183,666,283	205,851,353	232,575,936	206,529,813
158	199,063,801	195,674,130	183,499,054	194,955,228	207,934,345	216,956,407	214,881,502
159	176,578,457	160,058,309	201,332,372	163,861,874	190,963,334	211,527,598	213,474,241
160	176,834,642	209,004,576	185,722,556	183,011,820	202,481,085	209,755,756	216,431,003
161	175,576,948	190,818,116	190,267,747	189,619,083	218,309,173	237,021,820	195,654,019
162	174,175,987	190,195,414	189,331,476	167,717,097	208,041,291	213,021,189	214,150,189
163	182,018,060	169,081,912	179,077,831	188,447,113	209,837,901	220,837,346	199,473,849
164	165,432,046	190,920,630	170,038,217	164,173,491	192,619,591	224,261,901	215,339,604
165	179,925,173	182,473,427	166,417,945	182,358,883	208,807,206	226,708,428	219,384,361
166	188,443,519	175,931,677	172,416,832	175,937,840	203,649,822	207,512,038	214,463,499
167	178,764,639	163,105,348	189,896,396	202,436,597	191,520,210	182,982,219	190,741,045
168	170,897,667	180,686,487	186,480,244	171,726,309	196,436,384	218,899,648	240,285,002
169	186,211,647	185,129,949	206,769,060	201,483,636	186,315,208	221,561,870	224,712,695
170	186,637,929	173,647,342	174,503,908	148,327,858	200,103,566	185,515,658	210,364,798
171	181,629,160	193,003,010	195,372,376	188,196,138	196,499,865	187,586,426	209,826,126
172	185,044,040	202,359,843	187,602,832	227,523,817	198,076,161	200,407,442	211,012,716
173	172,612,426	176,792,615	157,331,899	180,719,448	176,881,244	228,114,636	203,814,446
174	181,141,014	186,183,903	184,860,022	164,377,781	178,473,755	224,535,352	217,083,038
175	185,039,828	173,529,830	183,045,678	186,297,896	189,355,914	199,264,831	233,736,476
176	162,730,826	188,053,730	198,065,385	155,441,530	192,779,738	203,697,591	232,468,415
177	175,057,388	174,382,793	172,932,662	186,389,617	199,049,347	193,576,696	229,646,377
178	180,932,631	173,173,938	150,494,711	167,711,296	191,490,702	195,451,281	175,402,685
179	169,348,015	173,933,466	199,971,572	204,293,952	216,490,370	203,640,785	197,170,759
180	183,229,372	148,560,038	182,505,256	174,611,996	182,919,629	199,025,872	186,571,971
181	179,893,517	170,489,317	180,482,385	177,440,693	234,690,523	209,351,260	201,346,700
182	185,387,997	184,923,107	157,473,650	169,948,767	204,099,073	201,792,346	212,948,356
183	182,360,755	179,585,243	184,586,039	187,549,731	184,067,125	181,577,361	207,290,352
184	179,184,420	188,289,034	191,770,043	195,546,934	222,553,000	217,526,560	195,169,906
185	176,695,979	178,365,300	186,474,353	193,960,026	198,008,259	220,437,375	230,071,774
186	175,337,880	186,813,457	177,717,290	165,451,338	211,405,487	205,723,095	186,070,779
187	161,536,121	185,828,399	189,209,987	180,413,869	182,953,762	219,118,325	236,577,935
188	172,104,792	185,652,195	180,062,230	170,045,534	193,330,772	190,218,098	183,083,017
189	172,212,020	154,916,390	170,068,072	170,775,960	203,679,297	210,301,125	231,972,924
190	171,514,269	178,691,613	180,005,103	187,879,365	202,090,550	196,688,305	230,645,395
191	168,686,338	183,180,673	174,139,767	161,290,782	170,478,509	196,762,865	215,384,029
192	157,443,154	170,468,645	181,427,299	182,739,582	195,010,258	219,617,565	198,638,759
193	173,635,141	187,696,827	162,572,007	191,032,933	202,658,674	175,158,771	220,280,182
194	186,903,038	187,926,246	189,413,964	182,424,211	209,509,313	201,830,265	218,718,158
195	174,465,723	180,118,684	183,468,121	178,642,813	187,914,171	186,411,516	259,263,770
196	174,749,320	185,034,000	196,609,372	185,338,944	190,806,074	214,136,082	248,568,209
197	182,753,673	202,290,990	190,115,962	179,723,483	201,531,860	195,095,680	219,126,679
198	180,903,488	187,080,748	211,885,362	199,807,184	202,824,678	192,684,533	203,505,712
199	174,226,995	165,141,736	167,115,832	186,957,411	196,928,495	240,504,837	197,880,353
200	183,197,413	178,245,683	179,983,878	186,226,817	194,152,385	204,402,548	184,900,251

Draw	2031	2032	2033	2034	2035	2036	20-Year Total System Cost
1	226,392,579	211,139,455	198,635,149	225,271,416	247,545,406	204,512,492	3,805,032,729
2	243,166,019	188,707,812	264,878,633	267,571,388	271,061,678	217,071,696	3,885,526,876
3	224,981,302	214,414,102	231,740,151	259,452,137	249,580,229	244,736,800	3,885,246,747
4	253,307,145	226,374,509	203,131,681	221,906,066	245,809,950	260,771,158	3,878,488,272
5	192,112,184	212,540,210	229,344,246	243,320,761	254,026,507	271,628,068	3,889,248,386
6	233,042,944	251,808,533	189,931,918	251,710,579	231,988,383	247,978,584	3,836,116,762
7	254,721,043	230,638,063	265,852,425	266,983,764	189,024,551	234,864,635	3,871,874,287
8	206,883,205	227,848,933	230,099,569	240,787,564	222,050,702	244,212,218	3,790,955,738
9	196,075,048	244,712,704	258,557,188	223,666,704	209,496,075	234,550,545	3,811,813,998
10	202,722,934	238,947,020	216,516,229	218,743,695	209,125,285	280,882,361	3,859,656,896
11	224,908,293	240,048,384	223,788,716	213,195,775	221,877,502	256,842,411	3,825,438,101
12	212,100,332	256,019,655	223,810,559	245,559,165	223,190,032	262,829,854	3,901,185,086
13	208,015,481	210,508,275	254,467,078	264,322,232	251,072,038	190,386,641	3,915,409,454
14	240,470,484	242,424,855	247,535,215	193,945,802	248,418,483	255,718,693	3,841,066,916
15	213,321,383	250,040,041	222,913,941	275,383,715	255,135,393	251,330,856	3,917,881,864
16	219,973,088	248,902,295	236,402,156	244,458,282	194,262,624	253,718,642	3,907,439,508
17	217,371,231	207,010,376	243,131,862	246,783,211	239,228,238	239,643,108	3,761,774,878
18	210,007,449	209,513,111	226,033,164	194,350,419	232,246,404	275,970,401	3,873,581,967
19	235,204,551	203,200,110	207,195,660	209,921,715	272,741,715	246,612,056	3,790,975,401
20	193,516,924	238,277,381	244,052,492	257,477,674	224,637,777	230,976,845	3,898,797,919
21	187,077,080	235,408,400	232,312,320	219,574,044	218,565,667	208,911,108	3,746,832,891
22	219,413,373	221,375,815	223,741,515	222,694,530	230,624,778	228,840,803	3,734,294,646
23	220,348,946	215,595,431	217,658,509	211,315,444	244,757,302	238,193,981	3,786,327,740
24	185,932,966	235,709,518	231,771,054	206,939,855	253,858,554	221,966,652	3,768,747,372
25	215,014,856	262,668,486	235,951,431	287,815,922	251,722,442	254,884,812	4,016,344,249
26	187,528,103	207,588,183	194,369,013	232,308,828	271,243,869	198,878,526	3,765,779,008
27	205,694,991	235,439,603	225,684,494	199,683,858	284,598,125	268,979,743	3,867,882,477
28	223,549,749	233,317,728	210,398,360	189,237,028	276,072,422	217,323,705	3,761,542,627
29	213,789,419	224,022,774	249,048,420	210,397,935	266,069,664	254,327,774	3,886,322,257
30	214,079,370	249,913,650	221,247,527	231,327,286	230,307,075	243,753,833	3,879,617,985
31	211,013,571	203,336,957	215,017,933	256,186,021	246,396,363	242,767,222	3,821,149,762
32	245,342,043	222,139,845	237,392,719	214,795,189	201,057,990	246,973,117	3,742,248,761
33	216,250,331	221,464,108	247,366,648	232,868,436	266,831,263	204,303,639	3,852,123,359
34	202,967,687	217,351,327	212,920,322	211,080,051	222,625,668	277,178,104	3,812,142,629
35	263,602,695	197,667,061	241,958,344	248,550,230	244,254,506	242,163,963	3,870,141,314
36	225,954,662	240,819,229	264,183,864	242,906,165	246,360,205	241,411,122	3,966,415,978
37	188,237,492	190,156,759	229,307,848	235,573,897	252,182,838	256,782,172	3,759,250,105
38	237,862,994	233,215,496	219,342,225	211,264,246	195,135,028	202,852,377	3,852,613,289
39	220,911,722	235,731,483	205,864,274	210,406,150	293,232,549	227,002,164	3,955,755,973
40	196,836,095	265,566,357	215,227,720	186,688,359	236,415,035	203,589,965	3,715,667,051
41	246,161,924	239,582,460	189,107,642	263,514,780	261,337,796	186,731,124	3,919,523,151
42	211,377,753	210,577,059	214,658,271	231,946,586	206,609,670	219,365,040	3,686,427,280
43	211,377,172	208,981,098	233,630,808	261,490,930	288,506,765	282,080,805	3,922,346,578
44	200,254,384	206,298,988	196,753,245	243,933,910	257,074,793	244,736,899	3,911,156,149
45	188,241,678	217,169,463	215,377,315	246,684,832	245,685,400	262,414,400	3,871,877,375
46	228,087,775	259,557,224	235,403,470	225,465,561	265,600,456	216,132,517	3,927,937,617
47	200,627,636	234,437,407	212,041,811	208,063,510	262,368,579	249,708,058	3,856,547,803
48	224,760,755	227,946,562	246,785,270	235,472,382	264,507,203	297,186,645	3,934,776,899
49	214,213,127	236,759,119	228,819,938	233,042,827	245,724,942	235,864,828	3,912,683,426
50	251,592,151	212,675,733	247,766,295	240,937,203	279,415,930	261,384,345	3,945,440,600

Draw	2031	2032	2033	2034	2035	2036	20-Year Total System Cost
51	238,361,049	222,056,664	239,233,209	249,188,521	262,069,798	280,341,849	4,083,377,572
52	211,802,646	188,482,851	218,362,460	253,386,797	260,491,291	217,521,358	3,822,950,878
53	199,525,241	226,035,630	222,611,234	199,469,876	216,599,646	221,724,542	3,730,466,352
54	230,181,800	240,196,396	218,551,685	211,833,063	239,196,065	236,538,110	3,849,258,576
55	205,461,133	254,078,987	258,708,287	240,959,073	236,161,696	200,775,119	3,872,950,293
56	218,164,019	225,831,965	264,813,549	260,666,918	254,406,038	267,017,138	3,991,285,062
57	227,725,620	219,766,055	228,904,047	229,818,767	201,450,597	242,600,795	3,800,287,846
58	211,048,916	262,482,820	228,973,882	229,321,231	284,854,381	253,509,108	4,009,607,713
59	207,310,858	228,255,769	202,753,145	226,512,876	257,939,066	272,550,516	3,865,298,033
60	191,313,316	197,170,993	170,159,705	204,368,526	244,501,838	279,754,117	3,856,394,212
61	231,813,170	220,725,789	244,628,248	268,023,160	247,934,780	268,151,731	3,924,803,062
62	179,810,982	259,145,377	230,136,842	233,226,496	234,553,569	241,170,922	3,813,637,476
63	214,382,826	217,417,639	225,818,834	268,065,320	241,495,054	245,074,200	3,808,770,652
64	218,781,599	233,304,802	220,513,998	203,706,918	258,215,647	267,946,740	3,854,087,357
65	185,573,276	229,989,659	215,204,791	245,999,928	228,706,894	285,395,227	3,804,683,896
66	239,110,933	221,705,534	234,160,064	239,266,965	221,983,015	251,322,025	3,837,991,784
67	194,493,458	213,124,847	249,869,072	241,715,717	248,241,449	239,190,566	3,795,403,037
68	233,480,566	232,002,747	221,948,623	216,744,156	252,822,081	235,478,381	3,793,341,153
69	246,135,285	224,292,604	253,048,470	233,320,246	231,466,337	243,132,342	3,939,412,874
70	215,627,715	245,276,356	274,929,307	230,107,233	227,209,300	260,576,632	3,872,292,725
71	206,416,372	210,027,401	244,566,299	213,354,266	277,030,259	228,394,126	3,833,507,857
72	206,547,653	202,483,001	225,806,975	219,288,315	223,352,880	245,331,818	3,748,301,304
73	239,472,876	237,618,105	202,165,248	223,227,269	258,731,109	222,231,233	3,874,568,091
74	228,498,704	224,284,124	228,182,691	225,162,240	218,721,447	233,464,932	3,849,641,587
75	229,129,720	220,710,476	214,736,864	260,164,088	262,232,848	241,894,531	3,938,741,232
76	244,690,977	219,505,564	200,728,587	235,940,540	275,528,696	242,660,679	3,827,498,928
77	246,296,647	238,898,898	215,182,693	216,990,626	262,906,473	227,048,827	3,858,675,185
78	247,188,076	220,596,750	247,724,692	252,239,271	255,230,549	221,229,923	3,933,619,482
79	210,272,148	201,784,211	241,434,714	208,606,875	277,107,045	212,257,693	3,747,430,125
80	206,165,599	232,454,355	216,947,737	262,321,614	273,549,756	246,162,500	3,931,662,036
81	221,916,933	223,718,392	243,805,606	234,684,221	209,894,750	288,604,230	3,886,404,835
82	203,495,458	180,851,798	241,276,844	194,709,159	247,164,686	240,880,233	3,761,491,473
83	216,367,421	250,135,479	216,539,604	219,282,341	253,343,004	205,755,671	3,853,454,438
84	194,469,533	207,449,548	246,628,650	263,286,008	265,523,422	239,559,064	3,836,788,342
85	217,258,532	235,358,532	240,621,049	237,009,776	232,490,462	223,135,787	3,808,130,439
86	243,976,911	244,740,356	240,670,503	273,296,399	266,178,452	241,127,273	3,993,583,168
87	183,018,380	219,202,336	257,383,146	227,149,415	219,516,934	230,205,594	3,805,401,518
88	210,543,960	205,707,448	214,107,708	202,406,692	222,095,556	249,949,532	3,790,151,581
89	224,046,494	226,972,716	224,212,311	247,937,043	243,435,291	256,584,229	3,834,351,496
90	221,021,624	230,695,146	226,101,405	217,384,724	248,905,919	228,874,947	3,903,892,523
91	210,146,596	221,907,626	233,371,906	261,771,795	244,806,261	209,791,500	3,789,873,267
92	222,427,694	171,414,750	259,047,412	225,680,813	207,212,460	225,966,436	3,789,226,949
93	236,047,461	215,285,088	246,116,316	222,300,415	261,524,275	235,730,348	3,848,234,503
94	226,071,992	229,518,567	235,770,909	260,226,935	246,601,962	263,168,438	3,819,698,295
95	224,307,017	197,600,126	192,102,660	201,674,452	254,853,836	244,535,173	3,857,441,107
96	209,110,624	228,893,950	249,313,403	275,355,903	237,170,648	228,574,732	3,927,545,035
97	198,022,313	239,338,324	229,493,628	211,342,840	264,430,031	271,799,214	3,856,364,568
98	225,937,039	204,831,269	229,810,890	219,784,348	271,374,305	296,913,291	3,917,866,101
99	238,571,846	237,734,041	233,745,065	251,027,014	217,103,454	265,538,442	3,844,031,322
100	233,953,034	237,307,226	253,743,713	259,847,822	230,957,903	269,895,507	3,950,159,324

Draw	2031	2032	2033	2034	2035	2036	20-Year Total System Cost
101	227,662,668	181,794,604	223,711,274	269,301,947	231,283,419	261,111,765	3,858,656,201
102	225,157,004	224,931,520	230,573,909	203,852,671	226,788,515	234,841,109	3,791,921,218
103	215,242,564	262,148,866	199,641,855	239,584,809	221,393,236	218,467,674	3,843,219,559
104	214,939,267	251,714,957	241,482,917	221,906,974	247,653,693	234,793,228	3,857,355,819
105	220,157,987	240,055,035	224,545,116	217,925,917	241,109,847	265,531,956	3,814,384,701
106	224,700,979	202,689,894	273,962,587	235,403,594	239,300,279	254,107,192	3,877,369,959
107	206,081,381	196,758,490	214,843,226	233,976,677	232,897,143	268,499,269	3,777,267,146
108	221,815,729	248,011,273	211,131,521	272,023,646	257,640,523	247,760,181	3,914,768,144
109	229,307,764	223,579,657	261,836,988	208,357,578	215,843,349	258,651,295	3,921,946,459
110	213,562,763	200,422,307	257,017,989	212,633,444	272,431,689	249,372,063	3,894,511,198
111	227,615,639	207,738,311	209,583,771	221,018,427	230,507,471	299,837,721	3,964,928,770
112	237,854,049	211,180,736	258,931,424	233,279,613	240,027,804	231,691,207	3,847,770,737
113	205,021,454	196,032,296	237,683,334	242,702,642	242,803,840	193,444,271	3,726,045,021
114	246,873,315	259,174,000	249,334,332	263,067,285	271,430,794	264,933,804	3,992,756,818
115	201,826,511	241,015,154	212,432,329	258,198,251	261,068,205	261,092,064	3,855,062,911
116	230,382,065	226,740,147	180,449,202	217,511,920	213,842,591	256,058,711	3,736,325,016
117	196,781,134	216,558,345	265,377,895	254,377,249	277,148,059	281,155,583	3,960,576,741
118	223,787,334	252,207,085	239,731,298	211,196,456	190,070,848	215,670,246	3,862,070,519
119	245,977,533	242,268,722	240,308,647	233,280,013	290,464,579	260,763,002	3,924,812,117
120	176,047,375	196,037,178	228,392,951	220,722,881	240,662,430	257,081,997	3,735,995,605
121	195,339,617	218,351,266	198,939,727	203,498,935	249,561,913	261,918,224	3,850,172,790
122	196,355,652	245,767,307	244,183,537	210,546,578	224,661,589	251,141,631	3,842,280,672
123	220,892,186	209,865,855	236,175,376	201,370,593	266,145,887	208,356,459	3,741,339,984
124	240,719,802	203,655,184	268,769,871	253,554,496	281,824,795	245,471,279	3,922,787,641
125	212,160,756	240,510,218	233,625,890	170,795,210	259,939,201	243,516,403	3,880,771,754
126	217,099,563	231,700,612	235,009,636	223,890,590	257,295,032	248,235,993	3,816,340,654
127	219,488,259	206,092,414	209,104,166	200,715,964	254,734,309	267,247,467	3,747,456,539
128	228,505,637	223,665,278	204,397,897	234,064,709	229,679,362	247,210,052	3,880,769,189
129	214,465,925	244,185,735	214,694,658	227,059,389	212,327,616	268,198,838	3,804,869,373
130	173,470,786	200,291,070	214,054,680	211,667,271	244,770,142	266,020,918	3,753,444,911
131	236,796,212	211,925,746	250,788,630	241,690,349	188,532,393	215,965,538	3,788,159,006
132	227,549,646	229,611,293	262,078,965	215,733,557	233,458,869	229,297,856	3,821,666,709
133	222,711,975	246,782,854	228,342,246	215,539,863	215,962,937	232,552,422	3,890,483,782
134	189,264,859	212,767,007	278,304,857	246,311,085	234,543,534	248,139,151	3,940,051,097
135	203,791,991	224,985,504	196,840,813	257,958,352	196,847,052	257,895,454	3,832,428,927
136	184,638,034	184,605,088	252,257,078	198,597,744	207,892,123	233,319,058	3,779,698,644
137	234,466,006	211,459,829	241,551,735	240,076,735	238,998,662	185,281,420	3,815,188,847
138	204,183,999	248,050,543	261,427,361	236,329,066	260,605,041	284,337,603	4,002,986,722
139	209,671,424	246,500,865	209,737,971	238,324,607	205,488,777	226,684,056	3,799,240,458
140	225,479,659	222,513,958	181,706,415	216,805,163	182,595,321	235,786,834	3,764,658,591
141	209,722,702	228,792,829	183,592,875	213,326,737	235,740,170	252,849,074	3,750,890,443
142	232,136,797	228,860,864	206,435,449	280,731,174	235,228,329	239,462,202	3,914,172,498
143	224,929,364	213,812,961	239,407,329	223,378,752	232,756,911	219,934,770	3,838,626,073
144	237,038,624	220,970,618	255,818,430	225,070,010	244,471,741	266,845,601	3,930,055,479
145	209,747,727	249,230,013	198,868,237	228,029,053	223,901,632	237,181,473	3,806,800,140
146	243,877,757	238,730,487	218,132,131	233,087,402	234,874,534	249,156,331	3,878,554,531
147	221,109,540	226,815,604	268,803,362	256,112,391	221,743,759	253,496,778	3,910,713,286
148	239,540,236	223,761,632	202,728,843	227,039,213	238,545,094	245,025,396	3,815,191,769
149	190,208,269	239,556,837	197,318,437	242,526,715	229,798,834	233,799,457	3,886,651,682
150	175,774,938	152,038,128	230,310,725	221,497,290	229,786,345	208,354,488	3,739,251,560

Draw	2031	2032	2033	2034	2035	2036	20-Year Total System Cost
151	211,064,185	252,272,699	204,068,379	211,642,955	268,651,366	236,474,861	3,920,648,932
152	219,114,138	268,290,366	207,399,326	217,885,266	220,727,894	244,020,995	3,883,854,228
153	235,306,084	209,832,441	255,548,659	182,173,943	195,737,403	200,840,512	3,834,632,206
154	184,202,815	200,651,763	217,685,375	260,865,788	242,401,991	242,031,335	3,778,012,396
155	187,955,232	225,525,363	216,847,945	245,256,382	250,517,026	245,586,559	3,711,462,468
156	221,190,593	255,139,451	205,521,259	261,458,466	279,515,508	285,898,740	3,933,069,282
157	227,624,990	194,845,641	241,925,384	252,392,012	256,859,597	253,581,631	3,968,687,245
158	180,946,375	202,509,049	188,245,685	219,244,571	284,939,535	233,926,763	3,877,390,734
159	214,968,466	213,603,727	216,898,567	232,198,301	246,140,749	259,464,735	3,819,377,837
160	268,240,350	268,573,049	225,923,601	246,808,910	251,588,353	224,693,185	4,002,701,225
161	225,377,177	199,716,358	199,641,983	209,685,049	222,130,762	275,424,827	3,840,034,378
162	230,097,898	227,342,092	250,807,681	230,298,538	276,948,349	237,999,479	3,944,659,678
163	196,351,369	236,296,222	257,091,632	255,693,966	266,965,999	261,394,246	3,923,756,454
164	214,329,119	237,707,389	203,897,986	280,102,980	256,933,639	276,948,327	3,938,574,144
165	174,214,167	177,039,239	216,268,133	198,888,961	230,209,638	203,091,018	3,719,618,905
166	251,525,856	198,785,820	205,651,848	216,852,808	247,006,094	251,513,830	3,856,933,463
167	236,370,963	233,233,015	250,998,361	236,525,519	264,453,866	277,037,074	3,946,244,116
168	245,832,889	245,171,420	225,433,048	243,786,306	267,096,383	261,511,896	3,956,044,114
169	207,884,524	206,540,026	164,080,358	211,987,600	263,581,989	245,270,657	3,838,234,746
170	211,789,660	222,029,992	200,897,020	214,026,148	214,576,211	204,793,256	3,681,304,809
171	240,010,897	228,428,941	232,368,932	263,077,937	254,211,409	218,715,140	3,915,582,281
172	199,357,123	216,733,448	243,452,381	227,548,445	281,899,392	215,542,924	3,932,770,536
173	224,944,786	234,664,278	223,009,248	245,658,011	271,432,607	203,820,050	3,831,255,581
174	212,870,869	227,540,494	246,041,830	209,197,805	260,242,917	275,571,158	3,931,601,081
175	208,097,582	235,824,876	233,473,269	276,265,293	282,318,320	272,965,544	3,974,176,793
176	223,828,450	243,685,390	210,069,150	227,673,929	247,214,228	245,950,540	3,846,940,275
177	224,273,218	235,329,251	225,713,336	227,180,569	255,024,084	225,466,980	3,844,714,790
178	207,627,986	229,426,906	251,772,441	242,132,813	242,711,932	219,291,784	3,724,875,895
179	214,659,027	210,108,141	254,004,600	266,558,321	304,667,934	212,429,951	3,913,859,961
180	208,323,837	241,861,475	184,840,737	216,952,484	232,375,094	252,747,965	3,689,330,377
181	187,923,694	210,785,202	214,547,296	253,832,158	269,344,143	271,537,539	3,922,970,831
182	222,297,963	218,589,569	247,455,655	238,611,418	207,654,179	216,748,343	3,785,473,745
183	214,893,222	209,410,654	276,688,961	244,995,868	247,840,571	251,805,321	3,913,633,995
184	254,992,067	203,143,913	214,720,145	205,397,393	278,619,439	239,775,341	3,905,056,898
185	215,831,373	204,147,901	213,145,557	214,712,652	246,974,671	255,911,056	3,846,739,129
186	216,596,557	232,329,429	244,762,232	230,080,742	239,764,694	250,921,463	3,827,163,277
187	197,174,112	223,429,584	256,816,509	286,662,807	252,338,410	253,187,999	3,962,821,706
188	200,619,788	213,094,870	223,757,479	241,478,016	239,530,081	210,443,387	3,782,987,294
189	215,034,782	236,870,218	238,467,824	239,426,856	211,322,024	252,472,250	3,828,927,767
190	220,528,796	216,038,332	252,870,586	220,088,475	248,562,973	238,740,938	3,919,261,343
191	197,939,875	220,226,487	253,457,480	250,925,673	234,752,708	253,111,434	3,772,729,314
192	220,370,157	267,252,352	215,369,913	236,666,010	257,322,678	239,311,408	3,821,666,085
193	207,876,827	201,968,065	236,772,923	256,068,279	231,550,945	233,051,206	3,796,022,049
194	208,331,185	223,429,098	227,874,192	235,792,117	235,260,937	234,801,522	3,872,775,663
195	206,932,991	225,323,045	209,030,174	218,220,870	199,482,083	261,896,645	3,786,965,600
196	210,894,382	212,821,440	236,586,941	210,098,378	215,268,771	286,502,434	3,870,206,138
197	219,579,153	240,756,349	218,315,871	224,283,419	257,894,627	262,927,590	3,920,164,034
198	192,254,440	221,718,583	232,984,140	205,169,832	269,639,159	241,389,779	3,872,808,454
199	198,228,741	208,088,332	233,663,912	246,387,872	265,528,601	238,663,097	3,868,997,063
200	210,632,278	242,932,304	214,429,508	238,935,145	227,801,504	270,451,841	3,854,618,871

	2017			2018			2019		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
1	$ 2.7356	$ 3.3073	$ 4.4486	$ 2.5735	$ 3.3456	$ 4.4719	$ 1.8613	$ 3.0346	$ 3.9537
2	$ 2.7981	$ 3.1731	$ 3.6287	$ 2.4270	$ 3.3461	$ 4.1532	$ 1.7973	$ 3.7893	$ 5.1163
3	$ 2.6294	$ 3.0675	$ 3.6679	$ 2.0308	$ 3.2007	$ 4.4700	$ 2.5358	$ 3.3896	$ 4.3738
4	$ 2.3875	$ 3.3007	$ 4.3800	$ 2.7536	$ 3.2096	$ 4.0924	$ 1.7971	$ 3.3299	$ 5.2875
5	$ 2.7755	$ 3.2106	$ 3.9023	$ 2.1090	$ 3.1310	$ 4.1500	$ 2.7928	$ 3.5535	$ 4.5534
6	$ 2.8443	$ 3.1492	$ 4.0746	$ 2.1932	$ 2.9403	$ 3.7294	$ 2.3934	$ 3.5045	$ 5.2986
7	$ 2.6994	$ 3.2203	$ 3.8091	$ 2.3870	$ 3.4723	$ 4.2922	$ 1.9391	$ 3.3798	$ 5.2171
8	$ 2.8570	$ 3.2214	$ 3.6820	$ 2.1126	$ 3.2881	$ 4.5900	$ 2.0430	$ 3.4412	$ 5.4700
9	$ 2.4080	$ 3.1272	$ 4.1022	$ 2.4306	$ 3.2275	$ 4.8276	$ 2.5480	$ 3.4715	$ 5.5400
10	$ 2.6101	$ 3.1106	$ 3.5994	$ 2.4467	$ 3.4900	$ 4.0664	$ 2.1727	$ 3.0917	$ 4.5040
11	$ 2.7349	$ 3.2300	$ 3.8107	$ 2.4999	$ 3.2498	$ 4.0415	$ 2.4161	$ 3.5034	$ 5.3400
12	$ 2.5351	$ 3.1078	$ 3.7511	$ 1.8328	$ 3.2567	$ 4.5658	$ 1.9111	$ 3.4344	$ 4.5132
13	$ 2.7418	$ 3.2379	$ 4.5300	$ 2.4670	$ 3.2208	$ 4.6600	$ 2.6214	$ 3.5054	$ 5.6541
14	$ 2.7484	$ 3.3014	$ 3.9716	$ 2.6212	$ 3.3928	$ 4.2960	$ 2.3637	$ 3.2190	$ 4.8842
15	$ 2.2738	$ 3.2299	$ 4.1222	$ 2.4419	$ 3.2525	$ 4.3563	$ 1.5000	$ 3.3530	$ 4.9501
16	$ 2.2976	$ 3.2240	$ 3.7380	$ 2.8613	$ 3.6338	$ 4.6895	$ 2.4004	$ 3.3568	$ 4.1760
17	$ 2.5365	$ 3.2253	$ 3.8564	$ 2.4470	$ 3.4109	$ 4.7115	$ 1.5389	$ 3.0181	$ 4.4371
18	$ 2.7465	$ 3.2375	$ 3.8372	$ 2.2076	$ 3.4535	$ 4.5154	$ 1.9275	$ 3.1720	$ 5.1468
19	$ 2.2605	$ 3.2983	$ 4.0100	$ 2.5785	$ 3.1850	$ 3.8183	$ 2.4305	$ 3.4454	$ 4.1648
20	$ 2.6766	$ 3.0912	$ 3.6887	$ 2.0472	$ 2.9768	$ 4.1752	$ 2.2832	$ 3.2972	$ 4.3112
21	$ 2.6495	$ 3.2701	$ 4.0158	$ 2.4422	$ 3.3602	$ 4.6600	$ 1.5420	$ 3.0846	$ 5.3400
22	$ 2.4879	$ 3.1079	$ 3.7605	$ 2.2041	$ 2.9334	$ 3.3755	$ 1.6760	$ 2.8548	$ 3.9337
23	$ 2.7328	$ 3.0592	$ 3.7490	$ 2.1958	$ 3.5938	$ 4.7042	$ 2.0823	$ 3.3089	$ 5.0700
24	$ 2.6764	$ 3.2156	$ 3.6024	$ 2.3433	$ 3.3177	$ 4.5926	$ 1.8578	$ 3.0240	$ 5.3900
25	$ 2.4415	$ 3.1881	$ 4.5300	$ 2.0754	$ 3.1004	$ 4.7500	$ 1.9162	$ 3.1185	$ 4.2512
26	$ 2.8572	$ 3.3137	$ 4.1386	$ 1.8428	$ 3.2188	$ 4.9600	$ 1.7268	$ 2.7147	$ 5.1454
27	$ 2.6734	$ 3.1138	$ 3.4776	$ 2.3714	$ 3.4757	$ 4.5900	$ 1.6351	$ 3.0749	$ 5.1455
28	$ 2.3043	$ 3.2548	$ 4.0100	$ 2.3752	$ 3.3042	$ 3.8969	$ 2.3937	$ 3.4902	$ 5.8400
29	$ 2.3511	$ 3.2422	$ 3.8739	$ 2.7802	$ 3.3648	$ 4.1801	$ 1.6324	$ 3.3118	$ 4.7342
30	$ 2.6653	$ 3.2369	$ 3.8571	$ 2.8698	$ 3.3917	$ 4.7653	$ 2.1850	$ 3.1446	$ 4.5180
31	$ 2.7653	$ 3.2628	$ 4.1255	$ 1.8842	$ 3.1640	$ 3.8553	$ 2.0648	$ 3.2272	$ 5.0398
32	$ 2.6670	$ 3.2372	$ 3.7994	$ 2.1487	$ 3.2321	$ 4.5161	$ 1.9618	$ 3.1623	$ 4.0637
33	$ 2.5562	$ 3.0241	$ 3.4769	$ 2.2904	$ 3.0511	$ 3.9460	$ 1.9773	$ 3.3246	$ 4.6916
34	$ 2.7740	$ 3.2759	$ 4.3800	$ 2.6393	$ 3.5646	$ 4.6843	$ 2.4938	$ 3.4447	$ 4.6229
35	$ 2.7035	$ 3.2587	$ 3.7320	$ 2.2959	$ 3.2257	$ 3.8881	$ 1.7848	$ 3.3049	$ 5.0534
36	$ 2.4467	$ 3.1450	$ 3.9300	$ 2.5017	$ 3.5597	$ 4.8000	$ 2.4305	$ 3.5767	$ 5.0289
37	$ 2.8038	$ 3.2751	$ 4.3800	$ 2.8913	$ 3.5164	$ 4.5225	$ 1.5000	$ 3.3400	$ 5.1200
38	$ 2.8922	$ 3.4080	$ 3.9342	$ 2.2447	$ 3.3775	$ 4.4753	$ 2.1842	$ 3.0157	$ 4.5835
39	$ 2.7278	$ 3.3415	$ 4.0215	$ 2.1386	$ 3.3194	$ 4.8000	$ 2.3030	$ 3.1083	$ 5.3400
40	$ 2.5612	$ 3.1015	$ 3.7649	$ 2.0920	$ 3.1452	$ 4.3438	$ 2.6153	$ 3.5645	$ 5.2400
41	$ 2.7897	$ 3.0896	$ 3.5050	$ 2.5564	$ 3.3387	$ 4.7300	$ 1.5000	$ 2.9957	$ 4.5227
42	$ 2.6975	$ 3.3125	$ 4.0143	$ 2.3546	$ 3.1473	$ 4.4094	$ 1.8427	$ 3.0603	$ 4.3387
43	$ 2.8226	$ 3.2462	$ 3.7760	$ 2.1748	$ 3.1555	$ 4.2265	$ 2.5454	$ 3.7280	$ 5.8400
44	$ 2.7207	$ 3.2740	$ 3.8659	$ 2.6011	$ 3.5296	$ 4.7200	$ 2.0297	$ 3.7350	$ 5.6800
45	$ 2.6922	$ 3.2681	$ 3.8453	$ 2.0804	$ 3.3245	$ 4.5107	$ 2.0420	$ 2.9677	$ 4.3152
46	$ 2.5730	$ 3.1842	$ 3.7984	$ 2.1027	$ 3.3330	$ 4.3418	$ 2.1003	$ 3.6740	$ 5.3900
47	$ 2.7158	$ 3.3969	$ 3.9300	$ 2.7666	$ 3.3269	$ 4.3045	$ 1.9946	$ 3.3893	$ 5.8400
48	$ 2.2565	$ 3.2011	$ 3.7151	$ 2.4646	$ 3.1594	$ 4.5511	$ 1.8918	$ 3.3736	$ 5.1463
49	$ 2.5742	$ 3.1478	$ 3.8118	$ 2.4642	$ 3.1089	$ 4.6600	$ 2.7106	$ 3.3040	$ 4.8493
50	$ 2.4966	$ 3.3594	$ 4.1700	$ 2.6067	$ 3.0193	$ 3.8002	$ 1.7961	$ 3.1593	$ 4.5216

	2017			2018			2019		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
51	$ 2.5392	$ 3.1349	$ 3.8568	$ 2.5060	$ 3.4846	$ 4.7140	$ 2.6138	$ 3.6708	$ 4.9971
52	$ 2.8086	$ 3.1529	$ 3.8662	$ 2.2762	$ 3.1126	$ 4.4877	$ 1.5442	$ 2.9575	$ 4.2838
53	$ 2.4250	$ 3.1793	$ 3.9193	$ 2.7164	$ 3.4181	$ 5.1300	$ 2.1576	$ 2.8860	$ 3.9070
54	$ 2.6723	$ 3.0607	$ 3.5842	$ 2.4365	$ 3.1154	$ 3.8861	$ 2.2195	$ 3.2767	$ 4.6512
55	$ 2.7013	$ 3.1093	$ 3.5291	$ 2.5737	$ 3.3515	$ 4.6642	$ 1.9515	$ 2.9889	$ 4.0002
56	$ 2.7788	$ 3.2221	$ 3.7231	$ 2.3448	$ 3.3139	$ 4.1585	$ 2.5749	$ 3.6410	$ 5.0556
57	$ 2.7600	$ 3.1756	$ 3.8400	$ 1.7630	$ 3.1219	$ 3.9785	$ 2.3811	$ 3.3464	$ 4.6229
58	$ 2.6620	$ 3.3351	$ 3.7602	$ 2.3802	$ 3.0486	$ 3.8469	$ 2.5002	$ 3.3839	$ 5.8400
59	$ 2.7851	$ 3.0925	$ 3.4569	$ 2.5391	$ 3.3153	$ 4.0811	$ 2.1852	$ 3.2377	$ 4.4453
60	$ 2.4779	$ 3.2051	$ 4.4187	$ 2.3346	$ 3.3923	$ 4.1075	$ 2.1281	$ 3.7696	$ 5.5390
61	$ 2.6557	$ 3.3640	$ 3.8193	$ 2.5103	$ 3.3796	$ 4.1721	$ 2.5385	$ 3.0806	$ 3.5558
62	$ 2.4866	$ 3.1751	$ 4.1141	$ 2.2267	$ 3.3530	$ 4.7170	$ 2.0048	$ 3.2866	$ 4.2626
63	$ 2.4159	$ 3.0641	$ 4.0460	$ 2.3408	$ 3.0534	$ 4.0532	$ 2.5401	$ 4.0358	$ 5.3822
64	$ 2.6598	$ 3.3914	$ 4.0600	$ 2.7954	$ 3.4460	$ 4.5542	$ 2.0646	$ 3.2476	$ 4.9559
65	$ 2.5108	$ 3.1935	$ 3.6546	$ 2.4826	$ 3.2962	$ 4.0823	$ 1.6124	$ 2.9888	$ 5.3900
66	$ 2.6262	$ 3.2061	$ 3.6509	$ 2.4142	$ 3.1279	$ 4.1796	$ 1.9671	$ 3.2237	$ 4.4608
67	$ 2.4498	$ 3.1485	$ 3.8189	$ 2.5575	$ 3.4917	$ 4.6900	$ 2.2385	$ 3.1068	$ 4.3805
68	$ 2.5031	$ 3.0709	$ 3.5114	$ 2.6203	$ 3.5890	$ 4.6000	$ 1.9613	$ 3.1500	$ 4.7478
69	$ 2.7193	$ 3.2246	$ 3.6358	$ 2.0171	$ 3.1461	$ 4.8725	$ 1.5000	$ 2.7753	$ 4.4593
70	$ 2.5680	$ 3.1994	$ 3.8177	$ 2.5581	$ 3.3218	$ 4.8000	$ 2.4272	$ 3.2681	$ 4.4577
71	$ 2.6250	$ 3.2952	$ 3.9592	$ 2.2789	$ 3.3224	$ 4.3699	$ 2.0345	$ 3.2118	$ 5.4400
72	$ 2.9266	$ 3.2102	$ 3.7034	$ 2.5271	$ 3.2094	$ 4.3666	$ 1.9043	$ 3.2251	$ 5.3285
73	$ 2.7847	$ 3.2892	$ 4.3318	$ 2.7157	$ 3.7128	$ 5.1300	$ 1.9036	$ 3.2380	$ 3.9886
74	$ 2.6839	$ 3.2809	$ 4.5300	$ 2.2448	$ 2.9931	$ 4.1966	$ 1.6666	$ 3.2660	$ 5.5598
75	$ 2.7693	$ 3.3577	$ 4.0641	$ 2.0535	$ 2.9911	$ 3.6647	$ 2.3511	$ 3.4053	$ 5.4700
76	$ 2.6253	$ 3.1098	$ 3.7541	$ 2.3730	$ 3.3167	$ 4.5900	$ 2.1743	$ 3.5076	$ 4.9258
77	$ 2.4166	$ 3.1119	$ 3.6258	$ 2.7175	$ 3.2992	$ 3.9220	$ 2.1586	$ 3.4242	$ 4.5901
78	$ 2.9780	$ 3.4540	$ 3.9663	$ 2.3412	$ 3.1392	$ 4.2621	$ 1.8928	$ 3.5387	$ 4.5216
79	$ 2.3090	$ 3.1025	$ 4.1022	$ 2.6316	$ 3.2538	$ 4.2257	$ 1.7539	$ 3.0083	$ 5.3400
80	$ 2.9015	$ 3.3013	$ 3.6335	$ 2.3115	$ 3.3893	$ 4.7428	$ 2.2270	$ 3.0008	$ 5.1339
81	$ 2.7783	$ 3.3020	$ 4.1700	$ 2.3971	$ 3.3584	$ 4.8639	$ 1.7238	$ 3.1057	$ 4.4312
82	$ 2.5950	$ 3.0863	$ 3.6164	$ 2.0072	$ 3.4234	$ 4.9690	$ 2.4942	$ 3.8396	$ 5.3143
83	$ 2.9907	$ 3.2778	$ 3.6104	$ 2.0478	$ 3.1238	$ 4.3545	$ 2.0126	$ 2.9184	$ 4.4945
84	$ 2.6152	$ 3.0771	$ 3.8935	$ 2.2167	$ 3.1132	$ 3.8218	$ 1.8661	$ 2.9913	$ 4.2394
85	$ 2.8605	$ 3.1873	$ 3.5073	$ 2.1053	$ 3.1909	$ 4.7200	$ 2.5155	$ 3.4114	$ 4.6908
86	$ 2.4914	$ 2.9623	$ 3.7269	$ 2.0001	$ 3.4195	$ 5.1300	$ 2.0932	$ 3.1973	$ 4.7688
87	$ 2.8470	$ 3.2937	$ 3.8339	$ 2.1539	$ 3.0985	$ 3.6613	$ 2.0012	$ 3.2373	$ 5.1281
88	$ 2.8512	$ 3.1335	$ 3.5423	$ 2.2054	$ 3.2380	$ 4.0520	$ 2.3175	$ 3.0861	$ 3.9597
89	$ 2.7095	$ 3.1997	$ 3.9694	$ 2.3732	$ 3.2332	$ 4.7200	$ 1.7168	$ 3.0644	$ 3.6992
90	$ 2.4306	$ 3.1190	$ 3.6307	$ 2.1162	$ 3.1248	$ 4.0964	$ 2.0471	$ 2.9451	$ 5.1184
91	$ 2.7928	$ 3.2581	$ 4.0259	$ 2.1407	$ 3.3409	$ 4.6232	$ 1.9042	$ 3.1368	$ 5.0253
92	$ 2.7752	$ 3.2735	$ 3.7005	$ 2.4505	$ 3.3611	$ 4.6251	$ 2.3556	$ 2.9616	$ 4.2340
93	$ 2.6589	$ 3.2579	$ 3.6921	$ 2.3539	$ 2.8658	$ 3.7083	$ 2.1778	$ 3.1507	$ 3.8198
94	$ 2.7956	$ 3.3575	$ 4.0185	$ 2.3976	$ 3.3555	$ 4.6900	$ 2.5303	$ 3.7019	$ 5.3400
95	$ 2.8005	$ 3.1852	$ 3.6980	$ 1.9490	$ 3.4383	$ 4.4836	$ 2.4464	$ 3.7528	$ 5.3435
96	$ 2.6679	$ 3.2320	$ 3.9765	$ 2.2857	$ 3.1406	$ 4.2175	$ 2.3596	$ 3.6559	$ 5.3592
97	$ 2.7248	$ 3.2366	$ 4.3433	$ 2.3609	$ 3.2577	$ 3.9782	$ 2.0784	$ 3.0396	$ 4.1126
98	$ 2.4259	$ 3.3082	$ 3.9367	$ 2.4421	$ 3.1917	$ 4.0441	$ 2.0853	$ 3.0813	$ 4.1857
99	$ 2.6323	$ 3.1109	$ 3.8090	$ 2.2225	$ 3.1688	$ 3.8211	$ 1.7974	$ 3.1969	$ 3.9362
100	$ 2.7498	$ 3.2499	$ 4.2894	$ 2.2350	$ 3.8215	$ 5.1300	$ 2.2184	$ 3.4043	$ 4.7161

	2017			2018			2019		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
101	$ 2.5582	$ 3.1604	$ 4.0492	$ 2.3625	$ 3.4267	$ 4.9600	$ 1.6054	$ 3.2355	$ 5.0196
102	$ 2.5622	$ 3.2247	$ 4.2995	$ 2.5051	$ 3.2724	$ 4.1026	$ 1.6908	$ 2.9417	$ 4.9385
103	$ 2.8216	$ 3.1092	$ 3.3784	$ 2.6159	$ 3.7466	$ 4.6457	$ 1.9460	$ 3.4380	$ 5.3196
104	$ 2.5919	$ 3.1336	$ 3.6937	$ 2.4128	$ 3.2949	$ 3.9808	$ 1.9453	$ 3.2398	$ 4.7105
105	$ 2.6883	$ 3.0108	$ 3.3251	$ 1.9083	$ 3.2242	$ 4.1786	$ 1.9932	$ 3.6059	$ 5.0745
106	$ 2.3697	$ 3.1282	$ 3.9266	$ 2.8386	$ 3.3582	$ 4.3967	$ 2.0039	$ 3.4613	$ 5.0564
107	$ 2.5716	$ 3.2264	$ 3.6233	$ 2.0888	$ 3.1294	$ 4.5833	$ 1.5978	$ 3.1821	$ 4.6089
108	$ 2.5246	$ 3.2733	$ 4.2500	$ 2.8996	$ 3.2475	$ 3.9783	$ 2.0759	$ 3.1125	$ 4.0622
109	$ 2.3222	$ 3.2502	$ 4.2434	$ 2.0524	$ 3.1870	$ 4.6361	$ 2.0183	$ 3.0415	$ 3.6954
110	$ 2.4894	$ 3.3498	$ 4.1304	$ 2.3293	$ 3.0849	$ 3.7623	$ 2.0926	$ 3.1720	$ 4.5761
111	$ 2.7460	$ 3.2104	$ 4.0860	$ 2.5062	$ 3.5650	$ 5.1300	$ 2.0426	$ 3.2853	$ 5.1387
112	$ 2.7233	$ 3.2681	$ 4.5300	$ 2.5183	$ 3.1412	$ 4.3638	$ 2.1208	$ 3.0781	$ 4.5170
113	$ 2.4934	$ 3.2385	$ 3.8400	$ 2.4237	$ 3.3099	$ 4.8000	$ 2.1850	$ 3.3066	$ 4.9889
114	$ 1.9255	$ 3.1316	$ 3.9562	$ 2.2409	$ 3.4809	$ 4.6488	$ 2.3570	$ 3.1798	$ 4.6697
115	$ 2.6029	$ 3.2550	$ 4.3812	$ 2.5588	$ 3.1087	$ 3.7858	$ 2.3898	$ 3.5253	$ 5.5400
116	$ 2.9423	$ 3.2702	$ 3.6266	$ 2.4719	$ 3.3360	$ 4.6900	$ 2.3984	$ 3.3218	$ 4.4251
117	$ 2.3289	$ 3.2574	$ 4.0100	$ 2.2733	$ 3.1965	$ 4.6600	$ 2.5910	$ 3.5082	$ 4.0942
118	$ 2.6787	$ 3.1106	$ 3.8644	$ 1.8224	$ 3.1167	$ 4.1263	$ 1.5613	$ 3.1557	$ 4.5738
119	$ 2.4445	$ 3.0971	$ 3.6094	$ 2.2760	$ 3.1123	$ 3.8034	$ 1.7414	$ 2.8943	$ 3.8595
120	$ 2.6479	$ 3.1551	$ 3.8726	$ 2.1750	$ 3.2251	$ 4.3195	$ 1.7958	$ 2.9737	$ 3.8812
121	$ 2.7218	$ 3.3280	$ 4.0100	$ 2.2471	$ 3.1940	$ 3.8496	$ 2.0988	$ 3.2003	$ 4.4879
122	$ 2.7709	$ 3.2574	$ 3.8082	$ 2.1875	$ 3.0002	$ 3.8735	$ 2.2859	$ 3.1113	$ 4.1251
123	$ 2.8011	$ 3.2475	$ 3.6409	$ 2.1732	$ 3.2258	$ 4.1055	$ 2.4505	$ 3.4482	$ 5.3100
124	$ 2.6893	$ 3.1116	$ 3.5170	$ 2.4198	$ 3.2011	$ 4.0903	$ 1.6805	$ 3.4893	$ 5.3400
125	$ 2.4375	$ 3.2111	$ 3.7953	$ 2.5628	$ 3.4040	$ 4.5980	$ 2.5793	$ 3.1712	$ 3.8420
126	$ 2.7782	$ 3.2139	$ 4.0927	$ 1.9316	$ 3.2155	$ 4.3650	$ 2.0019	$ 2.7972	$ 3.5186
127	$ 2.3188	$ 3.0373	$ 3.6179	$ 1.9978	$ 3.0491	$ 3.9685	$ 2.2775	$ 3.3093	$ 5.3133
128	$ 2.6346	$ 3.0766	$ 3.4848	$ 2.2650	$ 3.4994	$ 5.1300	$ 1.7868	$ 3.1256	$ 5.5504
129	$ 2.5572	$ 3.1331	$ 3.5306	$ 2.7467	$ 3.5233	$ 4.7200	$ 2.5553	$ 3.4371	$ 5.0536
130	$ 2.6942	$ 3.2670	$ 3.7281	$ 1.5628	$ 3.0926	$ 4.1565	$ 1.9313	$ 3.3403	$ 5.1104
131	$ 2.8225	$ 3.2303	$ 3.5601	$ 2.2639	$ 2.9418	$ 3.7073	$ 2.0968	$ 3.3025	$ 5.3900
132	$ 2.5339	$ 3.3344	$ 4.1000	$ 2.3889	$ 3.1639	$ 4.3763	$ 1.9782	$ 2.5649	$ 3.4135
133	$ 2.6374	$ 3.1254	$ 3.9404	$ 2.3034	$ 3.3899	$ 4.5284	$ 2.3996	$ 3.3626	$ 4.7532
134	$ 2.2311	$ 3.0703	$ 3.3767	$ 1.7190	$ 2.8839	$ 3.8836	$ 2.5535	$ 3.4134	$ 4.4427
135	$ 2.7263	$ 3.2453	$ 4.1486	$ 1.9709	$ 2.9178	$ 3.7920	$ 2.0350	$ 3.1941	$ 5.1599
136	$ 2.3651	$ 3.1743	$ 3.9381	$ 2.4914	$ 3.2021	$ 3.8798	$ 2.1302	$ 3.5539	$ 5.6800
137	$ 2.5988	$ 3.2802	$ 3.9800	$ 2.4844	$ 3.2307	$ 4.0850	$ 1.9977	$ 3.4668	$ 4.4948
138	$ 2.4023	$ 3.2267	$ 3.9984	$ 2.5938	$ 3.3508	$ 4.5358	$ 2.5478	$ 3.2811	$ 4.9249
139	$ 2.5339	$ 3.2446	$ 3.9135	$ 2.2123	$ 2.9656	$ 3.8657	$ 2.0037	$ 3.2932	$ 4.6915
140	$ 2.6784	$ 3.2107	$ 3.5678	$ 2.1041	$ 3.1555	$ 4.4499	$ 2.1684	$ 3.3731	$ 4.0276
141	$ 2.7022	$ 3.1452	$ 3.6589	$ 2.6022	$ 3.3154	$ 4.8400	$ 2.2616	$ 3.2778	$ 5.5224
142	$ 2.4230	$ 3.1885	$ 3.8000	$ 3.0486	$ 3.5636	$ 4.4233	$ 2.3605	$ 3.3571	$ 4.8474
143	$ 2.8203	$ 3.1573	$ 4.1754	$ 2.2389	$ 3.3374	$ 4.6181	$ 2.0895	$ 3.3806	$ 4.5372
144	$ 2.8301	$ 3.4339	$ 3.7733	$ 2.4414	$ 3.2098	$ 4.4617	$ 2.5220	$ 3.3512	$ 4.6944
145	$ 2.4071	$ 3.1815	$ 3.5413	$ 2.1517	$ 2.9570	$ 3.9628	$ 2.1570	$ 3.2149	$ 4.9902
146	$ 2.6925	$ 3.2135	$ 3.8579	$ 2.1976	$ 3.1760	$ 4.2027	$ 2.5486	$ 3.4270	$ 5.1728
147	$ 2.6099	$ 3.0841	$ 3.5091	$ 2.1931	$ 3.2735	$ 4.0919	$ 1.8523	$ 3.4969	$ 5.1551
148	$ 2.9627	$ 3.3210	$ 4.0251	$ 1.8222	$ 2.9139	$ 3.7826	$ 1.6714	$ 3.7245	$ 5.3116
149	$ 2.8476	$ 3.2234	$ 4.0138	$ 2.3606	$ 3.3019	$ 4.5360	$ 1.8532	$ 3.1574	$ 4.0253
150	$ 2.7526	$ 3.1039	$ 3.6108	$ 2.0136	$ 3.4603	$ 4.3216	$ 1.5581	$ 3.0430	$ 4.6067

