

Appendix G

Weather & Price Uncertainty Analysis

2020 WA IRP

Appendix G – Introduction

The purpose of this document is to present data used by Cascade in its stochastic analysis. The presentation of data in this format allows for the transparent review of some of the inputs and results that are part of the Company's risk modeling. This is ultimately used to complete Cascade's scenario and sensitivity modeling as discussed in the Company's supply resource optimization process in Chapter 10, Resource Integration.

	Monthly Demand (Dth)					
	Low Growth -	Low Growth - Stochastic	Expected Growth -	Expected Growth -	High Growth - Expected	High Growth - Stochastic
	Expected Weather	Weather	Expected Weather	Stochastic Weather	Weather	Weather
1/1/2021	5,173,313	5,456,116	5,445,592	5,743,279	5,717,872	6,030,444
2/1/2021	4,198,719	4,331,849	4,419,704	4,559,841	4,640,690	4,787,833
3/1/2021	3,879,732	3,813,393	4,083,928	4,014,098	4,288,125	4,214,803
4/1/2021	2,483,513	2,474,310	2,614,225	2,604,537	2,744,936	2,734,763
5/1/2021	1,576,480	1,549,758	1,659,453	1,631,324	1,742,426	1,712,890
6/1/2021	1,163,942	1,174,104	1,225,202	1,235,899	1,286,462	1,297,694
7/1/2021	1,071,353	1,082,241	1,127,741	1,139,201	1,184,128	1,196,161
8/1/2021	1,022,453	1,035,466	1,076,267	1,089,964	1,130,080	1,144,463
9/1/2021	1,087,783	1,096,669	1,145,035	1,154,388	1,202,287	1,212,107
10/1/2021	1,915,729	1,921,292	2,016,557	2,022,413	2,117,385	2,123,534
11/1/2021	3,269,567	3,263,073	3,441,649	3,434,814	3,613,731	3,606,554
12/1/2021	5,269,367	5,506,211	5,546,702	5,796,012	5,824,037	6,085,812
1/1/2022	5,258,270	5,555,703	5,535,021	5,848,109	5,811,773	6,140,514
2/1/2022	4,268,090	4,412,284	4,492,726	4,644,509	4,717,362	4,876,734
3/1/2022	3,945,127	3,884,831	4,152,765	4,089,296	4,360,404	4,293,761
4/1/2022	2,522,382	2,515,980	2,655,139	2,648,400	2,787,896	2,780,820
5/1/2022	1,611,889	1,587,615	1,696,725	1,671,173	1,781,561	1,754,732
6/1/2022	1,182,897	1,195,422	1,245,155	1,258,339	1,307,412	1,321,256
7/1/2022	1,080,659	1,094,176	1,137,536	1,151,764	1,194,413	1,209,352
8/1/2022	1,046,027	1,060,250	1,101,081	1,116,052	1,156,135	1,171,855
9/1/2022	1,105,272	1,113,152	1,163,449	1,171,738	1,221,621	1,230,325
10/1/2022	1,944,196	1,949,659	2,046,522	2,052,273	2,148,849	2,154,886
11/1/2022	3,317,915	3,315,231	3,492,542	3,489,717	3,667,169	3,664,203
12/1/2022	5,344,165	5,593,947	5,625,437	5,888,365	5,906,708	6,182,783
1/1/2023	5,348,308	5,660,656	5,629,798	5,958,586	5,911,288	6,256,515
2/1/2023	4,336,055	4,490,324	4,564,268	4,726,656	4,792,482	4,962,989