	2017			2018			2019		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
151	$ 2.5061	$ 3.0346	$ 3.3634	$ 2.2457	$ 3.1051	$ 4.3404	$ 2.0592	$ 3.5044	$ 5.8400
152	$ 2.9207	$ 3.3049	$ 3.9656	$ 1.9728	$ 3.2112	$ 4.2388	$ 2.2032	$ 3.2804	$ 5.2138
153	$ 2.7885	$ 3.1852	$ 3.6222	$ 2.5148	$ 3.4432	$ 4.6600	$ 1.6282	$ 2.9045	$ 4.1177
154	$ 2.5358	$ 3.0938	$ 3.5096	$ 2.7104	$ 3.1814	$ 4.0802	$ 2.5619	$ 3.5049	$ 5.3569
155	$ 2.7134	$ 3.1405	$ 3.3882	$ 2.1787	$ 3.0993	$ 4.0436	$ 2.1208	$ 3.3086	$ 5.4876
156	$ 2.6084	$ 3.3633	$ 3.9144	$ 2.0030	$ 3.2078	$ 4.0871	$ 1.7902	$ 3.3562	$ 4.9158
157	$ 2.5574	$ 3.2113	$ 3.9731	$ 2.0761	$ 3.4282	$ 4.6596	$ 1.5738	$ 3.0953	$ 4.5724
158	$ 2.8213	$ 3.2976	$ 3.8815	$ 2.2391	$ 3.0930	$ 3.7781	$ 2.7084	$ 3.4810	$ 4.3921
159	$ 2.9670	$ 3.4271	$ 3.8471	$ 1.8296	$ 3.2908	$ 4.0800	$ 1.8632	$ 2.8951	$ 4.0149
160	$ 2.7646	$ 3.2348	$ 3.8145	$ 2.4292	$ 3.1471	$ 4.1063	$ 2.3042	$ 3.3424	$ 5.4231
161	$ 2.7395	$ 3.1824	$ 3.7002	$ 2.5925	$ 3.3517	$ 4.6219	$ 2.1896	$ 2.9613	$ 4.4244
162	$ 2.6117	$ 3.2919	$ 4.0763	$ 2.6683	$ 3.4982	$ 4.5571	$ 2.4923	$ 3.2766	$ 5.2366
163	$ 2.6537	$ 3.0952	$ 3.6682	$ 2.1094	$ 3.1532	$ 4.6333	$ 1.9713	$ 3.1295	$ 4.6190
164	$ 2.7614	$ 3.1100	$ 3.5119	$ 2.7507	$ 3.5530	$ 4.5862	$ 1.8431	$ 3.3464	$ 5.6800
165	$ 2.5796	$ 3.2224	$ 3.9361	$ 1.5826	$ 3.0716	$ 3.9531	$ 2.3015	$ 3.3428	$ 4.8679
166	$ 2.7702	$ 3.1105	$ 3.8168	$ 2.4470	$ 3.1571	$ 3.8326	$ 2.2150	$ 3.3345	$ 5.1422
167	$ 2.8195	$ 3.3512	$ 3.6912	$ 2.2186	$ 3.5028	$ 4.5900	$ 2.1925	$ 3.4687	$ 4.4972
168	$ 2.7176	$ 3.2532	$ 3.7587	$ 2.3791	$ 3.4333	$ 4.2516	$ 1.9725	$ 3.5157	$ 5.1621
169	$ 2.3808	$ 3.2542	$ 4.1700	$ 1.8661	$ 3.1889	$ 4.9600	$ 2.3694	$ 3.5753	$ 4.9658
170	$ 2.5377	$ 3.2473	$ 3.9142	$ 2.2810	$ 3.2607	$ 4.2035	$ 2.3455	$ 3.2130	$ 4.4767
171	$ 2.4578	$ 3.2251	$ 4.3261	$ 2.6479	$ 3.1285	$ 3.7016	$ 2.2220	$ 3.0994	$ 3.9073
172	$ 2.7376	$ 3.2760	$ 3.8605	$ 2.2151	$ 3.4322	$ 4.7300	$ 2.2365	$ 3.2128	$ 4.6047
173	$ 2.7219	$ 3.2472	$ 3.9183	$ 2.5412	$ 3.1106	$ 3.5474	$ 1.7732	$ 3.3568	$ 5.7795
174	$ 2.4274	$ 3.3073	$ 4.5300	$ 2.5508	$ 3.4552	$ 3.8551	$ 2.2777	$ 3.3896	$ 4.9157
175	$ 2.6666	$ 3.1219	$ 3.3895	$ 2.5783	$ 3.2098	$ 4.1098	$ 2.1412	$ 3.5103	$ 5.3400
176	$ 2.5722	$ 3.1867	$ 3.9198	$ 2.4543	$ 3.4201	$ 4.3461	$ 2.3493	$ 2.9795	$ 3.8211
177	$ 2.5581	$ 3.3405	$ 4.0000	$ 1.5000	$ 3.0047	$ 4.3391	$ 2.1117	$ 3.3396	$ 5.2128
178	$ 2.6113	$ 3.3351	$ 3.8454	$ 3.2014	$ 3.5159	$ 3.7048	$ 1.5212	$ 3.3578	$ 5.3400
179	$ 3.0568	$ 3.2800	$ 3.7769	$ 2.4859	$ 3.2399	$ 4.9600	$ 2.4312	$ 3.2306	$ 4.4321
180	$ 2.8175	$ 3.2099	$ 3.7659	$ 2.3663	$ 2.9127	$ 4.2689	$ 2.4805	$ 3.2995	$ 4.8997
181	$ 2.7919	$ 3.3730	$ 3.9676	$ 2.6176	$ 3.5845	$ 4.8792	$ 2.2843	$ 3.5231	$ 5.0489
182	$ 2.9903	$ 3.3478	$ 3.7795	$ 2.8825	$ 3.2746	$ 4.6911	$ 1.9681	$ 3.1040	$ 4.2311
183	$ 2.7604	$ 3.1755	$ 3.6603	$ 2.2380	$ 3.2426	$ 3.6976	$ 2.7557	$ 3.4736	$ 4.8024
184	$ 2.4901	$ 3.2223	$ 3.8484	$ 2.0760	$ 3.5542	$ 5.1182	$ 2.2909	$ 3.4128	$ 4.5460
185	$ 2.5485	$ 3.1166	$ 3.9031	$ 2.2665	$ 3.3836	$ 4.6223	$ 2.1385	$ 3.3129	$ 5.8326
186	$ 2.4684	$ 3.1136	$ 3.4818	$ 2.2812	$ 3.1529	$ 3.6675	$ 2.3625	$ 3.4976	$ 5.1430
187	$ 2.8127	$ 3.2378	$ 3.6806	$ 2.1961	$ 3.2870	$ 4.2477	$ 2.5047	$ 3.6158	$ 4.9278
188	$ 2.7415	$ 3.3071	$ 3.8744	$ 2.4801	$ 3.4103	$ 4.1711	$ 2.4510	$ 3.3515	$ 4.8824
189	$ 2.7584	$ 3.1301	$ 3.8903	$ 2.0622	$ 3.0863	$ 4.1668	$ 2.0202	$ 3.4676	$ 4.6759
190	$ 2.6774	$ 3.1964	$ 3.9853	$ 2.0770	$ 3.2121	$ 4.2879	$ 2.2033	$ 3.3305	$ 5.1200
191	$ 2.6382	$ 3.1315	$ 3.5079	$ 1.8514	$ 3.1954	$ 4.2681	$ 2.0242	$ 3.2186	$ 5.2088
192	$ 2.7814	$ 3.2939	$ 4.0095	$ 2.3009	$ 3.1959	$ 4.1488	$ 2.1804	$ 3.1601	$ 4.4074
193	$ 2.5829	$ 3.2732	$ 3.9800	$ 2.1629	$ 3.4114	$ 4.6600	$ 2.0250	$ 3.4406	$ 5.3135
194	$ 2.6555	$ 3.3642	$ 4.2746	$ 2.5421	$ 3.2171	$ 3.9986	$ 1.6532	$ 3.2670	$ 5.4400
195	$ 2.9780	$ 3.3047	$ 4.1504	$ 2.1367	$ 3.3519	$ 4.7346	$ 1.8993	$ 3.1026	$ 4.8324
196	$ 2.5498	$ 3.1677	$ 3.7282	$ 2.4525	$ 3.1320	$ 4.1499	$ 2.3096	$ 3.3348	$ 5.1692
197	$ 2.7151	$ 3.2290	$ 3.7343	$ 2.6128	$ 3.3127	$ 4.8000	$ 1.9918	$ 3.3213	$ 4.6587
198	$ 2.9665	$ 3.3696	$ 3.8847	$ 2.2625	$ 3.1656	$ 3.8455	$ 2.1889	$ 3.3518	$ 4.6421
199	$ 2.7580	$ 3.2974	$ 3.8756	$ 2.4048	$ 3.1408	$ 4.2074	$ 1.9701	$ 3.4293	$ 4.9532
200	$ 2.6023	$ 3.0766	$ 3.4702	$ 2.0775	$ 3.0731	$ 3.9929	$ 1.9778	$ 3.1269	$ 4.3454
Min	$ 1.9255	$ 2.9623	$ 3.3251	$ 1.5000	$ 2.8658	$ 3.3755	$ 1.5000	$ 2.5649	$ 3.4135
Ave	$ 2.6473	$ 3.2141	$ 3.8615	$ 2.3295	$ 3.2649	$ 4.3356	$ 2.1082	$ 3.2834	$ 4.8109
Max	$ 3.0568	$ 3.4540	$ 4.5300	$ 3.2014	$ 3.8215	$ 5.1300	$ 2.7928	$ 4.0358	$ 5.8400

	2020			2021			2022		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
1	$ 2.1621	$ 3.9504	$ 5.8975	$ 1.7293	$ 3.5965	$ 6.2303	$ 1.7622	$ 3.7323	$ 6.2113
2	$ 2.1198	$ 3.0624	$ 5.2963	$ 1.5772	$ 3.9300	$ 5.8002	$ 1.7187	$ 3.2217	$ 5.5032
3	$ 1.5252	$ 3.1460	$ 4.6970	$ 1.5000	$ 3.7475	$ 6.8700	$ 2.3668	$ 3.7128	$ 4.7879
4	$ 1.5659	$ 3.3143	$ 5.7046	$ 2.3780	$ 3.3783	$ 5.1750	$ 1.5000	$ 3.5888	$ 6.5471
5	$ 1.9655	$ 3.7065	$ 6.0292	$ 2.1587	$ 3.7379	$ 6.5050	$ 1.6067	$ 3.1844	$ 4.9842
6	$ 1.5000	$ 3.1405	$ 5.3849	$ 1.5000	$ 3.5441	$ 6.9700	$ 2.8146	$ 4.1258	$ 4.9996
7	$ 1.7074	$ 2.9614	$ 4.8206	$ 1.9943	$ 3.5642	$ 6.1522	$ 1.5000	$ 2.9807	$ 5.3185
8	$ 1.7007	$ 3.4427	$ 5.8634	$ 1.5000	$ 3.5325	$ 5.5620	$ 1.6832	$ 4.0379	$ 5.3961
9	$ 1.5000	$ 3.3466	$ 5.3388	$ 1.8107	$ 3.7630	$ 6.1464	$ 1.5000	$ 3.1855	$ 6.1979
10	$ 1.6855	$ 3.0936	$ 4.0898	$ 1.5564	$ 3.8533	$ 7.5100	$ 2.2579	$ 3.4267	$ 4.8378
11	$ 1.9262	$ 3.3749	$ 5.1800	$ 1.9260	$ 3.4722	$ 4.8458	$ 2.1017	$ 4.1140	$ 7.7200
12	$ 2.0260	$ 3.6308	$ 5.1485	$ 2.0883	$ 3.7708	$ 5.1452	$ 1.8641	$ 4.0496	$ 7.5376
13	$ 2.3869	$ 3.4755	$ 5.4546	$ 2.0433	$ 3.5937	$ 6.6500	$ 1.8834	$ 4.6637	$ 7.7200
14	$ 1.8253	$ 3.4678	$ 4.9005	$ 2.1319	$ 3.5587	$ 5.5269	$ 1.5000	$ 3.6644	$ 7.3474
15	$ 2.1314	$ 3.4983	$ 6.1400	$ 2.3343	$ 3.8584	$ 7.3154	$ 1.5000	$ 3.4950	$ 5.5425
16	$ 2.2234	$ 3.6712	$ 5.3253	$ 2.1363	$ 3.7508	$ 5.6734	$ 2.0477	$ 3.8038	$ 6.1442
17	$ 1.5897	$ 2.9849	$ 4.2398	$ 1.5428	$ 3.3959	$ 5.0974	$ 1.9940	$ 3.6122	$ 5.6821
18	$ 1.5416	$ 3.4744	$ 5.4237	$ 1.5000	$ 3.9920	$ 5.5794	$ 3.1028	$ 4.7894	$ 7.3800
19	$ 2.1793	$ 3.1534	$ 6.3900	$ 2.1184	$ 4.1401	$ 6.3604	$ 1.6906	$ 3.7984	$ 7.2216
20	$ 2.2759	$ 3.3472	$ 5.4740	$ 2.0424	$ 3.3364	$ 5.8364	$ 1.5000	$ 3.1052	$ 6.9650
21	$ 2.5274	$ 3.5299	$ 5.1414	$ 2.4031	$ 4.2760	$ 6.9200	$ 1.7099	$ 3.1626	$ 6.1631
22	$ 2.3434	$ 3.3126	$ 5.4372	$ 2.0842	$ 3.0627	$ 4.5281	$ 1.7811	$ 3.8654	$ 7.5800
23	$ 2.1915	$ 4.1468	$ 6.5200	$ 1.8847	$ 3.7306	$ 7.1959	$ 2.6026	$ 4.4919	$ 8.0800
24	$ 1.8087	$ 3.1479	$ 4.1421	$ 2.5825	$ 4.0582	$ 6.5775	$ 2.1013	$ 4.1511	$ 6.5969
25	$ 1.8645	$ 3.3680	$ 5.8918	$ 1.5970	$ 3.9916	$ 5.5634	$ 1.5000	$ 3.9332	$ 7.8200
26	$ 2.1695	$ 3.1602	$ 4.6198	$ 2.3244	$ 3.6781	$ 6.3233	$ 1.5772	$ 4.4396	$ 6.2171
27	$ 1.9883	$ 3.2515	$ 4.1426	$ 2.6285	$ 4.1327	$ 5.7278	$ 2.0691	$ 3.3396	$ 5.9452
28	$ 2.2315	$ 3.0524	$ 3.7382	$ 1.5028	$ 3.0967	$ 4.5759	$ 1.5000	$ 3.5413	$ 6.0353
29	$ 2.2032	$ 3.9903	$ 6.2100	$ 2.5175	$ 3.6934	$ 5.4050	$ 1.5816	$ 3.6663	$ 5.2212
30	$ 2.0916	$ 3.5035	$ 4.8501	$ 2.1110	$ 3.5082	$ 5.5547	$ 2.0926	$ 3.7876	$ 5.4907
31	$ 1.7951	$ 3.4919	$ 5.3355	$ 1.6205	$ 3.2526	$ 4.7100	$ 2.4393	$ 3.9155	$ 6.7768
32	$ 1.7783	$ 3.1908	$ 4.6839	$ 1.8393	$ 3.9672	$ 6.9700	$ 2.2394	$ 4.1794	$ 6.4895
33	$ 2.5193	$ 3.7411	$ 4.6976	$ 1.6835	$ 3.7510	$ 6.6500	$ 1.5000	$ 3.5336	$ 6.9547
34	$ 1.6911	$ 3.4566	$ 5.8319	$ 1.5610	$ 3.5957	$ 7.5100	$ 2.2670	$ 4.2108	$ 7.9100
35	$ 2.1705	$ 3.2510	$ 4.8269	$ 1.5035	$ 2.8729	$ 4.4995	$ 1.5960	$ 3.7326	$ 5.7468
36	$ 2.5731	$ 3.8919	$ 5.8380	$ 2.3399	$ 3.4114	$ 6.4120	$ 2.1678	$ 4.0765	$ 6.5134
37	$ 2.1924	$ 3.6298	$ 5.0442	$ 1.6172	$ 3.1069	$ 5.2442	$ 1.8826	$ 3.4013	$ 5.9896
38	$ 2.3367	$ 3.7947	$ 6.1400	$ 3.2051	$ 4.7708	$ 6.9276	$ 2.2219	$ 4.0309	$ 7.2273
39	$ 1.8659	$ 3.5053	$ 6.0540	$ 1.8758	$ 4.2734	$ 7.5100	$ 1.5000	$ 3.7668	$ 7.7900
40	$ 2.0997	$ 3.3927	$ 4.9568	$ 2.7412	$ 3.8792	$ 6.1467	$ 2.0753	$ 4.3288	$ 7.7900
41	$ 1.5000	$ 3.6031	$ 5.9100	$ 1.8636	$ 4.0689	$ 6.5880	$ 1.7598	$ 3.7192	$ 5.0879
42	$ 1.7389	$ 3.0166	$ 4.5126	$ 2.0919	$ 3.8571	$ 5.8272	$ 1.5154	$ 3.7194	$ 7.4179
43	$ 2.5319	$ 3.9191	$ 5.4717	$ 2.1026	$ 3.8050	$ 7.3200	$ 1.9846	$ 3.5560	$ 6.3238
44	$ 2.1590	$ 3.5296	$ 5.1416	$ 2.2444	$ 3.6666	$ 5.3829	$ 2.2388	$ 3.8757	$ 5.8597
45	$ 1.6979	$ 3.1374	$ 5.6295	$ 1.9796	$ 3.7926	$ 6.3130	$ 2.2023	$ 4.2278	$ 8.2700
46	$ 2.7299	$ 3.7950	$ 6.2750	$ 1.7426	$ 3.5306	$ 5.5883	$ 1.6172	$ 3.2997	$ 5.6598
47	$ 2.1120	$ 3.4830	$ 6.0600	$ 2.3535	$ 4.3370	$ 6.3870	$ 1.5424	$ 3.2709	$ 5.3084
48	$ 1.9625	$ 3.6959	$ 4.6717	$ 2.1594	$ 3.7313	$ 6.6480	$ 1.7939	$ 3.6810	$ 5.7994
49	$ 2.0134	$ 3.4610	$ 6.1400	$ 2.0696	$ 3.3416	$ 4.3674	$ 2.0275	$ 3.6767	$ 7.6820
50	$ 2.1490	$ 3.7915	$ 5.9100	$ 1.9041	$ 3.6585	$ 6.8380	$ 2.1659	$ 4.3841	$ 7.5800

	2020			2021			2022		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
51	$ 1.9329	$ 3.4218	$ 6.3900	$ 2.1477	$ 3.9776	$ 6.5418	$ 2.0593	$ 3.6908	$ 5.7202
52	$ 2.6061	$ 3.9199	$ 6.4451	$ 2.2265	$ 3.4036	$ 6.8700	$ 2.0309	$ 3.7401	$ 7.6100
53	$ 2.6079	$ 3.4053	$ 4.4608	$ 2.8766	$ 3.9679	$ 6.0119	$ 1.5000	$ 4.2285	$ 6.2012
54	$ 2.1682	$ 3.5910	$ 5.5846	$ 1.7064	$ 3.7173	$ 6.8700	$ 2.0714	$ 3.3425	$ 4.2708
55	$ 1.5618	$ 3.2413	$ 6.4517	$ 1.5000	$ 3.3841	$ 5.1199	$ 2.2781	$ 4.2661	$ 6.7979
56	$ 2.3614	$ 3.4540	$ 6.0600	$ 1.8254	$ 3.4658	$ 5.9984	$ 1.6478	$ 3.8480	$ 7.2928
57	$ 1.8719	$ 3.9964	$ 6.1400	$ 1.6395	$ 3.3114	$ 6.8400	$ 1.8959	$ 3.6918	$ 5.9473
58	$ 2.3872	$ 3.2637	$ 4.7908	$ 1.5000	$ 3.4166	$ 5.5420	$ 1.7548	$ 3.5974	$ 6.0324
59	$ 2.2554	$ 3.3877	$ 5.6892	$ 1.8728	$ 3.9039	$ 7.5100	$ 2.3655	$ 3.5453	$ 5.8060
60	$ 2.1739	$ 3.7529	$ 5.4228	$ 1.8338	$ 3.5806	$ 6.9700	$ 2.3132	$ 4.1302	$ 7.5800
61	$ 2.0423	$ 3.4871	$ 6.1930	$ 2.1433	$ 3.7080	$ 6.3090	$ 1.5000	$ 3.3405	$ 7.2677
62	$ 1.8376	$ 3.4432	$ 5.1826	$ 1.6103	$ 3.8937	$ 6.1195	$ 2.5472	$ 4.0910	$ 7.2877
63	$ 1.8845	$ 3.4904	$ 5.0761	$ 1.9710	$ 3.2657	$ 7.1600	$ 1.5000	$ 3.4162	$ 6.7725
64	$ 2.0483	$ 3.7712	$ 6.2500	$ 1.5000	$ 3.9360	$ 6.9583	$ 1.7982	$ 3.5461	$ 5.5318
65	$ 2.0467	$ 3.3995	$ 4.7440	$ 2.1210	$ 3.2970	$ 6.5599	$ 1.9140	$ 3.7125	$ 6.1008
66	$ 2.1414	$ 3.1218	$ 4.5911	$ 1.8800	$ 3.3053	$ 5.3347	$ 2.0267	$ 3.9344	$ 6.1536
67	$ 2.3135	$ 3.8361	$ 5.6861	$ 1.9497	$ 4.1401	$ 5.9431	$ 1.8810	$ 2.9695	$ 4.2486
68	$ 2.1296	$ 4.2254	$ 6.3900	$ 1.6300	$ 3.5697	$ 4.8420	$ 1.5000	$ 3.7343	$ 7.6365
69	$ 2.7569	$ 3.7921	$ 5.9100	$ 1.8323	$ 3.7765	$ 6.8800	$ 1.6868	$ 3.6716	$ 7.2905
70	$ 1.7092	$ 3.3697	$ 5.0628	$ 2.2698	$ 3.8016	$ 7.0204	$ 3.0679	$ 4.6929	$ 7.8200
71	$ 1.8604	$ 3.6946	$ 6.0600	$ 2.5289	$ 4.0202	$ 5.2409	$ 1.8082	$ 4.3363	$ 6.3079
72	$ 1.7805	$ 3.6033	$ 5.9300	$ 1.5607	$ 3.6040	$ 6.3707	$ 2.1789	$ 4.5149	$ 7.9100
73	$ 1.7913	$ 2.7784	$ 4.8281	$ 1.9335	$ 3.1297	$ 5.8492	$ 2.5480	$ 3.7656	$ 5.8559
74	$ 2.0225	$ 3.0246	$ 4.2249	$ 1.6353	$ 3.5795	$ 6.8800	$ 1.5000	$ 3.0565	$ 3.9430
75	$ 2.0568	$ 3.7218	$ 6.2498	$ 1.8481	$ 3.6053	$ 6.9700	$ 1.9257	$ 2.9603	$ 4.4104
76	$ 1.6404	$ 3.5491	$ 6.1400	$ 1.7183	$ 2.9107	$ 3.9120	$ 1.5000	$ 3.4774	$ 6.7204
77	$ 2.4678	$ 3.9917	$ 6.3900	$ 2.3364	$ 3.5952	$ 5.5366	$ 1.5000	$ 3.8095	$ 5.8775
78	$ 2.2100	$ 3.2969	$ 5.1694	$ 1.8234	$ 4.1126	$ 7.3200	$ 2.2834	$ 4.6520	$ 7.7963
79	$ 1.9535	$ 3.4747	$ 6.3000	$ 1.9874	$ 3.1562	$ 6.0567	$ 1.5000	$ 3.5321	$ 6.4290
80	$ 2.7389	$ 3.7121	$ 5.9159	$ 2.1639	$ 3.6044	$ 5.5483	$ 1.6693	$ 3.7888	$ 6.0780
81	$ 1.9722	$ 3.0538	$ 6.5200	$ 1.5000	$ 3.5467	$ 5.8003	$ 1.7174	$ 3.8904	$ 7.5800
82	$ 2.1310	$ 3.1684	$ 4.1376	$ 1.5000	$ 3.5581	$ 6.5562	$ 2.2359	$ 3.7308	$ 6.0783
83	$ 2.1116	$ 3.4399	$ 6.1400	$ 1.5558	$ 2.9584	$ 4.3716	$ 2.0104	$ 4.2555	$ 7.7802
84	$ 2.4419	$ 3.4473	$ 5.0956	$ 1.5000	$ 3.5234	$ 6.1609	$ 1.7716	$ 3.9545	$ 6.1732
85	$ 2.0771	$ 3.8892	$ 5.9937	$ 2.0068	$ 3.7378	$ 6.4564	$ 1.7686	$ 3.8490	$ 7.9100
86	$ 2.3115	$ 3.7126	$ 6.1400	$ 1.5000	$ 3.4616	$ 5.7360	$ 1.6019	$ 3.7370	$ 7.6100
87	$ 1.8944	$ 3.5853	$ 5.6648	$ 2.3701	$ 3.6815	$ 6.8377	$ 1.5000	$ 4.3107	$ 7.1347
88	$ 2.6498	$ 3.6568	$ 5.4512	$ 1.5000	$ 2.9906	$ 4.7911	$ 2.5421	$ 3.8177	$ 6.2858
89	$ 1.6521	$ 3.5474	$ 6.1400	$ 1.5729	$ 3.4406	$ 4.9075	$ 2.4343	$ 3.6163	$ 7.3876
90	$ 2.1708	$ 3.5715	$ 5.6898	$ 2.1557	$ 3.5930	$ 4.8855	$ 2.5644	$ 4.4743	$ 7.5800
91	$ 2.4816	$ 3.4525	$ 5.5362	$ 2.1077	$ 3.2244	$ 5.1918	$ 2.3187	$ 4.1204	$ 6.3476
92	$ 2.0125	$ 3.4733	$ 4.5802	$ 2.4328	$ 4.2016	$ 6.4449	$ 1.8502	$ 3.5123	$ 6.0526
93	$ 1.5446	$ 3.4506	$ 5.6977	$ 1.9773	$ 3.4167	$ 5.1541	$ 2.0674	$ 3.4737	$ 5.2156
94	$ 1.6278	$ 3.1752	$ 4.5812	$ 2.0479	$ 3.5771	$ 7.3200	$ 2.2569	$ 3.1195	$ 5.5280
95	$ 2.1052	$ 3.6987	$ 5.2831	$ 2.7073	$ 3.9574	$ 6.2206	$ 1.7977	$ 3.9973	$ 7.7900
96	$ 2.7646	$ 3.8601	$ 6.1400	$ 1.7292	$ 3.1720	$ 5.3112	$ 2.3421	$ 5.2736	$ 7.2536
97	$ 2.2843	$ 3.5896	$ 5.6296	$ 1.5506	$ 3.4611	$ 7.0332	$ 1.9196	$ 4.5769	$ 7.9100
98	$ 1.6325	$ 3.7266	$ 6.3900	$ 2.1844	$ 3.3890	$ 5.3520	$ 1.8445	$ 3.9321	$ 6.4735
99	$ 1.8572	$ 3.3235	$ 6.1400	$ 1.9547	$ 3.1543	$ 5.8526	$ 2.5677	$ 4.0349	$ 7.5800
100	$ 1.9482	$ 3.3395	$ 6.5200	$ 2.2092	$ 3.7505	$ 5.0492	$ 1.5000	$ 3.4034	$ 5.5532

	2020			2021			2022		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
101	$ 2.1007	$ 3.3694	$ 4.7689	$ 1.6747	$ 3.8550	$ 6.0107	$ 1.8891	$ 4.5294	$ 7.3087
102	$ 2.3141	$ 4.1235	$ 6.5200	$ 3.0026	$ 3.9768	$ 7.0500	$ 1.5696	$ 3.6795	$ 7.9100
103	$ 2.1538	$ 3.1851	$ 4.7627	$ 1.9212	$ 2.8673	$ 4.4101	$ 1.5000	$ 4.0188	$ 7.4291
104	$ 1.7857	$ 3.1677	$ 5.3107	$ 1.5000	$ 2.8913	$ 5.3325	$ 1.7377	$ 4.1726	$ 7.7900
105	$ 1.5000	$ 3.4100	$ 5.0866	$ 1.6622	$ 3.4993	$ 5.6186	$ 1.7487	$ 3.9412	$ 6.4609
106	$ 3.0809	$ 4.0670	$ 6.1400	$ 2.0837	$ 3.9134	$ 6.8698	$ 1.9260	$ 3.3006	$ 4.9437
107	$ 1.8843	$ 2.9416	$ 5.2622	$ 2.0010	$ 3.3846	$ 5.3625	$ 1.8846	$ 3.6818	$ 7.1588
108	$ 1.6203	$ 3.1861	$ 4.0111	$ 2.0205	$ 3.2244	$ 4.6984	$ 1.8360	$ 3.7771	$ 7.5094
109	$ 1.8395	$ 3.2395	$ 5.1963	$ 2.3312	$ 3.5072	$ 6.0810	$ 1.9820	$ 3.6976	$ 5.1825
110	$ 2.2683	$ 3.7510	$ 5.7240	$ 1.8638	$ 3.2917	$ 4.7556	$ 2.0041	$ 3.6989	$ 5.5517
111	$ 2.2391	$ 3.5335	$ 6.2100	$ 1.5000	$ 4.0104	$ 7.5100	$ 2.0555	$ 3.6436	$ 7.6100
112	$ 2.1476	$ 3.0716	$ 4.4324	$ 1.5000	$ 3.4144	$ 5.8523	$ 1.5853	$ 3.7922	$ 7.2736
113	$ 1.7221	$ 3.6608	$ 6.2100	$ 2.0953	$ 3.8263	$ 6.9700	$ 2.0659	$ 4.0409	$ 5.6433
114	$ 2.0951	$ 3.4629	$ 5.1888	$ 2.5588	$ 3.3592	$ 6.2091	$ 2.2321	$ 3.4281	$ 5.2374
115	$ 2.0244	$ 3.1847	$ 5.2864	$ 2.1303	$ 3.3531	$ 6.6500	$ 1.5287	$ 4.1528	$ 7.6700
116	$ 1.7318	$ 3.2355	$ 5.5553	$ 1.6150	$ 3.2200	$ 5.4899	$ 1.5000	$ 3.4192	$ 7.9100
117	$ 2.0284	$ 2.8877	$ 6.1400	$ 1.9283	$ 3.6172	$ 4.9843	$ 2.8460	$ 4.2820	$ 6.6277
118	$ 2.4235	$ 3.8700	$ 6.5200	$ 2.1552	$ 3.4074	$ 4.8272	$ 1.9757	$ 4.0758	$ 6.7055
119	$ 2.0254	$ 3.1675	$ 4.6997	$ 2.0003	$ 3.3185	$ 5.2082	$ 1.6735	$ 3.7564	$ 5.3380
120	$ 2.1558	$ 3.7657	$ 6.0600	$ 2.4250	$ 3.6471	$ 5.6530	$ 1.5000	$ 2.9722	$ 5.0613
121	$ 2.7676	$ 3.5668	$ 5.1211	$ 1.9502	$ 4.1164	$ 6.5129	$ 2.1082	$ 3.4383	$ 7.9066
122	$ 2.0201	$ 3.2860	$ 4.6291	$ 1.9518	$ 3.2488	$ 4.5337	$ 1.7729	$ 3.6830	$ 6.3840
123	$ 2.0897	$ 3.4836	$ 5.3632	$ 1.5679	$ 3.8610	$ 5.8186	$ 1.5946	$ 3.2440	$ 7.1935
124	$ 2.0679	$ 3.6148	$ 5.2960	$ 3.2551	$ 3.9308	$ 4.5477	$ 1.6384	$ 4.0696	$ 6.8357
125	$ 1.7894	$ 3.7219	$ 6.1400	$ 1.8177	$ 3.3123	$ 6.2973	$ 1.5014	$ 4.1128	$ 6.6312
126	$ 1.5000	$ 3.7507	$ 5.8003	$ 1.5000	$ 3.8149	$ 7.0800	$ 2.5253	$ 3.2805	$ 4.7023
127	$ 1.8217	$ 3.1760	$ 6.1300	$ 1.8520	$ 3.5725	$ 6.8400	$ 1.8729	$ 3.1185	$ 4.6225
128	$ 2.8905	$ 3.7171	$ 5.9585	$ 1.8267	$ 3.7125	$ 5.2157	$ 2.0004	$ 4.3273	$ 7.2988
129	$ 2.2563	$ 3.3602	$ 5.3121	$ 1.5811	$ 3.6381	$ 6.8700	$ 2.3424	$ 3.6261	$ 8.0800
130	$ 2.0870	$ 3.3658	$ 4.4546	$ 2.3308	$ 3.3859	$ 4.9260	$ 2.7544	$ 4.5486	$ 7.8200
131	$ 2.2385	$ 3.5998	$ 5.9054	$ 2.1798	$ 3.3242	$ 5.2829	$ 1.5000	$ 4.8151	$ 7.5800
132	$ 2.2925	$ 3.4174	$ 4.8811	$ 2.1535	$ 3.9634	$ 6.8076	$ 1.6126	$ 3.1736	$ 5.0052
133	$ 2.1861	$ 3.6227	$ 6.0466	$ 1.8220	$ 3.3961	$ 6.9855	$ 1.5000	$ 3.2277	$ 4.9718
134	$ 1.9417	$ 3.5912	$ 5.3907	$ 2.3653	$ 3.4862	$ 5.2397	$ 2.2101	$ 4.5185	$ 7.9100
135	$ 1.9020	$ 3.2147	$ 5.4533	$ 2.3291	$ 3.7996	$ 6.4591	$ 1.8258	$ 3.6903	$ 7.7200
136	$ 2.9958	$ 4.2106	$ 5.0755	$ 1.9140	$ 4.0090	$ 7.1600	$ 2.2769	$ 4.4439	$ 7.6454
137	$ 2.3555	$ 3.8419	$ 5.0975	$ 1.7627	$ 3.1873	$ 4.9191	$ 1.7463	$ 3.6923	$ 7.0386
138	$ 2.1923	$ 3.2392	$ 4.5293	$ 2.1576	$ 3.5388	$ 5.9168	$ 1.6343	$ 3.7576	$ 7.5302
139	$ 1.5602	$ 3.8018	$ 6.1514	$ 1.5000	$ 3.8057	$ 6.3823	$ 1.8661	$ 3.6656	$ 7.9100
140	$ 2.6633	$ 3.5931	$ 4.8015	$ 1.8055	$ 3.4030	$ 5.2015	$ 1.7869	$ 3.6102	$ 7.1806
141	$ 2.5978	$ 3.3751	$ 5.4139	$ 1.6014	$ 2.9807	$ 4.4633	$ 1.8739	$ 3.3099	$ 5.4059
142	$ 2.2786	$ 3.5022	$ 6.1156	$ 1.5000	$ 3.6835	$ 6.8700	$ 2.4723	$ 3.5835	$ 5.4593
143	$ 1.6971	$ 3.3993	$ 4.9994	$ 2.2884	$ 4.0395	$ 5.5547	$ 1.9098	$ 2.9315	$ 5.4724
144	$ 1.8189	$ 3.5793	$ 4.4911	$ 1.8963	$ 3.6219	$ 6.2374	$ 1.8074	$ 3.8295	$ 6.4081
145	$ 1.5000	$ 3.8131	$ 6.3900	$ 1.6702	$ 2.7221	$ 4.1029	$ 1.7570	$ 3.5577	$ 6.5824
146	$ 2.5599	$ 3.3989	$ 4.9948	$ 1.7160	$ 3.2981	$ 6.8800	$ 1.5000	$ 4.5843	$ 7.6700
147	$ 2.2398	$ 3.7110	$ 5.9491	$ 1.5000	$ 3.6410	$ 6.9200	$ 1.7592	$ 3.4572	$ 7.4691
148	$ 2.0013	$ 3.8374	$ 6.3000	$ 2.3932	$ 3.1254	$ 4.2165	$ 1.7571	$ 3.5263	$ 6.3364
149	$ 2.1758	$ 3.2961	$ 5.3453	$ 2.3956	$ 4.1768	$ 7.5100	$ 1.5200	$ 3.2286	$ 6.6587
150	$ 2.6062	$ 3.6555	$ 4.6363	$ 1.6859	$ 3.6350	$ 7.0500	$ 1.5000	$ 3.1390	$ 5.6055

	2020			2021			2022		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
151	$ 1.6088	$ 3.4408	$ 5.4280	$ 2.1446	$ 4.1275	$ 7.0500	$ 2.2838	$ 4.1487	$ 6.9686
152	$ 2.1129	$ 3.4370	$ 6.1300	$ 1.5326	$ 4.0564	$ 5.5158	$ 2.4374	$ 4.2303	$ 6.9059
153	$ 2.0810	$ 3.7770	$ 6.1300	$ 1.5000	$ 2.7084	$ 5.8008	$ 1.9143	$ 3.8010	$ 7.9100
154	$ 2.2656	$ 3.8456	$ 5.3791	$ 1.7687	$ 3.7807	$ 6.4151	$ 1.9194	$ 3.4777	$ 6.0085
155	$ 2.2396	$ 3.4416	$ 4.8282	$ 2.2281	$ 3.8819	$ 6.8800	$ 1.7210	$ 4.2598	$ 6.3350
156	$ 1.7944	$ 3.4095	$ 4.5333	$ 1.6257	$ 3.1212	$ 5.9974	$ 2.0987	$ 4.5687	$ 7.4488
157	$ 2.1672	$ 3.6621	$ 5.2751	$ 2.6066	$ 4.2744	$ 6.9700	$ 2.5444	$ 4.0459	$ 5.6398
158	$ 2.2002	$ 3.4729	$ 6.7200	$ 1.5000	$ 3.0768	$ 6.4130	$ 1.6340	$ 3.9316	$ 8.2549
159	$ 1.7663	$ 3.2272	$ 6.1400	$ 1.8075	$ 3.4743	$ 5.9871	$ 1.7969	$ 3.4019	$ 7.6100
160	$ 2.0466	$ 3.4186	$ 5.2253	$ 2.3853	$ 3.8568	$ 7.5100	$ 1.5000	$ 3.9461	$ 6.4875
161	$ 1.9075	$ 3.3447	$ 4.8372	$ 1.8620	$ 3.9469	$ 7.3200	$ 2.4501	$ 3.8030	$ 7.3795
162	$ 2.6325	$ 3.7070	$ 5.0336	$ 2.2495	$ 3.8618	$ 5.2291	$ 1.5000	$ 3.2321	$ 5.9144
163	$ 2.0068	$ 3.4760	$ 6.0600	$ 2.1518	$ 3.4381	$ 6.7185	$ 1.5000	$ 2.8780	$ 6.1481
164	$ 1.5000	$ 3.3377	$ 4.7208	$ 1.7141	$ 3.6577	$ 6.1251	$ 2.1060	$ 3.4445	$ 6.1384
165	$ 2.1187	$ 3.6401	$ 4.9066	$ 2.0161	$ 3.7295	$ 6.7282	$ 1.8388	$ 3.9876	$ 5.7566
166	$ 1.7958	$ 3.6548	$ 5.7034	$ 1.7063	$ 3.7351	$ 5.7236	$ 1.8177	$ 3.6723	$ 7.6100
167	$ 2.2366	$ 4.0426	$ 5.4366	$ 1.8681	$ 3.3758	$ 4.4990	$ 1.5000	$ 3.7184	$ 7.2504
168	$ 1.9710	$ 3.7910	$ 6.1300	$ 1.9446	$ 3.5136	$ 5.7790	$ 1.9520	$ 3.9208	$ 6.1455
169	$ 1.9656	$ 3.2967	$ 5.3169	$ 2.0402	$ 2.9926	$ 3.9319	$ 1.8716	$ 3.3982	$ 6.8847
170	$ 2.5350	$ 3.4441	$ 6.5200	$ 1.7830	$ 3.7531	$ 5.7084	$ 2.0203	$ 4.5944	$ 8.2700
171	$ 2.3754	$ 4.2474	$ 6.5200	$ 2.3093	$ 3.8495	$ 5.9994	$ 2.1146	$ 3.5241	$ 5.9447
172	$ 1.7519	$ 3.5605	$ 5.3502	$ 2.1805	$ 3.5164	$ 7.5100	$ 2.1553	$ 3.6467	$ 5.1768
173	$ 2.4505	$ 3.8654	$ 5.3446	$ 2.2745	$ 3.7387	$ 5.5623	$ 2.0415	$ 3.4771	$ 5.6941
174	$ 2.0950	$ 3.2531	$ 4.6127	$ 1.8263	$ 4.1505	$ 7.5100	$ 1.9635	$ 3.5569	$ 6.5457
175	$ 1.8402	$ 3.2760	$ 4.3105	$ 1.5000	$ 3.1011	$ 5.9360	$ 1.7248	$ 3.3252	$ 5.4287
176	$ 1.6809	$ 3.4345	$ 6.2665	$ 1.6262	$ 3.3806	$ 5.4410	$ 1.5000	$ 3.1541	$ 7.1322
177	$ 2.3025	$ 3.2584	$ 4.6843	$ 2.1680	$ 4.1314	$ 7.0370	$ 2.5319	$ 3.7329	$ 5.3658
178	$ 1.5640	$ 3.2126	$ 6.1400	$ 2.0538	$ 3.3921	$ 4.5863	$ 1.5000	$ 2.9928	$ 5.5607
179	$ 1.5238	$ 2.8983	$ 4.1991	$ 2.2618	$ 3.3464	$ 5.0585	$ 1.6436	$ 3.3444	$ 7.4598
180	$ 2.5632	$ 3.5876	$ 4.9261	$ 2.0334	$ 3.1767	$ 5.1335	$ 2.7977	$ 3.9434	$ 5.6906
181	$ 1.8738	$ 3.7550	$ 5.7364	$ 1.9502	$ 3.7317	$ 6.1382	$ 2.5830	$ 3.7803	$ 5.6904
182	$ 1.6433	$ 3.5139	$ 5.1820	$ 2.0018	$ 4.3392	$ 6.8700	$ 2.4598	$ 3.6376	$ 7.3667
183	$ 2.1721	$ 3.7847	$ 5.4653	$ 2.6299	$ 3.9226	$ 5.9263	$ 1.5000	$ 4.0472	$ 6.5141
184	$ 1.9542	$ 3.1697	$ 5.1733	$ 2.1201	$ 3.1965	$ 4.5097	$ 1.5000	$ 3.3983	$ 6.7939
185	$ 1.6635	$ 3.0117	$ 4.3457	$ 1.7079	$ 3.1099	$ 4.4671	$ 1.5000	$ 3.4607	$ 7.6100
186	$ 2.1071	$ 3.4074	$ 5.9306	$ 1.7591	$ 3.3854	$ 5.6218	$ 1.6403	$ 3.8256	$ 7.6700
187	$ 2.4478	$ 3.8184	$ 5.4403	$ 1.9947	$ 3.6774	$ 6.5816	$ 2.7209	$ 4.3480	$ 5.6588
188	$ 1.5044	$ 3.5310	$ 5.0488	$ 1.6976	$ 4.1165	$ 6.6346	$ 1.9575	$ 3.8034	$ 6.5703
189	$ 1.5000	$ 3.2779	$ 4.8458	$ 2.2811	$ 3.4698	$ 4.5462	$ 1.9847	$ 3.8176	$ 7.2324
190	$ 2.7144	$ 3.8212	$ 5.5478	$ 1.7496	$ 3.9664	$ 5.6032	$ 2.8210	$ 4.2206	$ 8.1702
191	$ 2.2489	$ 3.5886	$ 5.2839	$ 1.8016	$ 3.3453	$ 6.5034	$ 1.5000	$ 3.6706	$ 7.0184
192	$ 1.8791	$ 3.5221	$ 6.0600	$ 2.1457	$ 3.6302	$ 5.7792	$ 1.5000	$ 3.1263	$ 4.0030
193	$ 1.8397	$ 2.9948	$ 4.4632	$ 2.1560	$ 3.2448	$ 5.6194	$ 1.9600	$ 3.8743	$ 7.0839
194	$ 1.9551	$ 3.4161	$ 5.0395	$ 1.7734	$ 3.7546	$ 7.3623	$ 1.5894	$ 3.5136	$ 6.4911
195	$ 2.2213	$ 3.3096	$ 5.5915	$ 2.1374	$ 3.6866	$ 4.7768	$ 2.3861	$ 3.6315	$ 6.3070
196	$ 1.5000	$ 3.1009	$ 4.8823	$ 1.9933	$ 3.6196	$ 7.3200	$ 1.5447	$ 3.4233	$ 6.0630
197	$ 1.5068	$ 3.9760	$ 6.5200	$ 1.6436	$ 3.9347	$ 6.5782	$ 1.5000	$ 3.2426	$ 6.6326
198	$ 1.8274	$ 3.4790	$ 6.1400	$ 2.3569	$ 3.7803	$ 5.8269	$ 1.5000	$ 4.3360	$ 6.4114
199	$ 1.6165	$ 3.5415	$ 5.4553	$ 1.9735	$ 3.6772	$ 6.6514	$ 1.9765	$ 4.7662	$ 7.3800
200	$ 2.1585	$ 3.9750	$ 6.5200	$ 2.0298	$ 3.1679	$ 5.2068	$ 1.9681	$ 4.3904	$ 7.9100
Min	$ 1.5000	$ 2.7784	$ 3.7382	$ 1.5000	$ 2.7084	$ 3.9120	$ 1.5000	$ 2.8780	$ 3.9430
Ave	$ 2.0564	$ 3.4967	$ 5.4628	$ 1.9607	$ 3.6063	$ 6.0031	$ 1.9147	$ 3.7807	$ 6.5814
Max	$ 3.0809	$ 4.2474	$ 6.7200	$ 3.2551	$ 4.7708	$ 7.5100	$ 3.1028	$ 5.2736	$ 8.2700

	2023			2024			2025		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
1	$ 2.2057	$ 3.4218	$ 5.7823	$ 2.2824	$ 5.0772	$ 9.6100	$ 2.0509	$ 4.2116	$ 10.1900
2	$ 2.0751	$ 4.7691	$ 7.8948	$ 2.5425	$ 4.2476	$ 6.3068	$ 2.1020	$ 4.4727	$ 8.2388
3	$ 1.5000	$ 3.2298	$ 5.8625	$ 2.1265	$ 4.2424	$ 7.0136	$ 1.9575	$ 4.2862	$ 8.3099
4	$ 1.5000	$ 3.3890	$ 5.6581	$ 1.9433	$ 4.0378	$ 7.0560	$ 1.5000	$ 4.7846	$ 10.6000
5	$ 2.2746	$ 4.4730	$ 6.5476	$ 1.5925	$ 5.1338	$ 8.6804	$ 1.9013	$ 4.3920	$ 6.9470
6	$ 2.5716	$ 3.7683	$ 6.3855	$ 2.5656	$ 4.2805	$ 6.3930	$ 1.9464	$ 4.3743	$ 9.3621
7	$ 2.3481	$ 3.9842	$ 5.2757	$ 1.9371	$ 4.4984	$ 9.1900	$ 2.0130	$ 3.9619	$ 7.7711
8	$ 1.9003	$ 4.1502	$ 7.0669	$ 2.1943	$ 4.2978	$ 7.2022	$ 1.7899	$ 3.1727	$ 4.2658
9	$ 1.5773	$ 3.4965	$ 5.4381	$ 1.6544	$ 3.9766	$ 7.3612	$ 1.5000	$ 4.6907	$ 10.0800
10	$ 2.1855	$ 3.8902	$ 7.9747	$ 1.5000	$ 4.2511	$ 8.2943	$ 1.6298	$ 4.8284	$ 9.6339
11	$ 2.0384	$ 4.7828	$ 8.3000	$ 2.4356	$ 4.5659	$ 8.5484	$ 1.9093	$ 4.2417	$ 8.1141
12	$ 1.5275	$ 3.8913	$ 8.7300	$ 1.5630	$ 3.5523	$ 5.8839	$ 2.0030	$ 4.7499	$ 10.2900
13	$ 1.7196	$ 4.0606	$ 7.4734	$ 1.9600	$ 4.3098	$ 8.2582	$ 1.6126	$ 4.0701	$ 6.9585
14	$ 1.5368	$ 3.7032	$ 6.5195	$ 1.5000	$ 4.2165	$ 7.4552	$ 2.1291	$ 3.7930	$ 7.8815
15	$ 1.5903	$ 3.5745	$ 6.7860	$ 2.1681	$ 4.5211	$ 9.5200	$ 1.5000	$ 3.7918	$ 10.1900
16	$ 2.1875	$ 3.6425	$ 6.2187	$ 2.0238	$ 4.5012	$ 8.4250	$ 1.5000	$ 4.5605	$ 9.8260
17	$ 2.0829	$ 3.5546	$ 5.9798	$ 2.1746	$ 4.8325	$ 9.4400	$ 1.6353	$ 3.8213	$ 7.2564
18	$ 2.0415	$ 3.7486	$ 6.1651	$ 1.5000	$ 4.1369	$ 9.9300	$ 1.8277	$ 4.0601	$ 6.6698
19	$ 1.5000	$ 3.7433	$ 5.2828	$ 1.5000	$ 4.9809	$ 8.1569	$ 1.8299	$ 5.9192	$ 10.0200
20	$ 1.9869	$ 3.3999	$ 6.4808	$ 1.6753	$ 4.4362	$ 7.4784	$ 1.5407	$ 4.1970	$ 8.5513
21	$ 1.7098	$ 3.2757	$ 5.4565	$ 1.5742	$ 5.0860	$ 8.7403	$ 2.2398	$ 3.6151	$ 7.3213
22	$ 2.2641	$ 3.8081	$ 6.9382	$ 2.7111	$ 4.5889	$ 8.3719	$ 1.9071	$ 3.1635	$ 4.7335
23	$ 2.6543	$ 4.7503	$ 8.3000	$ 2.6969	$ 3.8246	$ 5.2459	$ 1.5704	$ 4.3575	$ 9.2370
24	$ 1.9687	$ 3.6736	$ 6.7016	$ 1.5000	$ 3.9956	$ 7.7822	$ 1.5000	$ 3.8873	$ 6.5805
25	$ 2.2727	$ 4.2895	$ 8.5700	$ 1.8840	$ 4.8328	$ 9.3600	$ 1.5443	$ 3.7421	$ 6.5333
26	$ 1.5000	$ 3.4128	$ 6.6519	$ 2.0833	$ 3.3727	$ 6.9644	$ 1.9977	$ 4.2969	$ 6.5881
27	$ 1.5000	$ 4.6947	$ 8.3970	$ 1.9770	$ 3.7994	$ 8.0790	$ 1.8171	$ 4.0911	$ 6.4315
28	$ 1.9389	$ 4.0095	$ 8.5367	$ 2.1697	$ 4.1124	$ 6.5386	$ 2.1874	$ 4.3416	$ 9.2527
29	$ 1.5418	$ 3.7282	$ 5.7608	$ 2.5533	$ 4.3803	$ 6.0193	$ 1.5791	$ 3.9782	$ 9.7700
30	$ 1.8776	$ 4.2036	$ 8.3527	$ 2.1062	$ 4.5457	$ 7.7746	$ 1.6282	$ 3.9613	$ 8.7922
31	$ 1.6482	$ 3.8547	$ 7.9541	$ 2.1494	$ 4.1906	$ 8.8125	$ 1.8845	$ 4.6179	$ 8.1528
32	$ 1.5254	$ 4.0005	$ 7.6121	$ 1.7187	$ 3.9908	$ 9.5200	$ 2.0535	$ 3.5094	$ 6.6670
33	$ 1.8772	$ 3.2987	$ 4.6057	$ 2.2386	$ 3.8986	$ 6.1536	$ 1.5000	$ 3.8563	$ 6.3011
34	$ 2.1056	$ 4.2269	$ 6.6433	$ 1.5000	$ 5.3974	$ 9.3600	$ 1.5000	$ 3.8375	$ 9.4598
35	$ 1.9000	$ 4.3620	$ 6.9283	$ 2.0932	$ 3.9632	$ 6.5570	$ 1.5000	$ 3.4167	$ 5.3116
36	$ 1.6864	$ 3.7029	$ 5.8331	$ 2.5975	$ 5.5333	$ 9.9300	$ 1.5767	$ 3.3724	$ 8.0552
37	$ 1.6744	$ 3.8733	$ 6.3792	$ 1.6669	$ 3.6774	$ 8.8050	$ 1.7966	$ 3.7786	$ 5.6245
38	$ 2.7075	$ 5.5377	$ 8.6200	$ 2.0548	$ 3.8861	$ 5.5077	$ 1.5000	$ 4.6228	$ 9.9400
39	$ 2.2089	$ 3.8524	$ 5.7149	$ 1.5000	$ 4.9595	$ 9.7900	$ 2.0335	$ 4.0634	$ 6.7352
40	$ 2.9264	$ 4.6331	$ 8.7300	$ 1.5029	$ 3.7856	$ 9.4400	$ 1.8018	$ 3.8952	$ 9.7700
41	$ 2.0755	$ 4.0071	$ 7.7971	$ 2.7014	$ 4.3595	$ 9.6100	$ 2.2011	$ 4.5322	$ 10.1377
42	$ 1.5370	$ 3.9753	$ 6.8419	$ 1.6668	$ 4.9817	$ 9.3000	$ 1.5000	$ 4.0779	$ 10.0800
43	$ 1.7842	$ 3.8384	$ 8.7300	$ 1.6680	$ 3.6627	$ 7.2484	$ 1.5000	$ 3.1257	$ 6.7885
44	$ 1.9115	$ 3.4269	$ 8.4900	$ 1.8955	$ 4.6661	$ 8.5788	$ 1.7865	$ 4.5675	$ 7.3997
45	$ 2.2158	$ 4.3161	$ 7.1423	$ 2.6541	$ 4.9258	$ 9.3000	$ 1.9540	$ 3.6928	$ 7.1421
46	$ 2.0882	$ 3.5731	$ 6.9580	$ 2.1961	$ 4.4256	$ 9.7000	$ 1.8195	$ 4.3117	$ 7.3532
47	$ 1.5000	$ 3.9636	$ 6.1445	$ 1.6200	$ 4.0215	$ 7.0225	$ 1.5000	$ 3.5283	$ 7.2122
48	$ 2.3582	$ 3.7488	$ 8.6789	$ 1.5000	$ 3.8924	$ 8.0530	$ 2.4772	$ 3.8529	$ 6.9607
49	$ 2.0247	$ 4.2661	$ 8.5200	$ 2.0065	$ 3.9516	$ 7.3232	$ 1.5000	$ 4.1244	$ 7.6712
50	$ 1.5000	$ 3.8121	$ 6.2018	$ 1.7976	$ 3.9591	$ 7.7377	$ 1.5000	$ 3.5332	$ 7.1922

	2023			2024			2025		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
51	$ 2.5691	$ 4.2174	$ 7.2541	$ 2.3297	$ 4.0938	$ 7.2592	$ 2.4381	$ 5.1866	$ 7.9960
52	$ 2.3332	$ 4.4585	$ 7.9061	$ 2.2887	$ 5.2814	$ 7.6992	$ 1.5000	$ 4.2124	$ 8.2207
53	$ 1.5000	$ 3.5402	$ 6.2871	$ 2.7477	$ 3.9427	$ 5.2622	$ 1.5000	$ 5.0886	$ 8.7711
54	$ 1.6545	$ 5.0001	$ 8.4900	$ 1.9232	$ 5.0313	$ 8.1419	$ 2.2007	$ 3.9485	$ 6.6541
55	$ 1.5497	$ 3.6212	$ 7.9265	$ 2.0806	$ 4.1691	$ 6.6130	$ 1.5000	$ 3.5712	$ 8.3198
56	$ 1.5961	$ 3.6774	$ 6.8258	$ 1.9723	$ 4.9602	$ 9.7900	$ 1.6595	$ 5.7414	$ 10.6000
57	$ 1.5000	$ 4.7908	$ 8.3000	$ 2.1105	$ 3.7421	$ 6.1217	$ 1.5000	$ 4.2566	$ 7.0324
58	$ 2.6892	$ 4.8635	$ 7.2206	$ 1.5496	$ 4.5210	$ 8.2995	$ 1.7871	$ 3.8047	$ 7.8639
59	$ 2.0917	$ 4.1161	$ 6.5173	$ 1.7099	$ 3.9247	$ 8.4434	$ 2.3483	$ 4.3803	$ 9.5500
60	$ 1.6539	$ 4.0205	$ 6.3671	$ 2.3677	$ 4.0597	$ 7.5016	$ 2.5907	$ 5.1165	$ 10.1201
61	$ 1.9640	$ 4.1394	$ 6.4862	$ 1.5000	$ 3.4609	$ 6.3827	$ 2.1605	$ 3.7336	$ 5.2548
62	$ 2.1339	$ 4.0423	$ 6.9576	$ 1.8390	$ 3.5802	$ 6.6238	$ 1.9068	$ 3.2860	$ 6.3384
63	$ 2.0483	$ 3.4391	$ 7.7110	$ 3.1259	$ 4.6038	$ 6.8480	$ 2.2840	$ 4.4688	$ 9.7679
64	$ 1.7807	$ 3.4693	$ 6.2507	$ 1.5000	$ 4.1317	$ 7.5835	$ 1.6475	$ 4.0958	$ 6.7775
65	$ 2.3699	$ 3.9310	$ 6.5893	$ 1.6381	$ 4.1517	$ 6.2495	$ 2.0980	$ 3.8160	$ 6.1749
66	$ 1.5000	$ 4.1521	$ 8.4900	$ 1.7694	$ 3.5246	$ 8.1609	$ 1.5000	$ 4.1806	$ 10.6000
67	$ 1.5000	$ 3.7659	$ 8.4307	$ 2.3258	$ 4.1949	$ 7.4273	$ 1.6782	$ 3.5004	$ 7.3170
68	$ 1.8532	$ 3.5679	$ 5.2146	$ 1.5000	$ 4.8825	$ 9.2741	$ 1.5000	$ 3.9567	$ 10.0200
69	$ 1.6810	$ 4.5269	$ 8.6200	$ 1.6108	$ 4.3326	$ 6.6393	$ 1.9748	$ 4.5256	$ 9.7225
70	$ 1.7187	$ 3.9062	$ 7.6294	$ 1.6431	$ 3.8679	$ 6.6681	$ 1.5000	$ 3.6632	$ 7.1241
71	$ 1.7552	$ 3.7651	$ 5.1927	$ 1.5000	$ 3.9278	$ 8.8481	$ 1.8236	$ 4.2933	$ 8.5868
72	$ 1.5000	$ 3.2606	$ 5.4612	$ 1.5432	$ 4.0528	$ 6.6893	$ 2.0676	$ 3.9209	$ 6.4977
73	$ 1.7804	$ 3.6623	$ 6.3207	$ 1.5000	$ 4.8607	$ 9.7900	$ 1.5000	$ 4.1696	$ 9.8800
74	$ 1.6663	$ 4.2367	$ 5.8826	$ 1.9522	$ 4.3376	$ 8.6055	$ 2.7156	$ 4.7829	$ 8.3990
75	$ 2.3832	$ 4.3651	$ 6.1118	$ 2.1641	$ 4.1343	$ 6.6880	$ 1.5000	$ 3.8505	$ 7.8209
76	$ 1.5000	$ 3.2996	$ 7.3127	$ 1.7175	$ 3.8300	$ 9.7000	$ 2.2732	$ 4.1613	$ 7.0495
77	$ 1.7309	$ 3.8342	$ 6.3626	$ 1.5000	$ 4.2092	$ 9.2600	$ 2.3927	$ 3.9138	$ 7.5518
78	$ 2.3909	$ 4.3840	$ 8.5744	$ 2.1719	$ 3.6936	$ 9.3000	$ 2.6711	$ 5.4695	$ 9.5318
79	$ 2.2165	$ 4.2139	$ 6.2394	$ 1.9612	$ 4.8506	$ 9.1410	$ 1.7254	$ 3.3809	$ 9.9400
80	$ 2.0981	$ 3.9830	$ 6.4003	$ 1.6811	$ 4.2070	$ 8.6324	$ 1.6457	$ 4.0710	$ 8.1565
81	$ 2.3220	$ 4.2299	$ 7.1610	$ 2.1996	$ 4.5142	$ 6.8417	$ 2.3726	$ 4.6356	$ 10.1900
82	$ 1.8407	$ 3.4711	$ 6.5669	$ 1.5844	$ 4.4246	$ 8.1789	$ 1.5000	$ 4.1956	$ 6.8352
83	$ 2.4907	$ 3.9826	$ 5.7499	$ 2.6376	$ 3.9752	$ 6.0376	$ 1.5424	$ 5.1721	$ 8.5903
84	$ 1.8449	$ 3.1501	$ 5.5857	$ 1.7961	$ 4.1451	$ 9.2900	$ 1.7385	$ 5.0730	$ 10.1900
85	$ 1.7225	$ 3.5812	$ 5.4326	$ 1.5150	$ 4.0436	$ 7.0096	$ 2.0465	$ 4.2545	$ 10.1600
86	$ 1.5490	$ 3.3073	$ 7.6613	$ 1.8478	$ 4.6784	$ 7.9202	$ 2.4015	$ 4.2838	$ 7.4720
87	$ 2.1770	$ 4.3268	$ 8.7300	$ 1.5000	$ 4.4218	$ 8.9977	$ 1.8960	$ 4.3817	$ 7.1113
88	$ 1.7462	$ 4.2702	$ 8.7000	$ 2.4469	$ 4.5161	$ 9.7000	$ 2.3256	$ 4.5149	$ 6.5607
89	$ 1.5681	$ 4.2939	$ 8.6404	$ 1.9597	$ 4.0431	$ 7.4261	$ 1.5000	$ 4.8829	$ 10.1900
90	$ 1.8817	$ 4.4478	$ 8.7000	$ 1.5000	$ 3.9735	$ 6.9282	$ 1.7319	$ 3.9041	$ 10.3631
91	$ 1.5000	$ 3.4752	$ 6.4602	$ 2.0280	$ 3.5891	$ 6.4401	$ 2.0376	$ 4.0569	$ 5.5441
92	$ 2.0018	$ 3.6965	$ 7.7868	$ 1.7367	$ 4.2750	$ 8.9920	$ 1.5529	$ 3.6838	$ 7.6767
93	$ 2.2130	$ 4.6403	$ 8.5700	$ 2.0617	$ 3.7912	$ 7.2972	$ 1.5000	$ 3.3880	$ 6.2523
94	$ 2.2932	$ 4.9899	$ 7.5314	$ 1.5000	$ 4.4582	$ 9.3399	$ 1.5000	$ 3.4864	$ 7.3040
95	$ 1.7948	$ 3.7703	$ 5.0723	$ 1.5000	$ 4.8288	$ 9.9300	$ 2.1772	$ 4.2070	$ 7.6282
96	$ 1.5000	$ 3.5763	$ 7.1105	$ 1.5000	$ 4.6932	$ 8.3823	$ 1.5000	$ 4.3740	$ 10.0200
97	$ 2.4425	$ 3.8945	$ 5.6626	$ 1.5000	$ 3.5140	$ 6.6883	$ 1.5000	$ 3.3678	$ 6.3577
98	$ 1.9430	$ 3.9363	$ 6.4979	$ 2.2542	$ 5.9631	$ 9.4400	$ 1.7283	$ 4.2880	$ 8.6384
99	$ 1.5000	$ 4.0753	$ 5.5880	$ 1.7487	$ 4.6853	$ 8.7863	$ 2.4549	$ 4.5845	$ 7.9867
100	$ 1.6436	$ 3.6897	$ 8.6456	$ 2.8733	$ 4.6116	$ 8.3669	$ 1.5000	$ 4.6907	$ 9.8800

	2023			2024			2025		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
101	$ 1.6687	$ 3.8244	$ 6.9251	$ 1.7128	$ 4.5237	$ 7.0116	$ 1.5000	$ 3.8318	$ 7.1258
102	$ 1.8938	$ 3.8126	$ 8.4353	$ 1.8147	$ 4.2229	$ 8.5473	$ 2.0440	$ 2.8800	$ 4.3983
103	$ 1.6939	$ 3.8799	$ 9.2300	$ 2.7528	$ 4.2927	$ 5.9812	$ 1.5000	$ 3.7304	$ 8.2789
104	$ 2.1807	$ 4.1268	$ 6.6935	$ 2.3054	$ 3.6642	$ 7.9932	$ 2.3149	$ 4.4416	$ 8.3374
105	$ 2.0661	$ 3.6365	$ 6.3403	$ 1.9144	$ 3.8220	$ 7.1731	$ 1.7316	$ 4.3503	$ 10.1019
106	$ 1.5000	$ 3.9021	$ 6.1319	$ 1.5093	$ 4.1841	$ 7.9362	$ 1.8029	$ 4.1986	$ 10.0818
107	$ 1.7823	$ 3.7040	$ 5.4219	$ 1.5000	$ 4.4277	$ 6.0804	$ 2.4368	$ 4.4126	$ 9.0511
108	$ 1.8279	$ 3.2925	$ 4.6710	$ 1.5934	$ 4.3838	$ 7.4923	$ 2.1866	$ 4.5358	$ 8.8989
109	$ 2.1095	$ 3.7776	$ 6.8201	$ 1.5000	$ 3.2543	$ 6.5385	$ 1.5298	$ 4.7526	$ 8.0487
110	$ 1.8390	$ 3.5507	$ 5.6704	$ 2.8770	$ 4.7703	$ 7.8248	$ 1.5000	$ 4.5832	$ 9.7700
111	$ 1.8983	$ 3.6889	$ 5.8226	$ 2.1383	$ 3.9109	$ 5.8779	$ 1.5000	$ 4.1571	$ 8.8309
112	$ 2.2482	$ 4.4056	$ 8.8200	$ 2.9841	$ 4.8479	$ 8.4049	$ 2.0789	$ 6.0761	$ 10.0900
113	$ 1.7441	$ 3.4587	$ 6.5915	$ 1.5000	$ 3.7151	$ 7.0728	$ 1.6005	$ 3.4558	$ 7.6168
114	$ 1.5000	$ 4.1775	$ 8.0658	$ 2.6585	$ 5.5086	$ 8.2770	$ 2.1726	$ 3.6864	$ 5.7877
115	$ 1.5000	$ 3.3834	$ 5.7299	$ 2.1937	$ 4.3836	$ 7.1845	$ 1.5000	$ 3.6444	$ 10.0800
116	$ 1.5000	$ 4.6873	$ 8.3536	$ 2.2331	$ 3.2856	$ 5.3502	$ 1.5000	$ 4.0573	$ 7.9267
117	$ 2.5237	$ 4.6739	$ 7.2062	$ 1.9616	$ 4.2273	$ 6.9465	$ 1.5000	$ 4.2302	$ 10.0200
118	$ 1.9414	$ 4.0912	$ 7.5938	$ 1.5080	$ 3.1746	$ 5.1762	$ 1.6625	$ 3.9845	$ 7.1614
119	$ 1.7537	$ 3.6423	$ 7.2960	$ 1.6357	$ 3.1478	$ 4.9444	$ 1.8660	$ 4.3707	$ 8.9233
120	$ 2.0150	$ 4.1200	$ 6.3260	$ 1.7605	$ 4.7656	$ 8.5264	$ 2.0019	$ 3.4969	$ 6.0823
121	$ 1.8381	$ 3.8410	$ 6.6105	$ 1.6500	$ 4.3781	$ 7.9786	$ 1.6494	$ 3.9693	$ 6.9920
122	$ 2.3048	$ 4.2916	$ 7.5046	$ 1.6356	$ 3.4418	$ 6.3319	$ 2.1284	$ 4.5381	$ 8.8809
123	$ 2.0528	$ 3.5591	$ 7.1225	$ 1.5853	$ 3.3512	$ 6.7058	$ 2.3841	$ 4.9568	$ 8.5539
124	$ 2.2552	$ 4.4358	$ 8.3000	$ 1.5000	$ 4.4286	$ 9.7900	$ 1.8461	$ 4.0313	$ 7.4111
125	$ 1.9784	$ 3.6425	$ 7.4619	$ 3.2657	$ 5.9850	$ 9.5680	$ 1.5000	$ 3.7777	$ 9.7700
126	$ 1.7941	$ 4.1460	$ 8.7000	$ 1.5000	$ 3.7814	$ 5.5787	$ 1.7359	$ 4.2926	$ 7.5202
127	$ 2.6109	$ 3.8137	$ 6.3501	$ 2.1183	$ 4.1825	$ 9.2706	$ 1.5000	$ 3.0976	$ 5.5039
128	$ 1.5000	$ 4.2012	$ 9.2300	$ 2.0725	$ 4.2842	$ 8.0033	$ 1.5000	$ 4.9715	$ 9.7700
129	$ 2.0755	$ 3.7030	$ 7.2227	$ 2.2758	$ 4.9450	$ 9.7000	$ 2.1993	$ 4.6374	$ 10.1600
130	$ 1.5000	$ 3.7427	$ 7.5749	$ 2.1501	$ 4.7553	$ 7.5741	$ 1.5791	$ 4.1623	$ 8.8063
131	$ 1.6294	$ 2.9937	$ 5.5285	$ 1.5660	$ 4.4673	$ 9.9300	$ 2.0450	$ 4.9136	$ 9.8800
132	$ 2.2570	$ 3.8603	$ 6.4570	$ 2.6346	$ 4.3464	$ 9.7900	$ 1.6390	$ 4.6327	$ 10.1900
133	$ 3.1935	$ 4.5605	$ 5.7149	$ 1.9097	$ 4.1226	$ 7.0344	$ 2.0352	$ 4.7044	$ 7.1393
134	$ 2.4060	$ 4.4270	$ 8.5790	$ 1.8502	$ 4.1942	$ 7.5004	$ 1.6067	$ 4.7646	$ 8.5379
135	$ 2.5721	$ 3.9102	$ 6.5675	$ 1.8763	$ 5.1042	$ 8.5357	$ 1.5000	$ 5.1214	$ 10.6000
136	$ 2.3534	$ 4.6725	$ 9.0400	$ 1.5505	$ 3.9815	$ 5.4321	$ 2.6995	$ 4.1882	$ 7.7509
137	$ 1.5792	$ 4.1430	$ 8.6200	$ 2.0842	$ 3.9879	$ 6.1814	$ 1.6520	$ 3.5793	$ 6.0893
138	$ 2.2867	$ 5.1047	$ 8.8200	$ 1.5000	$ 3.8154	$ 6.6914	$ 1.5000	$ 3.8921	$ 5.7162
139	$ 2.7184	$ 4.7700	$ 8.3000	$ 1.8976	$ 3.6422	$ 6.9686	$ 1.5760	$ 3.6105	$ 7.0548
140	$ 2.3647	$ 4.0028	$ 8.4566	$ 1.5000	$ 3.9253	$ 7.7029	$ 1.5000	$ 4.6327	$ 10.0900
141	$ 1.8921	$ 3.5994	$ 5.9719	$ 2.1983	$ 5.2484	$ 9.7900	$ 1.6956	$ 4.0576	$ 10.2900
142	$ 1.5000	$ 4.3054	$ 8.5700	$ 2.4178	$ 4.0111	$ 6.0991	$ 2.0414	$ 4.3989	$ 9.8045
143	$ 1.9037	$ 3.4815	$ 5.6707	$ 1.9618	$ 3.6613	$ 8.2342	$ 1.5000	$ 3.5404	$ 7.6188
144	$ 2.5655	$ 3.9435	$ 6.1646	$ 2.0604	$ 4.1191	$ 9.0990	$ 1.8169	$ 3.7610	$ 8.8349
145	$ 1.9128	$ 4.4278	$ 5.7214	$ 1.5000	$ 4.0952	$ 7.5212	$ 1.5000	$ 2.9559	$ 6.3390
146	$ 1.5250	$ 3.4271	$ 5.2734	$ 2.1572	$ 4.5131	$ 7.0427	$ 2.9238	$ 5.4829	$ 10.0800
147	$ 1.5376	$ 4.0868	$ 8.4900	$ 1.5000	$ 3.8750	$ 6.2709	$ 2.0988	$ 4.2284	$ 10.3900
148	$ 1.8176	$ 3.5050	$ 6.4871	$ 2.1752	$ 4.1019	$ 6.5049	$ 2.5329	$ 5.1763	$ 10.1600
149	$ 1.5000	$ 3.9224	$ 6.1017	$ 2.8826	$ 4.6480	$ 9.4400	$ 2.0303	$ 4.9543	$ 7.8984
150	$ 1.8522	$ 3.7984	$ 7.0656	$ 2.3219	$ 3.9645	$ 6.1079	$ 1.5000	$ 4.0546	$ 7.9063

	2023			2024			2025		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
151	$ 2.2716	$ 3.3873	$ 6.3677	$ 1.8239	$ 3.6981	$ 7.0333	$ 1.5982	$ 4.2616	$ 8.6320
152	$ 1.5740	$ 4.2924	$ 7.8071	$ 2.0735	$ 4.5876	$ 9.7900	$ 2.1900	$ 4.2203	$ 6.9707
153	$ 1.8204	$ 4.0426	$ 6.9753	$ 2.1973	$ 4.6794	$ 9.5900	$ 1.7425	$ 4.3437	$ 7.7259
154	$ 1.9780	$ 3.9465	$ 7.2700	$ 2.2821	$ 4.4579	$ 8.0027	$ 1.5000	$ 3.1707	$ 5.3299
155	$ 2.0011	$ 3.6243	$ 5.5412	$ 1.7265	$ 3.2570	$ 7.4034	$ 1.5000	$ 3.0810	$ 6.1153
156	$ 1.8164	$ 3.1191	$ 6.2349	$ 1.5000	$ 4.7876	$ 9.3288	$ 2.0989	$ 3.8182	$ 5.7543
157	$ 1.5129	$ 3.9114	$ 7.9401	$ 1.8128	$ 4.0381	$ 6.7158	$ 1.5000	$ 5.1563	$ 10.6000
158	$ 1.8624	$ 5.1902	$ 9.2300	$ 1.8098	$ 4.5006	$ 7.3503	$ 2.0139	$ 4.7476	$ 9.7700
159	$ 2.3382	$ 4.3396	$ 8.1880	$ 2.7435	$ 4.7740	$ 7.6754	$ 1.5000	$ 4.0759	$ 10.1600
160	$ 1.5000	$ 3.7415	$ 9.0801	$ 1.5868	$ 3.9352	$ 6.3966	$ 2.1086	$ 5.1881	$ 7.8903
161	$ 1.5852	$ 3.8524	$ 7.3529	$ 1.7988	$ 3.5112	$ 4.8517	$ 1.5000	$ 5.0189	$ 9.9553
162	$ 2.5047	$ 4.6391	$ 8.5700	$ 1.8924	$ 3.5937	$ 7.9791	$ 1.5000	$ 3.9434	$ 6.6156
163	$ 1.5495	$ 4.5010	$ 8.3185	$ 1.5000	$ 3.9751	$ 9.7900	$ 1.5000	$ 3.1165	$ 5.1429
164	$ 1.5000	$ 4.0948	$ 7.7429	$ 1.5000	$ 4.0593	$ 9.5200	$ 1.5000	$ 4.6198	$ 8.7380
165	$ 1.6997	$ 4.5985	$ 8.7013	$ 2.1962	$ 4.6593	$ 9.2900	$ 1.5000	$ 3.7872	$ 9.1632
166	$ 1.6930	$ 4.1856	$ 6.4757	$ 2.5117	$ 4.5812	$ 9.6100	$ 1.6656	$ 3.9784	$ 8.7210
167	$ 1.5495	$ 4.2247	$ 7.2439	$ 1.5000	$ 3.8835	$ 6.4444	$ 1.7455	$ 3.4951	$ 6.9104
168	$ 1.5000	$ 2.8647	$ 4.2745	$ 1.5965	$ 3.5443	$ 5.7243	$ 1.5000	$ 4.1829	$ 6.7806
169	$ 2.4147	$ 4.2689	$ 8.0130	$ 2.4582	$ 4.4238	$ 6.1042	$ 2.3894	$ 4.9423	$ 9.9400
170	$ 1.8607	$ 3.5704	$ 8.2357	$ 1.5000	$ 5.1283	$ 9.5231	$ 1.5000	$ 3.5858	$ 7.0761
171	$ 1.9109	$ 3.4800	$ 4.9723	$ 2.2804	$ 5.3176	$ 9.9300	$ 2.2847	$ 4.9794	$ 8.3192
172	$ 2.4849	$ 4.6657	$ 9.0400	$ 1.9633	$ 4.6084	$ 7.5598	$ 2.4916	$ 4.6653	$ 7.6746
173	$ 1.5000	$ 4.1206	$ 8.5200	$ 1.9243	$ 3.8843	$ 8.6042	$ 1.5000	$ 3.7015	$ 8.4535
174	$ 1.5832	$ 4.8811	$ 8.4700	$ 1.7093	$ 4.3039	$ 9.2900	$ 1.5000	$ 3.7765	$ 10.2900
175	$ 1.7388	$ 4.9958	$ 8.8200	$ 1.8942	$ 3.2952	$ 4.8599	$ 1.6251	$ 3.8238	$ 8.4338
176	$ 1.9716	$ 4.5764	$ 7.0373	$ 1.5000	$ 3.8071	$ 9.2900	$ 2.2051	$ 4.7289	$ 10.2969
177	$ 2.3157	$ 3.9773	$ 7.8239	$ 2.6313	$ 3.6725	$ 5.2620	$ 1.9712	$ 3.8548	$ 9.1843
178	$ 1.5000	$ 4.0406	$ 6.5458	$ 1.5973	$ 3.8683	$ 6.5217	$ 2.1671	$ 4.1899	$ 7.0483
179	$ 2.5890	$ 3.9641	$ 6.5928	$ 1.5000	$ 3.6205	$ 5.9809	$ 2.1106	$ 5.3201	$ 10.1900
180	$ 1.6155	$ 3.6235	$ 7.1044	$ 1.5000	$ 4.6919	$ 9.3600	$ 1.5000	$ 3.2663	$ 6.6551
181	$ 2.2022	$ 5.0341	$ 7.3638	$ 2.6205	$ 3.9226	$ 7.3945	$ 1.5000	$ 4.4885	$ 10.1600
182	$ 2.0563	$ 4.0100	$ 7.1510	$ 2.1021	$ 4.4639	$ 7.2463	$ 1.8453	$ 5.5673	$ 9.3757
183	$ 1.9236	$ 4.5217	$ 8.3000	$ 1.7958	$ 4.5129	$ 9.7000	$ 2.1640	$ 4.4317	$ 8.2156
184	$ 1.6126	$ 4.2157	$ 9.2300	$ 2.3847	$ 4.1397	$ 8.5060	$ 1.7276	$ 4.7381	$ 9.9400
185	$ 2.4718	$ 4.0100	$ 6.1938	$ 2.2577	$ 4.5745	$ 7.5886	$ 2.5024	$ 3.8715	$ 5.3895
186	$ 1.5000	$ 4.2277	$ 7.5613	$ 1.8649	$ 4.3221	$ 7.5863	$ 1.5000	$ 4.5697	$ 9.7700
187	$ 1.7893	$ 4.1594	$ 7.2603	$ 1.5704	$ 3.3952	$ 6.9913	$ 1.5000	$ 4.1802	$ 7.1712
188	$ 1.5892	$ 5.1968	$ 8.5700	$ 1.5000	$ 4.7843	$ 7.4816	$ 1.5000	$ 4.1840	$ 9.4152
189	$ 2.2868	$ 4.1971	$ 6.8015	$ 2.0246	$ 3.6875	$ 6.7056	$ 1.5000	$ 3.3125	$ 5.7375
190	$ 2.2658	$ 5.1985	$ 7.3978	$ 1.9406	$ 4.1674	$ 9.6100	$ 2.3066	$ 3.9787	$ 5.8429
191	$ 2.0739	$ 3.3827	$ 8.5346	$ 2.0065	$ 4.1228	$ 9.7000	$ 2.5834	$ 4.1669	$ 7.6630
192	$ 1.9461	$ 3.6238	$ 6.6688	$ 1.8878	$ 4.2249	$ 6.5168	$ 1.5000	$ 3.1945	$ 7.1805
193	$ 1.9738	$ 3.9885	$ 6.0817	$ 1.5000	$ 3.8607	$ 8.4631	$ 2.2562	$ 4.3944	$ 10.0900
194	$ 1.5148	$ 3.9613	$ 6.3880	$ 2.3006	$ 3.9502	$ 4.9640	$ 2.0853	$ 4.6615	$ 9.8079
195	$ 1.5000	$ 4.1461	$ 8.7000	$ 1.5000	$ 4.2694	$ 9.2600	$ 2.0032	$ 4.6067	$ 8.2453
196	$ 1.5000	$ 3.8094	$ 8.7300	$ 1.5000	$ 4.1091	$ 6.3148	$ 1.5000	$ 4.0944	$ 9.4429
197	$ 1.8306	$ 4.4252	$ 8.7000	$ 2.3849	$ 4.2103	$ 7.2723	$ 1.5000	$ 4.5508	$ 8.1999
198	$ 1.8259	$ 3.7785	$ 6.8062	$ 1.5000	$ 3.7952	$ 7.7593	$ 2.0002	$ 5.4884	$ 9.1225
199	$ 1.5000	$ 4.1876	$ 8.4700	$ 1.9368	$ 3.8241	$ 6.6261	$ 1.5000	$ 3.6510	$ 5.4753
200	$ 1.8548	$ 4.1531	$ 7.1093	$ 3.0203	$ 5.3196	$ 9.2900	$ 2.4584	$ 4.5423	$ 8.9674
Min	$ 1.5000	$ 2.8647	$ 4.2745	$ 1.5000	$ 3.1478	$ 4.8517	$ 1.5000	$ 2.8800	$ 4.2658
Ave	$ 1.9147	$ 4.0047	$ 7.1676	$ 1.9460	$ 4.2457	$ 7.8047	$ 1.8251	$ 4.1989	$ 8.2252
Max	$ 3.1935	$ 5.5377	$ 9.2300	$ 3.2657	$ 5.9850	$ 9.9300	$ 2.9238	$ 6.0761	$ 10.6000

	2026			2027			2028		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
1	$ 2.0530	$ 4.7380	$ 9.7864	$ 1.9709	$ 4.3867	$ 8.2740	$ 1.5000	$ 6.3718	$ 12.3300
2	$ 1.8938	$ 4.7484	$ 10.8200	$ 1.5415	$ 4.2619	$ 8.4281	$ 1.5000	$ 5.3972	$ 12.9900
3	$ 1.5000	$ 4.3968	$ 8.9864	$ 2.1071	$ 4.8696	$ 8.4524	$ 1.5000	$ 3.8152	$ 12.6100
4	$ 1.5000	$ 4.6757	$ 10.8200	$ 1.7148	$ 5.2445	$ 10.5083	$ 1.5000	$ 3.0670	$ 4.9266
5	$ 1.5000	$ 4.1462	$ 7.9858	$ 1.5000	$ 4.4025	$ 11.3400	$ 1.5000	$ 4.8928	$ 12.3300
6	$ 1.5000	$ 3.7127	$ 8.2495	$ 1.5000	$ 4.6558	$ 11.5100	$ 1.5000	$ 4.5701	$ 8.1170
7	$ 1.7804	$ 3.9829	$ 7.1630	$ 1.5946	$ 5.2528	$ 11.6600	$ 1.7198	$ 6.4987	$ 12.5300
8	$ 1.5586	$ 4.8412	$ 10.5400	$ 1.6198	$ 4.5349	$ 9.0984	$ 1.5000	$ 4.6546	$ 11.5790
9	$ 1.5000	$ 5.9804	$ 10.5800	$ 1.5000	$ 3.3452	$ 7.0414	$ 1.5000	$ 4.5359	$ 9.8303
10	$ 1.5076	$ 3.6287	$ 7.9058	$ 1.7941	$ 4.0704	$ 8.1907	$ 1.5000	$ 5.1218	$ 12.1900
11	$ 1.5000	$ 4.1881	$ 9.9123	$ 1.5000	$ 5.0812	$ 11.4300	$ 2.3260	$ 5.6924	$ 9.9295
12	$ 1.5000	$ 3.7639	$ 10.8200	$ 1.5000	$ 3.7535	$ 7.3939	$ 1.5000	$ 5.1964	$ 10.4420
13	$ 1.5000	$ 3.6232	$ 9.8919	$ 1.5000	$ 4.6389	$ 9.4372	$ 3.2642	$ 6.6819	$ 11.2657
14	$ 1.5000	$ 4.5777	$ 10.8200	$ 1.5000	$ 2.9916	$ 5.9449	$ 1.5000	$ 4.1450	$ 11.5254
15	$ 1.5000	$ 4.2311	$ 9.8786	$ 1.5000	$ 3.2216	$ 5.3945	$ 2.4259	$ 4.5501	$ 8.4396
16	$ 1.6245	$ 3.3900	$ 8.1751	$ 1.5000	$ 4.2967	$ 9.3065	$ 1.9569	$ 5.8874	$ 12.9900
17	$ 2.3245	$ 4.3680	$ 8.5895	$ 1.5000	$ 4.3178	$ 11.5900	$ 1.5000	$ 3.8622	$ 7.5083
18	$ 2.1732	$ 4.4361	$ 7.9852	$ 2.2718	$ 4.5417	$ 11.7800	$ 1.5000	$ 4.7312	$ 12.5300
19	$ 1.5000	$ 3.7052	$ 11.3000	$ 1.5861	$ 3.3845	$ 8.0024	$ 1.5000	$ 3.5952	$ 8.0548
20	$ 1.5000	$ 5.5793	$ 10.7500	$ 1.9565	$ 5.0424	$ 10.1742	$ 1.5665	$ 5.5764	$ 12.8100
21	$ 1.8197	$ 5.0594	$ 10.3532	$ 1.5000	$ 4.1485	$ 7.7487	$ 1.6956	$ 5.4007	$ 12.4900
22	$ 2.7248	$ 5.6093	$ 10.9400	$ 1.5000	$ 3.8691	$ 11.6900	$ 1.5000	$ 5.0393	$ 11.0659
23	$ 1.7465	$ 4.3870	$ 10.4900	$ 1.5000	$ 4.3667	$ 10.9189	$ 1.5000	$ 3.8885	$ 12.5300
24	$ 1.9391	$ 3.9282	$ 6.7363	$ 1.9401	$ 5.5718	$ 11.3400	$ 1.6283	$ 3.9139	$ 8.3284
25	$ 2.0259	$ 4.2222	$ 10.4800	$ 1.5000	$ 5.4043	$ 11.2994	$ 1.5000	$ 5.6789	$ 10.2422
26	$ 2.0466	$ 5.1149	$ 10.4900	$ 2.1393	$ 4.2819	$ 11.2400	$ 1.6275	$ 4.5273	$ 8.3849
27	$ 1.5000	$ 2.7224	$ 4.9389	$ 1.5428	$ 4.2978	$ 11.3400	$ 1.5000	$ 4.9927	$ 12.2000
28	$ 1.5000	$ 4.1745	$ 7.9627	$ 2.2551	$ 4.0830	$ 7.7991	$ 1.5906	$ 4.5166	$ 11.1575
29	$ 1.5000	$ 4.4062	$ 10.8200	$ 1.5000	$ 4.3977	$ 10.0898	$ 2.4147	$ 4.6004	$ 8.3560
30	$ 1.7114	$ 4.9921	$ 11.0700	$ 1.8673	$ 3.5865	$ 8.8028	$ 1.5000	$ 5.2559	$ 9.8935
31	$ 1.5000	$ 3.7198	$ 8.6433	$ 1.6536	$ 4.5761	$ 11.3300	$ 2.4208	$ 6.4601	$ 12.2000
32	$ 1.5544	$ 5.0338	$ 9.5947	$ 1.5000	$ 2.9841	$ 4.4842	$ 1.5000	$ 4.0431	$ 9.0146
33	$ 1.5000	$ 4.6096	$ 10.4594	$ 2.0153	$ 5.9121	$ 11.5900	$ 1.5000	$ 5.4152	$ 10.9526
34	$ 1.7899	$ 4.1690	$ 7.6092	$ 2.0879	$ 4.0294	$ 6.9351	$ 1.5000	$ 3.8939	$ 7.4876
35	$ 1.6892	$ 3.6454	$ 7.0047	$ 1.8303	$ 4.4483	$ 10.0288	$ 2.3567	$ 6.3812	$ 12.4200
36	$ 1.5000	$ 4.5852	$ 9.5489	$ 1.5000	$ 4.8280	$ 11.5900	$ 1.5000	$ 3.7541	$ 7.4081
37	$ 1.5000	$ 3.1798	$ 5.6860	$ 1.5000	$ 3.8615	$ 8.9225	$ 2.8215	$ 4.4068	$ 8.5761
38	$ 1.5000	$ 4.2842	$ 10.5400	$ 1.5000	$ 5.0687	$ 11.3300	$ 1.7042	$ 5.9790	$ 12.0400
39	$ 2.5214	$ 4.9536	$ 10.5331	$ 2.1523	$ 4.7074	$ 10.0950	$ 1.6067	$ 5.0573	$ 10.8064
40	$ 2.6349	$ 4.6758	$ 8.7560	$ 1.7478	$ 3.8811	$ 8.4109	$ 1.7886	$ 3.5814	$ 8.3576
41	$ 1.5000	$ 4.1054	$ 10.8400	$ 2.3028	$ 6.3203	$ 11.3417	$ 1.5000	$ 5.3878	$ 12.2400
42	$ 1.6489	$ 4.0837	$ 8.0110	$ 1.5000	$ 3.5859	$ 7.5632	$ 1.7927	$ 3.3650	$ 8.1740
43	$ 1.5801	$ 4.3389	$ 10.4900	$ 1.5000	$ 3.7690	$ 9.5731	$ 1.5000	$ 6.1115	$ 12.6100
44	$ 1.6668	$ 4.2648	$ 6.4579	$ 1.5000	$ 4.5475	$ 10.0846	$ 1.5000	$ 5.6159	$ 12.4900
45	$ 1.5560	$ 4.7798	$ 10.9400	$ 1.5000	$ 5.7465	$ 11.6857	$ 2.2275	$ 6.3059	$ 11.9342
46	$ 1.5000	$ 5.1512	$ 9.8629	$ 1.5000	$ 4.2634	$ 8.8748	$ 1.5769	$ 4.8710	$ 9.3595
47	$ 1.7816	$ 4.8763	$ 10.4900	$ 1.9948	$ 5.3607	$ 11.4300	$ 1.6999	$ 3.4785	$ 6.3498
48	$ 1.5000	$ 5.3031	$ 10.6700	$ 2.3692	$ 4.5102	$ 9.6362	$ 1.6022	$ 3.7048	$ 6.4882
49	$ 2.3942	$ 4.1267	$ 7.2284	$ 1.8323	$ 5.5280	$ 9.1855	$ 1.5000	$ 4.4140	$ 8.6947
50	$ 1.5000	$ 4.7736	$ 10.9400	$ 1.5000	$ 4.2185	$ 9.8932	$ 1.5000	$ 3.3213	$ 9.1972

	2026			2027			2028		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
51	$ 1.5000	$ 4.8030	$ 7.2632	$ 1.5000	$ 4.7461	$ 10.7427	$ 2.0497	$ 5.2389	$ 11.6626
52	$ 2.0058	$ 3.9548	$ 6.1502	$ 1.5587	$ 4.3155	$ 8.8379	$ 1.6009	$ 4.3752	$ 6.2352
53	$ 1.9273	$ 3.1582	$ 4.8211	$ 2.8248	$ 4.0325	$ 6.5372	$ 1.5171	$ 4.4808	$ 12.6100
54	$ 1.5000	$ 3.6479	$ 9.0079	$ 1.5389	$ 5.3296	$ 10.0544	$ 1.9805	$ 4.4668	$ 9.7585
55	$ 1.5000	$ 4.6368	$ 10.8400	$ 2.3619	$ 4.0298	$ 7.2212	$ 1.8604	$ 6.9062	$ 12.9900
56	$ 1.8088	$ 4.9370	$ 10.5800	$ 1.5000	$ 4.2479	$ 9.3986	$ 1.7673	$ 3.8497	$ 8.4464
57	$ 1.5000	$ 4.5580	$ 8.9044	$ 2.5369	$ 4.3374	$ 8.1583	$ 1.7934	$ 4.4164	$ 10.9617
58	$ 1.5000	$ 4.3928	$ 10.4008	$ 1.5953	$ 5.9703	$ 11.5100	$ 1.5000	$ 6.0685	$ 11.0875
59	$ 1.5775	$ 5.1118	$ 10.9400	$ 1.5915	$ 5.1569	$ 11.5100	$ 1.7694	$ 4.5386	$ 9.0788
60	$ 1.5000	$ 3.8754	$ 7.4609	$ 2.1740	$ 4.2636	$ 7.0301	$ 1.5000	$ 4.7182	$ 9.5465
61	$ 1.5057	$ 5.0737	$ 10.8400	$ 1.7832	$ 3.9900	$ 8.7731	$ 1.6276	$ 4.0805	$ 11.8764
62	$ 1.5000	$ 4.1362	$ 10.6700	$ 2.4282	$ 3.7765	$ 7.2715	$ 1.5000	$ 3.9264	$ 8.4518
63	$ 1.5000	$ 3.4404	$ 5.8005	$ 1.5000	$ 4.3941	$ 8.9839	$ 1.5000	$ 5.4331	$ 12.4200
64	$ 1.5130	$ 3.9353	$ 8.3904	$ 1.5000	$ 3.7951	$ 9.8366	$ 1.8381	$ 3.4189	$ 5.1346
65	$ 1.5000	$ 4.1090	$ 10.4900	$ 1.5000	$ 3.8492	$ 10.7743	$ 1.8212	$ 4.2813	$ 7.2934
66	$ 1.6083	$ 3.9416	$ 10.7500	$ 1.5000	$ 4.4700	$ 8.3084	$ 1.9510	$ 4.7313	$ 8.0690
67	$ 1.5000	$ 2.9252	$ 6.7584	$ 1.5000	$ 5.2905	$ 8.6283	$ 2.0577	$ 4.8046	$ 9.6033
68	$ 1.5000	$ 3.3690	$ 5.9271	$ 1.5000	$ 3.8297	$ 8.1522	$ 1.5716	$ 5.7101	$ 12.5300
69	$ 2.5822	$ 4.2007	$ 8.8143	$ 2.5547	$ 5.7878	$ 8.6707	$ 1.5000	$ 4.6638	$ 9.3776
70	$ 1.5000	$ 3.4629	$ 10.3293	$ 2.3703	$ 5.0832	$ 11.1947	$ 1.5000	$ 3.8791	$ 9.7291
71	$ 1.5000	$ 3.6754	$ 5.2111	$ 1.5000	$ 3.8320	$ 6.3149	$ 1.5000	$ 5.0880	$ 9.7719
72	$ 2.0015	$ 3.3072	$ 6.0615	$ 1.5000	$ 4.0086	$ 7.1686	$ 1.5102	$ 3.3743	$ 7.8706
73	$ 1.5000	$ 4.6550	$ 10.4900	$ 1.5000	$ 4.0464	$ 8.4784	$ 2.3892	$ 4.1056	$ 6.4511
74	$ 1.5000	$ 3.2026	$ 5.7250	$ 1.5000	$ 5.1313	$ 10.7403	$ 2.7553	$ 4.8798	$ 12.9900
75	$ 1.5312	$ 3.5311	$ 5.6020	$ 1.8759	$ 5.6958	$ 10.5121	$ 2.6253	$ 4.9014	$ 8.6089
76	$ 1.9326	$ 4.4474	$ 11.0700	$ 1.5000	$ 3.7891	$ 7.1990	$ 1.5000	$ 4.9590	$ 12.5300
77	$ 1.7707	$ 5.1424	$ 11.3000	$ 1.8511	$ 5.4679	$ 11.5900	$ 1.5000	$ 3.2177	$ 5.6781
78	$ 2.3479	$ 4.9253	$ 7.5055	$ 2.5265	$ 4.3352	$ 8.4104	$ 1.5000	$ 4.2192	$ 11.7605
79	$ 1.8163	$ 3.7212	$ 7.6290	$ 1.5000	$ 4.4026	$ 7.6296	$ 1.5000	$ 5.4736	$ 12.4900
80	$ 2.1635	$ 5.0039	$ 10.6700	$ 1.7167	$ 4.2502	$ 10.1700	$ 1.5000	$ 3.9802	$ 6.5647
81	$ 1.5000	$ 5.0691	$ 11.3000	$ 1.9180	$ 4.2509	$ 8.0063	$ 1.5000	$ 3.5916	$ 7.6270
82	$ 1.5702	$ 2.8433	$ 5.0960	$ 1.5000	$ 3.5794	$ 5.2909	$ 1.7518	$ 5.9616	$ 10.7018
83	$ 1.5000	$ 3.5486	$ 6.5583	$ 2.5557	$ 4.7420	$ 9.7154	$ 2.1055	$ 5.7822	$ 12.9900
84	$ 1.5000	$ 4.1622	$ 10.4900	$ 2.0911	$ 3.2091	$ 5.5734	$ 1.7123	$ 4.3208	$ 8.4256
85	$ 1.5000	$ 5.0965	$ 11.0700	$ 1.8369	$ 3.9697	$ 8.4946	$ 1.5000	$ 5.0886	$ 9.1197
86	$ 1.6152	$ 3.7615	$ 9.1422	$ 1.7947	$ 4.7264	$ 11.5900	$ 2.1964	$ 4.6961	$ 8.1959
87	$ 1.5000	$ 4.2402	$ 8.3973	$ 1.5000	$ 3.2412	$ 6.3344	$ 2.2141	$ 5.1085	$ 10.5438
88	$ 1.5000	$ 3.4732	$ 10.9400	$ 2.1600	$ 6.5146	$ 11.7800	$ 1.9074	$ 5.2987	$ 12.9900
89	$ 1.5000	$ 4.8214	$ 10.8200	$ 1.6026	$ 3.5759	$ 8.4844	$ 1.8060	$ 3.9887	$ 7.5680
90	$ 2.1176	$ 4.6521	$ 10.5400	$ 1.5000	$ 4.7426	$ 10.6706	$ 2.0065	$ 5.4942	$ 12.3071
91	$ 1.5000	$ 4.4717	$ 10.5800	$ 1.8263	$ 4.1482	$ 7.2857	$ 1.9005	$ 5.6438	$ 10.4516
92	$ 1.5000	$ 3.9626	$ 8.7526	$ 1.5048	$ 4.4984	$ 10.2043	$ 1.7218	$ 4.5798	$ 11.8806
93	$ 1.9269	$ 3.6694	$ 6.1763	$ 1.7602	$ 4.1046	$ 8.2389	$ 1.5000	$ 4.5798	$ 12.0400
94	$ 1.5000	$ 3.1107	$ 6.1835	$ 2.2683	$ 4.5703	$ 10.8144	$ 2.1964	$ 3.8807	$ 9.2858
95	$ 1.6154	$ 4.3307	$ 8.4240	$ 2.4536	$ 3.9426	$ 6.5819	$ 2.0805	$ 5.7072	$ 12.1900
96	$ 2.0175	$ 4.8559	$ 10.5400	$ 1.5000	$ 5.5915	$ 11.3400	$ 1.5000	$ 3.6379	$ 9.4782
97	$ 1.5000	$ 3.8150	$ 9.0367	$ 1.5000	$ 3.2380	$ 5.9172	$ 1.5000	$ 3.3976	$ 12.3300
98	$ 2.4126	$ 4.5227	$ 8.7390	$ 1.5573	$ 3.8639	$ 10.1677	$ 2.8134	$ 4.8347	$ 8.3082
99	$ 1.5000	$ 4.6184	$ 10.6700	$ 1.7317	$ 5.3124	$ 11.4300	$ 1.5000	$ 3.0355	$ 6.9973
100	$ 1.9128	$ 3.4353	$ 7.5534	$ 2.1446	$ 4.7161	$ 8.1480	$ 2.3198	$ 4.0702	$ 9.7066