3/1/2023	4,009,250	3,954,453	4,220,263	4,162,582	4,431,276	4,370,711
4/1/2023	2,560,263	2,556,214	2,695,014	2,690,751	2,829,765	2,825,289
5/1/2023	1,647,180	1,625,157	1,733,873	1,710,692	1,820,592	1,796,226
6/1/2023	1,201,546	1,216,046	1,264,785	1,280,048	1,328,024	1,344,050
7/1/2023	1,096,404	1,112,460	1,154,110	1,171,011	1,211,815	1,229,561
8/1/2023	1,062,520	1,078,056	1,118,442	1,134,796	1,174,364	1,191,536
9/1/2023	1,115,498	1,122,389	1,174,209	1,181,462	1,232,919	1,240,535
10/1/2023	1,979,199	1,984,874	2,083,368	2,089,341	2,187,536	2,193,809
11/1/2023	3,365,389	3,366,938	3,542,515	3,544,145	3,719,641	3,721,353
12/1/2023	5,417,669	5,681,062	5,702,810	5,980,065	5,987,950	6,279,069
1/1/2024	5,438,621	5,765,644	5,724,864	6,069,099	6,011,107	6,372,554
2/1/2024	4,551,197	4,729,155	4,790,734	4,978,058	5,030,270	5,226,960
3/1/2024	4,048,095	3,998,596	4,261,152	4,209,048	4,474,210	4,419,501
4/1/2024	2,602,962	2,601,337	2,739,960	2,738,249	2,876,958	2,875,162
5/1/2024	1,662,378	1,642,214	1,749,872	1,728,646	1,837,366	1,815,079
6/1/2024	1,202,771	1,218,977	1,266,074	1,283,133	1,329,378	1,347,290
7/1/2024	1,125,638	1,144,344	1,184,883	1,204,572	1,244,127	1,264,801
8/1/2024	1,069,826	1,086,707	1,126,132	1,143,902	1,182,439	1,201,097
9/1/2024	1,138,572	1,144,838	1,198,497	1,205,093	1,258,421	1,265,348
10/1/2024	2,033,633	2,039,745	2,140,667	2,147,100	2,247,700	2,254,455
11/1/2024	3,425,441	3,431,143	3,605,728	3,611,729	3,786,014	3,792,315
12/1/2024	5,513,517	5,791,910	5,803,702	6,096,747	6,093,887	6,401,585
1/1/2025	5,520,162	5,862,918	5,810,697	6,171,492	6,101,232	6,480,067
2/1/2025	4,467,987	4,642,329	4,703,144	4,886,662	4,938,301	5,130,995
3/1/2025	4,112,133	4,068,320	4,328,560	4,282,441	4,544,989	4,496,564
4/1/2025	2,648,200	2,648,930	2,787,578	2,788,348	2,926,957	2,927,765
5/1/2025	1,683,382	1,665,199	1,771,981	1,752,841	1,860,580	1,840,483
6/1/2025	1,228,475	1,246,684	1,293,132	1,312,299	1,357,789	1,377,914
7/1/2025	1,141,742	1,163,076	1,201,833	1,224,291	1,261,925	1,285,505
8/1/2025	1,078,975	1,097,341	1,135,763	1,155,096	1,192,552	1,212,850
9/1/2025	1,162,838	1,168,950	1,224,040	1,230,473	1,285,242	1,291,997
10/1/2025	2,061,602	2,069,006	2,170,107	2,177,902	2,278,613	2,286,797
11/1/2025	3,465,592	3,477,012	3,647,991	3,660,012	3,830,391	3,843,013
12/1/2025	5,601,626	5,895,952	5,896,449	6,206,265	6,191,271	6,516,579
1/1/2026	5,596,015	5,955,114	5,890,542	6,268,541	6,185,069	6,581,968
2/1/2026	4,536,099	4,722,180	4,774,841	4,970,716	5,013,583	5,219,251
3/1/2026	4,183,874	4,146,748	4,404,077	4,364,998	4,624,281	4,583,247