	2026			2027			2028		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
101	$ 1.8943	$ 4.3545	$ 10.7016	$ 1.6995	$ 4.8308	$ 10.7349	$ 1.7868	$ 5.1218	$ 12.2400
102	$ 1.7309	$ 3.7685	$ 5.8912	$ 2.2588	$ 5.1600	$ 11.4300	$ 2.2004	$ 5.4015	$ 12.8100
103	$ 1.5210	$ 3.5825	$ 8.7898	$ 1.5000	$ 4.4338	$ 9.0875	$ 1.9269	$ 4.7165	$ 9.1207
104	$ 1.5000	$ 4.2279	$ 11.3000	$ 1.5481	$ 4.1520	$ 11.2400	$ 1.5000	$ 4.6090	$ 12.9900
105	$ 1.5610	$ 2.7743	$ 5.0351	$ 1.6790	$ 5.0950	$ 11.3500	$ 1.5000	$ 5.0965	$ 9.3574
106	$ 1.5000	$ 4.2010	$ 8.8693	$ 1.5000	$ 3.7996	$ 7.7279	$ 2.0253	$ 4.9977	$ 12.8100
107	$ 1.9507	$ 4.3237	$ 7.8023	$ 1.5225	$ 3.8957	$ 9.4503	$ 1.9635	$ 4.2601	$ 9.8747
108	$ 1.9344	$ 3.2429	$ 5.3944	$ 1.6822	$ 3.8605	$ 8.0389	$ 1.8872	$ 5.2722	$ 12.1800
109	$ 1.5000	$ 5.2535	$ 10.5400	$ 2.3695	$ 5.8607	$ 11.4383	$ 2.6250	$ 5.0474	$ 9.9355
110	$ 1.5970	$ 3.7579	$ 7.8117	$ 1.5000	$ 4.0312	$ 9.3148	$ 1.5000	$ 5.4882	$ 9.2208
111	$ 1.9598	$ 5.0579	$ 10.4800	$ 1.5000	$ 4.2063	$ 10.8973	$ 1.9064	$ 5.3519	$ 9.8799
112	$ 1.5000	$ 3.0037	$ 7.3149	$ 1.5000	$ 3.8875	$ 7.9150	$ 1.5000	$ 4.6690	$ 10.8708
113	$ 1.6104	$ 3.5368	$ 8.2857	$ 1.9411	$ 4.6079	$ 10.0259	$ 2.4019	$ 4.2318	$ 8.1039
114	$ 1.7104	$ 3.5986	$ 5.8806	$ 2.5537	$ 4.0378	$ 5.9218	$ 1.5120	$ 5.7105	$ 11.0235
115	$ 1.5000	$ 5.0571	$ 10.4800	$ 1.5044	$ 3.9383	$ 8.1648	$ 1.5000	$ 3.8276	$ 11.2787
116	$ 2.4246	$ 4.0576	$ 6.8199	$ 1.5000	$ 3.6806	$ 9.5141	$ 1.9694	$ 4.7723	$ 10.5040
117	$ 1.5000	$ 4.2798	$ 10.4200	$ 1.7138	$ 4.0732	$ 9.2265	$ 1.9874	$ 3.8800	$ 7.3017
118	$ 2.3157	$ 4.6143	$ 7.9794	$ 1.5000	$ 3.7080	$ 8.1311	$ 1.7755	$ 5.1711	$ 12.4900
119	$ 1.5937	$ 5.3752	$ 10.4800	$ 1.5000	$ 3.9599	$ 6.8048	$ 1.5000	$ 3.4246	$ 5.9902
120	$ 1.6600	$ 3.6879	$ 7.1458	$ 1.9653	$ 3.2881	$ 6.4405	$ 1.5000	$ 4.3669	$ 10.5964
121	$ 2.4314	$ 5.0318	$ 8.2502	$ 2.2482	$ 4.3712	$ 9.2671	$ 1.5000	$ 5.4579	$ 11.0341
122	$ 1.5000	$ 3.8948	$ 6.0588	$ 1.9942	$ 4.4033	$ 8.9859	$ 1.5000	$ 4.0569	$ 7.3952
123	$ 1.9576	$ 4.4726	$ 7.2665	$ 1.7563	$ 4.1277	$ 11.2855	$ 1.5000	$ 3.1012	$ 6.8123
124	$ 1.5000	$ 3.0245	$ 4.9603	$ 1.5000	$ 3.9892	$ 11.3500	$ 1.5000	$ 3.7010	$ 8.5415
125	$ 2.5464	$ 5.0724	$ 8.5591	$ 1.6462	$ 5.0468	$ 9.0131	$ 1.9837	$ 4.1435	$ 7.8097
126	$ 2.2096	$ 4.1263	$ 6.2606	$ 1.5065	$ 3.7716	$ 7.9470	$ 1.5982	$ 4.4682	$ 7.9501
127	$ 2.2549	$ 4.0732	$ 6.8337	$ 1.5000	$ 4.1290	$ 10.9238	$ 1.8034	$ 4.2127	$ 12.3300
128	$ 1.5000	$ 4.9030	$ 10.4900	$ 1.5000	$ 4.7233	$ 9.5830	$ 1.7332	$ 3.7488	$ 8.0990
129	$ 1.8454	$ 4.5764	$ 10.4900	$ 1.5000	$ 2.9283	$ 6.8415	$ 2.0868	$ 5.1918	$ 11.4145
130	$ 1.5000	$ 3.2421	$ 6.8516	$ 1.5000	$ 4.9347	$ 7.4376	$ 1.5000	$ 4.7027	$ 9.4395
131	$ 1.5000	$ 4.7582	$ 10.6700	$ 1.5000	$ 4.6531	$ 9.2878	$ 1.5373	$ 3.6182	$ 5.7716
132	$ 2.1561	$ 4.6107	$ 10.7500	$ 1.5000	$ 4.9931	$ 10.6915	$ 1.6967	$ 4.0157	$ 8.6875
133	$ 1.5000	$ 4.5043	$ 8.5560	$ 1.5000	$ 6.0513	$ 10.9830	$ 1.5000	$ 3.0610	$ 6.0267
134	$ 2.1339	$ 5.1879	$ 10.6700	$ 1.6171	$ 5.0321	$ 12.0881	$ 1.5000	$ 4.9121	$ 12.8100
135	$ 1.6253	$ 4.7914	$ 10.4800	$ 1.5000	$ 4.5779	$ 11.6900	$ 2.7253	$ 4.4305	$ 8.9795
136	$ 1.5383	$ 4.7965	$ 8.8681	$ 2.7153	$ 4.6779	$ 11.2400	$ 3.1189	$ 6.0870	$ 12.2400
137	$ 1.5067	$ 4.6760	$ 10.8200	$ 1.6012	$ 4.7979	$ 11.6600	$ 1.5000	$ 3.6687	$ 6.9193
138	$ 1.7701	$ 4.7142	$ 10.4900	$ 1.5000	$ 5.7909	$ 11.3500	$ 1.5546	$ 5.7024	$ 12.4200
139	$ 1.5063	$ 4.4189	$ 11.3000	$ 1.5000	$ 4.7736	$ 9.5945	$ 1.5000	$ 5.3451	$ 12.2400
140	$ 1.5000	$ 4.0355	$ 7.0860	$ 1.9291	$ 4.7212	$ 7.9030	$ 2.0336	$ 4.7050	$ 9.3957
141	$ 1.7259	$ 4.0506	$ 8.4782	$ 2.1604	$ 3.8741	$ 7.7262	$ 2.2923	$ 5.5966	$ 12.3300
142	$ 1.5000	$ 4.0685	$ 9.0386	$ 1.6822	$ 4.2674	$ 9.3204	$ 1.5000	$ 5.2749	$ 12.0370
143	$ 1.9816	$ 4.7486	$ 10.9400	$ 1.5000	$ 4.7200	$ 6.6761	$ 3.0482	$ 4.7307	$ 9.4966
144	$ 1.8198	$ 4.8349	$ 9.7268	$ 1.5000	$ 4.6660	$ 10.2892	$ 1.6566	$ 5.3570	$ 12.0879
145	$ 1.5000	$ 3.4409	$ 6.7190	$ 1.8122	$ 5.3846	$ 11.4300	$ 1.6010	$ 4.2692	$ 9.6350
146	$ 1.5000	$ 4.5221	$ 10.6700	$ 1.5000	$ 4.4754	$ 8.7637	$ 1.5000	$ 5.1126	$ 12.0400
147	$ 2.5589	$ 4.0839	$ 7.1429	$ 1.5000	$ 3.5391	$ 7.7614	$ 1.5000	$ 4.4944	$ 12.1900
148	$ 1.5000	$ 4.6980	$ 11.3000	$ 1.5000	$ 4.5027	$ 8.4341	$ 1.5724	$ 5.1981	$ 12.3300
149	$ 1.6549	$ 3.8437	$ 6.5126	$ 1.5000	$ 4.5782	$ 8.3092	$ 1.5000	$ 4.9762	$ 9.7554
150	$ 1.7140	$ 6.0015	$ 10.6700	$ 1.9356	$ 5.2491	$ 11.9300	$ 1.9307	$ 4.7737	$ 8.7195

	2026			2027			2028		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
151	$ 1.5000	$ 4.4869	$ 8.5813	$ 1.6617	$ 5.6446	$ 12.1400	$ 1.7226	$ 6.3952	$ 11.9091
152	$ 1.5000	$ 4.4488	$ 9.5095	$ 1.8686	$ 3.7133	$ 6.6385	$ 1.5000	$ 4.5401	$ 8.9094
153	$ 1.6777	$ 4.2333	$ 8.7220	$ 1.5000	$ 5.2498	$ 8.6560	$ 1.5000	$ 5.2225	$ 10.7636
154	$ 1.5000	$ 4.3636	$ 9.0449	$ 2.6919	$ 4.8980	$ 7.8122	$ 1.5000	$ 3.4930	$ 6.8060
155	$ 1.5000	$ 3.4621	$ 6.9587	$ 1.8275	$ 4.4685	$ 9.8000	$ 1.5642	$ 5.1472	$ 12.0400
156	$ 2.4177	$ 4.3772	$ 10.7887	$ 1.5000	$ 3.2374	$ 4.7421	$ 2.2288	$ 4.2943	$ 8.6885
157	$ 1.9214	$ 3.9892	$ 6.3732	$ 1.5000	$ 4.3884	$ 11.3400	$ 1.5000	$ 5.4731	$ 12.2400
158	$ 2.4027	$ 4.9263	$ 7.1284	$ 1.5000	$ 4.4015	$ 8.0454	$ 1.5000	$ 4.7209	$ 7.7331
159	$ 2.3542	$ 5.2063	$ 10.8200	$ 1.7332	$ 3.1792	$ 5.6530	$ 2.1840	$ 4.3443	$ 7.6304
160	$ 2.2006	$ 5.0044	$ 10.5800	$ 2.3307	$ 3.5321	$ 5.9264	$ 1.6054	$ 5.1010	$ 12.4200
161	$ 2.5990	$ 4.5157	$ 7.6237	$ 1.5000	$ 4.4378	$ 11.1587	$ 1.9236	$ 4.9716	$ 12.1659
162	$ 1.5000	$ 3.8447	$ 8.6967	$ 1.6106	$ 4.1220	$ 8.7890	$ 2.2318	$ 5.5199	$ 12.5300
163	$ 1.5000	$ 3.7509	$ 6.1264	$ 1.5000	$ 3.8767	$ 11.3300	$ 1.5572	$ 5.2779	$ 12.2000
164	$ 1.7278	$ 3.9621	$ 10.8400	$ 1.5000	$ 4.0024	$ 7.8570	$ 1.7637	$ 4.4195	$ 8.8670
165	$ 1.5000	$ 3.7630	$ 8.7851	$ 1.5000	$ 3.5555	$ 5.9870	$ 1.6999	$ 4.3398	$ 8.4488
166	$ 1.5000	$ 4.4401	$ 8.0739	$ 1.5000	$ 4.1705	$ 7.3920	$ 1.5000	$ 4.5713	$ 12.9900
167	$ 1.8891	$ 4.6762	$ 10.9400	$ 1.5000	$ 4.8080	$ 9.2797	$ 1.5000	$ 3.7589	$ 7.6067
168	$ 2.4447	$ 4.2860	$ 7.3213	$ 1.5000	$ 4.4482	$ 11.7800	$ 1.5000	$ 4.5584	$ 8.7230
169	$ 1.7671	$ 4.0758	$ 7.4745	$ 2.1956	$ 4.5799	$ 8.1953	$ 1.9534	$ 3.6475	$ 8.2261
170	$ 1.7080	$ 3.8559	$ 9.8321	$ 1.5000	$ 2.9230	$ 6.1301	$ 1.6727	$ 5.6067	$ 12.2231
171	$ 1.6949	$ 3.9692	$ 6.8632	$ 1.8473	$ 5.1228	$ 11.6900	$ 1.9172	$ 4.6523	$ 8.9781
172	$ 1.7288	$ 5.3907	$ 11.3000	$ 1.5000	$ 4.7791	$ 8.5210	$ 1.9720	$ 5.4366	$ 9.2496
173	$ 1.5000	$ 3.9003	$ 9.6744	$ 1.5000	$ 3.9598	$ 7.8266	$ 1.5000	$ 3.8367	$ 6.5977
174	$ 1.5000	$ 4.7002	$ 10.5800	$ 1.5706	$ 3.6229	$ 7.9292	$ 1.8118	$ 4.2551	$ 11.6477
175	$ 1.8578	$ 4.1955	$ 9.4284	$ 1.5000	$ 4.2388	$ 11.7800	$ 1.5000	$ 4.1377	$ 11.6368
176	$ 2.2349	$ 4.5371	$ 7.7675	$ 1.5000	$ 2.9394	$ 7.3928	$ 1.5000	$ 4.6795	$ 9.8392
177	$ 1.5000	$ 4.5711	$ 10.8200	$ 1.5000	$ 4.4806	$ 11.5100	$ 1.8666	$ 4.6200	$ 9.9802
178	$ 1.5000	$ 3.1761	$ 6.5746	$ 1.6272	$ 3.4034	$ 6.8777	$ 1.5000	$ 4.3440	$ 8.4287
179	$ 1.5000	$ 3.8566	$ 9.9212	$ 2.1464	$ 6.0899	$ 9.6785	$ 1.9921	$ 6.0409	$ 12.2400
180	$ 1.8765	$ 3.7591	$ 6.8505	$ 1.5000	$ 4.0397	$ 9.5590	$ 1.7893	$ 4.0547	$ 9.7347
181	$ 1.8613	$ 4.4823	$ 10.5400	$ 1.8695	$ 4.4767	$ 10.6148	$ 1.5000	$ 5.0053	$ 11.8986
182	$ 1.5000	$ 3.1286	$ 7.3971	$ 1.5000	$ 4.0433	$ 8.8800	$ 1.5000	$ 4.9561	$ 9.7391
183	$ 1.7746	$ 4.4745	$ 8.8050	$ 1.5000	$ 4.3014	$ 8.7153	$ 1.5000	$ 4.5109	$ 11.3457
184	$ 1.5000	$ 3.9293	$ 6.9229	$ 2.3696	$ 5.6740	$ 11.6600	$ 1.5000	$ 5.0772	$ 9.4022
185	$ 2.0050	$ 4.0866	$ 9.5709	$ 2.0831	$ 4.5867	$ 10.3117	$ 1.5000	$ 4.5150	$ 7.2700
186	$ 1.5000	$ 4.3966	$ 11.0700	$ 1.5000	$ 3.1264	$ 5.4967	$ 2.7537	$ 5.7687	$ 8.4143
187	$ 1.9477	$ 3.9571	$ 6.1578	$ 1.6441	$ 3.7371	$ 6.9448	$ 2.5677	$ 3.8223	$ 6.7696
188	$ 1.6423	$ 4.8450	$ 10.6700	$ 1.5000	$ 4.6442	$ 9.2199	$ 1.5000	$ 4.4981	$ 9.7721
189	$ 1.9773	$ 3.6592	$ 6.2501	$ 1.8733	$ 3.8125	$ 8.7009	$ 1.7438	$ 4.9788	$ 12.1900
190	$ 1.5000	$ 3.8358	$ 6.1552	$ 1.5000	$ 5.5368	$ 11.6900	$ 2.2650	$ 5.6830	$ 11.1788
191	$ 1.5000	$ 3.8104	$ 6.0682	$ 1.5000	$ 4.0735	$ 11.5900	$ 1.5000	$ 3.8871	$ 8.1480
192	$ 1.5000	$ 4.0897	$ 10.4900	$ 1.6809	$ 4.2160	$ 6.5404	$ 1.5000	$ 4.0534	$ 9.6667
193	$ 1.9066	$ 3.2578	$ 6.1771	$ 1.5000	$ 4.3314	$ 12.1400	$ 1.5000	$ 4.5912	$ 12.0400
194	$ 1.5000	$ 5.0325	$ 10.4900	$ 1.5654	$ 4.3792	$ 9.4202	$ 1.8705	$ 5.0691	$ 11.6384
195	$ 2.0163	$ 4.4958	$ 8.2114	$ 1.9986	$ 3.7736	$ 6.3205	$ 1.5430	$ 4.5177	$ 10.3615
196	$ 2.6211	$ 4.4003	$ 9.4433	$ 2.0134	$ 4.1465	$ 9.5163	$ 1.8137	$ 5.5742	$ 12.4200
197	$ 1.7623	$ 4.5238	$ 10.4900	$ 1.5736	$ 3.7878	$ 7.8025	$ 2.4795	$ 4.4261	$ 7.4757
198	$ 2.3821	$ 5.0610	$ 9.3168	$ 1.5000	$ 5.8240	$ 11.5900	$ 1.5000	$ 5.0037	$ 12.1810
199	$ 1.5000	$ 3.3358	$ 8.0925	$ 1.7184	$ 3.8841	$ 7.2053	$ 1.5000	$ 4.2911	$ 12.9900
200	$ 1.5000	$ 4.1714	$ 6.9886	$ 2.2200	$ 5.0400	$ 11.7800	$ 1.7267	$ 4.4615	$ 8.6854
Min	$ 1.5000	$ 2.7224	$ 4.8211	$ 1.5000	$ 2.9230	$ 4.4842	$ 1.5000	$ 3.0355	$ 4.9266
Ave	$ 1.7341	$ 4.2569	$ 8.8730	$ 1.7282	$ 4.4030	$ 9.2363	$ 1.7635	$ 4.7139	$ 10.1082
Max	$ 2.7248	$ 6.0015	$ 11.3000	$ 2.8248	$ 6.5146	$ 12.1400	$ 3.2642	$ 6.9062	$ 12.9900

	2029			2030			2031		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
1	$ 1.5000	$ 4.9044	$ 11.4061	$ 2.1318	$ 3.7281	$ 8.7291	$ 2.7195	$ 6.9693	$ 14.6900
2	$ 2.1714	$ 5.4756	$ 13.1985	$ 1.5000	$ 5.2770	$ 14.7100	$ 1.5000	$ 6.8469	$ 14.7800
3	$ 1.5000	$ 4.9409	$ 11.0822	$ 1.9208	$ 4.7949	$ 13.9100	$ 2.0340	$ 4.5291	$ 10.0553
4	$ 1.6073	$ 5.2201	$ 13.2600	$ 1.8170	$ 5.1661	$ 14.7100	$ 1.5000	$ 5.3470	$ 14.7200
5	$ 2.5596	$ 5.6874	$ 9.8167	$ 1.5000	$ 4.8334	$ 9.8884	$ 1.5000	$ 4.0592	$ 10.5315
6	$ 1.6277	$ 4.1129	$ 12.0906	$ 1.5000	$ 4.4609	$ 10.5148	$ 1.5000	$ 5.5124	$ 11.5359
7	$ 1.5000	$ 4.3389	$ 6.9326	$ 1.5000	$ 5.0810	$ 8.8779	$ 2.9062	$ 6.5309	$ 14.7100
8	$ 2.0531	$ 4.9771	$ 12.5100	$ 1.5299	$ 5.2507	$ 12.7296	$ 1.5000	$ 4.6339	$ 8.0477
9	$ 2.2679	$ 6.0139	$ 13.5600	$ 2.4962	$ 7.0596	$ 14.4000	$ 1.5000	$ 3.8657	$ 7.9484
10	$ 2.1432	$ 6.0222	$ 13.3600	$ 2.1213	$ 4.7647	$ 10.0305	$ 1.5000	$ 4.6749	$ 12.2694
11	$ 1.5000	$ 3.8586	$ 12.0348	$ 1.6490	$ 5.9420	$ 14.4600	$ 2.2789	$ 6.1852	$ 15.3200
12	$ 3.1784	$ 5.2604	$ 9.7411	$ 1.5598	$ 4.1023	$ 8.4108	$ 1.5000	$ 4.3305	$ 7.4753
13	$ 1.5000	$ 4.6422	$ 10.4227	$ 2.3821	$ 5.5037	$ 10.7286	$ 1.5000	$ 4.8941	$ 13.7436
14	$ 1.5000	$ 5.0977	$ 11.1456	$ 1.5000	$ 7.3363	$ 14.4600	$ 1.5000	$ 7.3638	$ 14.7800
15	$ 2.0776	$ 7.1693	$ 13.6300	$ 1.5161	$ 3.5121	$ 6.9325	$ 1.7762	$ 6.1482	$ 14.4003
16	$ 1.7296	$ 5.2129	$ 10.7063	$ 1.5594	$ 5.1539	$ 9.1871	$ 1.5935	$ 4.5859	$ 8.0284
17	$ 2.0279	$ 4.7118	$ 9.9597	$ 2.8085	$ 5.5608	$ 14.1000	$ 1.5000	$ 5.9578	$ 14.7100
18	$ 2.0987	$ 4.9719	$ 11.5864	$ 1.5499	$ 4.3291	$ 8.5637	$ 2.3536	$ 4.3944	$ 6.3203
19	$ 1.5000	$ 4.8767	$ 10.3575	$ 1.5000	$ 5.9350	$ 9.0382	$ 1.8609	$ 5.5079	$ 9.5145
20	$ 1.5066	$ 5.0052	$ 13.7800	$ 2.1008	$ 4.5903	$ 8.1156	$ 2.2181	$ 4.8663	$ 10.1610
21	$ 1.5000	$ 5.5412	$ 10.9736	$ 2.4127	$ 5.6394	$ 14.0600	$ 1.6980	$ 5.6509	$ 13.8002
22	$ 2.1705	$ 4.1657	$ 7.9987	$ 1.5000	$ 5.0132	$ 10.8535	$ 2.1247	$ 6.3440	$ 14.9400
23	$ 1.5000	$ 5.1788	$ 10.9071	$ 1.5000	$ 4.1998	$ 13.9857	$ 1.5000	$ 5.4553	$ 14.7729
24	$ 3.3179	$ 4.8290	$ 9.8046	$ 1.5000	$ 4.9720	$ 14.3000	$ 1.5522	$ 4.3346	$ 9.0415
25	$ 2.1533	$ 4.5731	$ 9.9928	$ 1.9796	$ 5.9778	$ 12.2643	$ 2.4382	$ 6.2104	$ 15.5100
26	$ 1.5793	$ 4.7134	$ 13.1900	$ 1.5000	$ 5.4906	$ 10.9022	$ 1.5885	$ 4.4646	$ 15.0700
27	$ 1.5000	$ 6.2607	$ 12.7104	$ 1.5000	$ 4.8271	$ 9.7885	$ 1.5000	$ 4.5289	$ 12.8895
28	$ 1.6486	$ 3.9527	$ 7.5563	$ 1.5000	$ 5.2683	$ 12.7262	$ 1.9308	$ 4.9823	$ 12.6202
29	$ 1.5000	$ 4.1690	$ 7.5298	$ 1.5000	$ 4.0750	$ 5.9658	$ 1.5000	$ 5.3341	$ 13.6148
30	$ 2.0270	$ 5.3507	$ 10.6655	$ 1.8730	$ 6.0954	$ 14.2000	$ 1.6038	$ 5.4766	$ 12.6255
31	$ 2.8539	$ 5.8018	$ 12.9397	$ 1.7117	$ 4.7069	$ 13.0972	$ 2.1500	$ 4.8198	$ 13.0370
32	$ 1.5000	$ 5.0415	$ 13.6300	$ 1.7676	$ 4.0933	$ 10.2893	$ 1.5000	$ 5.6292	$ 14.6900
33	$ 2.2179	$ 5.5795	$ 11.4530	$ 1.7162	$ 5.1146	$ 14.4000	$ 1.5000	$ 6.0739	$ 14.8700
34	$ 1.6306	$ 5.0261	$ 12.6335	$ 1.8523	$ 4.7494	$ 9.6086	$ 1.5000	$ 4.8072	$ 12.5253
35	$ 1.5000	$ 5.7837	$ 11.7832	$ 1.6337	$ 4.8858	$ 9.6854	$ 1.6129	$ 7.7806	$ 14.7200
36	$ 1.9539	$ 6.0936	$ 12.2439	$ 1.5000	$ 4.7207	$ 8.1480	$ 1.5000	$ 5.5137	$ 14.4900
37	$ 1.5000	$ 5.2012	$ 13.4500	$ 1.5000	$ 4.8254	$ 13.4532	$ 1.6246	$ 4.0341	$ 6.8246
38	$ 1.9457	$ 6.5163	$ 13.6099	$ 2.4368	$ 7.3767	$ 13.6123	$ 1.5000	$ 4.2979	$ 7.2810
39	$ 1.6926	$ 4.9027	$ 10.1468	$ 1.5000	$ 5.8134	$ 14.0600	$ 1.7351	$ 5.0149	$ 12.0714
40	$ 1.6976	$ 5.0590	$ 12.0497	$ 1.5000	$ 4.7583	$ 8.3442	$ 2.2680	$ 5.0808	$ 12.9075
41	$ 2.1882	$ 5.7668	$ 8.8510	$ 2.4836	$ 5.7714	$ 8.8134	$ 1.8764	$ 5.3646	$ 13.3523
42	$ 1.5000	$ 3.1685	$ 5.3745	$ 1.5000	$ 4.1856	$ 11.7474	$ 1.5000	$ 5.3705	$ 14.9800
43	$ 1.7430	$ 5.2169	$ 13.5600	$ 1.6821	$ 5.2273	$ 11.4266	$ 1.5000	$ 4.7547	$ 14.4900
44	$ 1.5000	$ 4.4290	$ 8.1662	$ 2.4230	$ 5.5142	$ 9.2504	$ 1.5000	$ 4.9542	$ 9.0088
45	$ 1.5803	$ 4.6106	$ 12.9449	$ 2.3333	$ 5.6446	$ 14.1000	$ 1.5000	$ 3.7036	$ 7.1562
46	$ 2.4139	$ 5.9883	$ 10.2202	$ 1.5530	$ 5.6739	$ 14.2998	$ 1.8174	$ 5.6925	$ 11.4618
47	$ 2.7530	$ 7.4055	$ 13.5200	$ 1.7465	$ 4.0469	$ 7.7107	$ 1.5000	$ 4.4988	$ 15.0700
48	$ 1.5000	$ 5.4959	$ 13.2652	$ 1.5703	$ 4.8352	$ 9.8535	$ 1.5000	$ 4.9530	$ 12.2081
49	$ 1.5000	$ 6.8451	$ 10.9830	$ 2.1099	$ 6.1003	$ 11.0373	$ 1.6654	$ 5.5779	$ 12.3485
50	$ 1.6695	$ 5.7559	$ 13.5200	$ 1.5000	$ 5.7259	$ 14.2000	$ 1.5000	$ 5.2292	$ 8.5889

	2029			2030			2031		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
51	$ 2.0954	$ 5.9333	$ 12.4622	$ 1.5027	$ 5.6343	$ 14.4000	$ 1.8276	$ 5.3050	$ 12.3211
52	$ 1.8495	$ 4.6713	$ 12.7522	$ 1.5000	$ 5.5020	$ 9.6260	$ 1.5000	$ 5.1909	$ 8.9956
53	$ 2.0615	$ 5.1208	$ 9.7635	$ 1.5000	$ 7.0351	$ 14.4600	$ 1.5000	$ 4.2377	$ 11.1451
54	$ 1.6951	$ 7.0991	$ 13.6079	$ 1.5000	$ 3.8114	$ 7.2533	$ 2.0211	$ 6.7930	$ 12.3167
55	$ 2.2959	$ 4.5631	$ 8.7344	$ 1.6747	$ 5.4812	$ 13.9100	$ 1.5000	$ 4.3704	$ 8.1747
56	$ 2.1717	$ 5.6129	$ 13.7800	$ 1.5000	$ 4.9281	$ 12.9088	$ 1.5000	$ 5.0621	$ 10.7467
57	$ 1.5000	$ 5.5231	$ 11.0154	$ 1.5000	$ 5.3417	$ 8.9250	$ 2.3167	$ 5.9763	$ 14.4900
58	$ 1.8913	$ 3.9771	$ 6.8197	$ 1.5000	$ 5.2988	$ 12.8862	$ 1.5000	$ 5.6627	$ 11.9172
59	$ 1.9952	$ 5.2260	$ 10.5453	$ 1.5000	$ 5.6400	$ 14.2000	$ 1.5000	$ 4.9692	$ 9.5673
60	$ 1.5903	$ 6.4407	$ 14.0200	$ 1.5000	$ 6.0004	$ 13.1744	$ 2.0767	$ 4.3467	$ 10.5426
61	$ 1.5000	$ 6.2684	$ 13.5959	$ 1.5000	$ 4.2811	$ 8.1652	$ 2.0620	$ 6.0640	$ 13.6470
62	$ 2.4566	$ 4.9076	$ 11.1726	$ 1.5000	$ 5.6698	$ 12.6488	$ 1.5000	$ 4.7258	$ 13.7961
63	$ 1.7391	$ 4.8812	$ 13.3600	$ 1.5000	$ 5.6743	$ 14.5500	$ 1.5000	$ 4.9038	$ 14.8700
64	$ 1.7388	$ 4.9923	$ 10.5239	$ 2.7467	$ 4.1067	$ 6.0949	$ 1.5000	$ 5.6033	$ 14.8700
65	$ 2.3343	$ 6.7783	$ 13.2400	$ 1.5000	$ 6.2811	$ 14.3700	$ 1.5000	$ 3.9644	$ 8.4716
66	$ 2.1832	$ 4.5864	$ 9.6938	$ 1.5000	$ 4.7198	$ 10.9274	$ 2.9226	$ 6.1263	$ 10.4588
67	$ 2.1464	$ 5.0169	$ 13.3600	$ 2.0470	$ 4.4156	$ 8.2779	$ 1.5000	$ 3.5002	$ 5.8693
68	$ 1.5000	$ 3.6659	$ 5.6953	$ 2.5186	$ 5.8076	$ 14.1000	$ 1.6161	$ 6.0382	$ 11.4634
69	$ 1.5125	$ 4.9982	$ 10.9714	$ 3.5184	$ 6.5780	$ 13.3263	$ 2.1017	$ 7.5243	$ 14.7200
70	$ 1.5000	$ 4.2338	$ 6.0194	$ 1.5000	$ 5.0829	$ 14.7100	$ 1.5381	$ 5.3414	$ 14.0081
71	$ 1.5000	$ 5.8889	$ 13.2000	$ 1.7256	$ 5.9059	$ 14.3700	$ 2.0927	$ 5.9601	$ 14.7800
72	$ 1.5000	$ 5.4541	$ 12.1756	$ 1.5639	$ 4.2420	$ 7.4335	$ 1.8143	$ 4.9132	$ 11.5902
73	$ 1.5000	$ 4.1013	$ 11.0465	$ 1.8189	$ 5.4341	$ 10.8858	$ 1.5000	$ 6.2370	$ 15.3200
74	$ 1.5000	$ 5.4960	$ 13.5600	$ 1.5000	$ 4.8081	$ 12.6619	$ 2.0175	$ 5.4485	$ 14.7100
75	$ 2.7119	$ 5.6163	$ 13.0700	$ 1.7635	$ 4.7524	$ 12.6477	$ 2.6942	$ 6.2836	$ 11.0704
76	$ 1.5000	$ 4.8979	$ 8.4149	$ 1.7420	$ 4.8989	$ 14.0800	$ 1.5000	$ 6.1834	$ 14.7200
77	$ 1.5000	$ 3.6192	$ 6.1419	$ 2.0679	$ 5.2485	$ 13.2601	$ 1.7137	$ 6.8457	$ 14.6900
78	$ 1.5000	$ 4.8308	$ 11.3732	$ 2.0290	$ 6.2161	$ 14.1000	$ 2.9494	$ 6.0136	$ 13.7138
79	$ 1.5292	$ 4.9190	$ 8.4934	$ 1.5000	$ 3.8752	$ 7.2554	$ 1.7878	$ 4.7539	$ 8.8959
80	$ 1.5000	$ 4.8790	$ 13.5200	$ 3.2027	$ 6.3866	$ 14.3700	$ 1.5000	$ 4.4013	$ 9.1460
81	$ 1.5000	$ 6.3613	$ 13.3600	$ 1.5000	$ 6.2931	$ 13.9858	$ 1.8564	$ 5.6931	$ 12.6820
82	$ 1.5000	$ 3.8020	$ 7.1627	$ 2.8293	$ 7.0052	$ 14.3000	$ 1.5000	$ 3.7189	$ 5.8272
83	$ 1.8480	$ 5.2196	$ 13.2000	$ 1.8809	$ 5.1344	$ 13.9100	$ 1.8005	$ 5.9221	$ 14.9400
84	$ 1.5000	$ 5.1045	$ 13.2000	$ 1.5000	$ 4.1820	$ 14.3000	$ 1.5465	$ 5.3935	$ 14.0268
85	$ 1.5000	$ 4.0269	$ 13.4500	$ 1.9200	$ 6.0476	$ 14.4600	$ 1.6730	$ 5.2381	$ 11.6080
86	$ 1.5000	$ 5.6763	$ 10.8373	$ 1.5000	$ 4.1051	$ 8.0965	$ 2.3404	$ 6.6171	$ 14.7200
87	$ 1.5745	$ 4.3315	$ 10.6978	$ 1.5000	$ 4.5631	$ 7.6607	$ 1.8310	$ 3.7057	$ 7.3124
88	$ 2.6145	$ 4.6278	$ 6.7670	$ 1.7506	$ 6.0077	$ 14.7100	$ 1.5000	$ 5.1353	$ 15.0700
89	$ 1.5849	$ 5.6092	$ 13.5600	$ 1.5000	$ 5.3188	$ 14.2559	$ 1.8077	$ 5.7050	$ 14.4900
90	$ 1.5000	$ 4.8284	$ 12.5468	$ 1.5000	$ 4.1831	$ 8.8643	$ 1.8191	$ 6.3133	$ 15.3200
91	$ 1.5000	$ 4.6915	$ 9.7635	$ 1.6091	$ 5.3843	$ 14.4000	$ 1.5000	$ 5.7685	$ 13.7495
92	$ 1.5000	$ 3.6527	$ 6.6598	$ 2.0013	$ 7.1006	$ 14.7027	$ 1.5000	$ 4.6480	$ 13.4769
93	$ 2.0558	$ 4.3955	$ 13.3600	$ 1.5069	$ 5.0499	$ 14.3000	$ 1.8712	$ 6.4027	$ 12.6659
94	$ 1.5000	$ 4.1513	$ 11.4771	$ 1.8076	$ 4.1048	$ 12.5423	$ 1.6056	$ 4.5291	$ 11.7541
95	$ 1.5000	$ 4.5177	$ 9.8366	$ 2.0818	$ 5.5340	$ 11.4306	$ 1.5000	$ 6.1856	$ 9.8265
96	$ 1.8213	$ 4.1507	$ 7.6578	$ 1.5914	$ 5.4530	$ 14.0200	$ 2.2695	$ 4.6365	$ 12.0255
97	$ 1.7349	$ 4.4156	$ 6.5569	$ 2.3496	$ 5.8005	$ 14.0600	$ 1.5848	$ 5.1038	$ 15.3200
98	$ 2.4000	$ 6.7631	$ 12.5558	$ 2.2104	$ 5.8019	$ 14.3000	$ 1.8872	$ 5.2401	$ 14.9800
99	$ 1.6873	$ 4.6420	$ 13.2600	$ 1.7906	$ 5.0187	$ 12.9828	$ 1.5000	$ 5.1483	$ 12.4834
100	$ 1.5000	$ 4.7907	$ 10.2576	$ 1.6679	$ 5.8338	$ 11.5247	$ 1.5000	$ 4.8830	$ 12.5065

	2029			2030			2031		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
101	$ 1.5000	$ 4.8523	$ 12.0035	$ 1.5000	$ 4.8429	$ 14.0200	$ 1.7622	$ 4.2974	$ 7.7391
102	$ 2.3692	$ 4.8216	$ 7.3969	$ 2.9544	$ 6.1867	$ 11.7435	$ 3.0724	$ 5.0106	$ 9.0950
103	$ 1.5000	$ 4.6499	$ 12.8043	$ 1.7104	$ 5.4090	$ 13.9338	$ 1.5000	$ 5.9296	$ 14.9800
104	$ 2.3565	$ 5.4684	$ 10.4676	$ 1.8172	$ 4.3718	$ 14.3000	$ 1.5000	$ 5.7273	$ 15.5100
105	$ 2.2267	$ 3.8331	$ 6.7154	$ 2.3108	$ 6.2105	$ 14.2000	$ 2.8328	$ 6.6262	$ 14.7800
106	$ 1.5000	$ 3.8708	$ 6.4532	$ 2.1423	$ 4.8795	$ 14.4000	$ 1.9718	$ 5.1578	$ 11.3161
107	$ 2.1861	$ 4.3957	$ 7.3463	$ 1.5000	$ 3.9102	$ 9.9823	$ 1.5000	$ 5.6284	$ 14.4900
108	$ 2.2773	$ 5.0270	$ 8.5020	$ 1.8092	$ 4.7208	$ 8.8563	$ 1.5000	$ 5.5570	$ 14.7800
109	$ 1.5255	$ 4.2819	$ 9.1737	$ 1.7132	$ 4.9041	$ 8.1382	$ 1.6378	$ 6.7278	$ 15.0700
110	$ 1.5000	$ 4.4344	$ 11.6302	$ 1.8955	$ 5.4874	$ 12.8283	$ 1.5000	$ 4.6715	$ 8.8818
111	$ 1.6314	$ 4.8035	$ 10.3886	$ 1.9711	$ 5.8828	$ 13.2863	$ 1.5000	$ 4.8481	$ 10.0941
112	$ 1.6227	$ 5.5072	$ 13.0700	$ 2.0910	$ 5.8336	$ 12.3600	$ 1.5000	$ 5.4584	$ 9.6983
113	$ 1.5000	$ 4.4132	$ 8.6857	$ 1.7497	$ 5.1325	$ 8.6716	$ 1.5000	$ 4.4849	$ 7.8044
114	$ 1.5000	$ 5.4578	$ 10.9932	$ 1.5168	$ 5.8260	$ 14.3000	$ 1.5000	$ 5.7425	$ 11.1319
115	$ 1.5000	$ 4.9209	$ 11.7234	$ 1.5000	$ 5.1849	$ 11.2050	$ 1.6270	$ 4.5917	$ 11.9500
116	$ 1.8423	$ 6.2036	$ 12.7423	$ 2.4277	$ 5.1054	$ 10.9258	$ 2.3456	$ 4.5615	$ 7.2173
117	$ 2.5416	$ 5.8355	$ 13.2400	$ 2.3546	$ 5.8117	$ 10.3977	$ 1.5000	$ 4.0388	$ 9.2664
118	$ 1.5917	$ 5.0912	$ 11.5889	$ 1.5000	$ 5.6334	$ 14.0600	$ 1.9306	$ 5.0576	$ 14.8437
119	$ 1.5777	$ 4.4595	$ 13.2030	$ 2.0387	$ 5.8209	$ 13.5018	$ 1.5000	$ 5.6290	$ 10.5443
120	$ 1.5000	$ 5.7986	$ 11.4039	$ 1.5000	$ 4.0221	$ 7.6613	$ 1.5000	$ 3.3273	$ 8.5422
121	$ 1.5127	$ 5.3749	$ 13.5200	$ 1.7387	$ 6.6953	$ 14.4000	$ 2.3258	$ 4.6045	$ 10.4195
122	$ 1.6128	$ 5.0873	$ 9.2089	$ 1.7998	$ 4.3881	$ 6.8582	$ 1.5000	$ 4.7226	$ 10.6529
123	$ 1.5000	$ 5.0915	$ 10.2804	$ 1.5000	$ 6.8114	$ 13.9100	$ 1.5000	$ 4.6671	$ 12.5557
124	$ 1.6525	$ 5.8180	$ 13.4500	$ 1.9031	$ 4.6748	$ 9.9981	$ 2.2221	$ 5.7332	$ 11.9516
125	$ 1.8476	$ 4.0761	$ 10.0023	$ 2.0635	$ 5.9206	$ 12.5987	$ 1.5103	$ 4.0610	$ 7.4373
126	$ 2.2785	$ 5.4869	$ 9.5274	$ 1.7477	$ 4.3536	$ 9.7628	$ 1.7156	$ 5.8292	$ 15.0700
127	$ 1.5000	$ 5.1295	$ 10.8706	$ 1.5858	$ 5.3543	$ 9.3707	$ 2.0262	$ 4.7602	$ 10.3003
128	$ 1.5994	$ 4.4061	$ 11.0225	$ 2.0590	$ 5.0650	$ 10.9053	$ 1.5000	$ 6.6774	$ 14.7200
129	$ 1.5571	$ 4.7720	$ 11.5443	$ 2.5534	$ 6.9770	$ 14.0800	$ 2.1555	$ 5.2339	$ 14.7100
130	$ 1.5000	$ 5.4774	$ 8.7725	$ 2.1462	$ 4.4813	$ 8.8113	$ 1.5000	$ 3.5807	$ 7.9143
131	$ 2.7822	$ 6.1426	$ 11.2918	$ 2.3191	$ 5.9207	$ 14.1000	$ 2.6899	$ 5.7163	$ 9.8802
132	$ 2.6122	$ 4.8137	$ 10.7595	$ 2.6629	$ 4.0426	$ 7.9905	$ 1.5000	$ 6.0786	$ 10.9321
133	$ 1.9292	$ 4.9204	$ 13.1900	$ 1.8851	$ 4.9623	$ 14.3000	$ 1.9019	$ 5.2627	$ 14.4900
134	$ 1.5473	$ 3.6449	$ 6.9164	$ 1.6427	$ 5.0066	$ 13.0630	$ 1.5000	$ 4.1419	$ 8.4192
135	$ 2.2150	$ 5.2843	$ 13.1900	$ 1.5000	$ 5.4929	$ 12.5775	$ 1.5000	$ 4.5002	$ 13.9600
136	$ 2.7229	$ 4.6455	$ 9.9523	$ 1.7619	$ 6.3012	$ 14.4600	$ 1.5877	$ 3.9446	$ 11.9045
137	$ 1.5000	$ 4.3339	$ 9.2591	$ 1.7119	$ 4.9736	$ 14.4600	$ 1.5000	$ 5.2317	$ 8.6138
138	$ 1.8925	$ 5.9207	$ 13.5200	$ 1.5000	$ 4.8473	$ 9.0468	$ 1.5000	$ 3.8798	$ 9.5966
139	$ 1.9360	$ 4.7699	$ 8.0851	$ 1.5000	$ 4.9569	$ 9.3412	$ 1.5705	$ 6.1164	$ 13.9996
140	$ 1.8385	$ 6.0481	$ 12.3854	$ 1.5000	$ 5.2927	$ 13.8046	$ 1.5000	$ 6.5821	$ 13.8098
141	$ 1.8980	$ 4.4240	$ 8.9631	$ 2.6927	$ 5.3799	$ 12.1795	$ 1.6845	$ 5.6425	$ 14.0516
142	$ 1.5176	$ 5.6942	$ 13.2412	$ 2.7756	$ 6.9146	$ 14.1000	$ 2.1364	$ 5.3705	$ 9.5264
143	$ 2.1499	$ 5.7685	$ 9.6579	$ 2.3747	$ 5.3707	$ 8.0331	$ 2.1462	$ 4.6092	$ 12.5215
144	$ 2.4583	$ 4.5980	$ 6.8812	$ 1.5000	$ 4.4523	$ 8.5197	$ 2.5511	$ 6.4247	$ 13.7129
145	$ 1.5000	$ 6.5749	$ 14.0200	$ 1.5000	$ 5.5136	$ 12.0408	$ 2.3948	$ 4.4620	$ 10.0083
146	$ 1.5953	$ 4.2699	$ 8.0578	$ 1.8347	$ 4.2935	$ 8.2957	$ 1.5000	$ 6.1282	$ 14.8700
147	$ 2.2684	$ 5.9620	$ 11.8078	$ 2.1796	$ 4.2220	$ 7.4841	$ 1.5000	$ 4.7239	$ 10.4164
148	$ 1.7676	$ 3.9953	$ 5.3479	$ 2.0074	$ 5.7013	$ 14.5500	$ 1.5157	$ 5.4293	$ 14.7100
149	$ 2.2058	$ 5.9864	$ 13.7800	$ 1.5357	$ 7.0174	$ 11.0750	$ 1.5000	$ 3.6642	$ 9.7046
150	$ 2.7636	$ 6.9954	$ 13.2400	$ 2.3240	$ 5.2011	$ 8.9056	$ 1.6230	$ 3.6894	$ 6.0910

	2029			2030			2031		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
151	$ 2.1525	$ 6.0743	$ 14.0200	$ 1.5000	$ 5.7216	$ 14.4000	$ 1.8041	$ 6.1267	$ 13.8330
152	$ 2.2467	$ 5.1326	$ 13.7800	$ 2.1674	$ 5.1089	$ 14.0600	$ 1.8908	$ 5.4792	$ 9.7247
153	$ 1.5000	$ 5.7828	$ 13.4500	$ 1.5000	$ 5.8400	$ 14.0800	$ 2.6524	$ 6.7098	$ 12.2093
154	$ 1.5000	$ 4.8332	$ 12.0031	$ 1.8371	$ 4.4622	$ 9.0722	$ 1.5000	$ 4.6621	$ 14.6900
155	$ 1.9759	$ 4.7760	$ 13.3600	$ 1.5000	$ 3.5070	$ 6.1365	$ 1.5000	$ 4.4751	$ 14.1110
156	$ 2.8316	$ 6.6142	$ 10.6148	$ 1.5000	$ 5.9135	$ 14.1000	$ 1.8745	$ 4.9719	$ 12.4139
157	$ 1.5560	$ 6.3017	$ 13.4500	$ 1.7117	$ 5.6660	$ 14.4308	$ 1.5000	$ 4.1546	$ 9.1244
158	$ 1.5000	$ 4.9967	$ 8.2009	$ 2.0433	$ 6.0754	$ 11.0416	$ 1.5000	$ 3.2152	$ 7.1773
159	$ 1.6129	$ 5.4058	$ 13.7800	$ 1.5000	$ 3.7974	$ 10.8852	$ 1.5000	$ 4.5786	$ 10.3589
160	$ 1.5000	$ 5.8713	$ 12.3264	$ 1.6565	$ 5.9175	$ 14.3558	$ 1.6008	$ 6.4603	$ 11.7571
161	$ 1.5000	$ 5.8103	$ 13.0700	$ 1.7503	$ 4.4201	$ 9.3715	$ 1.5000	$ 4.3512	$ 9.2290
162	$ 2.0969	$ 5.2789	$ 11.1455	$ 2.6232	$ 5.6285	$ 14.7100	$ 1.7269	$ 5.5572	$ 12.9749
163	$ 1.5000	$ 7.1710	$ 13.5200	$ 1.5000	$ 4.3059	$ 10.2439	$ 1.5360	$ 4.2318	$ 9.0224
164	$ 1.8535	$ 5.0980	$ 11.0807	$ 1.5000	$ 4.5235	$ 13.6846	$ 1.8117	$ 6.0505	$ 14.6900
165	$ 1.5000	$ 4.8900	$ 8.5768	$ 1.5000	$ 4.4758	$ 13.1113	$ 1.5000	$ 4.6953	$ 11.6791
166	$ 1.5000	$ 5.9143	$ 13.5200	$ 2.1847	$ 5.6303	$ 14.4000	$ 1.5000	$ 6.3091	$ 13.3294
167	$ 1.8779	$ 3.7451	$ 6.9617	$ 1.5000	$ 4.3898	$ 11.4930	$ 1.5000	$ 5.7941	$ 10.3472
168	$ 1.5000	$ 5.6603	$ 13.3600	$ 1.5000	$ 5.1303	$ 14.0800	$ 2.3599	$ 7.1935	$ 15.3200
169	$ 1.7042	$ 4.8666	$ 8.1623	$ 1.9522	$ 5.5728	$ 12.2185	$ 1.5000	$ 6.9816	$ 14.9800
170	$ 1.5000	$ 3.7543	$ 6.3930	$ 2.0356	$ 4.3602	$ 8.7170	$ 1.5000	$ 5.1855	$ 12.1155
171	$ 1.5000	$ 3.7665	$ 9.8097	$ 1.5000	$ 5.9801	$ 14.4600	$ 1.5000	$ 5.7494	$ 9.2053
172	$ 1.5000	$ 4.3772	$ 7.7926	$ 2.0110	$ 5.0172	$ 10.6161	$ 1.5000	$ 4.4895	$ 10.3403
173	$ 2.3414	$ 6.9519	$ 13.2000	$ 1.5000	$ 5.8357	$ 14.5500	$ 2.2673	$ 4.6175	$ 11.3245
174	$ 1.5000	$ 5.5013	$ 12.2122	$ 2.3034	$ 6.9016	$ 14.2000	$ 1.5000	$ 4.7466	$ 9.4557
175	$ 2.3364	$ 4.6620	$ 6.8244	$ 1.5669	$ 4.7461	$ 14.0800	$ 1.5000	$ 5.3023	$ 13.7675
176	$ 1.7698	$ 4.4762	$ 9.5850	$ 1.9016	$ 7.2456	$ 11.0683	$ 1.6038	$ 5.1612	$ 14.7100
177	$ 1.5000	$ 4.3946	$ 11.3239	$ 1.6587	$ 6.2789	$ 14.1000	$ 1.6762	$ 6.3972	$ 14.7100
178	$ 1.5000	$ 6.1716	$ 11.3809	$ 1.8055	$ 3.6438	$ 7.5787	$ 1.5000	$ 4.3211	$ 10.5785
179	$ 2.0678	$ 4.6279	$ 7.1520	$ 1.5426	$ 4.1438	$ 7.4482	$ 1.6425	$ 6.0112	$ 14.8700
180	$ 1.5000	$ 4.8424	$ 13.0700	$ 2.0530	$ 4.7040	$ 10.8217	$ 1.5000	$ 4.6935	$ 14.6074
181	$ 1.5000	$ 5.3317	$ 10.1812	$ 1.5248	$ 4.3565	$ 9.5777	$ 1.5000	$ 3.6379	$ 10.4784
182	$ 1.5000	$ 5.0251	$ 12.1472	$ 1.5553	$ 5.5991	$ 14.4000	$ 1.5000	$ 5.3725	$ 14.4285
183	$ 2.1340	$ 4.8214	$ 9.7822	$ 2.5013	$ 5.2886	$ 11.0750	$ 2.1474	$ 5.6459	$ 14.4900
184	$ 1.8090	$ 6.2286	$ 12.0907	$ 1.5000	$ 4.9937	$ 14.3000	$ 2.6948	$ 6.9185	$ 11.1046
185	$ 1.8524	$ 4.9282	$ 10.5056	$ 2.2398	$ 4.6667	$ 8.1501	$ 1.6148	$ 4.6228	$ 9.7077
186	$ 1.5000	$ 4.0717	$ 8.8941	$ 2.1487	$ 4.1137	$ 11.4985	$ 1.5000	$ 5.7059	$ 14.6792
187	$ 1.8093	$ 5.7150	$ 13.4302	$ 1.5000	$ 5.5769	$ 13.8230	$ 1.5534	$ 4.1330	$ 14.9400
188	$ 1.7686	$ 3.9799	$ 8.5309	$ 1.5000	$ 4.5417	$ 14.4000	$ 1.5000	$ 4.5810	$ 14.7100
189	$ 2.8755	$ 5.1396	$ 10.9199	$ 2.7357	$ 5.9652	$ 14.3700	$ 2.0989	$ 4.6522	$ 12.2568
190	$ 1.6416	$ 4.3777	$ 8.9660	$ 3.0279	$ 7.1386	$ 14.1000	$ 1.5000	$ 3.8610	$ 5.4785
191	$ 1.6902	$ 5.6666	$ 13.3600	$ 1.5000	$ 5.5217	$ 14.1000	$ 1.5000	$ 4.4327	$ 9.8465
192	$ 1.9974	$ 6.8300	$ 13.3600	$ 2.3644	$ 3.5926	$ 6.0243	$ 1.5000	$ 7.9928	$ 15.5100
193	$ 1.5000	$ 4.6292	$ 12.1545	$ 2.4783	$ 5.1912	$ 14.0600	$ 2.5394	$ 5.5329	$ 10.8031
194	$ 1.6128	$ 4.9057	$ 11.5081	$ 2.8367	$ 6.2483	$ 13.9296	$ 1.7176	$ 4.6553	$ 9.7322
195	$ 1.5482	$ 4.1239	$ 9.2382	$ 1.8953	$ 7.6461	$ 14.2000	$ 1.5000	$ 4.2021	$ 12.0238
196	$ 1.5000	$ 4.6197	$ 13.2934	$ 2.6462	$ 6.5789	$ 14.0200	$ 2.1308	$ 4.4220	$ 9.2179
197	$ 1.9283	$ 4.6167	$ 8.5992	$ 1.8205	$ 5.7720	$ 14.3000	$ 1.5000	$ 5.3930	$ 13.4800
198	$ 1.5000	$ 4.9514	$ 13.5600	$ 1.5367	$ 4.9060	$ 14.5500	$ 1.5796	$ 4.5571	$ 12.4276
199	$ 2.2434	$ 7.2672	$ 13.6300	$ 1.5000	$ 4.0524	$ 9.7236	$ 1.5165	$ 4.4006	$ 11.2674
200	$ 1.5000	$ 5.4688	$ 12.5160	$ 2.5214	$ 3.5668	$ 5.7151	$ 1.7181	$ 4.7743	$ 9.0090
Min	$ 1.5000	$ 3.1685	$ 5.3479	$ 1.5000	$ 3.5070	$ 5.7151	$ 1.5000	$ 3.2152	$ 5.4785
Ave	$ 1.8117	$ 5.1248	$ 11.0281	$ 1.8440	$ 5.2535	$ 11.8755	$ 1.7428	$ 5.2229	$ 11.9973
Max	$ 3.3179	$ 7.4055	$ 14.0200	$ 3.5184	$ 7.6461	$ 14.7100	$ 3.0724	$ 7.9928	$ 15.5100