	Monthly Demand (Dth)					
	Low Growth - Expected Weather	Low Growth - Stochastic Weather	Expected Growth - Expected Weather	Expected Growth - Stochastic Weather	High Growth - Expected Weather	High Growth - Stochastic Weather
4/1/2026	2,693,440	2,697,509	2,835,200	2,839,483	2,976,960	2,981,457
5/1/2026	1,704,349	1,688,671	1,794,051	1,777,549	1,883,754	1,866,426
6/1/2026	1,254,589	1,275,287	1,320,620	1,342,408	1,386,650	1,409,528
7/1/2026	1,157,806	1,182,086	1,218,743	1,244,301	1,279,680	1,306,516
8/1/2026	1,095,256	1,115,196	1,152,901	1,173,891	1,210,546	1,232,585
9/1/2026	1,180,006	1,185,353	1,242,111	1,247,740	1,304,217	1,310,127
10/1/2026	2,082,006	2,089,621	2,191,585	2,199,601	2,301,164	2,309,581
11/1/2026	3,520,254	3,536,010	3,705,531	3,722,116	3,890,807	3,908,222
12/1/2026	5,682,431	5,990,503	5,981,507	6,305,793	6,280,582	6,621,083
1/1/2027	5,671,269	6,045,577	5,969,757	6,363,765	6,268,244	6,681,953
2/1/2027	4,603,908	4,800,349	4,846,219	5,052,999	5,088,530	5,305,649
3/1/2027	4,255,666	4,224,167	4,479,648	4,446,492	4,703,630	4,668,817
4/1/2027	2,738,602	2,745,243	2,882,739	2,889,729	3,026,875	3,034,216
5/1/2027	1,732,581	1,719,167	1,823,769	1,809,649	1,914,958	1,900,132
6/1/2027	1,273,450	1,296,104	1,340,474	1,364,320	1,407,498	1,432,536
7/1/2027	1,166,458	1,193,103	1,227,851	1,255,898	1,289,243	1,318,693
8/1/2027	1,119,050	1,140,432	1,177,948	1,200,455	1,236,645	1,260,477
9/1/2027	1,196,724	1,201,686	1,259,709	1,264,933	1,322,694	1,328,180
10/1/2027	2,101,971	2,109,861	2,212,601	2,220,906	2,323,231	2,331,951
11/1/2027	3,575,020	3,594,953	3,763,179	3,784,161	3,951,338	3,973,369
12/1/2027	5,762,510	6,084,859	6,065,800	6,405,115	6,369,090	6,725,371
1/1/2028	5,753,449	6,143,201	6,056,262	6,466,527	6,359,075	6,789,853
2/1/2028	4,827,684	5,050,188	5,081,773	5,315,988	5,335,861	5,581,787
3/1/2028	4,307,785	4,282,209	4,534,510	4,507,588	4,761,236	4,732,967
4/1/2028	2,751,037	2,759,793	2,895,828	2,905,045	3,040,619	3,050,298
5/1/2028	1,762,237	1,750,847	1,854,986	1,842,996	1,947,735	1,935,146
6/1/2028	1,288,396	1,313,206	1,356,207	1,382,323	1,424,017	1,451,439
7/1/2028	1,173,793	1,202,934	1,235,571	1,266,247	1,297,350	1,329,559
8/1/2028	1,141,102	1,163,850	1,201,160	1,225,105	1,261,218	1,286,360
9/1/2028	1,212,576	1,216,828	1,276,396	1,280,872	1,340,216	1,344,915
10/1/2028	2,157,231	2,166,096	2,270,769	2,280,101	2,384,308	2,394,106
11/1/2028	3,642,846	3,667,653	3,834,574	3,860,687	4,026,303	4,053,722
12/1/2028	5,835,778	6,173,431	6,142,924	6,498,348	6,450,071	6,823,266
1/1/2029	5,849,386	6,255,735	6,157,248	6,584,984	6,465,111	6,914,234
2/1/2029	4,734,451	4,952,096	4,983,633	5,212,732	5,232,815	5,473,369
3/1/2029	4,363,798	4,344,436	4,593,472	4,573,090	4,823,145	4,801,745
4/1/2029	2,803,594	2,815,182	2,951,152	2,963,350	3,098,218	3,111,517
5/1/2029	1,790,549	1,781,427	1,884,788	1,875,186	1,979,028	1,968,946
6/1/2029	1,299,367	1,326,087	1,367,754	1,395,881	1,436,142	1,465,675
7/1/2029	1,197,387	1,229,270	1,260,407	1,293,968	1,323,428	1,358,667
8/1/2029	1,157,297	1,181,734	1,218,207	1,243,931	1,279,117	1,306,127
9/1/2029	1,221,368	1,225,431	1,285,650	1,289,928	1,349,933	1,354,424
10/1/2029	2,192,330	2,202,827	2,307,716	2,318,765	2,423,102	2,434,703
11/1/2029	3,689,570	3,720,625	3,883,758	3,916,448	4,077,946	4,112,270
12/1/2029	5,915,439	6,269,763	6,226,778	6,599,750	6,538,117	6,929,738
1/1/2030	5,931,307	6,355,306	6,243,481	6,689,796	6,555,655	7,024,285
2/1/2030	4,801,631	5,031,918	5,054,348	5,296,756	5,307,066	5,561,594
3/1/2030	4,419,618	4,406,656	4,652,230	4,638,585	4,884,841	4,870,514
4/1/2030	2,856,542	2,870,944	3,006,886	3,022,047	3,157,230	3,173,149
5/1/2030	1,818,814	1,812,100	1,914,541	1,907,473	2,010,268	2,002,847
6/1/2030	1,310,087	1,339,081	1,379,039	1,409,559	1,447,991	1,480,037
7/1/2030	1,221,241	1,256,150	1,285,517	1,322,263	1,349,793	1,388,376
8/1/2030	1,165,642	1,192,066	1,226,991	1,254,806	1,288,341	1,317,546
9/1/2030	1,245,372	1,249,571	1,310,918	1,315,338	1,376,463	1,381,104
10/1/2030	2,219,401	2,230,630	2,336,211	2,348,032	2,453,022	2,465,433
11/1/2030	3,728,260	3,763,943	3,924,484	3,962,045	4,120,708	4,160,148
12/1/2030	6,002,837	6,371,862	6,318,775	6,707,223	6,634,714	7,042,584
1/1/2031	6,012,645	6,453,290	6,329,100	6,792,937	6,645,555	7,132,583
2/1/2031	4,868,527	5,110,033	5,124,766	5,378,982	5,381,004	5,647,931
3/1/2031	4,482,952	4,477,240	4,718,897	4,712,884	4,954,842	4,948,528
4/1/2031	2,901,738	2,919,928	3,054,461	3,073,608	3,207,184	3,227,289
5/1/2031	1,839,148	1,835,517	1,935,945	1,932,123	2,032,742	2,028,729
6/1/2031	1,336,369	1,367,916	1,406,704	1,439,912	1,477,039	1,511,907