	2032			2033			2034		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
1	$ 2.1763	$ 4.6569	$ 8.0310	$ 1.5000	$ 4.6927	$ 11.5124	$ 1.6811	$ 4.5262	$ 8.8741
2	$ 1.5000	$ 5.0420	$ 15.1077	$ 1.8196	$ 5.9301	$ 16.2300	$ 1.6398	$ 6.7389	$ 16.8000
3	$ 1.7539	$ 4.6533	$ 9.3447	$ 1.5000	$ 5.5190	$ 11.9491	$ 1.5000	$ 4.9941	$ 16.9000
4	$ 1.5000	$ 6.2506	$ 15.9500	$ 2.0278	$ 4.7126	$ 12.5029	$ 1.9121	$ 4.1523	$ 11.3119
5	$ 1.5000	$ 4.6900	$ 9.8604	$ 2.8099	$ 5.2014	$ 11.7943	$ 1.5000	$ 5.5490	$ 14.0599
6	$ 2.4258	$ 5.5132	$ 15.5500	$ 1.5000	$ 4.0658	$ 12.4328	$ 2.5162	$ 7.0341	$ 16.4892
7	$ 2.8714	$ 6.2910	$ 10.8575	$ 1.6310	$ 7.0806	$ 16.6600	$ 1.5000	$ 5.6450	$ 13.5986
8	$ 1.5000	$ 7.0721	$ 15.5700	$ 1.5000	$ 6.0991	$ 15.9200	$ 2.2177	$ 5.4920	$ 16.8608
9	$ 2.0895	$ 7.2420	$ 12.1983	$ 2.7441	$ 5.4080	$ 10.9311	$ 1.7009	$ 5.1489	$ 16.2701
10	$ 1.9158	$ 5.9029	$ 15.6700	$ 1.5000	$ 6.1883	$ 14.5849	$ 1.5000	$ 4.5476	$ 9.8700
11	$ 2.3931	$ 5.6719	$ 13.1950	$ 2.3267	$ 4.5394	$ 16.5000	$ 1.6981	$ 4.9168	$ 15.5240
12	$ 3.6191	$ 7.0115	$ 13.7849	$ 1.5000	$ 5.1054	$ 16.4300	$ 1.9849	$ 6.8778	$ 17.2400
13	$ 1.5000	$ 4.3852	$ 15.6100	$ 2.0908	$ 7.5987	$ 16.3800	$ 2.6872	$ 7.3505	$ 9.8826
14	$ 1.5000	$ 5.4414	$ 13.4426	$ 2.4835	$ 6.1987	$ 11.6871	$ 1.9019	$ 4.4233	$ 17.1300
15	$ 1.5000	$ 4.9913	$ 9.5968	$ 2.9315	$ 5.9810	$ 16.8700	$ 1.6673	$ 7.5398	$ 16.0876
16	$ 2.1952	$ 7.0164	$ 13.8565	$ 1.5000	$ 6.1493	$ 16.1500	$ 2.1558	$ 5.7401	$ 10.5761
17	$ 1.5000	$ 4.1461	$ 14.6316	$ 1.6615	$ 5.2818	$ 11.2992	$ 1.5000	$ 5.5580	$ 10.4724
18	$ 1.5000	$ 4.7982	$ 8.7097	$ 1.5000	$ 7.9182	$ 16.5000	$ 1.5000	$ 4.0578	$ 10.6415
19	$ 1.5107	$ 4.8771	$ 11.9812	$ 2.2005	$ 4.2680	$ 6.3999	$ 1.5000	$ 5.0382	$ 10.2098
20	$ 1.5000	$ 4.8918	$ 12.0960	$ 1.8188	$ 5.1899	$ 16.4300	$ 1.5000	$ 5.8614	$ 13.7241
21	$ 2.1749	$ 4.6676	$ 15.1971	$ 1.5000	$ 4.3360	$ 9.5722	$ 1.5000	$ 4.7218	$ 9.0413
22	$ 1.5000	$ 4.2619	$ 7.7549	$ 1.5001	$ 5.8342	$ 16.2300	$ 1.5000	$ 5.2483	$ 12.1524
23	$ 1.5000	$ 5.0256	$ 15.2337	$ 1.5000	$ 5.2401	$ 7.8373	$ 1.9895	$ 4.3327	$ 6.9285
24	$ 1.7264	$ 6.1452	$ 15.8700	$ 1.8845	$ 6.7910	$ 16.1377	$ 2.0963	$ 4.2989	$ 7.9701
25	$ 3.3603	$ 6.9315	$ 15.3800	$ 1.5000	$ 6.1163	$ 13.4157	$ 1.5000	$ 6.5702	$ 14.1987
26	$ 1.7768	$ 4.3950	$ 8.1702	$ 1.5000	$ 4.6232	$ 9.9877	$ 2.0415	$ 4.4097	$ 8.5287
27	$ 2.1642	$ 6.0201	$ 13.7689	$ 2.4113	$ 5.4287	$ 10.1457	$ 1.5000	$ 4.5556	$ 17.6800
28	$ 1.6330	$ 5.4600	$ 15.2131	$ 1.5000	$ 4.8718	$ 9.9343	$ 1.5000	$ 3.6708	$ 6.8812
29	$ 2.0417	$ 5.5819	$ 15.3800	$ 1.5000	$ 5.2236	$ 12.3338	$ 1.5000	$ 4.2410	$ 7.7191
30	$ 1.8004	$ 6.1823	$ 15.6100	$ 1.5000	$ 4.4480	$ 11.5429	$ 1.5000	$ 5.5174	$ 12.8888
31	$ 1.5000	$ 5.0391	$ 15.5700	$ 1.5000	$ 4.5398	$ 9.2624	$ 2.4856	$ 5.3303	$ 8.7570
32	$ 2.2668	$ 5.2419	$ 9.1953	$ 1.5000	$ 5.2090	$ 14.4705	$ 1.5000	$ 5.8228	$ 12.1435
33	$ 1.9715	$ 4.4200	$ 14.4742	$ 1.5381	$ 6.3495	$ 16.3200	$ 1.6048	$ 7.8520	$ 17.4200
34	$ 1.8511	$ 5.6190	$ 11.5408	$ 1.5000	$ 6.4001	$ 15.5867	$ 1.5000	$ 5.3177	$ 15.1065
35	$ 2.2207	$ 4.5715	$ 12.8257	$ 2.8040	$ 6.5294	$ 16.6600	$ 1.5000	$ 6.3354	$ 16.4491
36	$ 2.0928	$ 7.2868	$ 15.1053	$ 1.5000	$ 6.4127	$ 12.6869	$ 3.0928	$ 7.8153	$ 17.1700
37	$ 1.9167	$ 4.9807	$ 15.8700	$ 1.5000	$ 5.6908	$ 9.8982	$ 2.3284	$ 7.0697	$ 16.6500
38	$ 1.5374	$ 5.9663	$ 15.6100	$ 1.6213	$ 6.5588	$ 16.1500	$ 1.5000	$ 5.0076	$ 16.8000
39	$ 1.6978	$ 4.5676	$ 7.9234	$ 1.6563	$ 4.5665	$ 8.6316	$ 1.5000	$ 5.3620	$ 17.6800
40	$ 1.5000	$ 6.4047	$ 12.1006	$ 1.6282	$ 5.5847	$ 11.0234	$ 1.5000	$ 3.5827	$ 7.4237
41	$ 1.5753	$ 6.1041	$ 14.9278	$ 1.5000	$ 3.4800	$ 5.7220	$ 1.5000	$ 6.6481	$ 17.2400
42	$ 1.5000	$ 5.3580	$ 15.7764	$ 1.5000	$ 5.2766	$ 16.4300	$ 2.7145	$ 6.8190	$ 16.8700
43	$ 1.6294	$ 6.0599	$ 15.8300	$ 2.9745	$ 6.1895	$ 12.5219	$ 1.5000	$ 6.7491	$ 17.2400
44	$ 1.5000	$ 5.5167	$ 15.5835	$ 1.5000	$ 4.0558	$ 16.8700	$ 1.5000	$ 4.5737	$ 8.5686
45	$ 1.5587	$ 4.9789	$ 10.9947	$ 1.5000	$ 4.3664	$ 12.8988	$ 1.5000	$ 8.0295	$ 17.1700
46	$ 2.0146	$ 5.3998	$ 9.8351	$ 1.5000	$ 4.2183	$ 8.3100	$ 2.7105	$ 7.2182	$ 17.0600
47	$ 2.3679	$ 5.4582	$ 10.5738	$ 1.7085	$ 5.3502	$ 16.1500	$ 1.8250	$ 4.2760	$ 9.2179
48	$ 1.6626	$ 4.2451	$ 8.4980	$ 1.7051	$ 7.4617	$ 16.1400	$ 1.5000	$ 7.4414	$ 17.2977
49	$ 1.9498	$ 5.4535	$ 15.5500	$ 1.5000	$ 5.5730	$ 12.7805	$ 1.6888	$ 4.6018	$ 8.4418
50	$ 2.1320	$ 4.6390	$ 8.6725	$ 2.3083	$ 6.1999	$ 11.4812	$ 1.5000	$ 5.4818	$ 14.2888

	2032			2033			2034		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
51	$ 1.8662	$ 6.0796	$ 14.2645	$ 2.2733	$ 6.9506	$ 16.3800	$ 1.5000	$ 6.3244	$ 15.2768
52	$ 1.5304	$ 3.8181	$ 8.3798	$ 1.5000	$ 4.3913	$ 9.5277	$ 2.8258	$ 7.2299	$ 16.9600
53	$ 1.9909	$ 5.9858	$ 12.3872	$ 1.7115	$ 5.2470	$ 12.8760	$ 1.7044	$ 3.9784	$ 8.6683
54	$ 1.5000	$ 4.7824	$ 11.7253	$ 1.5000	$ 4.7667	$ 11.4698	$ 1.5000	$ 5.5984	$ 15.5848
55	$ 2.4767	$ 6.7388	$ 12.9983	$ 2.4777	$ 5.3618	$ 11.1567	$ 1.5000	$ 6.1768	$ 16.9600
56	$ 1.6539	$ 7.2635	$ 16.1600	$ 1.5000	$ 6.3372	$ 12.0419	$ 1.5000	$ 8.5649	$ 17.1300
57	$ 1.5000	$ 4.9997	$ 11.5108	$ 1.5000	$ 5.7119	$ 16.5000	$ 1.9768	$ 5.8815	$ 17.1300
58	$ 1.8093	$ 6.3822	$ 14.5029	$ 1.5000	$ 4.6677	$ 9.7144	$ 1.5000	$ 4.7712	$ 10.1183
59	$ 1.5000	$ 6.0584	$ 12.2649	$ 1.5000	$ 4.7580	$ 16.4300	$ 1.5000	$ 5.4383	$ 11.9791
60	$ 2.0714	$ 4.3240	$ 10.7983	$ 1.5000	$ 4.1890	$ 8.5241	$ 1.6240	$ 4.4516	$ 9.8945
61	$ 2.2501	$ 4.7956	$ 7.8885	$ 1.9622	$ 6.9189	$ 11.2834	$ 1.8866	$ 5.9905	$ 12.8109
62	$ 1.5212	$ 4.9285	$ 10.0537	$ 2.3923	$ 5.1606	$ 9.5447	$ 1.5000	$ 4.6396	$ 8.1236
63	$ 1.5882	$ 5.0830	$ 13.0871	$ 2.2081	$ 5.8572	$ 15.9897	$ 2.0452	$ 7.8905	$ 17.2400
64	$ 2.8585	$ 6.4513	$ 13.6706	$ 1.7923	$ 5.3195	$ 12.8193	$ 1.5000	$ 5.0038	$ 12.5833
65	$ 1.5000	$ 4.3946	$ 10.5123	$ 2.2322	$ 6.1657	$ 16.4300	$ 1.5000	$ 8.4558	$ 17.1300
66	$ 1.5000	$ 6.0233	$ 15.7600	$ 1.5000	$ 4.9746	$ 14.5427	$ 1.5000	$ 5.2606	$ 13.4681
67	$ 1.7577	$ 4.9888	$ 11.1922	$ 1.5000	$ 5.8631	$ 13.0155	$ 1.5000	$ 5.9006	$ 14.3488
68	$ 1.5330	$ 6.3099	$ 11.8892	$ 1.5000	$ 5.1804	$ 12.3012	$ 1.7462	$ 4.3506	$ 10.4251
69	$ 1.6262	$ 5.8315	$ 10.6418	$ 1.5000	$ 6.2263	$ 13.7481	$ 2.3151	$ 5.7827	$ 11.4406
70	$ 1.5000	$ 5.4273	$ 16.3100	$ 1.5000	$ 5.5671	$ 16.8700	$ 1.6824	$ 4.4798	$ 13.0061
71	$ 1.5000	$ 4.7324	$ 12.9222	$ 2.6606	$ 6.1559	$ 15.5637	$ 1.5000	$ 5.1300	$ 14.2335
72	$ 1.5000	$ 5.4813	$ 15.4339	$ 1.5000	$ 4.9680	$ 14.2667	$ 1.5000	$ 4.5246	$ 10.2627
73	$ 1.5000	$ 4.6129	$ 9.1001	$ 1.5172	$ 4.0424	$ 7.1806	$ 1.5000	$ 5.0309	$ 17.1700
74	$ 2.1164	$ 6.4257	$ 15.6700	$ 1.5000	$ 4.5137	$ 8.2679	$ 1.5000	$ 6.6053	$ 15.7898
75	$ 1.5000	$ 6.6915	$ 15.3800	$ 1.5000	$ 7.0377	$ 16.1500	$ 1.5000	$ 5.4959	$ 13.2517
76	$ 1.5000	$ 4.7383	$ 9.9540	$ 1.5000	$ 4.4109	$ 11.7938	$ 1.9020	$ 5.8948	$ 16.6500
77	$ 1.5000	$ 5.4606	$ 9.8138	$ 1.8190	$ 5.1703	$ 10.5449	$ 1.5000	$ 4.7409	$ 9.3691
78	$ 2.2535	$ 6.6254	$ 16.1600	$ 1.5000	$ 5.7739	$ 16.8700	$ 1.5000	$ 4.0551	$ 8.4733
79	$ 1.6369	$ 5.5981	$ 15.8700	$ 2.2790	$ 9.0802	$ 15.9631	$ 2.1496	$ 4.0822	$ 5.8632
80	$ 2.0800	$ 5.6664	$ 11.5634	$ 1.8036	$ 5.6622	$ 14.1448	$ 1.8764	$ 6.0279	$ 16.8700
81	$ 2.4913	$ 5.4132	$ 10.6239	$ 1.5253	$ 5.4038	$ 9.7835	$ 1.5000	$ 6.5383	$ 17.0600
82	$ 1.5000	$ 4.9233	$ 12.4936	$ 1.5000	$ 5.2723	$ 16.8700	$ 1.5000	$ 3.6774	$ 7.3041
83	$ 1.5000	$ 6.2725	$ 15.6100	$ 2.3080	$ 4.3050	$ 7.0813	$ 1.7619	$ 5.4426	$ 12.5124
84	$ 1.5000	$ 4.1811	$ 7.6361	$ 1.6872	$ 6.6712	$ 16.2300	$ 2.5430	$ 6.7170	$ 14.9990
85	$ 1.7514	$ 5.5149	$ 13.5085	$ 1.5000	$ 4.4488	$ 8.4696	$ 1.5000	$ 4.6561	$ 11.8594
86	$ 2.2888	$ 5.2526	$ 12.4995	$ 2.0673	$ 6.6792	$ 11.4422	$ 1.5000	$ 5.9572	$ 13.8294
87	$ 1.5000	$ 5.9762	$ 15.4990	$ 1.5076	$ 4.6361	$ 8.3072	$ 1.5000	$ 4.8638	$ 16.9600
88	$ 1.5000	$ 4.7078	$ 14.8452	$ 1.5000	$ 5.0763	$ 12.4643	$ 1.5000	$ 4.1171	$ 7.1378
89	$ 1.8394	$ 5.4367	$ 15.7600	$ 2.4617	$ 7.5261	$ 12.5643	$ 1.5000	$ 4.1571	$ 8.3489
90	$ 2.6036	$ 5.1169	$ 8.7579	$ 1.5000	$ 5.1240	$ 15.9200	$ 1.5000	$ 4.3997	$ 8.4763
91	$ 2.1874	$ 4.8192	$ 12.8344	$ 1.7105	$ 5.8489	$ 14.6863	$ 2.2465	$ 5.4202	$ 9.8970
92	$ 1.5000	$ 4.2879	$ 15.8300	$ 1.8868	$ 6.5504	$ 15.6896	$ 1.5000	$ 6.4141	$ 16.8700
93	$ 1.5033	$ 5.1506	$ 13.7261	$ 1.9315	$ 5.6492	$ 12.7364	$ 1.6441	$ 6.1346	$ 17.2405
94	$ 1.5043	$ 5.6823	$ 13.1353	$ 1.5000	$ 6.1334	$ 15.9200	$ 2.1299	$ 5.4449	$ 9.5062
95	$ 1.7366	$ 5.7643	$ 15.8700	$ 1.5000	$ 3.5892	$ 7.1855	$ 1.5000	$ 5.2858	$ 17.0600
96	$ 1.9238	$ 6.5078	$ 12.4953	$ 1.5198	$ 5.6238	$ 13.7159	$ 2.0523	$ 6.8152	$ 14.3267
97	$ 1.5000	$ 4.3515	$ 7.1472	$ 1.5000	$ 5.1271	$ 8.7201	$ 1.5000	$ 5.0356	$ 10.0111
98	$ 1.5228	$ 5.0931	$ 10.5095	$ 1.5000	$ 4.9308	$ 9.3018	$ 1.5000	$ 5.6608	$ 15.9817
99	$ 2.0267	$ 5.3527	$ 10.4187	$ 1.7208	$ 5.4460	$ 9.9010	$ 1.5701	$ 5.1369	$ 8.6266
100	$ 2.2856	$ 6.4338	$ 15.3800	$ 1.7687	$ 5.9631	$ 13.7492	$ 2.4978	$ 7.4117	$ 17.1300

	2032			2033			2034		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
101	$ 1.5000	$ 4.0083	$ 9.0989	$ 2.4873	$ 7.3395	$ 13.5016	$ 1.5000	$ 6.9673	$ 14.3914
102	$ 1.9321	$ 4.7688	$ 10.5071	$ 1.5000	$ 5.0540	$ 11.8325	$ 1.5503	$ 4.9842	$ 8.4366
103	$ 1.5670	$ 7.4188	$ 15.8700	$ 2.0896	$ 5.6887	$ 13.0417	$ 2.4812	$ 5.0443	$ 11.4802
104	$ 3.1415	$ 4.8477	$ 8.5673	$ 1.6561	$ 5.4850	$ 10.9546	$ 1.6582	$ 5.5843	$ 17.0600
105	$ 1.5000	$ 5.9935	$ 15.8700	$ 1.5692	$ 7.2381	$ 16.3100	$ 1.9468	$ 4.3527	$ 9.0474
106	$ 1.5000	$ 5.2429	$ 15.8300	$ 2.3610	$ 7.2357	$ 16.1500	$ 1.5000	$ 5.2874	$ 15.3908
107	$ 1.5000	$ 4.6783	$ 12.0351	$ 1.6345	$ 4.7118	$ 13.1023	$ 1.5000	$ 5.1930	$ 14.2992
108	$ 1.9516	$ 7.2498	$ 13.4374	$ 1.5000	$ 5.7776	$ 16.2300	$ 1.5000	$ 6.0007	$ 16.9000
109	$ 1.9646	$ 5.6152	$ 14.2230	$ 4.6098	$ 7.0729	$ 16.3200	$ 1.7878	$ 4.1135	$ 9.2585
110	$ 2.3882	$ 5.1937	$ 15.8700	$ 1.5000	$ 7.1655	$ 16.8700	$ 2.1180	$ 5.6318	$ 16.9600
111	$ 1.5000	$ 4.4513	$ 8.5963	$ 1.5000	$ 4.2894	$ 13.4435	$ 1.5000	$ 4.2302	$ 8.5824
112	$ 1.5000	$ 4.2604	$ 8.0058	$ 1.5000	$ 6.3528	$ 16.5000	$ 2.1676	$ 5.8589	$ 17.1700
113	$ 1.5000	$ 4.1683	$ 8.0532	$ 2.2500	$ 6.2125	$ 15.3696	$ 1.6294	$ 6.3794	$ 17.2400
114	$ 1.5000	$ 6.0735	$ 15.9500	$ 1.5000	$ 7.0774	$ 13.7558	$ 1.5000	$ 5.5279	$ 15.4701
115	$ 1.5000	$ 5.5391	$ 10.1449	$ 1.6024	$ 5.9220	$ 13.7368	$ 1.5000	$ 6.2020	$ 16.5401
116	$ 1.7724	$ 5.4758	$ 15.3800	$ 1.5000	$ 3.3514	$ 6.4236	$ 1.5000	$ 5.4137	$ 16.6500
117	$ 1.8305	$ 5.1445	$ 15.6100	$ 1.5000	$ 6.3489	$ 16.3200	$ 2.3230	$ 6.2471	$ 12.5191
118	$ 1.5722	$ 5.2251	$ 9.9200	$ 1.5000	$ 7.0888	$ 16.1500	$ 1.5449	$ 5.1246	$ 17.2400
119	$ 1.5000	$ 7.0175	$ 13.0395	$ 1.6479	$ 5.4543	$ 16.3200	$ 1.5680	$ 5.8791	$ 14.3275
120	$ 2.7167	$ 4.5729	$ 7.0022	$ 2.1146	$ 4.8220	$ 7.6011	$ 1.7570	$ 4.5407	$ 11.1088
121	$ 1.5000	$ 5.7241	$ 12.8221	$ 1.5000	$ 4.6030	$ 15.2526	$ 1.5000	$ 4.8995	$ 15.4410
122	$ 1.5000	$ 6.4701	$ 15.7600	$ 1.9236	$ 6.6558	$ 16.5000	$ 1.5000	$ 4.9034	$ 16.7015
123	$ 2.1918	$ 4.5149	$ 9.6053	$ 1.6789	$ 5.8307	$ 16.1400	$ 1.5000	$ 4.1780	$ 8.2828
124	$ 1.9252	$ 5.5092	$ 15.5345	$ 1.5000	$ 7.7768	$ 16.3800	$ 2.7072	$ 6.4578	$ 13.1603
125	$ 2.1243	$ 6.4201	$ 15.5500	$ 2.1826	$ 7.8117	$ 16.2300	$ 1.6970	$ 3.3919	$ 6.8690
126	$ 2.1680	$ 5.8774	$ 15.9500	$ 1.9283	$ 5.2047	$ 12.9772	$ 1.6989	$ 6.3165	$ 17.1300
127	$ 1.5000	$ 4.1654	$ 9.1677	$ 1.5000	$ 4.3720	$ 11.6903	$ 1.6988	$ 4.6545	$ 11.4951
128	$ 1.8131	$ 5.8192	$ 15.0805	$ 1.5000	$ 4.1333	$ 9.2705	$ 1.5000	$ 5.3151	$ 16.5645
129	$ 2.0147	$ 5.6086	$ 14.1256	$ 1.6831	$ 5.8490	$ 16.2300	$ 1.9252	$ 5.2609	$ 9.7037
130	$ 1.5000	$ 4.4119	$ 15.9500	$ 1.5000	$ 5.3720	$ 12.8797	$ 1.5000	$ 5.2767	$ 15.8647
131	$ 1.5000	$ 5.2358	$ 13.5640	$ 1.5000	$ 5.2145	$ 12.9142	$ 2.2711	$ 4.7273	$ 10.2089
132	$ 1.7735	$ 6.3712	$ 13.2776	$ 1.6871	$ 5.8869	$ 12.2628	$ 1.5000	$ 3.9142	$ 8.2923
133	$ 1.5000	$ 5.4067	$ 12.4856	$ 1.5000	$ 5.4978	$ 11.0851	$ 1.8922	$ 5.7396	$ 17.0600
134	$ 1.8125	$ 6.1330	$ 15.8300	$ 1.5000	$ 6.3457	$ 15.6809	$ 1.5000	$ 6.9552	$ 16.4034
135	$ 1.5000	$ 4.8191	$ 13.0872	$ 1.8471	$ 4.9089	$ 16.4300	$ 1.5000	$ 5.3019	$ 15.5572
136	$ 1.6303	$ 4.2277	$ 11.4753	$ 1.5000	$ 5.7907	$ 16.3800	$ 1.7677	$ 4.9596	$ 14.3582
137	$ 1.5000	$ 6.1578	$ 15.6700	$ 2.4747	$ 6.4077	$ 13.8322	$ 2.1399	$ 6.9976	$ 16.5596
138	$ 1.6018	$ 7.7247	$ 15.0093	$ 2.2948	$ 5.9946	$ 16.3800	$ 2.1984	$ 6.9903	$ 12.4022
139	$ 1.5000	$ 6.1112	$ 15.6100	$ 1.5000	$ 5.6136	$ 16.3800	$ 1.5241	$ 5.2477	$ 9.7582
140	$ 1.8475	$ 5.7678	$ 15.7485	$ 1.5000	$ 3.4598	$ 7.9758	$ 1.9604	$ 6.5676	$ 14.0089
141	$ 2.0759	$ 5.7371	$ 11.8515	$ 1.5000	$ 3.5658	$ 6.4839	$ 1.5000	$ 4.5607	$ 10.8810
142	$ 1.5000	$ 5.6947	$ 12.1158	$ 1.8173	$ 5.2552	$ 16.8700	$ 1.5000	$ 6.8072	$ 17.4200
143	$ 1.5000	$ 5.2810	$ 15.9500	$ 1.5768	$ 5.4041	$ 12.0551	$ 1.5000	$ 6.8969	$ 17.0600
144	$ 1.5000	$ 4.6570	$ 11.7922	$ 1.5000	$ 6.2997	$ 15.6742	$ 1.5000	$ 5.5763	$ 10.6667
145	$ 2.4077	$ 6.4891	$ 15.5700	$ 1.5000	$ 4.5301	$ 8.9200	$ 1.5000	$ 5.7900	$ 12.1850
146	$ 1.7900	$ 5.5971	$ 15.5500	$ 2.2592	$ 6.4331	$ 16.6600	$ 1.5858	$ 6.9792	$ 16.6500
147	$ 1.5143	$ 5.2771	$ 15.6100	$ 1.5000	$ 6.9805	$ 11.8800	$ 1.5000	$ 6.9942	$ 12.9426
148	$ 1.5000	$ 6.3322	$ 15.5700	$ 1.5000	$ 5.3739	$ 16.3100	$ 1.5000	$ 4.3254	$ 7.2260
149	$ 1.5000	$ 5.2633	$ 16.2669	$ 1.8364	$ 3.7025	$ 8.3484	$ 1.5000	$ 5.4066	$ 12.1754
150	$ 1.5000	$ 2.7525	$ 4.9257	$ 1.5000	$ 6.3460	$ 12.6335	$ 1.5000	$ 5.6004	$ 16.8000

	2032			2033			2034		
Draw	Min	Average	Max	Min	Average	Max	Min	Average	Max
151	$ 2.7903	$ 5.1406	$ 10.9206	$ 1.5000	$ 4.9744	$ 11.6518	$ 2.1968	$ 6.2596	$ 17.1300
152	$ 2.1540	$ 6.3401	$ 12.5358	$ 1.5000	$ 3.7422	$ 8.4437	$ 1.5000	$ 4.6880	$ 11.0411
153	$ 1.5000	$ 5.1466	$ 16.1600	$ 2.3412	$ 6.1063	$ 12.2116	$ 1.5000	$ 3.7944	$ 9.8393
154	$ 1.5000	$ 4.8322	$ 15.6700	$ 1.7190	$ 5.7784	$ 13.1627	$ 1.5000	$ 6.0003	$ 16.9600
155	$ 2.3050	$ 7.1023	$ 15.1749	$ 2.2921	$ 5.6776	$ 15.0304	$ 1.5939	$ 5.1838	$ 16.7241
156	$ 3.5675	$ 7.2436	$ 10.2606	$ 1.5000	$ 4.4181	$ 7.3810	$ 1.5000	$ 6.4597	$ 13.0823
157	$ 1.5000	$ 4.5434	$ 11.7722	$ 1.5000	$ 6.3656	$ 16.4300	$ 1.5000	$ 5.4310	$ 15.3026
158	$ 1.6324	$ 4.5828	$ 15.5700	$ 1.5000	$ 3.7079	$ 9.3065	$ 1.5000	$ 4.7901	$ 14.1041
159	$ 1.5000	$ 5.0508	$ 15.6100	$ 1.6593	$ 4.4228	$ 9.2723	$ 1.5000	$ 5.9278	$ 14.0882
160	$ 2.0782	$ 7.4610	$ 15.9500	$ 1.9387	$ 4.9009	$ 9.6061	$ 1.5000	$ 5.9468	$ 10.3130
161	$ 2.3004	$ 5.6403	$ 15.8700	$ 1.5000	$ 4.4170	$ 8.6726	$ 1.5000	$ 4.3002	$ 11.6703
162	$ 1.5000	$ 6.0463	$ 16.3100	$ 1.5000	$ 6.1501	$ 15.8696	$ 1.5000	$ 5.1590	$ 16.8700
163	$ 2.5172	$ 5.8139	$ 12.6788	$ 1.5000	$ 7.1114	$ 16.2300	$ 1.5000	$ 5.9439	$ 16.9600
164	$ 1.5411	$ 5.1555	$ 10.6266	$ 1.5000	$ 4.8070	$ 16.2300	$ 2.4157	$ 6.6991	$ 16.9600
165	$ 1.6435	$ 3.8869	$ 8.0953	$ 1.5000	$ 5.4289	$ 11.4178	$ 1.5000	$ 4.1414	$ 9.9458
166	$ 1.5000	$ 6.0219	$ 15.7600	$ 1.7456	$ 4.4680	$ 8.0735	$ 1.5000	$ 4.8977	$ 10.2761
167	$ 1.5000	$ 6.2983	$ 10.0355	$ 2.3829	$ 7.2038	$ 16.5000	$ 1.5000	$ 6.9344	$ 16.9000
168	$ 1.5000	$ 5.3810	$ 9.6584	$ 2.1541	$ 5.5727	$ 16.6600	$ 1.5000	$ 5.6504	$ 16.9600
169	$ 1.5000	$ 4.3225	$ 14.4267	$ 1.5000	$ 2.8966	$ 5.5348	$ 1.6393	$ 4.7887	$ 8.8843
170	$ 2.4874	$ 6.1926	$ 15.2164	$ 1.5000	$ 4.6426	$ 10.6911	$ 1.5000	$ 5.3443	$ 10.8416
171	$ 1.8313	$ 4.7277	$ 12.5955	$ 2.6242	$ 5.6138	$ 10.9817	$ 1.5000	$ 6.0612	$ 17.0600
172	$ 1.5000	$ 5.4206	$ 14.2861	$ 1.5595	$ 6.2574	$ 15.3359	$ 1.6730	$ 5.8500	$ 16.1997
173	$ 1.5000	$ 5.3963	$ 15.6700	$ 1.5603	$ 4.8098	$ 9.7579	$ 1.9966	$ 7.3142	$ 12.4853
174	$ 2.1713	$ 5.2664	$ 13.9810	$ 2.8280	$ 5.3281	$ 10.1455	$ 1.5000	$ 5.3848	$ 17.1369
175	$ 2.4328	$ 5.1433	$ 9.2332	$ 1.5000	$ 6.6594	$ 16.6418	$ 1.5000	$ 6.0562	$ 15.5491
176	$ 2.9701	$ 6.8073	$ 15.5500	$ 2.2526	$ 5.8340	$ 16.3800	$ 1.5000	$ 5.4061	$ 12.4341
177	$ 1.5378	$ 5.4332	$ 9.4768	$ 1.5000	$ 4.7237	$ 14.3276	$ 1.5000	$ 6.0819	$ 17.4200
178	$ 1.9479	$ 4.9223	$ 11.5912	$ 1.5000	$ 7.8265	$ 16.3800	$ 1.9041	$ 4.9806	$ 8.2323
179	$ 1.5000	$ 4.3321	$ 10.9931	$ 1.5932	$ 6.0631	$ 11.7046	$ 1.9771	$ 7.2527	$ 17.6800
180	$ 1.5000	$ 6.3043	$ 15.6700	$ 1.5000	$ 4.0704	$ 10.0585	$ 1.5000	$ 4.8256	$ 11.3456
181	$ 1.8825	$ 5.0157	$ 15.8700	$ 1.5000	$ 5.0978	$ 11.4443	$ 1.9607	$ 7.5541	$ 16.2838
182	$ 1.5000	$ 5.3670	$ 15.6100	$ 1.5000	$ 6.2029	$ 15.9274	$ 2.1846	$ 6.6663	$ 16.8000
183	$ 2.2332	$ 6.7893	$ 15.8300	$ 1.5000	$ 6.8152	$ 14.8156	$ 1.5000	$ 5.4425	$ 17.6800
184	$ 1.7732	$ 3.7015	$ 7.0521	$ 2.1038	$ 6.7462	$ 16.4300	$ 1.7779	$ 5.3358	$ 17.0600
185	$ 2.5403	$ 6.1140	$ 15.6700	$ 1.6350	$ 5.8427	$ 11.5144	$ 1.5000	$ 4.7839	$ 8.5450
186	$ 1.8289	$ 7.7367	$ 16.1207	$ 1.8415	$ 6.2056	$ 16.5000	$ 1.8279	$ 6.3614	$ 16.6887
187	$ 1.5000	$ 5.8914	$ 12.3996	$ 1.5000	$ 5.8434	$ 16.4398	$ 2.3465	$ 5.8903	$ 16.9000
188	$ 2.6218	$ 5.1898	$ 10.5388	$ 1.5000	$ 5.0195	$ 13.4744	$ 1.5000	$ 6.7609	$ 16.9600
189	$ 1.5000	$ 6.0854	$ 12.0014	$ 2.1250	$ 5.4816	$ 13.1066	$ 1.5000	$ 5.1423	$ 14.5564
190	$ 1.5000	$ 5.2866	$ 12.1177	$ 1.9264	$ 6.1123	$ 15.9200	$ 1.7210	$ 5.6026	$ 17.0600
191	$ 1.5000	$ 5.1623	$ 15.6700	$ 2.2804	$ 7.0750	$ 16.4300	$ 1.8504	$ 6.3564	$ 16.5184
192	$ 1.5000	$ 6.1176	$ 15.5500	$ 1.5000	$ 5.0776	$ 13.0118	$ 1.5000	$ 5.8077	$ 13.3075
193	$ 1.5870	$ 5.5427	$ 15.1838	$ 1.8714	$ 6.4641	$ 15.4625	$ 1.5000	$ 4.2847	$ 12.0718
194	$ 2.6636	$ 4.9564	$ 9.0583	$ 1.8907	$ 5.9391	$ 11.0321	$ 2.6208	$ 5.0894	$ 9.2550
195	$ 2.2171	$ 5.2688	$ 14.8652	$ 1.5000	$ 5.2390	$ 14.7957	$ 2.1556	$ 6.4111	$ 16.5021
196	$ 2.2029	$ 5.1907	$ 12.8452	$ 2.1819	$ 5.3423	$ 8.3692	$ 1.8209	$ 4.5124	$ 9.3872
197	$ 1.7770	$ 6.2994	$ 11.0454	$ 1.8411	$ 5.1840	$ 14.5794	$ 1.8351	$ 6.2092	$ 13.4192
198	$ 2.3044	$ 5.6916	$ 9.1461	$ 1.5000	$ 3.9963	$ 7.9365	$ 1.5000	$ 4.1013	$ 11.0343
199	$ 2.0032	$ 6.0004	$ 14.1906	$ 1.5000	$ 5.6452	$ 16.8700	$ 2.4637	$ 5.9110	$ 14.9511
200	$ 2.4652	$ 5.9600	$ 12.9136	$ 1.5000	$ 5.6022	$ 16.4300	$ 1.7090	$ 5.6305	$ 16.7008
Min	$ 1.5000	$ 2.7525	$ 4.9257	$ 1.5000	$ 2.8966	$ 5.5348	$ 1.5000	$ 3.3919	$ 5.8632
Ave	$ 1.8320	$ 5.4865	$ 13.0103	$ 1.7579	$ 5.5685	$ 13.1408	$ 1.7215	$ 5.5705	$ 13.5542
Max	$ 3.6191	$ 7.7367	$ 16.3100	$ 4.6098	$ 9.0802	$ 16.8700	$ 3.0928	$ 8.5649	$ 17.6800

	2035			2036		
Draw	Min	Average	Max	Min	Average	Max
1	$ 1.5000	$ 4.9087	$ 15.9430	$ 1.5000	$ 5.4667	$ 18.2500
2	$ 1.5165	$ 8.8148	$ 17.0627	$ 1.5000	$ 4.3335	$ 13.1530
3	$ 1.7980	$ 4.9870	$ 8.2965	$ 1.5000	$ 6.0743	$ 12.9783
4	$ 1.8053	$ 4.5768	$ 12.7757	$ 1.5000	$ 7.3492	$ 16.0476
5	$ 1.5000	$ 6.9588	$ 11.2035	$ 1.5000	$ 7.5349	$ 18.3922
6	$ 1.5620	$ 6.5575	$ 17.7900	$ 1.8356	$ 5.6216	$ 18.2301
7	$ 1.5000	$ 4.1575	$ 10.5957	$ 1.5000	$ 5.8106	$ 16.0507
8	$ 1.5000	$ 4.3995	$ 11.0604	$ 1.5000	$ 6.9807	$ 18.2500
9	$ 1.5000	$ 4.8591	$ 11.8922	$ 1.5000	$ 5.3880	$ 18.2500
10	$ 1.5000	$ 5.7746	$ 18.3800	$ 1.5000	$ 4.5203	$ 11.8614
11	$ 1.5000	$ 4.4337	$ 10.7858	$ 1.5000	$ 6.5919	$ 18.2500
12	$ 1.6931	$ 4.7960	$ 10.0890	$ 2.1368	$ 5.9757	$ 18.6000
13	$ 1.6504	$ 5.1620	$ 9.5917	$ 1.5000	$ 3.8295	$ 8.3801
14	$ 1.5223	$ 5.7924	$ 10.7510	$ 1.5000	$ 5.3678	$ 16.8654
15	$ 2.1920	$ 4.5052	$ 9.8583	$ 1.9744	$ 6.4942	$ 12.1877
16	$ 1.5000	$ 3.5882	$ 11.1273	$ 1.8987	$ 6.8297	$ 18.2471
17	$ 1.7588	$ 5.9357	$ 14.6801	$ 1.7556	$ 6.4588	$ 14.7984
18	$ 1.5000	$ 4.3011	$ 8.8905	$ 1.8252	$ 7.1694	$ 12.6227
19	$ 1.5000	$ 5.4090	$ 10.8714	$ 1.5000	$ 4.9028	$ 9.2329
20	$ 2.1309	$ 5.3665	$ 15.9470	$ 1.5000	$ 5.8193	$ 18.2500
21	$ 2.1640	$ 5.4550	$ 17.7900	$ 1.5000	$ 4.6804	$ 13.1956
22	$ 1.5000	$ 4.2936	$ 9.0612	$ 1.5000	$ 5.8264	$ 18.2500
23	$ 1.5000	$ 6.0768	$ 14.1771	$ 1.5000	$ 7.3224	$ 17.6789
24	$ 1.9792	$ 6.0130	$ 17.7900	$ 1.5000	$ 5.1547	$ 10.4237
25	$ 1.6349	$ 7.5912	$ 17.5900	$ 1.5000	$ 6.3101	$ 14.9165
26	$ 2.0696	$ 8.7449	$ 17.7800	$ 1.5000	$ 3.9781	$ 10.3380
27	$ 1.5000	$ 5.4135	$ 10.6575	$ 3.0148	$ 6.4564	$ 14.1265
28	$ 1.8842	$ 8.0492	$ 17.9500	$ 2.8440	$ 3.9463	$ 7.0290
29	$ 3.2171	$ 8.9089	$ 17.9500	$ 1.5430	$ 6.4463	$ 17.8229
30	$ 1.6935	$ 6.0226	$ 14.2138	$ 2.3448	$ 7.5801	$ 18.2500
31	$ 1.5000	$ 6.6242	$ 17.6900	$ 1.5000	$ 7.4979	$ 18.2500
32	$ 1.5000	$ 5.2960	$ 12.6131	$ 1.9827	$ 5.0473	$ 8.7626
33	$ 1.5000	$ 6.7871	$ 14.3316	$ 1.5000	$ 4.0628	$ 7.2682
34	$ 1.5000	$ 4.5287	$ 14.2383	$ 1.5000	$ 6.1361	$ 12.6147
35	$ 1.8069	$ 5.4340	$ 17.7200	$ 2.1598	$ 6.3347	$ 16.0102
36	$ 2.3328	$ 7.1183	$ 15.0873	$ 2.2138	$ 5.7115	$ 11.7959
37	$ 1.5000	$ 5.2533	$ 17.5538	$ 1.5000	$ 8.3299	$ 18.2500
38	$ 2.1703	$ 3.2008	$ 4.9932	$ 1.5000	$ 3.7905	$ 6.5624
39	$ 1.5000	$ 6.9094	$ 16.9431	$ 1.5000	$ 5.6289	$ 11.1894
40	$ 1.5000	$ 5.1895	$ 11.7001	$ 1.5000	$ 4.5491	$ 15.0575
41	$ 1.5000	$ 5.7671	$ 11.7414	$ 1.5000	$ 3.5903	$ 7.0205
42	$ 1.5000	$ 3.8297	$ 9.1526	$ 1.5000	$ 5.7370	$ 18.6000
43	$ 1.5000	$ 6.4971	$ 17.5900	$ 1.8066	$ 7.1031	$ 18.2500
44	$ 1.5000	$ 5.8774	$ 14.6297	$ 1.5000	$ 5.7868	$ 18.2500
45	$ 1.5808	$ 5.3865	$ 17.7800	$ 1.5000	$ 6.2321	$ 13.7731
46	$ 2.4400	$ 5.5767	$ 13.5731	$ 2.1554	$ 5.0292	$ 13.0871
47	$ 1.5000	$ 8.6072	$ 17.7900	$ 1.5000	$ 5.9934	$ 13.2010
48	$ 2.5951	$ 10.0130	$ 18.3800	$ 2.8887	$ 8.4575	$ 18.5300
49	$ 1.8175	$ 6.6979	$ 15.1820	$ 1.5018	$ 6.2150	$ 18.2500
50	$ 2.4069	$ 5.9118	$ 17.6984	$ 1.5000	$ 5.5046	$ 14.1527

	2035			2036		
Draw	Min	Average	Max	Min	Average	Max
51	$ 1.5000	$ 5.0554	$ 10.4301	$ 1.6259	$ 6.6846	$ 14.1115
52	$ 2.0385	$ 7.8089	$ 16.2479	$ 1.5000	$ 4.5793	$ 9.3368
53	$ 1.5000	$ 3.8080	$ 13.7043	$ 1.5000	$ 4.1384	$ 14.4704
54	$ 2.2343	$ 5.8361	$ 17.3700	$ 1.5000	$ 6.0591	$ 15.3378
55	$ 1.5000	$ 6.5099	$ 17.7900	$ 1.5000	$ 3.4011	$ 6.2893
56	$ 1.5000	$ 5.3594	$ 11.9239	$ 2.0176	$ 5.7259	$ 14.4010
57	$ 1.5000	$ 3.4892	$ 6.3566	$ 1.5000	$ 5.7161	$ 12.1559
58	$ 1.5000	$ 6.8313	$ 17.7200	$ 1.5000	$ 5.1720	$ 9.9944
59	$ 1.5000	$ 4.9582	$ 10.1824	$ 1.5000	$ 7.2777	$ 15.5119
60	$ 1.5000	$ 5.7965	$ 18.1300	$ 3.1236	$ 6.6988	$ 15.8226
61	$ 1.6100	$ 5.3992	$ 10.1017	$ 2.3668	$ 6.1722	$ 11.0917
62	$ 1.5000	$ 5.1467	$ 10.8749	$ 2.1142	$ 4.9952	$ 8.9281
63	$ 1.6952	$ 6.0617	$ 17.7900	$ 1.5000	$ 6.7145	$ 18.2500
64	$ 1.5000	$ 5.5327	$ 12.9262	$ 1.5000	$ 7.8294	$ 18.2500
65	$ 1.5000	$ 6.8734	$ 18.3800	$ 2.9704	$ 5.9536	$ 10.2373
66	$ 1.5000	$ 4.0840	$ 7.2513	$ 1.7896	$ 7.1809	$ 16.0908
67	$ 1.5000	$ 4.4366	$ 10.6270	$ 1.5000	$ 5.0754	$ 16.5057
68	$ 1.5000	$ 8.0505	$ 17.6900	$ 1.6304	$ 6.5928	$ 18.2500
69	$ 2.5058	$ 6.0650	$ 18.1300	$ 1.5000	$ 5.9955	$ 11.7734
70	$ 1.5000	$ 5.6484	$ 17.8800	$ 3.9273	$ 7.9494	$ 18.2500
71	$ 1.8506	$ 5.0422	$ 16.2838	$ 1.5251	$ 4.5186	$ 18.2500
72	$ 1.5000	$ 6.3334	$ 17.5900	$ 1.5000	$ 8.3237	$ 17.5429
73	$ 5.0033	$ 7.3424	$ 13.9891	$ 1.5000	$ 4.9471	$ 8.9307
74	$ 1.5000	$ 4.3648	$ 17.5900	$ 2.7600	$ 6.3135	$ 18.5300
75	$ 2.2417	$ 6.1998	$ 14.7634	$ 2.4211	$ 5.8594	$ 14.3350
76	$ 2.2604	$ 7.4714	$ 18.1300	$ 1.7078	$ 6.0568	$ 18.2500
77	$ 1.5000	$ 6.3686	$ 17.7800	$ 1.5000	$ 6.6742	$ 18.2500
78	$ 1.8285	$ 7.0738	$ 17.9500	$ 1.5000	$ 4.1334	$ 7.1936
79	$ 2.0798	$ 6.2395	$ 17.7200	$ 1.5000	$ 4.9721	$ 10.0492
80	$ 1.9324	$ 8.1393	$ 16.5115	$ 2.2407	$ 5.7233	$ 13.1977
81	$ 1.5000	$ 4.6510	$ 18.1300	$ 3.4393	$ 6.6104	$ 13.8467
82	$ 1.5000	$ 5.0040	$ 16.0704	$ 1.5000	$ 6.1247	$ 15.8759
83	$ 1.5000	$ 6.1659	$ 15.0769	$ 1.5000	$ 5.4805	$ 14.8669
84	$ 1.5000	$ 6.4639	$ 17.7900	$ 1.5000	$ 6.8695	$ 14.5320
85	$ 1.5000	$ 4.2423	$ 11.3829	$ 1.9224	$ 5.2850	$ 11.2621
86	$ 1.5000	$ 6.6388	$ 15.0525	$ 1.7756	$ 7.8318	$ 18.2500
87	$ 2.3768	$ 5.1816	$ 11.8430	$ 1.5000	$ 6.1992	$ 14.8518
88	$ 1.8220	$ 4.4771	$ 9.5660	$ 1.5000	$ 6.3289	$ 17.4868
89	$ 1.7527	$ 4.9502	$ 11.3733	$ 2.2327	$ 5.8747	$ 16.4337
90	$ 1.8239	$ 6.3621	$ 13.3589	$ 1.5000	$ 5.1476	$ 10.9558
91	$ 1.5000	$ 5.3064	$ 13.2895	$ 1.5000	$ 4.1296	$ 7.7503
92	$ 1.6216	$ 3.5763	$ 5.2652	$ 1.5000	$ 4.9162	$ 8.7101
93	$ 1.5000	$ 6.3689	$ 15.0842	$ 1.5000	$ 4.8623	$ 10.5595
94	$ 1.6786	$ 5.7328	$ 14.0772	$ 3.2666	$ 7.9529	$ 17.9099
95	$ 1.5000	$ 5.1790	$ 11.4911	$ 2.0249	$ 5.3956	$ 12.0342
96	$ 1.5000	$ 5.7337	$ 10.1181	$ 1.5000	$ 5.2261	$ 11.9318
97	$ 1.5000	$ 6.3288	$ 16.1206	$ 1.5000	$ 6.8541	$ 12.1244
98	$ 1.5000	$ 7.8825	$ 18.3800	$ 2.7599	$ 5.7821	$ 17.3221
99	$ 1.5000	$ 3.8297	$ 8.6229	$ 1.5000	$ 8.2591	$ 18.2500
100	$ 1.6665	$ 4.0261	$ 7.2381	$ 2.1602	$ 7.9151	$ 14.9062

	2035			2036		
Draw	Min	Average	Max	Min	Average	Max
101	$ 1.6991	$ 4.9956	$ 13.4602	$ 3.9400	$ 6.5484	$ 10.4713
102	$ 1.9913	$ 4.6179	$ 8.9620	$ 1.7848	$ 6.0329	$ 18.2500
103	$ 1.5000	$ 4.1526	$ 7.4794	$ 1.8909	$ 3.9749	$ 6.1263
104	$ 1.5896	$ 5.6596	$ 15.4480	$ 1.5680	$ 6.2069	$ 18.2500
105	$ 1.5000	$ 5.4564	$ 13.0862	$ 1.7958	$ 5.8352	$ 11.4091
106	$ 1.8227	$ 5.8249	$ 17.6900	$ 1.5449	$ 4.7187	$ 9.7718
107	$ 1.5000	$ 5.1316	$ 8.4876	$ 1.5000	$ 7.8208	$ 18.2500
108	$ 1.9075	$ 5.9429	$ 16.3496	$ 2.5824	$ 9.0972	$ 18.2500
109	$ 1.7028	$ 5.0737	$ 14.2133	$ 1.5789	$ 7.5303	$ 18.2500
110	$ 1.5000	$ 7.1677	$ 16.9069	$ 2.0401	$ 7.2466	$ 18.2500
111	$ 1.5000	$ 5.9499	$ 18.3800	$ 2.6280	$ 6.5780	$ 18.5300
112	$ 1.7005	$ 4.3985	$ 7.7757	$ 1.7583	$ 5.0934	$ 11.6891
113	$ 1.5000	$ 4.2946	$ 8.1107	$ 1.7604	$ 3.9857	$ 10.4917
114	$ 1.6111	$ 5.8509	$ 15.5499	$ 2.8240	$ 6.6868	$ 18.5300
115	$ 1.5000	$ 5.1449	$ 10.0684	$ 1.5000	$ 6.4145	$ 18.2500
116	$ 1.5000	$ 4.4521	$ 11.5791	$ 2.0566	$ 5.8921	$ 18.5300
117	$ 1.5000	$ 5.3004	$ 15.3700	$ 1.5000	$ 6.7467	$ 14.1465
118	$ 1.5000	$ 5.7824	$ 17.8600	$ 1.6713	$ 4.8244	$ 13.2300
119	$ 1.5000	$ 6.6619	$ 16.0231	$ 1.5000	$ 5.2635	$ 15.3806
120	$ 1.5000	$ 10.2802	$ 17.9500	$ 1.8060	$ 6.7648	$ 18.2500
121	$ 1.5112	$ 5.9005	$ 13.7342	$ 2.5235	$ 7.0680	$ 15.6992
122	$ 1.5000	$ 4.1997	$ 9.9364	$ 1.5000	$ 5.9295	$ 18.5300
123	$ 1.7537	$ 5.6683	$ 14.7067	$ 1.6933	$ 4.4124	$ 7.8139
124	$ 1.9886	$ 6.4220	$ 15.1165	$ 1.5000	$ 5.6973	$ 18.2500
125	$ 1.5000	$ 5.5736	$ 15.1120	$ 1.5000	$ 4.7483	$ 8.4558
126	$ 2.1527	$ 5.5861	$ 14.4641	$ 1.6636	$ 4.8347	$ 9.0871
127	$ 2.1937	$ 7.2764	$ 17.6900	$ 2.7756	$ 6.9488	$ 18.2500
128	$ 1.5000	$ 6.9362	$ 17.8600	$ 1.5000	$ 5.3042	$ 13.8580
129	$ 1.5000	$ 5.4601	$ 15.9141	$ 2.2025	$ 8.0204	$ 18.2500
130	$ 1.5000	$ 5.2928	$ 11.0385	$ 1.5000	$ 5.9974	$ 13.0445
131	$ 1.6337	$ 3.6282	$ 7.8522	$ 1.5000	$ 6.2138	$ 15.7398
132	$ 1.8646	$ 5.0578	$ 9.3436	$ 2.1825	$ 5.2907	$ 11.8626
133	$ 1.5000	$ 4.4083	$ 9.1142	$ 1.5000	$ 4.8109	$ 15.7303
134	$ 2.4761	$ 6.2732	$ 17.6900	$ 2.1436	$ 5.1666	$ 16.4764
135	$ 1.5000	$ 3.4515	$ 13.7647	$ 3.2038	$ 6.8855	$ 18.2500
136	$ 1.5000	$ 3.5582	$ 5.9209	$ 1.9582	$ 4.6556	$ 7.3568
137	$ 1.5000	$ 4.9441	$ 13.2346	$ 1.5000	$ 4.2049	$ 12.3825
138	$ 1.5000	$ 4.4186	$ 10.6709	$ 2.5419	$ 8.1591	$ 13.1658
139	$ 1.5000	$ 4.9479	$ 12.1609	$ 1.5000	$ 5.9871	$ 18.2500
140	$ 1.5000	$ 2.8688	$ 6.4148	$ 1.5550	$ 7.4558	$ 18.2500
141	$ 1.5000	$ 6.7797	$ 14.6746	$ 2.0560	$ 5.6031	$ 11.8779
142	$ 1.6314	$ 4.9442	$ 8.5844	$ 1.6712	$ 6.6405	$ 18.2500
143	$ 1.5000	$ 5.7717	$ 14.4348	$ 1.5000	$ 4.8105	$ 9.3566
144	$ 1.8590	$ 4.9892	$ 12.4469	$ 1.5000	$ 6.5408	$ 14.1557
145	$ 1.5000	$ 6.8511	$ 15.6006	$ 2.0340	$ 4.9657	$ 10.8833
146	$ 1.5000	$ 5.2338	$ 11.2720	$ 2.2764	$ 6.3778	$ 10.6886
147	$ 1.5000	$ 5.0235	$ 17.7900	$ 2.1104	$ 8.3128	$ 18.2500
148	$ 1.5185	$ 5.4861	$ 17.9500	$ 2.6181	$ 6.2942	$ 13.1342
149	$ 1.5000	$ 5.5710	$ 17.8600	$ 2.9949	$ 6.5228	$ 18.0835
150	$ 1.5000	$ 6.2202	$ 17.8800	$ 1.5000	$ 4.0362	$ 11.5842

	2035			2036		
Draw	Min	Average	Max	Min	Average	Max
151	$ 1.5000	$ 5.2974	$ 9.5188	$ 1.5000	$ 5.9200	$ 14.5338
152	$ 1.5000	$ 3.8937	$ 11.5947	$ 2.0496	$ 4.3247	$ 8.4011
153	$ 1.5000	$ 4.4744	$ 17.8800	$ 1.5000	$ 3.6968	$ 10.0218
154	$ 1.5000	$ 5.0364	$ 14.5090	$ 1.5000	$ 5.1474	$ 9.4858
155	$ 2.4269	$ 7.1548	$ 17.5900	$ 1.9738	$ 8.2424	$ 17.0567
156	$ 1.5000	$ 5.9450	$ 17.7800	$ 1.5000	$ 7.1998	$ 18.4900
157	$ 2.2659	$ 6.2028	$ 8.9857	$ 1.5000	$ 5.7265	$ 18.1711
158	$ 3.1544	$ 7.6891	$ 17.5422	$ 2.4409	$ 5.1797	$ 9.9312
159	$ 1.6193	$ 5.9360	$ 14.2612	$ 1.5000	$ 4.7209	$ 13.0707
160	$ 1.5000	$ 6.4861	$ 15.6516	$ 1.5000	$ 6.8270	$ 14.7514
161	$ 1.8404	$ 3.7198	$ 5.7085	$ 1.5000	$ 7.9919	$ 18.2500
162	$ 1.5000	$ 6.6182	$ 17.7800	$ 1.5000	$ 5.1711	$ 11.3811
163	$ 1.5229	$ 6.5589	$ 13.6171	$ 1.7743	$ 6.4797	$ 15.2545
164	$ 1.5372	$ 5.7117	$ 11.3390	$ 1.7030	$ 6.4748	$ 18.6000
165	$ 1.7237	$ 4.9678	$ 12.4577	$ 1.5000	$ 3.9612	$ 9.1765
166	$ 1.5000	$ 5.3066	$ 10.1407	$ 1.5000	$ 5.3284	$ 11.2923
167	$ 1.5000	$ 7.0747	$ 17.3700	$ 3.0435	$ 8.3914	$ 18.6000
168	$ 1.5000	$ 6.6619	$ 17.7200	$ 1.5885	$ 5.9506	$ 16.8864
169	$ 2.1009	$ 6.3309	$ 17.8600	$ 1.5000	$ 6.9549	$ 18.0857
170	$ 1.5000	$ 4.2286	$ 10.8403	$ 1.6497	$ 5.7843	$ 18.2500
171	$ 1.5000	$ 6.2129	$ 17.7190	$ 1.5000	$ 5.5714	$ 18.2500
172	$ 1.5000	$ 7.9365	$ 18.3800	$ 1.5000	$ 5.3065	$ 13.6866
173	$ 1.5000	$ 6.7850	$ 16.4969	$ 1.5000	$ 6.1804	$ 17.8651
174	$ 1.5520	$ 8.0931	$ 18.1300	$ 1.6303	$ 8.2709	$ 18.2500
175	$ 1.5000	$ 6.6571	$ 18.1300	$ 2.3519	$ 7.5068	$ 18.2500
176	$ 1.5000	$ 5.2163	$ 14.8194	$ 1.5000	$ 7.1795	$ 18.2500
177	$ 1.5000	$ 5.8802	$ 17.7900	$ 1.5000	$ 5.1488	$ 12.0615
178	$ 1.7848	$ 4.7285	$ 11.8367	$ 1.5000	$ 3.9190	$ 7.1304
179	$ 1.9990	$ 6.3237	$ 14.0793	$ 1.5000	$ 3.7391	$ 7.4829
180	$ 1.5000	$ 5.5389	$ 17.5900	$ 1.5000	$ 5.9894	$ 15.4595
181	$ 1.5000	$ 7.3781	$ 18.3800	$ 1.5000	$ 6.4034	$ 15.3461
182	$ 1.6998	$ 4.1400	$ 8.7485	$ 1.7219	$ 6.2987	$ 15.3622
183	$ 2.4914	$ 5.2065	$ 13.4377	$ 1.5000	$ 5.5628	$ 11.9941
184	$ 1.5000	$ 6.7920	$ 18.3800	$ 1.5000	$ 3.9600	$ 9.3196
185	$ 2.4241	$ 5.6026	$ 8.6616	$ 2.8373	$ 7.4356	$ 18.2500
186	$ 1.5000	$ 5.5192	$ 13.7779	$ 1.7113	$ 6.2577	$ 14.7461
187	$ 1.9382	$ 7.1023	$ 12.6592	$ 1.7307	$ 9.2912	$ 18.4900
188	$ 1.9791	$ 4.6630	$ 9.3037	$ 1.5000	$ 4.7061	$ 14.5645
189	$ 1.5112	$ 4.0224	$ 8.7085	$ 1.5401	$ 6.8940	$ 16.1165
190	$ 1.5000	$ 6.9440	$ 18.1300	$ 1.5487	$ 5.0708	$ 10.7152
191	$ 1.5000	$ 5.2794	$ 16.9588	$ 1.5000	$ 4.6889	$ 10.0753
192	$ 1.5000	$ 6.6553	$ 17.7800	$ 1.9417	$ 5.5062	$ 15.6284
193	$ 1.5000	$ 5.0183	$ 17.5900	$ 1.5000	$ 6.3671	$ 15.2976
194	$ 1.5000	$ 6.0148	$ 17.5900	$ 1.5000	$ 5.1841	$ 18.2500
195	$ 1.5000	$ 4.2644	$ 10.5997	$ 3.2348	$ 7.5297	$ 18.2500
196	$ 1.5000	$ 5.5234	$ 17.7900	$ 1.8712	$ 8.5217	$ 18.4900
197	$ 1.5000	$ 6.2078	$ 17.7800	$ 2.2661	$ 10.7919	$ 18.2500
198	$ 1.5000	$ 5.6161	$ 15.2525	$ 2.0942	$ 6.8482	$ 18.2500
199	$ 2.5785	$ 6.6383	$ 15.8376	$ 1.6936	$ 7.0519	$ 18.2500
200	$ 1.5000	$ 5.0027	$ 15.2667	$ 1.5000	$ 4.7897	$ 11.6013
Min	$ 1.5000	$ 2.8688	$ 4.9932	$ 1.5000	$ 3.4011	$ 6.1263
Ave	$ 1.6960	$ 5.7046	$ 14.0841	$ 1.8151	$ 6.0102	$ 14.5107
Max	$ 5.0033	$ 10.2802	$ 18.3800	$ 3.9400	$ 10.7919	$ 18.6000

Appendix H

Avoided Cost Calculations

UG-160453

Avoided Costs by Conservation Zone (9/30/2016 draft 2016 IRP), cost per therm

Year	Zone 1 Avoided Cost	Zone 2 Avoided Cost	Zone 3 Avoided Cost	Washington Avoided Cost	Oregon Avoided Cost	System Avoided Cost
2017	$ 0.542800	$ 0.494000	$ 0.522900	$ 0.524500	$ 0.512200	$ 0.521500
2018	$ 0.518900	$ 0.507000	$ 0.522100	$ 0.517600	$ 0.510900	$ 0.515900
2019	$ 0.525200	$ 0.490000	$ 0.512600	$ 0.512700	$ 0.506700	$ 0.511200
2020	$ 0.523200	$ 0.483400	$ 0.504500	$ 0.507300	$ 0.494300	$ 0.504100
2021	$ 0.536300	$ 0.494300	$ 0.511500	$ 0.517600	$ 0.500000	$ 0.513200
2022	$ 0.557300	$ 0.518800	$ 0.527300	$ 0.537300	$ 0.518200	$ 0.532500
2023	$ 0.557600	$ 0.503400	$ 0.518200	$ 0.530500	$ 0.503300	$ 0.523700
2024	$ 0.576600	$ 0.515900	$ 0.537100	$ 0.548100	$ 0.524300	$ 0.542100
2025	$ 0.580000	$ 0.523200	$ 0.537700	$ 0.551200	$ 0.523900	$ 0.544300
2026	$ 0.576600	$ 0.528400	$ 0.542700	$ 0.553000	$ 0.525600	$ 0.546000
2027	$ 0.591100	$ 0.539000	$ 0.554200	$ 0.565500	$ 0.534000	$ 0.557400
2028	$ 0.616300	$ 0.561800	$ 0.572500	$ 0.587500	$ 0.549000	$ 0.577700
2029	$ 0.628500	$ 0.551000	$ 0.571000	$ 0.589500	$ 0.547100	$ 0.578600
2030	$ 0.653400	$ 0.568700	$ 0.595700	$ 0.612800	$ 0.569000	$ 0.601500
2031	$ 0.668600	$ 0.605700	$ 0.609900	$ 0.632200	$ 0.579200	$ 0.618500
2032	$ 0.669400	$ 0.612300	$ 0.607400	$ 0.633000	$ 0.575000	$ 0.618000
2033	$ 0.694800	$ 0.641600	$ 0.635900	$ 0.660400	$ 0.599900	$ 0.644700
2034	$ 0.679800	$ 0.673500	$ 0.637600	$ 0.661900	$ 0.598400	$ 0.645300
2035	$ 0.691800	$ 0.675400	$ 0.646600	$ 0.670600	$ 0.604100	$ 0.653200
2036	$ 0.710600	$ 0.647200	$ 0.665400	$ 0.679600	$ 0.627300	$ 0.665900
2037	$ 0.717706	$ 0.653672	$ 0.672054	$ 0.686396	$ 0.633573	$ 0.672559
2037	$ 0.724883	$ 0.660209	$ 0.678775	$ 0.693260	$ 0.639909	$ 0.679285
2038	$ 0.732132	$ 0.666811	$ 0.685562	$ 0.700193	$ 0.646308	$ 0.686077
2039	$ 0.739453	$ 0.673479	$ 0.692418	$ 0.707194	$ 0.652771	$ 0.692938
2040	$ 0.746848	$ 0.680214	$ 0.699342	$ 0.714266	$ 0.659299	$ 0.699868
2041	$ 0.754316	$ 0.687016	$ 0.706336	$ 0.721409	$ 0.665892	$ 0.706866
2042	$ 0.761859	$ 0.693886	$ 0.713399	$ 0.728623	$ 0.672551	$ 0.713935
2043	$ 0.769478	$ 0.700825	$ 0.720533	$ 0.735909	$ 0.679276	$ 0.721074
2044	$ 0.777173	$ 0.707833	$ 0.727738	$ 0.743269	$ 0.686069	$ 0.728285
2045	$ 0.784944	$ 0.714911	$ 0.735016	$ 0.750701	$ 0.692929	$ 0.735568
2046	$ 0.792794	$ 0.722061	$ 0.742366	$ 0.758208	$ 0.699859	$ 0.742924
2047	$ 0.800722	$ 0.729281	$ 0.749789	$ 0.765790	$ 0.706857	$ 0.750353
2048	$ 0.808729	$ 0.736574	$ 0.757287	$ 0.773448	$ 0.713926	$ 0.757856
2049	$ 0.816816	$ 0.743940	$ 0.764860	$ 0.781183	$ 0.721065	$ 0.765435
2050	$ 0.824985	$ 0.751379	$ 0.772509	$ 0.788995	$ 0.728276	$ 0.773089
2051	$ 0.833234	$ 0.758893	$ 0.780234	$ 0.796884	$ 0.735559	$ 0.780820
2052	$ 0.841567	$ 0.766482	$ 0.788036	$ 0.804853	$ 0.742914	$ 0.788628
2053	$ 0.849982	$ 0.774147	$ 0.795917	$ 0.812902	$ 0.750343	$ 0.796515
2054	$ 0.858482	$ 0.781888	$ 0.803876	$ 0.821031	$ 0.757847	$ 0.804480
2055	$ 0.867067	$ 0.789707	$ 0.811914	$ 0.829241	$ 0.765425	$ 0.812525
2056	$ 0.875738	$ 0.797604	$ 0.820034	$ 0.837534	$ 0.773079	$ 0.820650
2057	$ 0.884495	$ 0.805580	$ 0.828234	$ 0.845909	$ 0.780810	$ 0.828856
2058	$ 0.893340	$ 0.813636	$ 0.836516	$ 0.854368	$ 0.788618	$ 0.837145
2059	$ 0.902273	$ 0.821772	$ 0.844881	$ 0.862912	$ 0.796505	$ 0.845516
2060	$ 0.911296	$ 0.829990	$ 0.853330	$ 0.871541	$ 0.804470	$ 0.853971
	$ 0.71931	**$ 0.65770**	**$ 0.67364**	**$ 0.68842**	**$ 0.63992**	**$ 0.67579**
Minimum	$ 0.518900	$ 0.483400	$ 0.504500	$ 0.507300	$ 0.494300	$ 0.504100
Maximum	$ 0.710600	$ 0.675400	$ 0.665400	$ 0.679600	$ 0.627300	$ 0.665900

Inflation Rate	1.000%	2035	2061
Long Term Discount Rate (30yr mortgage rate)	3.520%	$ 0.65	$ 0.85
Revised Inflation Rate	0.000%		
Years 21-45 Escalation =	1.00%		

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Category	1	2	3	4	5	6	7	8	9	10
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.503750	$ 0.48145	$ 0.46083	$ 0.43894	$ 0.43165	$ 0.43266	$ 0.41103	$ 0.41105	$ 0.39868	$ 0.38634
Nominal Cost Per Therm	$ 0.521500	$ 0.52	$ 0.51	$ 0.50	$ 0.51	$ 0.53	$ 0.52	$ 0.54	$ 0.54	$ 0.55
Verification	$ 0.503767	$ 0.48	$0.4608	$0.4390	$0.4317	$0.4327	$0.4111	$0.4110	$0.3987	$0.3863
Resource Portfolio Cost - % Change		-1.07%	-0.91%	-1.39%	1.81%	3.76%	-1.65%	3.51%	0.41%	0.31%
PV of Resource Portfolio Cost/Therm	$ 0.521500	$ 1.04	$ 1.55	$ 2.05	$ 2.57	$ 3.10	$ 3.62	$ 4.16	$ 4.71	$ 5.25
Portfolio Costs with 10% Conservation Credit	$ 0.573650	$1.14	$1.70	$2.26	$2.82	$3.41	$3.98	$4.58	$5.18	$5.78
Cost-Effectiveness Limit	$ 0.579387	$0.5791	$0.5792	$0.5787	$0.5815	$0.5881	$0.5922	$0.5986	$0.6046	$0.6103

* 2016 IRP Expected Scenario

AVOIDED COST ESTIMATES
EXPECTED SCENARIO - SYSTEM
45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	RESOURCE PORTFOLIO COST - % CHANGE	PV OF RESOURCE PORTFOLIO COST/THERM	Non-Energy Benefits %	PORTFOLIO COSTS INCLUDING CONSERVATION CREDIT	COST-EFFECTIVENESS LIMIT
2017	1	$ 0.50	$ 0.52		$ 0.52	5%	$ 0.5476	$0.5704
2018	2	$ 0.48	$ 0.52	-1.07%	$ 1.04	5%	$ 1.0893	$0.5789
2019	3	$ 0.46	$ 0.51	-0.91%	$ 1.55	5%	$ 1.6260	$0.5878
2020	4	$ 0.44	$ 0.50	-1.39%	$ 2.05	5%	$ 2.1553	$0.5962
2021	**5**	**$ 0.43**	**$ 0.51**	**1.81%**	**$ 2.57**	7.5%	**$ 2.7583**	$0.6226
2022	6	$ 0.43	$ 0.53	3.76%	$ 3.10	7.5%	$ 3.3308	$0.6389
2023	7	$ 0.41	$ 0.52	-1.65%	$ 3.62	7.5%	$ 3.8938	$0.6528
2024	8	$ 0.41	$ 0.54	3.51%	$ 4.16	7.5%	$ 4.4765	$0.6696
2025	9	$ 0.40	$ 0.54	0.41%	$ 4.71	7.5%	$ 5.0616	$0.6860
2026	**10**	**$ 0.39**	**$ 0.55**	**0.31%**	**$ 5.25**	10.0%	**$ 5.7800**	$0.7187
2027	11	$ 0.38	$ 0.56	2.09%	$ 5.81	10%	$ 6.3931	$0.7365
2028	12	$ 0.38	$ 0.58	3.64%	$ 6.39	10%	$ 7.0286	$0.7563
2029	13	$ 0.37	$ 0.58	0.16%	$ 6.97	10%	$ 7.6650	$0.7757
2030	14	$ 0.37	$ 0.60	3.96%	$ 7.57	10%	$ 8.3267	$0.7971
2031	15	$ 0.37	$ 0.62	2.83%	$ 8.19	12.5%	$ 9.2117	$0.8384
2032	16	$ 0.36	$ 0.62	-0.08%	$ 8.81	12.5%	$ 9.9070	$0.8609
2033	17	$ 0.36	$ 0.64	4.32%	$ 9.45	12.5%	$ 10.6323	$0.8855
2034	18	$ 0.35	$ 0.65	0.09%	$ 10.10	12.5%	$ 11.3582	$0.9097
2035	19	$ 0.34	$ 0.65	1.22%	$ 10.75	12.5%	$ 12.0931	$0.9341
2036	**20**	**$ 0.33**	**$ 0.67**	**1.94%**	**$ 11.42**	12.5%	**$ 12.8422**	$0.9592
2037	21	$ 0.33	$ 0.67	1.00%	$ 12.09	15%	$ 13.9010	$1.0064
2038	22	$ 0.32	$ 0.68	1.00%	$ 12.77	15%	$ 14.6822	$1.0326
2039	23	$ 0.31	$ 0.69	1.00%	$ 13.45	15%	$ 15.4712	$1.0590
2040	24	$ 0.30	$ 0.69	1.00%	$ 14.15	15%	$ 16.2681	$1.0856
2041	25	$ 0.29	$ 0.70	1.00%	$ 14.85	15%	$ 17.0729	$1.1126
2042	26	$ 0.29	$ 0.71	1.00%	$ 15.55	17.5%	$ 18.2746	$1.1647
2043	27	$ 0.28	$ 0.71	1.00%	$ 16.27	17.5%	$ 19.1135	$1.1929
2044	28	$ 0.27	$ 0.72	1.00%	$ 16.99	17.5%	$ 19.9608	$1.2215
2045	29	$ 0.27	$ 0.73	1.00%	$ 17.72	17.5%	$ 20.8165	$1.2505
2046	**30**	**$ 0.26**	**$ 0.74**	**1.00%**	**$ 18.45**	**17.5%**	**$ 21.6808**	$1.2798
2047	31	$ 0.25	$ 0.74	1.00%	$ 19.19	20%	$ 23.0336	$1.3374
2048	32	$ 0.25	$ 0.75	1.00%	$ 19.95	20%	$ 23.9340	$1.3682
2049	33	$ 0.24	$ 0.76	1.00%	$ 20.70	20%	$ 24.8435	$1.3994
2050	34	$ 0.24	$ 0.77	1.00%	$ 21.47	20%	$ 25.7620	$1.4311
2051	35	$ 0.23	$ 0.77	1.00%	$ 22.24	20%	$ 26.6897	$1.4631
2052	36	$ 0.22	$ 0.78	1.00%	$ 23.02	20%	$ 27.6267	$1.4957
2053	37	$ 0.22	$ 0.79	1.00%	$ 23.81	20%	$ 28.5730	$1.5287
2054	38	$ 0.21	$ 0.80	1.00%	$ 24.61	20%	$ 29.5289	$1.5621
2055	39	$ 0.21	$ 0.80	1.00%	$ 25.41	20%	$ 30.4942	$1.5960
2056	**40**	**$ 0.20**	**$ 0.81**	**1.00%**	**$ 26.22**	20%	**$ 31.4693**	$1.6304
2057	41	$ 0.20	$ 0.82	1.00%	$ 27.05	20%	$ 32.4540	$1.6652
2058	42	$ 0.19	$ 0.83	1.00%	$ 27.87	20%	$ 33.4487	$1.7006
2059	43	$ 0.19	$ 0.84	1.00%	$ 28.71	20%	$ 34.4532	$1.7364
2060	44	$ 0.18	$ 0.85	1.00%	$ 29.56	20%	$ 35.4679	$1.7728
2061	45	$ 0.18	$ 0.85	1.00%	$ 30.41	20%	$ 36.4926	$1.8096
		$ 0.31	$ 0.676	$ 0.01	$ 14.14			

Inflation Rate	1.000%
Long Term Discount Rate (30yr r	3.520%
Years 21-45 Escalation =	1.00% (EIA Inflation Rate)

Conservation Credit % attempts to recognize non-quantifiable benefits associated with conservation, including benefits of price certainty & hedge against future carbon costs

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Category	11	12	13	14	15	16	17	18	19	20	21	22
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.38101	$ 0.38140	$ 0.36902	$ 0.37060	$ 0.36813	$ 0.35528	$ 0.35806	$ 0.34622	$ 0.33853	$ 0.33335	$ 0.33	$ 0.32
Nominal Cost Per Therm	$ 0.56	$ 0.58	$ 0.58	$ 0.60	$ 0.62	$ 0.62	$ 0.64	$ 0.65	$ 0.65	$ 0.67	$ 0.67	$ 0.68
Verification	$0.3810	$0.3814	$0.3690	$0.3706	$0.3681	$0.3553	$0.3581	$0.3462	$0.3385	$0.3334	$0.3253	$0.3173
Resource Portfolio Cost - % Change	2.09%	3.64%	0.16%	3.96%	2.83%	-0.08%	4.32%	0.09%	1.22%	1.94%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 5.81	$ 6.39	$ 6.97	$ 7.57	$ 8.19	$ 8.81	$ 9.45	$ 10.10	$ 10.75	$ 11.42	$ 12.09	$ 12.77
Portfolio Costs with 10% Conservation Credit	$6.39	$7.03	$7.67	$8.33	$9.01	$9.69	$10.40	$11.11	$11.82	$12.56	$13.30	$14.04
Cost-Effectiveness Limit	$0.6166	$0.6245	$0.6317	$0.6403	$0.6496	$0.6582	$0.6680	$0.6773	$0.6864	$0.6958	$0.7051	$0.7143

* 2016 IRP Expected Scenario

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Category	23	24	25	26	27	28	29	30	31	32	33	34
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.24
Nominal Cost Per Therm	$ 0.69	$ 0.69	$ 0.70	$ 0.71	$ 0.71	$ 0.72	$ 0.73	$ 0.74	$ 0.74	$ 0.75	$ 0.76	$ 0.77
Verification	$0.3096	$0.3021	$0.2947	$0.2875	$0.2805	$0.2737	$0.2671	$0.2606	$0.2542	$0.2480	$0.2420	$0.2361
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 13.45	$ 14.15	$ 14.85	$ 15.55	$ 16.27	$ 16.99	$ 17.72	$ 18.45	$ 19.19	$ 19.95	$ 20.70	$ 21.47
Portfolio Costs with 10% Conservation Credit	$14.80	$15.56	$16.33	$17.11	$17.89	$18.69	$19.49	$20.30	$21.11	$21.94	$22.77	$23.62
Cost-Effectiveness Limit	$0.7234	$0.7325	$0.7415	$0.7505	$0.7595	$0.7685	$0.7775	$0.7865	$0.7955	$0.8045	$0.8136	$0.8228

* 2016 IRP Expected Scenario

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Category	35	36	37	38	39	40	41	42	43	44	45
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18
Nominal Cost Per Therm	$ 0.77	$ 0.78	$ 0.79	$ 0.80	$ 0.80	$ 0.81	$ 0.82	$ 0.83	$ 0.84	$ 0.85	$ 0.85
Verification	$0.2303	$0.2247	$0.2193	$0.2139	$0.2087	$0.2036	$0.1987	$0.1938	$0.1891	$0.1845	$0.1800
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 22.24	$ 23.02	$ 23.81	$ 24.61	$ 25.41	$ 26.22	$ 27.05	$ 27.87	$ 28.71	$ 29.56	$ 30.41
Portfolio Costs with 10% Conservation Credit	$24.47	$25.32	$26.19	$27.07	$27.95	$28.85	$29.75	$30.66	$31.58	$32.51	$33.45
Cost-Effectiveness Limit	$0.8319	$0.8411	$0.8504	$0.8597	$0.8691	$0.8785	$0.8881	$0.8976	$0.9073	$0.9170	$0.9268

* 2016 IRP Expected Scenario

Inflation Rate	1.000%
IRP Discount Rate =	3.520%
Revised Discount Rate=	0.000%
Years 21-45 Escalation =	1.000% (EIA Inflation Rate)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Category	1	2	3	4	5	6	7	8	9	10
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.50	$ 0.48	$ 0.46	$ 0.44	$ 0.43	$ 0.43	$ 0.41	$ 0.41	$ 0.40	$ 0.39
Nominal Cost Per Therm	$ 0.52	$ 0.52	$ 0.51	$ 0.50	$ 0.51	$ 0.53	$ 0.52	$ 0.54	$ 0.54	$ 0.55
Verification	$ 0.50	$ 0.48	$ 0.46	$ 0.44	$ 0.43	$ 0.43	$ 0.41	$ 0.41	$ 0.40	$ 0.39
Resource Portfolio Cost - % Change		-1.07%	-0.91%	-1.39%	1.81%	3.76%	-1.65%	3.51%	0.41%	0.31%
PV of Resource Portfolio Cost/Therm	$ 0.52	$ 1.04	$ 1.55	$ 2.05	$ 2.57	$ 3.10	$ 3.62	$ 4.16	$ 4.71	$ 5.25
Portfolio Costs with 10% Conservation Credit	$ 0.57	$1.14	$1.70	$2.26	$2.82	$3.41	$3.98	$4.58	$5.18	$5.78
Cost-Effectiveness Limit	$ 0.58	$0.5791	$0.5792	$0.5787	$0.5815	$0.5881	$0.5922	$0.5986	$0.6046	$0.6103

* 2016 IRP Expected Scenario

AVOIDED COST ESTIMATES
EXPECTED SCENARIO (utilzing Carbon 1)
45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	RESOURCE PORTFOLIO COST - % CHANGE	PV OF RESOURCE PORTFOLIO COST/THERM	Non-Energy Benefits %	PORTFOLIO COSTS INCLUDING CONSERVATION CREDIT	COST-EFFECTIVENESS LIMIT
2017	1	$ 0.50	$ 0.52		$ 0.52	10.0%	$ 0.5737	$0.5976
2018	2	$ 0.48	$ 0.52	-1.07%	$ 1.04	10.0%	$ 1.1411	$0.6065
2019	3	$ 0.46	$ 0.51	-0.91%	$ 1.55	10.0%	$ 1.7035	$0.6158
2020	4	$ 0.44	$ 0.50	-1.39%	$ 2.05	10.0%	$ 2.2580	$0.6245
2021	**5**	**$ 0.43**	**$ 0.51**	**1.81%**	**$ 2.57**	10.0%	**$ 2.8225**	$0.6370
2022	6	$ 0.43	$ 0.53	3.76%	$ 3.10	10.0%	$ 3.4082	$0.6538
2023	7	$ 0.41	$ 0.52	-1.65%	$ 3.62	10.0%	$ 3.9843	$0.6680
2024	8	$ 0.41	$ 0.54	3.51%	$ 4.16	10.0%	$ 4.5806	$0.6851
2025	9	$ 0.40	$ 0.54	0.41%	$ 4.71	10.0%	$ 5.1794	$0.7020
2026	**10**	**$ 0.39**	**$ 0.55**	**0.31%**	**$ 5.25**	10.0%	**$ 5.7800**	$0.7187
2027	11	$ 0.38	$ 0.56	2.09%	$ 5.81	10.0%	$ 6.3931	$0.7365
2028	12	$ 0.38	$ 0.58	3.64%	$ 6.39	10.0%	$ 7.0286	$0.7563
2029	13	$ 0.37	$ 0.58	0.16%	$ 6.97	10.0%	$ 7.6650	$0.7757
2030	14	$ 0.37	$ 0.60	3.96%	$ 7.57	10.0%	$ 8.3267	$0.7971
2031	15	$ 0.37	$ 0.62	2.83%	$ 8.19	10.0%	$ 9.0070	$0.8198
2032	16	$ 0.36	$ 0.62	-0.08%	$ 8.81	10.0%	$ 9.6868	$0.8418
2033	17	$ 0.36	$ 0.64	4.32%	$ 9.45	10.0%	$ 10.3960	$0.8658
2034	18	$ 0.35	$ 0.65	0.09%	$ 10.10	10.0%	$ 11.1058	$0.8895
2035	19	$ 0.34	$ 0.65	1.22%	$ 10.75	10.0%	$ 11.8243	$0.9133
2036	**20**	**$ 0.33**	**$ 0.67**	**1.94%**	**$ 11.42**	10.0%	**$ 12.5568**	$0.9379
2037	21	$ 0.33	$ 0.67	1.00%	$ 12.09	10.0%	$ 13.2966	$0.9627
2038	22	$ 0.32	$ 0.68	1.00%	$ 12.77	10.0%	$ 14.0439	$0.9877
2039	23	$ 0.31	$ 0.69	1.00%	$ 13.45	10.0%	$ 14.7985	$1.0129
2040	24	$ 0.30	$ 0.69	1.00%	$ 14.15	10.0%	$ 15.5608	$1.0384
2041	25	$ 0.29	$ 0.70	1.00%	$ 14.85	10.0%	$ 16.3306	$1.0642
2042	26	$ 0.29	$ 0.71	1.00%	$ 15.55	10.0%	$ 17.1082	$1.0903
2043	27	$ 0.28	$ 0.71	1.00%	$ 16.27	10.0%	$ 17.8935	$1.1168
2044	28	$ 0.27	$ 0.72	1.00%	$ 16.99	10.0%	$ 18.6867	$1.1435
2045	29	$ 0.27	$ 0.73	1.00%	$ 17.72	10.0%	$ 19.4878	$1.1706
2046	**30**	**$ 0.26**	**$ 0.74**	**1.00%**	**$ 18.45**	10.0%	**$ 20.2969**	$1.1981
2047	31	$ 0.25	$ 0.74	1.00%	$ 19.19	10.0%	$ 21.1141	$1.2260
2048	32	$ 0.25	$ 0.75	1.00%	$ 19.95	10.0%	$ 21.9395	$1.2542
2049	33	$ 0.24	$ 0.76	1.00%	$ 20.70	10.0%	$ 22.7732	$1.2828
2050	34	$ 0.24	$ 0.77	1.00%	$ 21.47	10.0%	$ 23.6152	$1.3118
2051	35	$ 0.23	$ 0.77	1.00%	$ 22.24	10.0%	$ 24.4656	$1.3412
2052	36	$ 0.22	$ 0.78	1.00%	$ 23.02	10.0%	$ 25.3245	$1.3710
2053	37	$ 0.22	$ 0.79	1.00%	$ 23.81	10.0%	$ 26.1919	$1.4013
2054	38	$ 0.21	$ 0.80	1.00%	$ 24.61	10.0%	$ 27.0681	$1.4319
2055	39	$ 0.21	$ 0.80	1.00%	$ 25.41	10.0%	$ 27.9530	$1.4630
2056	**40**	**$ 0.20**	**$ 0.81**	**1.00%**	**$ 26.22**	10.0%	**$ 28.8468**	$1.4945
2057	41	$ 0.20	$ 0.82	1.00%	$ 27.05	10.0%	$ 29.7495	$1.5265
2058	42	$ 0.19	$ 0.83	1.00%	$ 27.87	10.0%	$ 30.6613	$1.5589
2059	43	$ 0.19	$ 0.84	1.00%	$ 28.71	10.0%	$ 31.5821	$1.5917
2060	44	$ 0.18	$ 0.85	1.00%	$ 29.56	10.0%	$ 32.5122	$1.6250
2061	45	$ 0.18	$ 0.85	1.00%	$ 30.41	10.0%	$ 33.4516	$1.6588

Cascade's Long Term Real Discount Rate:	1.000%
IRP Discount Rate =	3.520%
Years 21-45 Escalation =	1.00% (EIA Inflation Rate)

Conservation Credit % attempts to recognize non-quantifiable benefits associated with conservation, including benefits of price certainty & hedge against future carbon costs
Carbon estimated at $15/ton, applies to Natural Gas 2021

Inflation Rate
IRP Discount Rate =
Revised Discount Rate=
Years 21-45 Escalation =

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Category	11	12	13	14	15	16	17	18	19	20	21	22
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.38	$ 0.38	$ 0.37	$ 0.37	$ 0.37	$ 0.36	$ 0.36	$ 0.35	$ 0.34	$ 0.33	$ 0.33	$ 0.32
Nominal Cost Per Therm	$ 0.56	$ 0.58	$ 0.58	$ 0.60	$ 0.62	$ 0.62	$ 0.64	$ 0.65	$ 0.65	$ 0.67	$ 0.67	$ 0.68
Verification	$ 0.38	$ 0.38	$ 0.37	$ 0.37	$ 0.37	$ 0.36	$ 0.36	$ 0.35	$ 0.34	$ 0.33	$ 0.33	$ 0.32
Resource Portfolio Cost - % Change	2.09%	3.64%	0.16%	3.96%	2.83%	-0.08%	4.32%	0.09%	1.22%	1.94%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 5.81	$ 6.39	$ 6.97	$ 7.57	$ 8.19	$ 8.81	$ 9.45	$ 10.10	$ 10.75	$ 11.42	$ 12.09	$ 12.77
Portfolio Costs with 10% Conservation Credit	$6.39	$7.03	$7.67	$8.33	$9.01	$9.69	$10.40	$11.11	$11.82	$12.56	$13.30	$14.04
Cost-Effectiveness Limit	$0.6166	$0.6245	$0.6317	$0.6403	$0.6496	$0.6582	$0.6680	$0.6773	$0.6864	$0.6958	$0.7051	$0.7143

* 2016 IRP Expected Scenario

Inflation Rate
IRP Discount Rate =
Revised Discount Rate=
Years 21-45 Escalation =

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Category	23	24	25	26	27	28	29	30	31	32	33	34
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.24
Nominal Cost Per Therm	$ 0.69	$ 0.69	$ 0.70	$ 0.71	$ 0.71	$ 0.72	$ 0.73	$ 0.74	$ 0.74	$ 0.75	$ 0.76	$ 0.77
Verification	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.24
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 13.45	$ 14.15	$ 14.85	$ 15.55	$ 16.27	$ 16.99	$ 17.72	$ 18.45	$ 19.19	$ 19.95	$ 20.70	$ 21.47
Portfolio Costs with 10% Conservation Credit	$14.80	$15.56	$16.33	$17.11	$17.89	$18.69	$19.49	$20.30	$21.11	$21.94	$22.77	$23.62
Cost-Effectiveness Limit	$0.7234	$0.7325	$0.7415	$0.7505	$0.7595	$0.7685	$0.7775	$0.7865	$0.7955	$0.8045	$0.8136	$0.8228

* 2016 IRP Expected Scenario

Inflation Rate
IRP Discount Rate =
Revised Discount Rate=
Years 21-45 Escalation =

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Category	35	36	37	38	39	40	41	42	43	44	45
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18
Nominal Cost Per Therm	$ 0.77	$ 0.78	$ 0.79	$ 0.80	$ 0.80	$ 0.81	$ 0.82	$ 0.83	$ 0.84	$ 0.85	$ 0.85
Verification	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 22.24	$ 23.02	$ 23.81	$ 24.61	$ 25.41	$ 26.22	$ 27.05	$ 27.87	$ 28.71	$ 29.56	$ 30.41
Portfolio Costs with 10% Conservation Credit	$24.47	$25.32	$26.19	$27.07	$27.95	$28.85	$29.75	$30.66	$31.58	$32.51	$33.45
Cost-Effectiveness Limit	$0.8319	$0.8411	$0.8504	$0.8597	$0.8691	$0.8785	$0.8881	$0.8976	$0.9073	$0.9170	$0.9268

* 2016 IRP Expected Scenario

Inflation Rate 1.000%
IRP Discount Rate = 3.520%
Years 21-45 Escalation = 1.000% (EIA Inflation Rate)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Category	1	2	3	4	5	6	7	8	9	10
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.50	$ 0.48	$ 0.46	$ 0.44	$ 0.43	$ 0.43	$ 0.41	$ 0.41	$ 0.40	$ 0.39
Nominal Cost Per Therm	$ 0.52	$ 0.52	$ 0.51	$ 0.50	$ 0.51	$ 0.53	$ 0.52	$ 0.54	$ 0.54	$ 0.55
Verification	$ 0.50	$ 0.48	$ 0.46	$ 0.44	$ 0.43	$ 0.43	$ 0.41	$ 0.41	$ 0.40	$ 0.39
Resource Portfolio Cost - % Change		-1.07%	-0.91%	-1.39%	1.81%	3.76%	-1.65%	3.51%	0.41%	0.31%
PV of Resource Portfolio Cost/Therm	$ 0.52	$ 1.04	$ 1.55	$ 2.05	$ 2.57	$ 3.10	$ 3.62	$ 4.16	$ 4.71	$ 5.25
Portfolio Costs with 10% Conservation Credit	$ 0.57	$1.14	$1.70	$2.26	$2.82	$3.41	$3.98	$4.58	$5.18	$5.78
Cost-Effectiveness Limit	$ 0.58	$0.5791	$0.5792	$0.5787	$0.5815	$0.5881	$0.5922	$0.5986	$0.6046	$0.6103

* 2016 IRP Expected Scenario

AVOIDED COST ESTIMATES
EXPECTED SCENARIO utilizing Carbon 2
45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	RESOURCE PORTFOLIO COST - % CHANGE	PV OF RESOURCE PORTFOLIO COST/THERM	Non-Energy Benefits %	PORTFOLIO COSTS INCLUDING CONSERVATION CREDIT	COST-EFFECTIVENESS LIMIT
2017	1	$ 0.50	$ 0.52		$ 0.52	20%	$ 0.6258	$0.6519
2018	2	$ 0.48	$ 0.52	-1.07%	$ 1.04	20%	$ 1.2449	$0.6616
2019	3	$ 0.46	$ 0.51	-0.91%	$ 1.55	20%	$ 1.8583	$0.6718
2020	4	$ 0.44	$ 0.50	-1.39%	$ 2.05	20%	$ 2.4632	$0.6813
2021	**5**	**$ 0.43**	**$ 0.51**	**1.81%**	**$ 2.57**	20%	**$ 3.0791**	$0.6950
2022	6	$ 0.43	$ 0.53	3.76%	$ 3.10	20%	$ 3.7181	$0.7132
2023	7	$ 0.41	$ 0.52	-1.65%	$ 3.62	20%	$ 4.3465	$0.7287
2024	8	$ 0.41	$ 0.54	3.51%	$ 4.16	20%	$ 4.9970	$0.7474
2025	9	$ 0.40	$ 0.54	0.41%	$ 4.71	20%	$ 5.6502	$0.7658
2026	**10**	**$ 0.39**	**$ 0.55**	**0.31%**	**$ 5.25**	20%	**$ 6.3054**	$0.7840
2027	11	$ 0.38	$ 0.56	2.09%	$ 5.81	20%	$ 6.9743	$0.8034
2028	12	$ 0.38	$ 0.58	3.64%	$ 6.39	20%	$ 7.6675	$0.8251
2029	13	$ 0.37	$ 0.58	0.16%	$ 6.97	20%	$ 8.3618	$0.8462
2030	14	$ 0.37	$ 0.60	3.96%	$ 7.57	20%	$ 9.0836	$0.8696
2031	15	$ 0.37	$ 0.62	2.83%	$ 8.19	20%	$ 9.8258	$0.8943
2032	16	$ 0.36	$ 0.62	-0.08%	$ 8.81	20%	$ 10.5674	$0.9183
2033	17	$ 0.36	$ 0.64	4.32%	$ 9.45	20%	$ 11.3411	$0.9446
2034	18	$ 0.35	$ 0.65	0.09%	$ 10.10	20%	$ 12.1154	$0.9703
2035	19	$ 0.34	$ 0.65	1.22%	$ 10.75	20%	$ 12.8993	$0.9964
2036	**20**	**$ 0.33**	**$ 0.67**	**1.94%**	**$ 11.42**	20%	**$ 13.6984**	$1.0232
2037	21	$ 0.33	$ 0.67	1.00%	$ 12.09	20%	$ 14.5054	$1.0502
2038	22	$ 0.32	$ 0.68	1.00%	$ 12.77	20%	$ 15.3206	$1.0775
2039	23	$ 0.31	$ 0.69	1.00%	$ 13.45	20%	$ 16.1439	$1.1050
2040	24	$ 0.30	$ 0.69	1.00%	$ 14.15	20%	$ 16.9754	$1.1328
2041	25	$ 0.29	$ 0.70	1.00%	$ 14.85	20%	$ 17.8152	$1.1610
2042	26	$ 0.29	$ 0.71	1.00%	$ 15.55	20%	$ 18.6635	$1.1895
2043	27	$ 0.28	$ 0.71	1.00%	$ 16.27	20%	$ 19.5202	$1.2183
2044	28	$ 0.27	$ 0.72	1.00%	$ 16.99	20%	$ 20.3855	$1.2475
2045	29	$ 0.27	$ 0.73	1.00%	$ 17.72	20%	$ 21.2594	$1.2771
2046	**30**	**$ 0.26**	**$ 0.74**	**1.00%**	**$ 18.45**	20%	**$ 22.1421**	$1.3070
2047	31	$ 0.25	$ 0.74	1.00%	$ 19.19	20%	$ 23.0336	$1.3374
2048	32	$ 0.25	$ 0.75	1.00%	$ 19.95	20%	$ 23.9340	$1.3682
2049	33	$ 0.24	$ 0.76	1.00%	$ 20.70	20%	$ 24.8435	$1.3994
2050	34	$ 0.24	$ 0.77	1.00%	$ 21.47	20%	$ 25.7620	$1.4311
2051	35	$ 0.23	$ 0.77	1.00%	$ 22.24	20%	$ 26.6897	$1.4631
2052	36	$ 0.22	$ 0.78	1.00%	$ 23.02	20%	$ 27.6267	$1.4957
2053	37	$ 0.22	$ 0.79	1.00%	$ 23.81	20%	$ 28.5730	$1.5287
2054	38	$ 0.21	$ 0.80	1.00%	$ 24.61	20%	$ 29.5289	$1.5621
2055	39	$ 0.21	$ 0.80	1.00%	$ 25.41	20%	$ 30.4942	$1.5960
2056	**40**	**$ 0.20**	**$ 0.81**	**1.00%**	**$ 26.22**	20%	**$ 31.4693**	$1.6304
2057	41	$ 0.20	$ 0.82	1.00%	$ 27.05	20%	$ 32.4540	$1.6652
2058	42	$ 0.19	$ 0.83	1.00%	$ 27.87	20%	$ 33.4487	$1.7006
2059	43	$ 0.19	$ 0.84	1.00%	$ 28.71	20%	$ 34.4532	$1.7364
2060	44	$ 0.18	$ 0.85	1.00%	$ 29.56	20%	$ 35.4679	$1.7728
2061	45	$ 0.18	$ 0.85	1.00%	$ 30.41	20%	$ 36.4926	$1.8096

Cascade's Long Term Real Discount Rate: 1.000%
IRP Discount Rate = 3.520%
Years 21-45 Escalation = 1.00% (EIA Inflation Rate)

Conservation Credit % attempts to recognize non-quantifiable benefits associated with conservation, including benefits of price certainty & hedge against future carbon costs
Carbon estimated at $20/ton, applies to Natural Gas 2021

Inflation Rate
IRP Discount Rate =
Years 21-45 Escalation =

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Category	11	12	13	14	15	16	17	18	19	20	21	22
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.38	$ 0.38	$ 0.37	$ 0.37	$ 0.37	$ 0.36	$ 0.36	$ 0.35	$ 0.34	$ 0.33	$ 0.33	$ 0.32
Nominal Cost Per Therm	$ 0.56	$ 0.58	$ 0.58	$ 0.60	$ 0.62	$ 0.62	$ 0.64	$ 0.65	$ 0.65	$ 0.67	$ 0.67	$ 0.68
Verification	$ 0.38	$ 0.38	$ 0.37	$ 0.37	$ 0.37	$ 0.36	$ 0.36	$ 0.35	$ 0.34	$ 0.33	$ 0.33	$ 0.32
Resource Portfolio Cost - % Change	2.09%	3.64%	0.16%	3.96%	2.83%	-0.08%	4.32%	0.09%	1.22%	1.94%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 5.81	$ 6.39	$ 6.97	$ 7.57	$ 8.19	$ 8.81	$ 9.45	$ 10.10	$ 10.75	$ 11.42	$ 12.09	$ 12.77
Portfolio Costs with 10% Conservation Credit	$6.39	$7.03	$7.67	$8.33	$9.01	$9.69	$10.40	$11.11	$11.82	$12.56	$13.30	$14.04
Cost-Effectiveness Limit	$0.6166	$0.6245	$0.6317	$0.6403	$0.6496	$0.6582	$0.6680	$0.6773	$0.6864	$0.6958	$0.7051	$0.7143

* 2016 IRP Expected Scenario

Inflation Rate
IRP Discount Rate =
Years 21-45 Escalation =

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Category	23	24	25	26	27	28	29	30	31	32	33	34
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.24
Nominal Cost Per Therm	$ 0.69	$ 0.69	$ 0.70	$ 0.71	$ 0.71	$ 0.72	$ 0.73	$ 0.74	$ 0.74	$ 0.75	$ 0.76	$ 0.77
Verification	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.24
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 13.45	$ 14.15	$ 14.85	$ 15.55	$ 16.27	$ 16.99	$ 17.72	$ 18.45	$ 19.19	$ 19.95	$ 20.70	$ 21.47
Portfolio Costs with 10% Conservation Credit	$14.80	$15.56	$16.33	$17.11	$17.89	$18.69	$19.49	$20.30	$21.11	$21.94	$22.77	$23.62
Cost-Effectiveness Limit	$0.7234	$0.7325	$0.7415	$0.7505	$0.7595	$0.7685	$0.7775	$0.7865	$0.7955	$0.8045	$0.8136	$0.8228

* 2016 IRP Expected Scenario

Inflation Rate
IRP Discount Rate =
Years 21-45 Escalation =

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Category	35	36	37	38	39	40	41	42	43	44	45
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18
Nominal Cost Per Therm	$ 0.77	$ 0.78	$ 0.79	$ 0.80	$ 0.80	$ 0.81	$ 0.82	$ 0.83	$ 0.84	$ 0.85	$ 0.85
Verification	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 22.24	$ 23.02	$ 23.81	$ 24.61	$ 25.41	$ 26.22	$ 27.05	$ 27.87	$ 28.71	$ 29.56	$ 30.41
Portfolio Costs with 10% Conservation Credit	$24.47	$25.32	$26.19	$27.07	$27.95	$28.85	$29.75	$30.66	$31.58	$32.51	$33.45
Cost-Effectiveness Limit	$0.8319	$0.8411	$0.8504	$0.8597	$0.8691	$0.8785	$0.8881	$0.8976	$0.9073	$0.9170	$0.9268

* 2016 IRP Expected Scenario

Inflation Rate 1.000%
IRP Discount Rate = 3.520%
Years 21-45 Escalation = 1.000% (EIA Inflation Rate)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Category	1	2	3	4	5	6	7	8	9	10
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.50	$ 0.48	$ 0.46	$ 0.44	$ 0.43	$ 0.43	$ 0.41	$ 0.41	$ 0.40	$ 0.39
Nominal Cost Per Therm	$ 0.52	$ 0.52	$ 0.51	$ 0.50	$ 0.51	$ 0.53	$ 0.52	$ 0.54	$ 0.54	$ 0.55
Verification	$ 0.50	$ 0.48	$ 0.46	$ 0.44	$ 0.43	$ 0.43	$ 0.41	$ 0.41	$ 0.40	$ 0.39
Resource Portfolio Cost - % Change		-1.07%	-0.91%	-1.39%	1.81%	3.76%	-1.65%	3.51%	0.41%	0.31%
PV of Resource Portfolio Cost/Therm	$ 0.52	$ 1.04	$ 1.55	$ 2.05	$ 2.57	$ 3.10	$ 3.62	$ 4.16	$ 4.71	$ 5.25
Portfolio Costs with 10% Conservation Credit	$ 0.57	$1.14	$1.70	$2.26	$2.82	$3.41	$3.98	$4.58	$5.18	$5.78
Cost-Effectiveness Limit	$ 0.58	$0.5791	$0.5792	$0.5787	$0.5815	$0.5881	$0.5922	$0.5986	$0.6046	$0.6103

* 2016 IRP Expected Scenario

AVOIDED COST ESTIMATES
EXPECTED SCENARIO utilizing Carbon 3
45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	RESOURCE PORTFOLIO COST - % CHANGE	PV OF RESOURCE PORTFOLIO COST/THERM	Non-Energy Benefits %	PORTFOLIO COSTS INCLUDING CONSERVATION CREDIT	COST-EFFECTIVENESS LIMIT
2017	1	$ 0.50	$ 0.52		$ 0.52	30%	$ 0.6780	$0.7062
2018	2	$ 0.48	$ 0.52	-1.07%	$ 1.04	30%	$ 1.3486	$0.7168
2019	3	$ 0.46	$ 0.51	-0.91%	$ 1.55	30%	$ 2.0132	$0.7278
2020	4	$ 0.44	$ 0.50	-1.39%	$ 2.05	30%	$ 2.6685	$0.7381
2021	**5**	**$ 0.43**	**$ 0.51**	**1.81%**	**$ 2.57**	30%	**$ 3.3357**	$0.7529
2022	6	$ 0.43	$ 0.53	3.76%	$ 3.10	30%	$ 4.0279	$0.7726
2023	7	$ 0.41	$ 0.52	-1.65%	$ 3.62	30%	$ 4.7087	$0.7895
2024	8	$ 0.41	$ 0.54	3.51%	$ 4.16	30%	$ 5.4135	$0.8097
2025	9	$ 0.40	$ 0.54	0.41%	$ 4.71	30%	$ 6.1211	$0.8296
2026	**10**	**$ 0.39**	**$ 0.55**	**0.31%**	**$ 5.25**	30%	**$ 6.8309**	$0.8493
2027	11	$ 0.38	$ 0.56	2.09%	$ 5.81	30%	$ 7.5555	$0.8704
2028	12	$ 0.38	$ 0.58	3.64%	$ 6.39	30%	$ 8.3065	$0.8938
2029	13	$ 0.37	$ 0.58	0.16%	$ 6.97	30%	$ 9.0587	$0.9168
2030	14	$ 0.37	$ 0.60	3.96%	$ 7.57	30%	$ 9.8406	$0.9421
2031	15	$ 0.37	$ 0.62	2.83%	$ 8.19	30%	$ 10.6447	$0.9688
2032	16	$ 0.36	$ 0.62	-0.08%	$ 8.81	30%	$ 11.4481	$0.9948
2033	17	$ 0.36	$ 0.64	4.32%	$ 9.45	30%	$ 12.2862	$1.0233
2034	18	$ 0.35	$ 0.65	0.09%	$ 10.10	30%	$ 13.1251	$1.0512
2035	19	$ 0.34	$ 0.65	1.22%	$ 10.75	30%	$ 13.9742	$1.0794
2036	**20**	**$ 0.33**	**$ 0.67**	**1.94%**	**$ 11.42**	30%	**$ 14.8399**	$1.1084
2037	21	$ 0.33	$ 0.67	1.00%	$ 12.09	30%	$ 15.7142	$1.1377
2038	22	$ 0.32	$ 0.68	1.00%	$ 12.77	30%	$ 16.5973	$1.1673
2039	23	$ 0.31	$ 0.69	1.00%	$ 13.45	30%	$ 17.4892	$1.1971
2040	24	$ 0.30	$ 0.69	1.00%	$ 14.15	30%	$ 18.3900	$1.2272
2041	25	$ 0.29	$ 0.70	1.00%	$ 14.85	30%	$ 19.2998	$1.2577
2042	26	$ 0.29	$ 0.71	1.00%	$ 15.55	30%	$ 20.2188	$1.2886
2043	27	$ 0.28	$ 0.71	1.00%	$ 16.27	30%	$ 21.1469	$1.3198
2044	28	$ 0.27	$ 0.72	1.00%	$ 16.99	30%	$ 22.0843	$1.3514
2045	29	$ 0.27	$ 0.73	1.00%	$ 17.72	30%	$ 23.0310	$1.3835
2046	**30**	**$ 0.26**	**$ 0.74**	**1.00%**	**$ 18.45**	30%	**$ 23.9873**	$1.4160
2047	31	$ 0.25	$ 0.74	1.00%	$ 19.19	30%	$ 24.9531	$1.4489
2048	32	$ 0.25	$ 0.75	1.00%	$ 19.95	30%	$ 25.9285	$1.4822
2049	33	$ 0.24	$ 0.76	1.00%	$ 20.70	30%	$ 26.9138	$1.5160
2050	34	$ 0.24	$ 0.77	1.00%	$ 21.47	30%	$ 27.9088	$1.5503
2051	35	$ 0.23	$ 0.77	1.00%	$ 22.24	30%	$ 28.9138	$1.5851
2052	36	$ 0.22	$ 0.78	1.00%	$ 23.02	30%	$ 29.9289	$1.6203
2053	37	$ 0.22	$ 0.79	1.00%	$ 23.81	30%	$ 30.9541	$1.6560
2054	38	$ 0.21	$ 0.80	1.00%	$ 24.61	30%	$ 31.9896	$1.6923
2055	39	$ 0.21	$ 0.80	1.00%	$ 25.41	30%	$ 33.0354	$1.7290
2056	**40**	**$ 0.20**	**$ 0.81**	**1.00%**	**$ 26.22**	30%	**$ 34.0917**	$1.7662
2057	41	$ 0.20	$ 0.82	1.00%	$ 27.05	30%	$ 35.1585	$1.8040
2058	42	$ 0.19	$ 0.83	1.00%	$ 27.87	30%	$ 36.2361	$1.8423
2059	43	$ 0.19	$ 0.84	1.00%	$ 28.71	30%	$ 37.3243	$1.8811
2060	44	$ 0.18	$ 0.85	1.00%	$ 29.56	30%	$ 38.4235	$1.9205
2061	45	$ 0.18	$ 0.85	1.00%	$ 30.41	30%	$ 39.5337	$1.9604

Cascade's Long Term Real Discount Rate: 1.000%
IRP Discount Rate = 3.520%
Years 21-45 Escalation = 1.00% (EIA Inflation Rate)

Conservation Credit % attempts to recognize non-quantifiable benefits associated with conservation, including benefits of price certainty & hedge against future carbon costs
Carbon estimated at $30/ton, applies to Natural Gas 2021

Inflation Rate
IRP Discount Rate =
Years 21-45 Escalation =

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Category	11	12	13	14	15	16	17	18	19	20	21	22
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.38	$ 0.38	$ 0.37	$ 0.37	$ 0.37	$ 0.36	$ 0.36	$ 0.35	$ 0.34	$ 0.33	$ 0.33	$ 0.32
Nominal Cost Per Therm	$ 0.56	$ 0.58	$ 0.58	$ 0.60	$ 0.62	$ 0.62	$ 0.64	$ 0.65	$ 0.65	$ 0.67	$ 0.67	$ 0.68
Verification	$ 0.38	$ 0.38	$ 0.37	$ 0.37	$ 0.37	$ 0.36	$ 0.36	$ 0.35	$ 0.34	$ 0.33	$ 0.33	$ 0.32
Resource Portfolio Cost - % Change	2.09%	3.64%	0.16%	3.96%	2.83%	-0.08%	4.32%	0.09%	1.22%	1.94%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 5.81	$ 6.39	$ 6.97	$ 7.57	$ 8.19	$ 8.81	$ 9.45	$ 10.10	$ 10.75	$ 11.42	$ 12.09	$ 12.77
Portfolio Costs with 10% Conservation Credit	$6.39	$7.03	$7.67	$8.33	$9.01	$9.69	$10.40	$11.11	$11.82	$12.56	$13.30	$14.04
Cost-Effectiveness Limit	$0.6166	$0.6245	$0.6317	$0.6403	$0.6496	$0.6582	$0.6680	$0.6773	$0.6864	$0.6958	$0.7051	$0.7143

* 2016 IRP Expected Scenario

Inflation Rate
IRP Discount Rate =
Years 21-45 Escalation =

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Category	23	24	25	26	27	28	29	30	31	32	33	34
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.24
Nominal Cost Per Therm	$ 0.69	$ 0.69	$ 0.70	$ 0.71	$ 0.71	$ 0.72	$ 0.73	$ 0.74	$ 0.74	$ 0.75	$ 0.76	$ 0.77
Verification	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.24
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 13.45	$ 14.15	$ 14.85	$ 15.55	$ 16.27	$ 16.99	$ 17.72	$ 18.45	$ 19.19	$ 19.95	$ 20.70	$ 21.47
Portfolio Costs with 10% Conservation Credit	$14.80	$15.56	$16.33	$17.11	$17.89	$18.69	$19.49	$20.30	$21.11	$21.94	$22.77	$23.62
Cost-Effectiveness Limit	$0.7234	$0.7325	$0.7415	$0.7505	$0.7595	$0.7685	$0.7775	$0.7865	$0.7955	$0.8045	$0.8136	$0.8228

* 2016 IRP Expected Scenario

Inflation Rate
IRP Discount Rate =
Years 21-45 Escalation =

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Category	35	36	37	38	39	40	41	42	43	44	45
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18
Nominal Cost Per Therm	$ 0.77	$ 0.78	$ 0.79	$ 0.80	$ 0.80	$ 0.81	$ 0.82	$ 0.83	$ 0.84	$ 0.85	$ 0.85
Verification	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 22.24	$ 23.02	$ 23.81	$ 24.61	$ 25.41	$ 26.22	$ 27.05	$ 27.87	$ 28.71	$ 29.56	$ 30.41
Portfolio Costs with 10% Conservation Credit	$24.47	$25.32	$26.19	$27.07	$27.95	$28.85	$29.75	$30.66	$31.58	$32.51	$33.45
Cost-Effectiveness Limit	$0.8319	$0.8411	$0.8504	$0.8597	$0.8691	$0.8785	$0.8881	$0.8976	$0.9073	$0.9170	$0.9268

* 2016 IRP Expected Scenario

Inflation Rate	1.000%	2035	2061
Long Term Discount Rate (30yr mortgage rate)	3.520%	$ 0.69	$ 0.91
Revised Inflation Rate	0.000%		
Years 21-45 Escalation =	1.00%		

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Category	1	2	3	4	5	6	7	8	9	10
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.524369	$ 0.484192	$ 0.473401	$ 0.455589	$ 0.451094	$ 0.452809	$ 0.437673	$ 0.437234	$ 0.424815	$ 0.407949
Nominal Cost Per Therm	$ 0.542800	$ 0.52	$ 0.53	$ 0.52	$ 0.54	$ 0.56	$ 0.56	$ 0.58	$ 0.58	$ 0.58
Verification	$ 0.524343	$ 0.48	$0.4734	$0.4556	$0.4511	$0.4528	$0.4377	$0.4372	$0.4248	$0.4080
Resource Portfolio Cost - % Change		-4.40%	1.21%	-0.38%	2.50%	3.92%	0.05%	3.41%	0.59%	-0.59%
PV of Resource Portfolio Cost/Therm	$ 0.542800	$ 1.06	$ 1.59	$ 2.11	$ 2.65	$ 3.20	$ 3.76	$ 4.34	$ 4.92	$ 5.49
Portfolio Costs with 10% Conservation Credit	$ 0.597080	$1.17	$1.75	$2.32	$2.91	$3.52	$4.14	$4.77	$5.41	$6.04
Cost-Effectiveness Limit	$ 0.603051	$0.5927	$0.5935	$0.5949	$0.5998	$0.6081	$0.6149	$0.6236	$0.6315	$0.6381

* 2016 IRP Start - All Resources Medium Forecast Scenario Average Weather. 8.76% discount rate (CNGC weighted average cost of capital) utilized in Sendout Model.

AVOIDED COST ESTIMATES
EXPECTED SCENARIO for CLIMATE ZONE 1
45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	RESOURCE PORTFOLIO COST - % CHANGE	PV OF RESOURCE PORTFOLIO COST/THERM	Non-Energy Benefits %	PORTFOLIO COSTS INCLUDING CONSERVATION CREDIT	COST-EFFECTIVENESS LIMIT
2017	1	$ 0.52	$ 0.54		$ 0.54	5%	$ 0.5699	$0.5937
2018	2	$ 0.48	$ 0.52	-4.40%	$ 1.06	5%	$ 1.1148	$0.5925
2019	3	$ 0.47	$ 0.53	1.21%	$ 1.59	5%	$ 1.6662	$0.6024
2020	4	$ 0.46	$ 0.52	-0.38%	$ 2.11	5%	$ 2.2156	$0.6128
2021	**5**	**$ 0.45**	**$ 0.54**	**2.50%**	**$ 2.65**	7.5%	**$ 2.8449**	$0.6421
2022	6	$ 0.45	$ 0.56	3.92%	$ 3.20	7.5%	$ 3.4440	$0.6606
2023	7	$ 0.44	$ 0.56	0.05%	$ 3.76	7.5%	$ 4.0434	$0.6779
2024	8	$ 0.44	$ 0.58	3.41%	$ 4.34	7.5%	$ 4.6632	$0.6975
2025	9	$ 0.42	$ 0.58	0.59%	$ 4.92	7.5%	$ 5.2867	$0.7165
2026	**10**	**$ 0.41**	**$ 0.58**	**-0.59%**	**$ 5.49**	10.0%	**$ 6.0440**	$0.7515
2027	11	$ 0.40	$ 0.59	2.51%	$ 6.09	10%	$ 6.6942	$0.7712
2028	12	$ 0.41	$ 0.62	4.26%	$ 6.70	10%	$ 7.3721	$0.7933
2029	13	$ 0.40	$ 0.63	1.98%	$ 7.33	10%	$ 8.0634	$0.8160
2030	14	$ 0.40	$ 0.65	3.96%	$ 7.98	10%	$ 8.7822	$0.8408
2031	15	$ 0.40	$ 0.67	2.33%	$ 8.65	12.5%	$ 9.7340	$0.8859
2032	16	$ 0.38	$ 0.67	0.12%	$ 9.32	12.5%	$ 10.4870	$0.9113
2033	17	$ 0.39	$ 0.69	3.79%	$ 10.02	12.5%	$ 11.2687	$0.9385
2034	18	$ 0.36	$ 0.68	-2.16%	$ 10.70	12.5%	$ 12.0335	$0.9637
2035	19	$ 0.36	$ 0.69	1.77%	$ 11.39	12.5%	$ 12.8117	$0.9896
2036	**20**	**$ 0.36**	**$ 0.71**	**2.72%**	**$ 12.10**	12.5%	**$ 13.6112**	$1.0167
2037	21	$ 0.35	$ 0.72	1.00%	$ 12.82	15%	$ 14.7390	$1.0671
2038	22	$ 0.34	$ 0.72	1.00%	$ 13.54	15%	$ 15.5726	$1.0952
2039	23	$ 0.33	$ 0.73	1.00%	$ 14.27	15%	$ 16.4145	$1.1235
2040	24	$ 0.32	$ 0.74	1.00%	$ 15.01	15%	$ 17.2649	$1.1521
2041	25	$ 0.31	$ 0.75	1.00%	$ 15.76	15%	$ 18.1238	$1.1811
2042	26	$ 0.31	$ 0.75	1.00%	$ 16.51	17.5%	$ 19.4041	$1.2367
2043	27	$ 0.30	$ 0.76	1.00%	$ 17.28	17.5%	$ 20.2993	$1.2669
2044	28	$ 0.29	$ 0.77	1.00%	$ 18.05	17.5%	$ 21.2034	$1.2975
2045	29	$ 0.29	$ 0.78	1.00%	$ 18.82	17.5%	$ 22.1166	$1.3286
2046	**30**	**$ 0.28**	**$ 0.78**	**1.00%**	**$ 19.61**	**17.5%**	**$ 23.0389**	$1.3600
2047	31	$ 0.27	$ 0.79	1.00%	$ 20.40	20%	$ 24.4805	$1.4214
2048	32	$ 0.26	$ 0.80	1.00%	$ 21.20	20%	$ 25.4413	$1.4544
2049	33	$ 0.26	$ 0.81	1.00%	$ 22.01	20%	$ 26.4118	$1.4878
2050	34	$ 0.25	$ 0.82	1.00%	$ 22.83	20%	$ 27.3920	$1.5216
2051	35	$ 0.25	$ 0.82	1.00%	$ 23.65	20%	$ 28.3820	$1.5559
2052	36	$ 0.24	$ 0.83	1.00%	$ 24.48	20%	$ 29.3818	$1.5907
2053	37	$ 0.23	$ 0.84	1.00%	$ 25.33	20%	$ 30.3917	$1.6260
2054	38	$ 0.23	$ 0.85	1.00%	$ 26.18	20%	$ 31.4117	$1.6617
2055	39	$ 0.22	$ 0.86	1.00%	$ 27.03	20%	$ 32.4419	$1.6979
2056	**40**	**$ 0.22**	**$ 0.87**	**1.00%**	**$ 27.90**	20%	**$ 33.4824**	$1.7347
2057	41	$ 0.21	$ 0.88	1.00%	$ 28.78	20%	$ 34.5333	$1.7719
2058	42	$ 0.21	$ 0.88	1.00%	$ 29.66	20%	$ 35.5946	$1.8097
2059	43	$ 0.20	$ 0.89	1.00%	$ 30.56	20%	$ 36.6667	$1.8480
2060	44	$ 0.20	$ 0.90	1.00%	$ 31.46	20%	$ 37.7494	$1.8868
2061	45	$ 0.19	$ 0.91	1.00%	$ 32.37	20%	$ 38.8429	$1.9261
		$ 0.33	$ 0.719	$ 0.01	$ 15.01			

Inflation Rate	1.000%
Long Term Discount Rate (30yr r	3.520%
Years 21-45 Escalation =	1.00% (EIA Inflation Rate)

Conservation Credit % attempts to recognize non-quantifiable benefits associated with conservation, including benefits of price certainty & hedge against future carbon costs

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Category	11	12	13	14	15	16	17	18	19	20	21	22
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.403982	$ 0.406919	$ 0.400847	$ 0.402540	$ 0.397898	$ 0.384843	$ 0.385865	$ 0.364728	$ 0.358524	$ 0.355737	$ 0.35	$ 0.34
Nominal Cost Per Therm	$ 0.59	$ 0.62	$ 0.63	$ 0.65	$ 0.67	$ 0.67	$ 0.69	$ 0.68	$ 0.69	$ 0.71	$ 0.72	$ 0.72
Verification	$0.4040	$0.4069	$0.4009	$0.4026	$0.3979	$0.3849	$0.3859	$0.3647	$0.3585	$0.3557	$0.3471	$0.3386
Resource Portfolio Cost - % Change	2.51%	4.26%	1.98%	3.96%	2.33%	0.12%	3.79%	-2.16%	1.77%	2.72%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 6.09	$ 6.70	$ 7.33	$ 7.98	$ 8.65	$ 9.32	$ 10.02	$ 10.70	$ 11.39	$ 12.10	$ 12.82	$ 13.54
Portfolio Costs with 10% Conservation Credit	$6.69	$7.37	$8.06	$8.78	$9.52	$10.25	$11.02	$11.77	$12.53	$13.31	$14.10	$14.90
Cost-Effectiveness Limit	$0.6457	$0.6550	$0.6645	$0.6754	$0.6864	$0.6967	$0.7080	$0.7175	$0.7272	$0.7375	$0.7476	$0.7576

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Category	23	24	25	26	27	28	29	30	31	32	33	34
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.33	$ 0.32	$ 0.31	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.26	$ 0.26	$ 0.25
Nominal Cost Per Therm	$ 0.73	$ 0.74	$ 0.75	$ 0.75	$ 0.76	$ 0.77	$ 0.78	$ 0.78	$ 0.79	$ 0.80	$ 0.81	$ 0.82
Verification	$0.3304	$0.3224	$0.3145	$0.3068	$0.2994	$0.2921	$0.2850	$0.2780	$0.2713	$0.2647	$0.2582	$0.2519
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 14.27	$ 15.01	$ 15.76	$ 16.51	$ 17.28	$ 18.05	$ 18.82	$ 19.61	$ 20.40	$ 21.20	$ 22.01	$ 22.83
Portfolio Costs with 10% Conservation Credit	$15.70	$16.51	$17.34	$18.17	$19.00	$19.85	$20.70	$21.57	$22.44	$23.32	$24.21	$25.11
Cost-Effectiveness Limit	$0.7676	$0.7774	$0.7872	$0.7969	$0.8066	$0.8163	$0.8260	$0.8357	$0.8455	$0.8552	$0.8650	$0.8748

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Category	35	36	37	38	39	40	41	42	43	44	45
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.25	$ 0.24	$ 0.23	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19
Nominal Cost Per Therm	$ 0.82	$ 0.83	$ 0.84	$ 0.85	$ 0.86	$ 0.87	$ 0.88	$ 0.88	$ 0.89	$ 0.90	$ 0.91
Verification	$0.2458	$0.2398	$0.2340	$0.2283	$0.2227	$0.2173	$0.2120	$0.2069	$0.2018	$0.1969	$0.1921
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 23.65	$ 24.48	$ 25.33	$ 26.18	$ 27.03	$ 27.90	$ 28.78	$ 29.66	$ 30.56	$ 31.46	$ 32.37
Portfolio Costs with 10% Conservation Credit	$26.02	$26.93	$27.86	$28.79	$29.74	$30.69	$31.66	$32.63	$33.61	$34.60	$35.61
Cost-Effectiveness Limit	$0.8847	$0.8946	$0.9045	$0.9145	$0.9246	$0.9347	$0.9449	$0.9552	$0.9656	$0.9760	$0.9865

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate	1.000%		2035	2061
Long Term Discount Rate (30yr mortgage rate)	3.520%		$ 0.68	$ 0.83
Revised Inflation Rate	0.000%			
Years 21-45 Escalation =	1.00%			

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Category	1	2	3	4	5	6	7	8	9	10
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.477235	$ 0.473077	$ 0.441713	$ 0.420914	$ 0.415803	$ 0.421592	$ 0.395104	$ 0.391159	$ 0.383235	$ 0.373903
Nominal Cost Per Therm	$ 0.494000	$ 0.51	$ 0.49	$ 0.48	$ 0.49	$ 0.52	$ 0.50	$ 0.52	$ 0.52	$ 0.53
Verification	$ 0.477202	$ 0.47	$0.4417	$0.4209	$0.4158	$0.4216	$0.3951	$0.3912	$0.3832	$0.3739
Resource Portfolio Cost - % Change		2.63%	-3.35%	-1.35%	2.25%	4.96%	-2.97%	2.48%	1.42%	0.99%
PV of Resource Portfolio Cost/Therm	$ 0.494000	$ 1.00	$ 1.49	$ 1.97	$ 2.47	$ 2.99	$ 3.49	$ 4.01	$ 4.53	$ 5.06
Portfolio Costs with 10% Conservation Credit	$ 0.543400	$1.10	$1.64	$2.17	$2.72	$3.29	$3.84	$4.41	$4.98	$5.56
Cost-Effectiveness Limit	$ 0.548834	$0.5588	$0.5577	$0.5566	$0.5595	$0.5670	$0.5707	$0.5760	$0.5817	$0.5875

* 2016 IRP Start - All Resources Medium Forecast Scenario Average Weather. 8.76% discount rate (CNGC weighted average cost of capital) utilized in Sendout Model.

AVOIDED COST ESTIMATES
EXPECTED SCENARIO for CLIMATE ZONE 2
45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	RESOURCE PORTFOLIO COST - % CHANGE	PV OF RESOURCE PORTFOLIO COST/THERM	Non-Energy Benefits %	PORTFOLIO COSTS INCLUDING CONSERVATION CREDIT	COST-EFFECTIVENESS LIMIT
2017	1	$ 0.48	$ 0.49		$ 0.49	5%	$ 0.5187	$0.5403
2018	2	$ 0.47	$ 0.51	2.63%	$ 1.00	5%	$ 1.0511	$0.5586
2019	3	$ 0.44	$ 0.49	-3.35%	$ 1.49	5%	$ 1.5656	$0.5660
2020	4	$ 0.42	$ 0.48	-1.35%	$ 1.97	5%	$ 2.0731	$0.5734
2021	**5**	**$ 0.42**	**$ 0.49**	**2.25%**	**$ 2.47**	7.5%	**$ 2.6539**	$0.5990
2022	6	$ 0.42	$ 0.52	4.96%	$ 2.99	7.5%	$ 3.2116	$0.6160
2023	7	$ 0.40	$ 0.50	-2.97%	$ 3.49	7.5%	$ 3.7527	$0.6292
2024	8	$ 0.39	$ 0.52	2.48%	$ 4.01	7.5%	$ 4.3073	$0.6443
2025	9	$ 0.38	$ 0.52	1.42%	$ 4.53	7.5%	$ 4.8698	$0.6600
2026	**10**	**$ 0.37**	**$ 0.53**	**0.99%**	**$ 5.06**	10.0%	**$ 5.5642**	$0.6918
2027	11	$ 0.37	$ 0.54	2.01%	$ 5.60	10%	$ 6.1571	$0.7093
2028	12	$ 0.37	$ 0.56	4.23%	$ 6.16	10%	$ 6.7751	$0.7290
2029	13	$ 0.35	$ 0.55	-1.92%	$ 6.71	10%	$ 7.3812	$0.7470
2030	14	$ 0.35	$ 0.57	3.21%	$ 7.28	10%	$ 8.0068	$0.7665
2031	15	$ 0.36	$ 0.61	6.51%	$ 7.88	12.5%	$ 8.8702	$0.8073
2032	16	$ 0.35	$ 0.61	1.09%	$ 8.50	12.5%	$ 9.5590	$0.8307
2033	17	$ 0.36	$ 0.64	4.79%	$ 9.14	12.5%	$ 10.2808	$0.8562
2034	18	$ 0.36	$ 0.67	4.97%	$ 9.81	12.5%	$ 11.0385	$0.8841
2035	19	$ 0.35	$ 0.68	0.28%	$ 10.49	12.5%	$ 11.7983	$0.9113
2036	**20**	**$ 0.32**	**$ 0.65**	**-4.18%**	**$ 11.13**	12.5%	**$ 12.5264**	$0.9356
2037	21	$ 0.32	$ 0.65	1.00%	$ 11.79	15%	$ 13.5565	$0.9815
2038	22	$ 0.31	$ 0.66	1.00%	$ 12.45	15%	$ 14.3158	$1.0068
2039	23	$ 0.30	$ 0.67	1.00%	$ 13.12	15%	$ 15.0826	$1.0324
2040	24	$ 0.29	$ 0.67	1.00%	$ 13.79	15%	$ 15.8571	$1.0582
2041	25	$ 0.29	$ 0.68	1.00%	$ 14.47	15%	$ 16.6393	$1.0843
2042	26	$ 0.28	$ 0.69	1.00%	$ 15.16	17.5%	$ 17.8083	$1.1350
2043	27	$ 0.27	$ 0.69	1.00%	$ 15.85	17.5%	$ 18.6236	$1.1623
2044	28	$ 0.27	$ 0.70	1.00%	$ 16.55	17.5%	$ 19.4471	$1.1901
2045	29	$ 0.26	$ 0.71	1.00%	$ 17.26	17.5%	$ 20.2788	$1.2182
2046	**30**	**$ 0.25**	**$ 0.71**	**1.00%**	**$ 17.97**	**17.5%**	**$ 21.1188**	$1.2466
2047	31	$ 0.25	$ 0.72	1.00%	$ 18.70	20%	$ 22.4346	$1.3026
2048	32	$ 0.24	$ 0.73	1.00%	$ 19.42	20%	$ 23.3098	$1.3325
2049	33	$ 0.24	$ 0.74	1.00%	$ 20.16	20%	$ 24.1936	$1.3628
2050	34	$ 0.23	$ 0.74	1.00%	$ 20.91	20%	$ 25.0864	$1.3935
2051	35	$ 0.22	$ 0.75	1.00%	$ 21.66	20%	$ 25.9880	$1.4247
2052	36	$ 0.22	$ 0.76	1.00%	$ 22.42	20%	$ 26.8987	$1.4563
2053	37	$ 0.21	$ 0.77	1.00%	$ 23.18	20%	$ 27.8185	$1.4883
2054	38	$ 0.21	$ 0.77	1.00%	$ 23.96	20%	$ 28.7475	$1.5208
2055	39	$ 0.20	$ 0.78	1.00%	$ 24.74	20%	$ 29.6857	$1.5537
2056	**40**	**$ 0.20**	**$ 0.79**	**1.00%**	**$ 25.53**	20%	**$ 30.6334**	$1.5871
2057	41	$ 0.19	$ 0.80	1.00%	$ 26.33	20%	$ 31.5905	$1.6209
2058	42	$ 0.19	$ 0.81	1.00%	$ 27.13	20%	$ 32.5572	$1.6553
2059	43	$ 0.18	$ 0.81	1.00%	$ 27.94	20%	$ 33.5336	$1.6901
2060	44	$ 0.18	$ 0.82	1.00%	$ 28.77	20%	$ 34.5197	$1.7254
2061	45	$ 0.18	$ 0.83	1.00%	$ 29.60	20%	$ 35.5157	$1.7611
		$ 0.30	$ 0.658	$ 0.01	$ 13.76			

Inflation Rate	1.000%	
Long Term Discount Rate (30yr r	3.520%	
Years 21-45 Escalation =	1.00%	(EIA Inflation Rate)

Conservation Credit % attempts to recognize non-quantifiable benefits associated with conservation, including benefits of price certainty & hedge against future carbon costs

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Category	11	12	13	14	15	16	17	18	19	20	21	22
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.368384	$ 0.370918	$ 0.351432	$ 0.350374	$ 0.360506	$ 0.351999	$ 0.356339	$ 0.361316	$ 0.350034	$ 0.324011	$ 0.32	$ 0.31
Nominal Cost Per Therm	$ 0.54	$ 0.56	$ 0.55	$ 0.57	$ 0.61	$ 0.61	$ 0.64	$ 0.67	$ 0.68	$ 0.65	$ 0.65	$ 0.66
Verification	$0.3684	$0.3709	$0.3514	$0.3504	$0.3605	$0.3520	$0.3563	$0.3613	$0.3500	$0.3240	$0.3161	$0.3084
Resource Portfolio Cost - % Change	2.01%	4.23%	-1.92%	3.21%	6.51%	1.09%	4.79%	4.97%	0.28%	-4.18%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 5.60	$ 6.16	$ 6.71	$ 7.28	$ 7.88	$ 8.50	$ 9.14	$ 9.81	$ 10.49	$ 11.13	$ 11.79	$ 12.45
Portfolio Costs with 10% Conservation Credit	$6.16	$6.78	$7.38	$8.01	$8.67	$9.35	$10.05	$10.79	$11.54	$12.25	$12.97	$13.69
Cost-Effectiveness Limit	$0.5939	$0.6020	$0.6083	$0.6157	$0.6255	$0.6351	$0.6459	$0.6582	$0.6697	$0.6787	$0.6877	$0.6965

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Category	23	24	25	26	27	28	29	30	31	32	33	34
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.24	$ 0.23
Nominal Cost Per Therm	$ 0.67	$ 0.67	$ 0.68	$ 0.69	$ 0.69	$ 0.70	$ 0.71	$ 0.71	$ 0.72	$ 0.73	$ 0.74	$ 0.74
Verification	$0.3009	$0.2936	$0.2864	$0.2795	$0.2727	$0.2660	$0.2596	$0.2532	$0.2471	$0.2411	$0.2352	$0.2295
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 13.12	$ 13.79	$ 14.47	$ 15.16	$ 15.85	$ 16.55	$ 17.26	$ 17.97	$ 18.70	$ 19.42	$ 20.16	$ 20.91
Portfolio Costs with 10% Conservation Credit	$14.43	$15.17	$15.92	$16.67	$17.43	$18.21	$18.98	$19.77	$20.57	$21.37	$22.18	$23.00
Cost-Effectiveness Limit	$0.7053	$0.7140	$0.7227	$0.7314	$0.7400	$0.7487	$0.7574	$0.7661	$0.7748	$0.7836	$0.7923	$0.8012

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Category	35	36	37	38	39	40	41	42	43	44	45
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18	$ 0.18
Nominal Cost Per Therm	$ 0.75	$ 0.76	$ 0.77	$ 0.77	$ 0.78	$ 0.79	$ 0.80	$ 0.81	$ 0.81	$ 0.82	$ 0.83
Verification	$0.2239	$0.2184	$0.2131	$0.2079	$0.2029	$0.1979	$0.1931	$0.1884	$0.1838	$0.1793	$0.1750
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 21.66	$ 22.42	$ 23.18	$ 23.96	$ 24.74	$ 25.53	$ 26.33	$ 27.13	$ 27.94	$ 28.77	$ 29.60
Portfolio Costs with 10% Conservation Credit	$23.82	$24.66	$25.50	$26.35	$27.21	$28.08	$28.96	$29.84	$30.74	$31.64	$32.56
Cost-Effectiveness Limit	$0.8100	$0.8190	$0.8279	$0.8370	$0.8461	$0.8552	$0.8644	$0.8737	$0.8831	$0.8925	$0.9020

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate	1.000%		
Long Term Discount Rate (30yr mortgage rate)	3.520%	$ 0.65	$ 0.85
Revised Inflation Rate	0.000%		
Years 21-45 Escalation =	1.00%		

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Category	1	2	3	4	5	6	7	8	9	10
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.505096	$ 0.487175	$ 0.462059	$ 0.439305	$ 0.430277	$ 0.428489	$ 0.406749	$ 0.407237	$ 0.393822	$ 0.383972
Nominal Cost Per Therm	$ 0.522900	$ 0.52	$ 0.51	$ 0.50	$ 0.51	$ 0.53	$ 0.52	$ 0.54	$ 0.54	$ 0.54
Verification	$ 0.505120	$ 0.49	$0.4621	$0.4393	$0.4303	$0.4285	$0.4068	$0.4072	$0.3938	$0.3840
Resource Portfolio Cost - % Change		-0.15%	-1.82%	-1.58%	1.39%	3.09%	-1.73%	3.65%	0.11%	0.93%
PV of Resource Portfolio Cost/Therm	$ 0.522900	$ 1.05	$ 1.56	$ 2.06	$ 2.57	$ 3.10	$ 3.62	$ 4.16	$ 4.69	$ 5.24
Portfolio Costs with 10% Conservation Credit	$ 0.575190	$1.15	$1.71	$2.27	$2.83	$3.41	$3.98	$4.57	$5.16	$5.76
Cost-Effectiveness Limit	$ 0.580942	$0.5834	$0.5826	$0.5813	$0.5833	$0.5886	$0.5917	$0.5975	$0.6028	$0.6082

* 2016 IRP Start - All Resources Medium Forecast Scenario Average Weather. 8.76% discount rate (CNGC weighted average cost of capital) utilized in Sendout Model.

AVOIDED COST ESTIMATES
EXPECTED SCENARIO -for CLIMATE ZONE 3
45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	RESOURCE PORTFOLIO COST - % CHANGE	PV OF RESOURCE PORTFOLIO COST/THERM	Non-Energy Benefits %	PORTFOLIO COSTS INCLUDING CONSERVATIO CREDIT	COST-EFFECTIVENESS LIMIT
2017	1	$ 0.51	$ 0.52		$ 0.52	5%	$ 0.5490	$0.5719
2018	2	$ 0.49	$ 0.52	-0.15%	$ 1.05	5%	$ 1.0973	$0.5832
2019	3	$ 0.46	$ 0.51	-1.82%	$ 1.56	5%	$ 1.6355	$0.5912
2020	4	$ 0.44	$ 0.50	-1.58%	$ 2.06	5%	$ 2.1652	$0.5989
2021	**5**	**$ 0.43**	**$ 0.51**	**1.39%**	**$ 2.57**	7.5%	**$ 2.7666**	$0.6244
2022	6	$ 0.43	$ 0.53	3.09%	$ 3.10	7.5%	$ 3.3335	$0.6394
2023	7	$ 0.41	$ 0.52	-1.73%	$ 3.62	7.5%	$ 3.8905	$0.6523
2024	8	$ 0.41	$ 0.54	3.65%	$ 4.16	7.5%	$ 4.4679	$0.6683
2025	9	$ 0.39	$ 0.54	0.11%	$ 4.69	7.5%	$ 5.0459	$0.6839
2026	**10**	**$ 0.38**	**$ 0.54**	**0.93%**	**$ 5.24**	10.0%	**$ 5.7603**	$0.7162
2027	11	$ 0.38	$ 0.55	2.12%	$ 5.79	10%	$ 6.3699	$0.7338
2028	12	$ 0.38	$ 0.57	3.30%	$ 6.36	10%	$ 6.9996	$0.7532
2029	13	$ 0.36	$ 0.57	-0.26%	$ 6.93	10%	$ 7.6277	$0.7719
2030	14	$ 0.37	$ 0.60	4.33%	$ 7.53	10%	$ 8.2830	$0.7930
2031	15	$ 0.36	$ 0.61	2.38%	$ 8.14	12.5%	$ 9.1574	$0.8334
2032	16	$ 0.35	$ 0.61	-0.41%	$ 8.75	12.5%	$ 9.8407	$0.8552
2033	17	$ 0.35	$ 0.64	4.69%	$ 9.38	12.5%	$ 10.5561	$0.8792
2034	18	$ 0.34	$ 0.64	0.27%	$ 10.02	12.5%	$ 11.2734	$0.9029
2035	19	$ 0.34	$ 0.65	1.41%	$ 10.67	12.5%	$ 12.0008	$0.9270
2036	**20**	**$ 0.33**	**$ 0.67**	**2.91%**	**$ 11.33**	12.5%	**$ 12.7494**	$0.9523
2037	21	$ 0.33	$ 0.67	1.00%	$ 12.00	15%	$ 13.8056	$0.9995
2038	22	$ 0.32	$ 0.68	1.00%	$ 12.68	15%	$ 14.5862	$1.0258
2039	23	$ 0.31	$ 0.69	1.00%	$ 13.37	15%	$ 15.3746	$1.0523
2040	24	$ 0.30	$ 0.69	1.00%	$ 14.06	15%	$ 16.1709	$1.0791
2041	25	$ 0.29	$ 0.70	1.00%	$ 14.76	15%	$ 16.9751	$1.1062
2042	26	$ 0.29	$ 0.71	1.00%	$ 15.47	17.5%	$ 18.1741	$1.1583
2043	27	$ 0.28	$ 0.71	1.00%	$ 16.18	17.5%	$ 19.0123	$1.1866
2044	28	$ 0.27	$ 0.72	1.00%	$ 16.90	17.5%	$ 19.8589	$1.2153
2045	29	$ 0.27	$ 0.73	1.00%	$ 17.63	17.5%	$ 20.7140	$1.2443
2046	**30**	**$ 0.26**	**$ 0.74**	**1.00%**	**$ 18.36**	**17.5%**	**$ 21.5777**	$1.2737
2047	31	$ 0.25	$ 0.74	1.00%	$ 19.11	20%	$ 22.9276	$1.3313
2048	32	$ 0.25	$ 0.75	1.00%	$ 19.86	20%	$ 23.8274	$1.3621
2049	33	$ 0.24	$ 0.76	1.00%	$ 20.61	20%	$ 24.7361	$1.3934
2050	34	$ 0.24	$ 0.76	1.00%	$ 21.38	20%	$ 25.6539	$1.4251
2051	35	$ 0.23	$ 0.77	1.00%	$ 22.15	20%	$ 26.5809	$1.4572
2052	36	$ 0.22	$ 0.78	1.00%	$ 22.93	20%	$ 27.5172	$1.4897
2053	37	$ 0.22	$ 0.79	1.00%	$ 23.72	20%	$ 28.4629	$1.5228
2054	38	$ 0.21	$ 0.80	1.00%	$ 24.51	20%	$ 29.4180	$1.5562
2055	39	$ 0.21	$ 0.80	1.00%	$ 25.32	20%	$ 30.3826	$1.5902
2056	**40**	**$ 0.20**	**$ 0.81**	**1.00%**	**$ 26.13**	20%	**$ 31.3569**	$1.6246
2057	41	$ 0.20	$ 0.82	1.00%	$ 26.95	20%	$ 32.3410	$1.6594
2058	42	$ 0.19	$ 0.83	1.00%	$ 27.78	20%	$ 33.3348	$1.6948
2059	43	$ 0.19	$ 0.84	1.00%	$ 28.62	20%	$ 34.3387	$1.7306
2060	44	$ 0.18	$ 0.84	1.00%	$ 29.46	20%	$ 35.3525	$1.7670
2061	45	$ 0.18	$ 0.85	1.00%	$ 30.31	20%	$ 36.3765	$1.8038
		$ 0.31	$ 0.674	$ 0.01	$ 14.08			

Inflation Rate	1.000%	
Long Term Discount Rate (30yr	3.520%	
Years 21-45 Escalation =	1.00%	(EIA Inflation Rate)

Conservation Credit % attempts to recognize non-quantifiable benefits associated with conservation, including benefits of price certainty & hedge against future carbon costs

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Category	11	12	13	14	15	16	17	18	19	20	21	22
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.378765	$ 0.378021	$ 0.364154	$ 0.366989	$ 0.362995	$ 0.349235	$ 0.353150	$ 0.342073	$ 0.335099	$ 0.333134	$ 0.33	$ 0.32
Nominal Cost Per Therm	$ 0.55	$ 0.57	$ 0.57	$ 0.60	$ 0.61	$ 0.61	$ 0.64	$ 0.64	$ 0.65	$ 0.67	$ 0.67	$ 0.68
Verification	$0.3788	$0.3780	$0.3642	$0.3670	$0.3630	$0.3492	$0.3532	$0.3421	$0.3351	$0.3331	$0.3250	$0.3171
Resource Portfolio Cost - % Change	2.12%	3.30%	-0.26%	4.33%	2.38%	-0.41%	4.69%	0.27%	1.41%	2.91%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 5.79	$ 6.36	$ 6.93	$ 7.53	$ 8.14	$ 8.75	$ 9.38	$ 10.02	$ 10.67	$ 11.33	$ 12.00	$ 12.68
Portfolio Costs with 10% Conservation Credit	$6.37	$7.00	$7.63	$8.28	$8.95	$9.62	$10.32	$11.02	$11.73	$12.47	$13.21	$13.95
Cost-Effectiveness Limit	$0.6144	$0.6219	$0.6286	$0.6370	$0.6458	$0.6538	$0.6632	$0.6722	$0.6812	$0.6908	$0.7003	$0.7097

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Category	23	24	25	26	27	28	29	30	31	32	33	34
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.24
Nominal Cost Per Therm	$ 0.69	$ 0.69	$ 0.70	$ 0.71	$ 0.71	$ 0.72	$ 0.73	$ 0.74	$ 0.74	$ 0.75	$ 0.76	$ 0.76
Verification	$0.3094	$0.3018	$0.2945	$0.2873	$0.2803	$0.2735	$0.2669	$0.2604	$0.2540	$0.2478	$0.2418	$0.2359
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 13.37	$ 14.06	$ 14.76	$ 15.47	$ 16.18	$ 16.90	$ 17.63	$ 18.36	$ 19.11	$ 19.86	$ 20.61	$ 21.38
Portfolio Costs with 10% Conservation Credit	$14.71	$15.47	$16.24	$17.01	$17.80	$18.59	$19.39	$20.20	$21.02	$21.84	$22.67	$23.52
Cost-Effectiveness Limit	$0.7189	$0.7281	$0.7373	$0.7464	$0.7555	$0.7646	$0.7736	$0.7827	$0.7918	$0.8010	$0.8101	$0.8193

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Category	35	36	37	38	39	40	41	42	43	44	45
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18
Nominal Cost Per Therm	$ 0.77	$ 0.78	$ 0.79	$ 0.80	$ 0.80	$ 0.81	$ 0.82	$ 0.83	$ 0.84	$ 0.84	$ 0.85
Verification	$0.2302	$0.2246	$0.2191	$0.2138	$0.2086	$0.2035	$0.1985	$0.1937	$0.1890	$0.1844	$0.1799
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 22.15	$ 22.93	$ 23.72	$ 24.51	$ 25.32	$ 26.13	$ 26.95	$ 27.78	$ 28.62	$ 29.46	$ 30.31
Portfolio Costs with 10% Conservation Credit	$24.37	$25.22	$26.09	$26.97	$27.85	$28.74	$29.65	$30.56	$31.48	$32.41	$33.35
Cost-Effectiveness Limit	$0.8285	$0.8378	$0.8471	$0.8565	$0.8659	$0.8754	$0.8850	$0.8946	$0.9043	$0.9140	$0.9238

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate	1.000%		
Long Term Discount Rate (30yr mortgage rate)	3.520%	$ 0.67	$ 0.87
Revised Inflation Rate	0.000%		
Years 21-45 Escalation =	1.00%		

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Category	1	2	3	4	5	6	7	8	9	10
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.506693	$ 0.483023	$ 0.462176	$ 0.441776	$ 0.435357	$ 0.436553	$ 0.416410	$ 0.415617	$ 0.403763	$ 0.391278
Nominal Cost Per Therm	$ 0.524500	$ 0.52	$ 0.51	$ 0.51	$ 0.52	$ 0.54	$ 0.53	$ 0.55	$ 0.55	$ 0.55
Verification	$ 0.506665	$ 0.48	$0.4622	$0.4417	$0.4354	$0.4366	$0.4164	$0.4156	$0.4037	$0.3913
Resource Portfolio Cost - % Change		-1.32%	-0.95%	-1.05%	2.03%	3.81%	-1.27%	3.32%	0.57%	0.33%
PV of Resource Portfolio Cost/Therm	$ 0.524500	$ 1.04	$ 1.55	$ 2.06	$ 2.58	$ 3.12	$ 3.65	$ 4.20	$ 4.75	$ 5.30
Portfolio Costs with 10% Conservation Credit	$ 0.576950	$1.15	$1.71	$2.27	$2.84	$3.43	$4.01	$4.62	$5.22	$5.83
Cost-Effectiveness Limit	$ 0.582720	$0.5818	$0.5815	$0.5813	$0.5847	$0.5916	$0.5963	$0.6032	$0.6096	$0.6155

* 2016 IRP Start - All Resources Medium Forecast Scenario Average Weather. 8.76% discount rate (CNGC weighted average cost of capital) utilized in Sendout Model.

AVOIDED COST ESTIMATES
EXPECTED SCENARIO for WASHINGTON
45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	RESOURCE PORTFOLIO COST - % CHANGE	PV OF RESOURCE PORTFOLIO COST/THERM	Non-Energy Benefits %	PORTFOLIO COSTS INCLUDING CONSERVATIO CREDIT	COST-EFFECTIVENESS LIMIT
2017	1	$ 0.51	$ 0.52		$ 0.52	5%	$ 0.5507	$0.5737
2018	2	$ 0.48	$ 0.52	-1.32%	$ 1.04	5%	$ 1.0942	$0.5816
2019	3	$ 0.46	$ 0.51	-0.95%	$ 1.55	5%	$ 1.6325	$0.5902
2020	4	$ 0.44	$ 0.51	-1.05%	$ 2.06	5%	$ 2.1652	$0.5989
2021	**5**	**$ 0.44**	**$ 0.52**	**2.03%**	**$ 2.58**	7.5%	**$ 2.7732**	$0.6259
2022	6	$ 0.44	$ 0.54	3.81%	$ 3.12	7.5%	$ 3.3508	$0.6427
2023	7	$ 0.42	$ 0.53	-1.27%	$ 3.65	7.5%	$ 3.9211	$0.6574
2024	8	$ 0.42	$ 0.55	3.32%	$ 4.20	7.5%	$ 4.5103	$0.6746
2025	9	$ 0.40	$ 0.55	0.57%	$ 4.75	7.5%	$ 5.1028	$0.6916
2026	**10**	**$ 0.39**	**$ 0.55**	**0.33%**	**$ 5.30**	10.0%	**$ 5.8298**	$0.7249
2027	11	$ 0.39	$ 0.57	2.26%	$ 5.87	10%	$ 6.4518	$0.7432
2028	12	$ 0.39	$ 0.59	3.89%	$ 6.45	10%	$ 7.0981	$0.7638
2029	13	$ 0.38	$ 0.59	0.34%	$ 7.04	10%	$ 7.7465	$0.7840
2030	14	$ 0.38	$ 0.61	3.95%	$ 7.66	10%	$ 8.4206	$0.8061
2031	15	$ 0.38	$ 0.63	3.17%	$ 8.29	12.5%	$ 9.3232	$0.8485
2032	16	$ 0.36	$ 0.63	0.13%	$ 8.92	12.5%	$ 10.0353	$0.8721
2033	17	$ 0.37	$ 0.66	4.33%	$ 9.58	12.5%	$ 10.7783	$0.8977
2034	18	$ 0.36	$ 0.66	0.23%	$ 10.24	12.5%	$ 11.5229	$0.9229
2035	19	$ 0.35	$ 0.67	1.31%	$ 10.91	12.5%	$ 12.2774	$0.9483
2036	**20**	**$ 0.34**	**$ 0.68**	**1.34%**	**$ 11.59**	12.5%	**$ 13.0419**	$0.9741
2037	21	$ 0.33	$ 0.69	1.00%	$ 12.28	15%	$ 14.1211	$1.0224
2038	22	$ 0.32	$ 0.69	1.00%	$ 12.97	15%	$ 14.9183	$1.0492
2039	23	$ 0.32	$ 0.70	1.00%	$ 13.67	15%	$ 15.7235	$1.0762
2040	24	$ 0.31	$ 0.71	1.00%	$ 14.38	15%	$ 16.5368	$1.1036
2041	25	$ 0.30	$ 0.71	1.00%	$ 15.09	15%	$ 17.3582	$1.1312
2042	26	$ 0.29	$ 0.72	1.00%	$ 15.82	17.5%	$ 18.5832	$1.1843
2043	27	$ 0.29	$ 0.73	1.00%	$ 16.54	17.5%	$ 19.4394	$1.2132
2044	28	$ 0.28	$ 0.74	1.00%	$ 17.28	17.5%	$ 20.3041	$1.2425
2045	29	$ 0.27	$ 0.74	1.00%	$ 18.02	17.5%	$ 21.1774	$1.2721
2046	**30**	**$ 0.27**	**$ 0.75**	**1.00%**	**$ 18.77**	**17.5%**	**$ 22.0595**	$1.3022
2047	31	$ 0.26	$ 0.76	1.00%	$ 19.53	20%	$ 23.4387	$1.3609
2048	32	$ 0.25	$ 0.77	1.00%	$ 20.30	20%	$ 24.3576	$1.3924
2049	33	$ 0.25	$ 0.77	1.00%	$ 21.07	20%	$ 25.2858	$1.4243
2050	34	$ 0.24	$ 0.78	1.00%	$ 21.85	20%	$ 26.2232	$1.4567
2051	35	$ 0.24	$ 0.79	1.00%	$ 22.64	20%	$ 27.1700	$1.4895
2052	36	$ 0.23	$ 0.80	1.00%	$ 23.44	20%	$ 28.1262	$1.5227
2053	37	$ 0.22	$ 0.80	1.00%	$ 24.24	20%	$ 29.0921	$1.5564
2054	38	$ 0.22	$ 0.81	1.00%	$ 25.06	20%	$ 30.0675	$1.5906
2055	39	$ 0.21	$ 0.82	1.00%	$ 25.88	20%	$ 31.0528	$1.6252
2056	**40**	**$ 0.21**	**$ 0.83**	**1.00%**	**$ 26.71**	20%	**$ 32.0479**	$1.6604
2057	41	$ 0.20	$ 0.84	1.00%	$ 27.54	20%	$ 33.0529	$1.6960
2058	42	$ 0.20	$ 0.85	1.00%	$ 28.39	20%	$ 34.0680	$1.7321
2059	43	$ 0.19	$ 0.85	1.00%	$ 29.24	20%	$ 35.0932	$1.7687
2060	44	$ 0.19	$ 0.86	1.00%	$ 30.11	20%	$ 36.1287	$1.8058
2061	45	$ 0.18	$ 0.87	1.00%	$ 30.98	20%	$ 37.1746	$1.8434
		$ 0.32	$ 0.688	$ 0.01	$ 14.38			

Inflation Rate	1.000%	
Long Term Discount Rate (30yr	3.520%	
Years 21-45 Escalation =	1.00%	(EIA Inflation Rate)

Conservation Credit % attempts to recognize non-quantifiable benefits associated with conservation, including benefits of price certainty & hedge against future carbon costs

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Category	11	12	13	14	15	16	17	18	19	20	21	22
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.386506	$ 0.387919	$ 0.375957	$ 0.377542	$ 0.376277	$ 0.363919	$ 0.366789	$ 0.355097	$ 0.347535	$ 0.340225	$ 0.33	$ 0.32
Nominal Cost Per Therm	$ 0.57	$ 0.59	$ 0.59	$ 0.61	$ 0.63	$ 0.63	$ 0.66	$ 0.66	$ 0.67	$ 0.68	$ 0.69	$ 0.69
Verification	$0.3865	$0.3879	$0.3760	$0.3776	$0.3763	$0.3639	$0.3668	$0.3551	$0.3475	$0.3402	$0.3319	$0.3239
Resource Portfolio Cost - % Change	2.26%	3.89%	0.34%	3.95%	3.17%	0.13%	4.33%	0.23%	1.31%	1.34%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 5.87	$ 6.45	$ 7.04	$ 7.66	$ 8.29	$ 8.92	$ 9.58	$ 10.24	$ 10.91	$ 11.59	$ 12.28	$ 12.97
Portfolio Costs with 10% Conservation Credit	$6.45	$7.10	$7.75	$8.42	$9.12	$9.81	$10.54	$11.27	$12.00	$12.75	$13.51	$14.27
Cost-Effectiveness Limit	$0.6223	$0.6307	$0.6384	$0.6476	$0.6575	$0.6667	$0.6772	$0.6871	$0.6969	$0.7067	$0.7163	$0.7258

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Category	23	24	25	26	27	28	29	30	31	32	33	34
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.32	$ 0.31	$ 0.30	$ 0.29	$ 0.29	$ 0.28	$ 0.27	$ 0.27	$ 0.26	$ 0.25	$ 0.25	$ 0.24
Nominal Cost Per Therm	$ 0.70	$ 0.71	$ 0.71	$ 0.72	$ 0.73	$ 0.74	$ 0.74	$ 0.75	$ 0.76	$ 0.77	$ 0.77	$ 0.78
Verification	$0.3160	$0.3083	$0.3008	$0.2935	$0.2863	$0.2793	$0.2725	$0.2659	$0.2594	$0.2531	$0.2470	$0.2410
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 13.67	$ 14.38	$ 15.09	$ 15.82	$ 16.54	$ 17.28	$ 18.02	$ 18.77	$ 19.53	$ 20.30	$ 21.07	$ 21.85
Portfolio Costs with 10% Conservation Credit	$15.04	$15.82	$16.60	$17.40	$18.20	$19.01	$19.83	$20.65	$21.49	$22.33	$23.18	$24.04
Cost-Effectiveness Limit	$0.7352	$0.7446	$0.7539	$0.7632	$0.7724	$0.7817	$0.7909	$0.8002	$0.8095	$0.8188	$0.8281	$0.8375

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Category	35	36	37	38	39	40	41	42	43	44	45
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.24	$ 0.23	$ 0.22	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18
Nominal Cost Per Therm	$ 0.79	$ 0.80	$ 0.80	$ 0.81	$ 0.82	$ 0.83	$ 0.84	$ 0.85	$ 0.85	$ 0.86	$ 0.87
Verification	$0.2351	$0.2294	$0.2238	$0.2183	$0.2130	$0.2078	$0.2028	$0.1978	$0.1930	$0.1883	$0.1837
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 22.64	$ 23.44	$ 24.24	$ 25.06	$ 25.88	$ 26.71	$ 27.54	$ 28.39	$ 29.24	$ 30.11	$ 30.98
Portfolio Costs with 10% Conservation Credit	$24.91	$25.78	$26.67	$27.56	$28.47	$29.38	$30.30	$31.23	$32.17	$33.12	$34.08
Cost-Effectiveness Limit	$0.8469	$0.8563	$0.8658	$0.8754	$0.8850	$0.8947	$0.9044	$0.9142	$0.9241	$0.9341	$0.9441

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate	1.000%		
Long Term Discount Rate (30yr mortgage rate)	3.520%	2035	2061
Revised Inflation Rate	0.000%	$ 0.60	$ 0.80
Years 21-45 Escalation =	1.00%		

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Category	1	2	3	4	5	6	7	8	9	10
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.494815	$ 0.476704	$ 0.456791	$ 0.430432	$ 0.420555	$ 0.421084	$ 0.395073	$ 0.397574	$ 0.383722	$ 0.371883
Nominal Cost Per Therm	$ 0.512200	$ 0.51	$ 0.51	$ 0.49	$ 0.50	$ 0.52	$ 0.50	$ 0.52	$ 0.52	$ 0.53
Verification	$ 0.494784	$ 0.48	$0.4567	$0.4304	$0.4206	$0.4211	$0.3951	$0.3975	$0.3837	$0.3719
Resource Portfolio Cost - % Change		-0.25%	-0.82%	-2.45%	1.15%	3.64%	-2.88%	4.17%	-0.08%	0.32%
PV of Resource Portfolio Cost/Therm	$ 0.512200	$ 1.02	$ 1.53	$ 2.02	$ 2.52	$ 3.04	$ 3.55	$ 4.07	$ 4.59	$ 5.12
Portfolio Costs with 10% Conservation Credit	$ 0.563420	$1.13	$1.68	$2.23	$2.78	$3.35	$3.90	$4.48	$5.05	$5.63
Cost-Effectiveness Limit	$ 0.569054	$0.5712	$0.5722	$0.5706	$0.5721	$0.5774	$0.5797	$0.5851	$0.5899	$0.5946

* 2016 IRP Start - All Resources Medium Forecast Scenario Average Weather. 8.76% discount rate (CNGC weighted average cost of capital) utilized in Sendout Model.

AVOIDED COST ESTIMATES
EXPECTED SCENARIO for OREGON
45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	RESOURCE PORTFOLIO COST - % CHANGE	PV OF RESOURCE PORTFOLIO COST/THERM	Non-Energy Benefits %	PORTFOLIO COSTS INCLUDING CONSERVATIO CREDIT	COST-EFFECTIVENESS LIMIT
2017	1	$ 0.49	$ 0.51		$ 0.51	5%	$ 0.5378	$0.5602
2018	2	$ 0.48	$ 0.51	-0.25%	$ 1.02	5%	$ 1.0743	$0.5710
2019	3	$ 0.46	$ 0.51	-0.82%	$ 1.53	5%	$ 1.6063	$0.5807
2020	4	$ 0.43	$ 0.49	-2.45%	$ 2.02	5%	$ 2.1253	$0.5878
2021	**5**	**$ 0.42**	**$ 0.50**	**1.15%**	**$ 2.52**	7.5%	**$ 2.7134**	$0.6124
2022	6	$ 0.42	$ 0.52	3.64%	$ 3.04	7.5%	$ 3.2705	$0.6273
2023	7	$ 0.40	$ 0.50	-2.88%	$ 3.55	7.5%	$ 3.8115	$0.6390
2024	8	$ 0.40	$ 0.52	4.17%	$ 4.07	7.5%	$ 4.3751	$0.6544
2025	9	$ 0.38	$ 0.52	-0.08%	$ 4.59	7.5%	$ 4.9383	$0.6693
2026	**10**	**$ 0.37**	**$ 0.53**	**0.32%**	**$ 5.12**	10.0%	**$ 5.6313**	$0.7002
2027	11	$ 0.36	$ 0.53	1.60%	$ 5.65	10%	$ 6.2187	$0.7164
2028	12	$ 0.36	$ 0.55	2.81%	$ 6.20	10%	$ 6.8226	$0.7342
2029	13	$ 0.35	$ 0.55	-0.35%	$ 6.75	10%	$ 7.4245	$0.7514
2030	14	$ 0.35	$ 0.57	4.00%	$ 7.32	10%	$ 8.0504	$0.7707
2031	15	$ 0.34	$ 0.58	1.79%	$ 7.90	12.5%	$ 8.8849	$0.8086
2032	16	$ 0.33	$ 0.58	-0.73%	$ 8.47	12.5%	$ 9.5318	$0.8283
2033	17	$ 0.33	$ 0.60	4.33%	$ 9.07	12.5%	$ 10.2067	$0.8501
2034	18	$ 0.32	$ 0.60	-0.25%	$ 9.67	12.5%	$ 10.8799	$0.8714
2035	19	$ 0.31	$ 0.60	0.95%	$ 10.28	12.5%	$ 11.5595	$0.8929
2036	**20**	**$ 0.31**	**$ 0.63**	**3.84%**	**$ 10.90**	12.5%	**$ 12.2652**	$0.9161
2037	21	$ 0.31	$ 0.63	1.00%	$ 11.54	15%	$ 13.2664	$0.9605
2038	22	$ 0.30	$ 0.64	1.00%	$ 12.18	15%	$ 14.0023	$0.9847
2039	23	$ 0.29	$ 0.65	1.00%	$ 12.82	15%	$ 14.7455	$1.0093
2040	24	$ 0.28	$ 0.65	1.00%	$ 13.47	15%	$ 15.4962	$1.0341
2041	25	$ 0.28	$ 0.66	1.00%	$ 14.13	15%	$ 16.2544	$1.0593
2042	26	$ 0.27	$ 0.67	1.00%	$ 14.80	17.5%	$ 17.3902	$1.1083
2043	27	$ 0.26	$ 0.67	1.00%	$ 15.47	17.5%	$ 18.1804	$1.1347
2044	28	$ 0.26	$ 0.68	1.00%	$ 16.15	17.5%	$ 18.9786	$1.1614
2045	29	$ 0.25	$ 0.69	1.00%	$ 16.84	17.5%	$ 19.7847	$1.1885
2046	**30**	**$ 0.25**	**$ 0.69**	**1.00%**	**$ 17.53**	**17.5%**	**$ 20.5989**	$1.2159
2047	31	$ 0.24	$ 0.70	1.00%	$ 18.23	20%	$ 21.8770	$1.2703
2048	32	$ 0.23	$ 0.71	1.00%	$ 18.94	20%	$ 22.7252	$1.2991
2049	33	$ 0.23	$ 0.71	1.00%	$ 19.65	20%	$ 23.5819	$1.3284
2050	34	$ 0.22	$ 0.72	1.00%	$ 20.37	20%	$ 24.4472	$1.3580
2051	35	$ 0.22	$ 0.73	1.00%	$ 21.10	20%	$ 25.3212	$1.3881
2052	36	$ 0.21	$ 0.74	1.00%	$ 21.84	20%	$ 26.2038	$1.4186
2053	37	$ 0.21	$ 0.74	1.00%	$ 22.58	20%	$ 27.0953	$1.4496
2054	38	$ 0.20	$ 0.75	1.00%	$ 23.33	20%	$ 27.9957	$1.4810
2055	39	$ 0.20	$ 0.76	1.00%	$ 24.09	20%	$ 28.9051	$1.5128
2056	**40**	**$ 0.19**	**$ 0.77**	**1.00%**	**$ 24.85**	20%	**$ 29.8237**	$1.5451
2057	41	$ 0.19	$ 0.77	1.00%	$ 25.63	20%	$ 30.7514	$1.5779
2058	42	$ 0.18	$ 0.78	1.00%	$ 26.41	20%	$ 31.6883	$1.6111
2059	43	$ 0.18	$ 0.79	1.00%	$ 27.20	20%	$ 32.6347	$1.6448
2060	44	$ 0.17	$ 0.80	1.00%	$ 27.99	20%	$ 33.5905	$1.6789
2061	45	$ 0.17	$ 0.80	1.00%	$ 28.80	20%	$ 34.5558	$1.7135
		$ 0.30	$ 0.640	$ 0.01	$ 13.47			

Inflation Rate	1.000%	
Long Term Discount Rate (30yr	3.520%	
Years 21-45 Escalation =	1.00%	(EIA Inflation Rate)

Conservation Credit % attempts to recognize non-quantifiable benefits associated with conservation, including benefits of price certainty & hedge against future carbon costs

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Category	11	12	13	14	15	16	17	18	19	20	21	22
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.364963	$ 0.362449	$ 0.348928	$ 0.350590	$ 0.344732	$ 0.330578	$ 0.333189	$ 0.321038	$ 0.313089	$ 0.314022	$ 0.31	$ 0.30
Nominal Cost Per Therm	$ 0.53	$ 0.55	$ 0.55	$ 0.57	$ 0.58	$ 0.58	$ 0.60	$ 0.60	$ 0.60	$ 0.63	$ 0.63	$ 0.64
Verification	$0.3650	$0.3625	$0.3489	$0.3506	$0.3447	$0.3306	$0.3332	$0.3210	$0.3131	$0.3140	$0.3064	$0.2989
Resource Portfolio Cost - % Change	1.60%	2.81%	-0.35%	4.00%	1.79%	-0.73%	4.33%	-0.25%	0.95%	3.84%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 5.65	$ 6.20	$ 6.75	$ 7.32	$ 7.90	$ 8.47	$ 9.07	$ 9.67	$ 10.28	$ 10.90	$ 11.54	$ 12.18
Portfolio Costs with 10% Conservation Credit	$6.22	$6.82	$7.42	$8.05	$8.69	$9.32	$9.98	$10.64	$11.30	$11.99	$12.69	$13.39
Cost-Effectiveness Limit	$0.5998	$0.6062	$0.6119	$0.6191	$0.6266	$0.6332	$0.6413	$0.6487	$0.6561	$0.6646	$0.6729	$0.6812

* 2016 IRP Start - All Resources Medium Forecast

0.951219512

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Category	23	24	25	26	27	28	29	30	31	32	33	34
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.29	$ 0.28	$ 0.28	$ 0.27	$ 0.26	$ 0.26	$ 0.25	$ 0.25	$ 0.24	$ 0.23	$ 0.23	$ 0.22
Nominal Cost Per Therm	$ 0.65	$ 0.65	$ 0.66	$ 0.67	$ 0.67	$ 0.68	$ 0.69	$ 0.69	$ 0.70	$ 0.71	$ 0.71	$ 0.72
Verification	$0.2917	$0.2846	$0.2776	$0.2709	$0.2643	$0.2578	$0.2516	$0.2454	$0.2395	$0.2336	$0.2280	$0.2224
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 12.82	$ 13.47	$ 14.13	$ 14.80	$ 15.47	$ 16.15	$ 16.84	$ 17.53	$ 18.23	$ 18.94	$ 19.65	$ 20.37
Portfolio Costs with 10% Conservation Credit	$14.10	$14.82	$15.55	$16.28	$17.02	$17.77	$18.52	$19.28	$20.05	$20.83	$21.62	$22.41
Cost-Effectiveness Limit	$0.6895	$0.6977	$0.7060	$0.7142	$0.7224	$0.7307	$0.7389	$0.7472	$0.7555	$0.7639	$0.7723	$0.7808

* 2016 IRP Start - All Resources Medium Forecast

Inflation Rate
Long Term Discount Rate (30yr mortgage rate)
Revised Inflation Rate
Years 21-45 Escalation =

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Category	35	36	37	38	39	40	41	42	43	44	45
IRP Annual Portfolio Cost Per Therm (PV)*	$ 0.22	$ 0.21	$ 0.21	$ 0.20	$ 0.20	$ 0.19	$ 0.19	$ 0.18	$ 0.18	$ 0.17	$ 0.17
Nominal Cost Per Therm	$ 0.73	$ 0.74	$ 0.74	$ 0.75	$ 0.76	$ 0.77	$ 0.77	$ 0.78	$ 0.79	$ 0.80	$ 0.80
Verification	$0.2170	$0.2117	$0.2066	$0.2015	$0.1966	$0.1918	$0.1872	$0.1826	$0.1782	$0.1738	$0.1696
Resource Portfolio Cost - % Change	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
PV of Resource Portfolio Cost/Therm	$ 21.10	$ 21.84	$ 22.58	$ 23.33	$ 24.09	$ 24.85	$ 25.63	$ 26.41	$ 27.20	$ 27.99	$ 28.80
Portfolio Costs with 10% Conservation Credit	$23.21	$24.02	$24.84	$25.66	$26.50	$27.34	$28.19	$29.05	$29.92	$30.79	$31.68
Cost-Effectiveness Limit	$0.7893	$0.7978	$0.8064	$0.8151	$0.8238	$0.8326	$0.8415	$0.8504	$0.8594	$0.8684	$0.8776

* 2016 IRP Start - All Resources Medium Forecast

Appendix I

Comments
Matrix

UG-160453

2016 CNGC IRP Comments Matrix Docket UG-160453			
Source	**Comment #**	**Comment**	**Response**
WUTC	1	Attachment A Comments	Cascade recognizes attachment A. Cascade has purchased a new statistical analysis software in SAS and the Company plans to expand its analysis on the demand forecast.
WUTC	2	*Load Forecasting.* The description of the design day is unclear. If Cascade has multiple climate zones, why does it not have a different design day for each zone? The Company's data set includes summer usage data that does not correlate with temperature variations, where seasonal effects may skew results. Staff would also like the Company to explain why residential customer growth rate is the same as the population growth rate and the commercial and industrial growth rate is the same as the employment growth rate. Attachment A of this document details more issues and questions pertaining to forecasting for the Company's consideration.	For the load forecast model, Cascade forecasts demand for a system-wide design day as well as a design day at each weather location. Design day in SENDOUT® is based on the coldest day in the past 30 years, which is a system-wide design day. Due to Cascade's diverse service territory and flexible system, an increase in one HDD in Baker City may have an impact on the entire system. Therefore, a design day at each zone would result in a scenario that has never happened which could be deemed as an unrealistic scenario.
WUTC	3	*Use of Monte Carlo, Definition of Expected Case and Scenarios* . On Page 8-2 the Expected Case is mentioned but not explained, please quantify what is meant by "average weather with peak event" and other expected case definitions, such as "medium load growth", etc. The Expected Case is not explained in the narrative until Section 8, please define sooner in the document. The Company should also explain why Monte Carlo is only used for the Expected Case, as shown in Figures 8-11 through 8-13; example Monte Carlo inputs would be helpful. Also, different scenarios are referenced without description throughout the document. For example, what does hi/medium/low/extreme/mid-case/warm/cold/situation and reference case mean for each scenario, weather, growth, and use per customer? Please define.	The definition of expected scenario has been clarified on page 8-20. An explanation as to why Monte Carlo is only run on the expected scenario has been added to pages 8-27 through 8-30. Monte Carlo runs in SENDOUT® can take in excess of ten hours per 200 draw run, per variable (price or weather.) Being that time has been at a premium with the aggressive IRP schedule, Cascade had to prioritize what Monte Carlo analysis to run, while other scenarios are analyzed deterministically. Analysis of additional scenarios will be an action item for the 2018 IRP. Monte Carlo input examples have been added on pages 8-29 and 8-30. Table 8-1 with descriptions of the Company's different scenarios, along with a glossary explaining the various terms used, has been added to pages 8-4 through 8-6.
WUTC	4	Unserved Demand and Timing. It is unclear how unserved demand is solved for Washington and what scenario was used, see Page 8-12. The Company needs to provide more explanation and provide a resource mix 'solve' for Washington shortfall. For example, what is the maximum contract with counterparty needed, and why is the solution not discussed in the Conclusion of Section 8? Please explain why Page 8-12 lists unserved demand in 2020, yet Page 8-23 states, "Even under an extreme growth scenario, the first forecasted deficiency does not occur until 2021."	Table 8-2 on page 8-17 has been relabeled. Section 8 has been modified to better explain the 'solve' for Washington shortfalls. Formerly on 8-12, the unserved demand on page 8-17 is from the "As-Is" scenario. The conclusion references Cascade's expected scenario. This has been clarified.
WUTC	5	Conservation. The Conservation Potential Assessment (CPA) and target for Washington State belong in the IRP. For Figures 7-3, 7-4 and 7-5, please quantify and identify Cascade's total conservation target for 2017 and 2018 and include in the IRP narrative (Page 5 of the 2017 Plan). Also, please quantify and provide a table in the IRP for the following: total baseline projection with labeled units (Dth), total achievable potential, total economic potential, total technical potential, and cumulative savings as a percent of baseline for technical, economic and achievable potential for Washington. The Company should explain how it decrements economic potential to achievable potential. Also, what is the percentage difference between Cascade's economic and achievable potential? Additional explanation is needed regarding the assumptions made about customer uptake.	Placed a copy of the Goals & Budgets at a glance for 2017 & 2018 in Progress Report section for "Where Cascade is Going" as per request to include targets into the narrative on page 7-9. The Company added language to the Assessing Future Potential subsection in response to the request to explain how the Company decrements Economic potential to Achievable and provided additional explanation around the assumptions made about customer uptake. The Company also included the requested tables in same section. See pages 7-21 through 7-25.
WUTC	6	*Hedging Strategy.* The Company should provide more information on how programmatic hedge percentages are determined and terms set. How is diversification of the portfolio achieved?	The Company provides some expanded narrative about hedge percentages on page 4-19. A discussion on supply diversification is provided on pages 4-8 and 4-9.
WUTC	7	Page 1-3: What is "expected case resource stack" and how it was derived?	For clarification, Cascade is going away from expected case and using the language expected scenario. The "expected case resource stack" is the resources that are utilized in meeting peak day demand at the citygate level. Peak day is explained in Section 3 on pages 3-6 and 3-7. An average year of demand caused by an average year of weather, with one day replaced with peak day, is the weather portion of the expected scenario.
WUTC	8	Figure 1-1/Page 1-5: Please clarify title and narrative; for example, is the title of this graph for 2036? As stated, "Cascade's core load consists approximately 53%..." Is it projected to be 53% in the next 20 years or is it currently consisting of 53%?	Figures 1-1 and 1-2 are for the first forecasted year of 2017. The 53% is also referring to the first forecasted year of 2017. Cascade added the year to the title of the figures.
WUTC	9	Page 1-6: Why was a 20 year forecast not considered? Cascade's demand is principally weather and customer driven; colder the weather or greater the customer count, the greater the demand. This forecast uses 30 years of recent weather history as the "normal" temperatures.	Historically Cascade has used 30 years of weather data. Cascade has noticed other LDCs have looked at the approach of using 20 years and Cascade plans to analyze using 20 years for annual demand planning in the future.
WUTC	10	Page 1-7: Provide more explanation as to why, "…once LNG flows from BC in the early 2020's, we should see AECO prices begin to rise relative to the Rockies."	Cascade has expanded the narrative in Section 1 on pages 1-7 and 1-8 and included an additional figure to demonstrate this increase in LNG demand.
WUTC	11	Page 1-7, Figure 1-4: This map would be more useful if it were larger and had pipeline labels. The "Demand Forecasting" section that begins on page 1-5 is a poorly labeled, confusingly mixed narrative of macroeconomic factors, policy considerations, and supply forecasts. There is little useful information in this section related to how Cascade prepares its load forecast.	Figure 1-4 on page 1-7 has been updated with a legend and a larger version of the map has been provided in Section 13 with Figure 13-12. The "Demand Forecast" subsection within Section 1 has been reconfigured to match the language in Section 3.
WUTC	12	Page 1-8: Cascade states, "US and Canadian LNG exports likely to ramp up by 2022." Please identify export potential and provide additional information as to why it will likely ramp up.	The Company believes it has addressed this comment in the response to comment 10.
WUTC	13	Page 1-9: What regional studies and other utilities' modeling efforts are cited for the price elasticity discussion?	See the response to comment 37.
WUTC	14	Page 1-13: What is a "recourse rate"?	Recourse Rate: cost-of-service based rate for natural gas pipeline service that is on file in a pipeline's tariff and is available to customers who do not negotiate a rate with the pipeline company. Also see negotiated rate. Source: (FERC https://www.ferc.gov/resources/glossary.asp#R). This has been added to Section 13.

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WUTC	15	Page 1-14: The Company states, "Cascade should actively seek to secure satellite LNG directly connected to the distribution system to address potential shortfalls in the area." Explain why.	This is addressed in on page 1-15, additionally in Section 8 with regards to why Satellite LNG is considered.
WUTC	16	Page 1-16, Action Plan: Clean Air Rule compliance begins in 2017. Why didn't the Company model the rule in this IRP, and what are its compliance plans in the meantime?	Cascade locked in its modeling prior to the passing of the Clean Air Rule.
WUTC	17	Page 2-4: Because non-core industrial customers represented about 77% of Cascade's total throughput, what impact does this have on distribution or other aspects of IRP planning?	The IRP is primarily targeted to the Company's core residential, commercial and industrial customers. Cascade provides the bundled upstream transportation and supply for these customers, along with DSM programs. Non-core customers are responsible for securing their own upstream transportation and supply. Cascade only provides distribution service to non-core customers. Consequently, distribution system planning is meeting the demand of both core and non-core customers from the upstream pipeline citygate to distribution system customers. The IRP demand forecast and consideration of DSM are components considered in the modeling of the overall distribution system planning process for distribution system pipeline integrity, reinforcements, potential gate station upgrades, new lines, etc.
WUTC	18	Page 3-4: The description of the design day is unclear. At different points, Cascade appears to state that the design day is a 60HDD and a 56 HDD. Which is it? Also, if Cascade has multiple climate zones, why does it not have a different design day for each zone? For example, Avista, which operates in a climate similar to Cascade's Zone 3, uses an 82 HDD design day. Also, the explanation is unclear as to why 60 HDD produces better results for Cascade's service area.	Design day uses a 56 system wide HDD, not 60. This reflects the coldest day in the past 30 years. Again, Cascade does forecast design day at each Citygate but only models the December 21, 1990 day in SENDOUT®. Cascade clarified peak day on pages 3-6 and 3-7. The 60 vs 65 degree reference temperature is explained on page 3-4 through 3-6 and with Graph 3-1 and 3-2.
WUTC	19	Page 3-4: Why not use a 20 year forecast for the coldest day during the past 20 years, recognizing the recent warming trend?	Historically Cascade has used 30 years of weather data. Cascade has noticed other LDCs have looked at the approach of using 20 years and Cascade plans to analyze using 20 years for peak day planning in the future.
WUTC	20	Table 3-2: Specific natural gas demand drivers should be listed. Was high/low price analyzed? Define each scenario in the sensitivity analysis, including what is meant by reference case.	This has been addressed in Section 3.
WUTC	21	Page 3-7: Specify if load forecast result is for annual average or peak demand. Is the growth rate net of projected conservation savings from DSM programs?	The load forecast stated in Section 3 is for annual average demand. The forecast modeled in SENDOUT® is annual average demand with a system wide max peak day on December 21st of each year in the 20-year planning horizon. Growth rate is applied prior to conservation savings, as this is accounted for in Cascade's DSM conservation planning.
WUTC	22	Figure 3-1: The graphic is not illustrative of the preceding statement, "Cascade projects the ratio between residential, commercial, and industrial to increase significantly in favor of commercial customers. Figure 3-1 displays the relative percentage relationship of expected loads by class."	The statement is referring to the fact that commercial customers are expected to grow from being 37.3% of the total core load to 38.7% of the total core load in 2036.
WUTC	23	Page 3-10: What is meant by good economic conditions and poor economic conditions?	Cascade was simply referring to good economic conditions as the high growth scenario and the poor economic conditions as the low growth scenario.
WUTC	24	Page 3-11: Explain what is meant by "fuzziness" of historic data. Is this statement referencing actual use historic data, and why is this fuzzy?	Cascade clarifies the term "fuzziness" with additional language on page 3-15.
WUTC	25	Page 4-2, Figure 4-1: This map is distorted and incomplete. It should be presented in a larger format with the pipelines labeled.	Figure 4-1 has been updated to fix the image and also provide a legend. The figure has also been enlarged in Section 13 with Figure 13-12.
WUTC	26	Page 4-4: Cascade states, "Needle peaking requirements can also be met through the use of propane air plants or on-site liquefied natural gas (LNG) facilities. Currently, Cascade does not own or operate any LNG facilities along the distribution system." Please provide more on which one would be the preferred facility and why.	Cascade has added narrative to respond to this comment on page 4-4 in Section 4.
WUTC	27	Page 4-6: The IRP should identify and describe the types of delivery services (such as SGS-1) at the beginning of this section. What percentage of total has the Company contracted for service (LS-1) from NWP's Plymouth, Washington LNG facility?	Cascade has added narrative at the beginning of Section 4. SGS-1 and LS-1 are no longer in existence. Cascade has storage services at Jackson Prairie as well as Plymouth LNG. On page 4-7, the Company states "Cascade has leased approximately 28% of Plymouth's storage capacity."
WUTC	28	Table 4-1: Describe the context of "Principle" and "2016" in the table.	"Principle" refers to the original contracts where "2012" and "2016" refer to contracts that were added in those respective years.
WUTC	29	Page 4-7: Cascade's service areas are mentioned several times in Section 4, please distinguish if these are certificated service areas within which service is to be rendered or currently rendered, as specified in RCW 80.28.190. A GIS map of Cascade's certificated service area would be helpful.	A GIS map of Cascade's certificated service area has been provided in Section 13 with Figure 13-13.
WUTC	30	Page 4-9: The Company should provide additional narrative around its rationale for blending price forecasts. Why are only 2 of the 5 consultants considered? Given EIA's higher forecasts relative to the other sources, and the limitations on the EIA forecasts that the Company identifies, why is the EIA forecast given so much weight in the later years of the forecast?	The Company utilizes a variety of consultants. Some forecast sources only provide projections at varying times (annually, quarterly, bi-annually, etc.) Consequently, not all historical sources are utilized in each IRP. Cascade has removed the consultants not utilized for the 2016 IRP price forecast (Table 4-2.) The Company has also provided some additional text on page 4-10 and 4-11 regarding its rationale for blending its price forecast.
WUTC	31	Page 4-11: Good discussion of supply-side resource options.	The Company appreciates the feedback.

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WUTC	32	Page 4-15: How was Yakima LNG modeled? Was Yakima LNG deemed cost-effective alternative gas supply resource as a new build?	Yakima LNG Facility is referenced on pages 8-18 and 8-19. In the absence of a current LNG study designed specifically for Cascade, the Company attempted to derive at a range of costs based on discussions with industry experts. Cascade reviewed information regarding the LNG facility at Nampa that serves Intermountain Gas. Additionally, Cascade reviewed IRP for PSE and Avista where they have discussed satellite LNG. The Company also considered past analysis of satellite LNG. For example, in 2005 the Company obtained the services of a consultant, Northstar, to identify suitable satellite LNG locations and provide guidance as the feasibility and construction of such a site. About this same time NWP prepared a preliminary proposal whereby they would upgrade the Plymouth LNG Plant to offload LNG to trucks for up to twelve calendar days per year, although Cascade would be responsible for transport to the Company's distribution system. Still, if an LNG facility were located near Plymouth (either utilizing NWP or building Cascade's own facility), then certification to transport the product would also be needed, resulting in bringing federal, state and local regulatory agencies into play. Cascade attempted to quantify the costs by taking those project cost estimates at the time and adjusting for time and inflation. As discussed further in Section 8 the Company will be performing a more detailed analysis of potential satellite LNG vs pipeline expansion solutions during 2017.
WUTC	33	Page 5-3: Why was the Washington Department of Ecology's Clean Air Rule (CAR) not modeled? The fact than an action has been filed by LDC's challenging the CAR does not exempt compliance and analysis.	Cascade locked in its modeling prior to the passing of the Clean Air Rule.
WUTC	34	Page 5-4: Please note, Company commentary on state laws is not appropriate in an IRP "…but CAR is not the solution." The CAR is an existing state rule and regulation.	This language has been removed.
WUTC	35	Page 5-10: Why is CAR analysis not mentioned in the concluding "Proposed Direction" of Section 5?	The CAR is now referenced in the Proposed Direction subsection of Section 5 on page 5-18.
WUTC	36	Page 6-2: When were avoided costs discussed with the Advisory Group? Please explain in narrative and outcome of discussion. Explain what is meant by "incremental cost advantage." Where did the discount rate originate, source?	Avoided costs were discussed at TAGs 3 and 4. At TAG 3, which was held on August 23, 2016, the Company defined avoided cost components and the role of SENDOUT® in the calculation. At TAG 4, held September 15, 2016, the Company again provided an overview of the avoided cost methodology. The Company supplemented this overview with the projected avoided cost for each of the Washington climate zones through 2036. The Company also provided stakeholders with the cost of the individual components (commodity, transport, storage, etc.) of the avoided cost at the system level through 2036 in Appendix E. The discount rate source is discussed on page 6-3.
WUTC	37	Page 6-4: For Cascade's short-run coefficient price elasticity factor of -0.10, provide more detail on regional studies and other utilities' modeling efforts.	This has been addressed on pages 6-5 and 6-6.
WUTC	38	Page 6-2: Explain what is meant by expected avoided cost. The first time "expected case" is mentioned is on Page 1-3, it is not explained. What is meant by expected weather, expected growth, expected avoided cost and expected case peak day.	Cascade's avoided cost is based on the expected scenario. Expected scenario is clarified in Section 8 on page 8-20. Definitions for expected weather, growth, and expected scenario peak day have been added to Section 8.
WUTC	39	Page 6-6: What is the 20 year expected case scenario and expected case portfolio?	Expected scenario and portfolio have been clarified in Section 8, on pages 8-4 to 8-6.
WUTC	40	Pages 6-8 (also 6-2): Explain more about the 45-year term of avoided costs in the IRP narrative.	Historically, the Company has provided a 45-year avoided cost because some of the insulation measures exceed 30-year lives – thus the 45-year timeframe is used to account for the full measure life.
WUTC	41	Table 6-1: Are calculations for Table 6-1 found in Appendix H? Add reference to table.	This has been clarified on page 6-7.
WUTC	42	Appendix D: Is the colored table with conservation forecasts in Appendix D for Washington or for the system? This table is not labeled and missing units. It would be helpful to include a flow chart of Cascade's DSM modeling methodology. What measures were included for commercial, industrial, and residential?	This table is for Washington. All measures were included for all customer classes. Cascade has updated the table to provide a label and the missing units. The Company has also included a flowchart on page 3 of Appendix D as requested, demonstrating which inputs affect each potential level of the forecast.
WUTC	43	Appendix D: It contains copies of rebate applications, which are not needed in the IRP. Rather, it would be more helpful to list and identify technical, economic and achievable measures and rationale for excluding any measures.	All measures were included in the forecasting since program changes are expected toward the end of Q1 CY 2017. The applications were meant to demonstrate program changes made to ease the customer's application process, and list current portfolios. Cascade has removed the second page of each incentive list as per Staff's recommendation. Language has been added to Appendix D to reference the current portfolio of offerings and exclusion of some of the measures as outlined by Nexant.
WUTC	44	Page 7-2: Explain how Cascade prompts customers. Cascade states, "By prompting customer to reduce their demand for gas, Cascade can displace the need to purchase additional gas supplies…" and "The Company can prompt and encourage customer to reduce their use…"	On page 7-2 the Company has added a clarifying statement "i.e. encouraging and influencing customers through conservation related outreach efforts." Further clarification is available in the Outreach section of the DSM section starting on page 7-27.
WUTC	45	Page 7-3: A graphic showing the savings potential forecast inputs and load forecast, net DSM, would be helpful. Also, please include a summary table quantifying: total baseline projection (Dth), total achievable potential (Dth), total economic potential (Dth), total technical potential (Dth), and cumulative savings as a percent of baseline for technical, economic and achievable potential.	The graphic for forecast inputs is now available on page 3 of Appendix D. The additional requested graphs have been addressed in comment 5 of Appendix I, and on pages 7-21 through 7-25 of the narrative. Labels are in therms, not Dth. Figure 8-9 of Section 8, on page 8-23, breaks down all the incremental resources including DSM used serve peak day demand.
WUTC	46	Page 7-4: Provide more description of how, "future IRPs will have an expanded plan development arc that will allow for better collaboration and alignment of conservation goals and traditional supply resource alternatives."	The Company anticipates the 2018 IRP Work Plan will be expanded from the current eight month period to a fifteen month timeline, further enhancing opportunities to integrate DSM into the IRP.
WUTC	47	Page 7-5: Good discussion of program progression.	The Company appreciates the feedback.

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WUTC	48	Page 7-12: What are the conservation targets in the Subsection titled "Targets"? A table would be useful. Also, where is this located "See Section 2016-2017 targets for additional details"? How does conservation reduce peak? This is not clear in any tables or charts.	Page 7-13 - The subsection labeled "Targets" is intended to explain how targets are developed, as opposed to listing out the actual targets for the 20-year forecast. The Company has altered the title to be more clear to "Target Development." Cascade has also moved the actual targets into the section itself from the Appendix as requested. The Company has also removed the 2016-2017 comment as it referred to an earlier iteration of the IRP. See page 7-10 and pages 7-21 through 7-25. Regarding the peak reduction question - At this point in time Conservation for Cascade does not have a significant impact on reducing peak, but the Company is hopeful that continued efforts will have a greater influence on peak and will allow future pictorial representations of this potential impact in subsequent IRPs. Current impact is shown in Figures 8-8 and 8-9 on page 8-23
WUTC	49	Page 7-8: In the subsection "Progress Report - Where we're going and where we've been", the table shows 2012 and 2014 years and goals and actuals, which is helpful, but where is the target for *where we're going* in the 2016 IRP (2017-18)?	On page 7-10, Table 7-1 has been modified to include goals for the next two years. The following narrative has been added to page 7-9: "Company therm savings achievements for the past two years compared to the 2012 IRP and the 2014 IRP goals are noted in the chart below inclusive of the next two years' worth of goals (2017 and 2018) to demonstrate what the Company is striving toward in the near future."
WUTC	50	Table 7-1: It would also be helpful in this table to have the conservation 'actuals' by class such as residential/low-income, commercial and industrial.	Page 7-10: The Company wishes to maintain the format of this table as it is intended to represent the portfolio accomplishments of the program for the past three years - however as requested Cascade has added in the goals moving into the near term (2017 & 2018). Breaking out the accomplishments by program type in this table would not allow the quick reference to percent difference from Goal as can be seen in this iteration. Also, please note the program accomplishments vary greatly from year to year in the commercial/industrial sector based on one-off custom projects and representation at a full portfolio level allows a clearer parity from year to year to demonstrate the ebb and flow of overall program accomplishments.
WUTC	51	Page 7-12: What are "aspirational" targets in the context of technical, economic and achievable, see graphic provided on Page 7-11. This term is confusing; it was not defined within the TEA-Pot model, Page 7-9, or defined in Figure 7-7. Suggest using consistent terminology aligned with model narrative.	The Company agreed not to further decrement savings potential to a programmatic level below the achievable level as per stakeholder direction in 2015. This agreement on behalf of the Company was against the recommendations in the Nexant potential study excerpt included here for reference: "The natural gas savings potential highlighted in this report does not reflect "program potential", but rather achievable potential which assumes all cost-effective measures are pursued and implemented. Also, the measure costs utilized for the purposes of the potential assessment are lower resolution than those that would be available by the company for program planning. For program planning purposes the costs may be refined by the company to better reflect costs in their specific service territory", Nexant Potential Study, Volume 1: Executive Summary of Cascade Natural Gas Corporation Assessment of Achievable Potential & Program Evaluation, page 8-26. Keeping the on-the-ground reality in mind, the Company agreed to set the goals at the Achievable level to ease transparency through the TEA-Pot model, but maintained that these goals would be aspirational as they do not take into account all of the variables that Cascade sees as program implementers, although the Company has included administrative costs into the model this year. Keeping in mind the "Achievable" targets include all possible cost-effective measures from Nexant, and not the current program portfolio, the Company maintains the goals are aspirational. On pages 7-11 and 7-13 Cascade includes a copy as to the use of the word "aspirational".
WUTC	52	Page 7-13: A table of "unique inputs" would be illustrative for each climate zone.	Page 7-15 Table 7-3: Placed in the Climate Zone Centered Modeling subsection - This table shows ranges of inputs per climate zone. It was too cumbersome and lengthy to include all variable inputs in the table.
WUTC	53	Page 7-16: How will Cascade plan to incorporate a fully-balanced TRC cost effectiveness metric within the planning horizon? The Commission stated its preference for a 'fully balanced' TRC in its Policy Statement on the Evaluation of the Cost-Effectiveness of Natural Gas Conservation Programs in Docket UG-121207.	The Company does not believe movement toward a TRC cost-effectiveness metric is in the best interest of its customers, keeping in mind the Company's desire to maintain as robust of a portfolio as possible. Historically use of the TRC with gas price fluctuations has resulted in reduced program portfolios and ultimately reduced potential. Direction from stakeholders, including the WUTC, has indicated a desire for Cascade to increase its energy efficiency efforts and strive toward higher targets. At this point and time the Company plans to continue to utilize the Utility Cost Test as per Docket UG-121207 allowance in close collaboration with Cascade's Conservation Advisory Group.
WUTC	54	Page 8-2: Table 7-1 (list of scenarios included in this IRP) appears to be missing and not located near the narrative. Please include properly labelled tables, located near the narrative in which they are referenced. Also, the expected case definition is unclear; it would be more helpful if quantified and in a table format. The scenario utilized in Monte Carlo is not clearly identified in the narrative. For example, what is the Medium Growth/Price, Average weather with Peak Event?	The table showing list of scenarios has been updated to Table 8-1. The expected scenario definition has been clarified on page 8-20, as well as added to Table 8-1. The Company has clarified that the scenario used for Monte Carlo simulations is the expected scenario on page 8-2 and 8-3, and this is further discussed on pages 8-27 through 8-30. The definitions for the different types of growth, price, and weather variables have been added to pages 8-4 through 8-6.
WUTC	55	Page 8-3: Please explain the new, in-house load forecast model (LFM) application in greater detail.	The wording of this has been clarified on page 8-7. Details about the model have been addressed in Section 3.
WUTC	56	Page 8-4: Please explain how VectorGas utilizes a Monte Carlo approach. Is this program still in use by Cascade? (Previously the company indicated that VectorGas should not be in the IRP.)	The Company referred to VectorGas in error. The former VectorGas' Monte Carlo functionality was integrated into the SENDOUT® software with SENDOUT® version 12.5. Cascade is using SENDOUT® version 14.3 which includes that Monte Carlo functionality. Therefore, Cascade continues to use Monte Carlo functionality SENDOUT®. The narrative on page 8-8 has been corrected, accordingly.
WUTC	57	Page 8-5: Provide some example tables of Monte Carlo inputs referenced in the first paragraph.	This has been added as Figures 8-18 and 8-19 on page 8-30.
WUTC	58	Table 8-1: Please label units (Dth?) and clarify how unserved demand shortfall is solved with additional resources. Please provide narrative explaining how unserved demand can be solved via "realignment of delivery rights, transportation contract segmentation or other alternative resources."	Units have been updated for all charts and graphs. Narrative related to the "solve" can be found on pages 8-17 through 8-21.
WUTC	59	Figure 8-11: Monte Carlo (random draw simulation) is useful to run weather and price and risk of a variety of a potential portfolio scenarios. Please explain why Monte Carlo is only used for the Expected Case, as depicted in Chapter 8, Figures 8-11 through 8-13. Why were other potential portfolio scenarios excluded in Monte Carlo analysis?	An explanation as to why Monte Carlo is only run on the expected scenario has been added to page 8-27 through 8-30. Monte Carlo runs in SENDOUT® can take in excess of ten hours per 200 draw run, per variable (price or weather.) Being that time has been at a premium with the aggressive IRP schedule, Cascade had to prioritize what Monte Carlo analysis to run, while other scenarios are analyzed deterministically. Analysis of additional scenarios is an action item for the 2018 IRP.

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WUTC	60	Page 8-12: Please clarify potential peak day, what does this mean? What scenario is used for Table 8-1? Expected case is defined on Page 8-2 "Average weather with Peak Event."	Table 8-2 on page 8-17 has been relabeled. Definitions for terms used have been added to pages 8-4 through 8-6.
WUTC	61	How is Washington unserved demand solved, when and with what resource mix? Please clarify the timing/resource discussion to solve shortfall for Washington.	Narrative related to the "solve" can be found on pages 8-17 through 8-21.
WUTC	62	Table 8-1: Please create a Washington-only peak day unserved demand table.	Updated for both the As-Is and Expected scenario in Tables 8-3 and 8-6, respectively.
WUTC	63	Page 8-14 and Page 8-17: Please describe in detail each scenario, such as "Expected Case," "As-Is," "Incremental Transport," and "All In," etc.	This has been added as Table 8-1.
WUTC	64	Page 8-17: Is there a graphic for the "high/low" Monte Carlo runs on price?	Figure 8-4 shows the high and low Monte Carlo runs on price.
WUTC	65	Table 8-3: Again, please define each scenario and "extreme situations" in IRP narrative. What are the resources comprised in the total system cost?	This has been added as Table 8-1.
WUTC	66	Page 8-19: Please summarize and explain growth profiles in the results, rather than reference in Section 3 and Appendix B. Please define the keys with a narrative for Figures 8-11 through 8-14. For example, what scenarios were run for Figures 8-11 through 8-14? Please define low growth weather scenarios – expected case.	This has been clarified with Table 8-1, along with the definitions on pages 8-4 through 8-6.
WUTC	67	Page 8-22: This sentence is confusing. "Through linear methodology and with the addition of scenario planning, through Monte Carlo draws, this produces a stochastic (that is, based on random event planning) twenty year forecast." Suggest rewording to better match Cascade's current IRP forecasting methodology. A flow chart detailing Cascade's IRP methodology would be helpful.	This has been reworded on page 8-31, and a flowchart has been added to page 8-32.
WUTC	68	Page 8-23: Explain what is meant by "Even under an extreme growth scenario, the first forecasted deficiency does not occur until 2021." Why is the 'solve' for this scenario not discussed in the Conclusion of Section 8? Also, Page 8-12 shows unserved demand hitting in 2020. Under which scenario(s)?	Section 8 has been modified to better explain the 'solve' for Washington shortfalls. The unserved demand in Table 8-2 on page 8-17 is from Cascade's "As-Is" scenario, which has been clarified. The conclusion references the Company's expected scenario, and the wording regarding the growth profile and start of deficiency has been clarified.
WUTC	69	Page 9-2: Please include more narrative on Cascade's use of the distribution planning software; a decision flow chart would helpful to illustrate how Synergi informs distribution planning and system enhancements—including graphics from the software would be illustrative.	Cascade has added narrative and an image from Synergi® on page 9-4 to illustrate how Synergi® informs distribution planning and system enhancements.
WUTC	70	Page 9-7: Are any projects projected beyond 2019? What projects have been recently completed that may inform future projects? What is the overall effect of the distribution enhancement plans since the 2014 IRP?	Cascade does have projects projected beyond 2019. On page 9-10, Cascade explains that once a project is completed the data is integrated to ensure the modeling is up to date. The up to date models help inform future projects.
WUTC	71	Good description of public participation opportunities and TAG meeting process.	The Company appreciates the feedback.
WUTC	72	Good overview, background, description of regulatory compliance and public involvement throughout the IRP process.	The Company appreciates the feedback.