	Monthly Demand (Dth)					
	Low Growth - Expected Weather	Low Growth - Stochastic Weather	Expected Growth - Expected Weather	Expected Growth - Stochastic Weather	High Growth - Expected Weather	High Growth - Stochastic Weather
7/1/2031	1,237,259	1,274,748	1,302,378	1,341,840	1,367,496	1,408,932
8/1/2031	1,173,856	1,201,826	1,235,637	1,265,080	1,297,419	1,328,334
9/1/2031	1,269,583	1,273,738	1,336,403	1,340,777	1,403,223	1,407,815
10/1/2031	2,245,907	2,258,177	2,364,112	2,377,029	2,482,318	2,495,880
11/1/2031	3,766,465	3,806,786	3,964,700	4,007,143	4,162,935	4,207,500
12/1/2031	6,089,971	6,474,004	6,410,495	6,814,741	6,731,020	7,155,478
1/1/2032	6,085,347	6,542,755	6,405,628	6,887,110	6,725,909	7,231,465
2/1/2032	5,091,917	5,362,425	5,359,912	5,644,657	5,627,908	5,926,890
3/1/2032	4,549,947	4,550,887	4,789,418	4,790,407	5,028,889	5,029,928
4/1/2032	2,927,718	2,948,917	3,081,809	3,104,123	3,235,899	3,259,329
5/1/2032	1,844,651	1,842,859	1,941,737	1,939,852	2,038,824	2,036,845
6/1/2032	1,359,329	1,393,017	1,430,872	1,466,334	1,502,416	1,539,650
7/1/2032	1,244,020	1,284,102	1,309,495	1,351,686	1,374,970	1,419,271
8/1/2032	1,196,047	1,225,517	1,258,997	1,290,018	1,321,947	1,354,519
9/1/2032	1,292,855	1,296,961	1,360,900	1,365,223	1,428,945	1,433,484
10/1/2032	2,277,456	2,291,350	2,397,323	2,411,948	2,517,189	2,532,545
11/1/2032	3,850,427	3,896,630	4,053,081	4,101,715	4,255,735	4,306,801
12/1/2032	6,177,251	6,578,610	6,502,369	6,924,853	6,827,488	7,271,096
1/1/2033	6,155,782	6,631,081	6,479,771	6,980,085	6,803,759	7,329,089
2/1/2033	4,996,322	5,261,267	5,259,287	5,538,175	5,522,251	5,815,084
3/1/2033	4,612,903	4,620,984	4,855,687	4,864,194	5,098,471	5,107,404
4/1/2033	2,964,176	2,988,544	3,120,185	3,145,836	3,276,195	3,303,127
5/1/2033	1,880,748	1,881,705	1,979,735	1,980,742	2,078,721	2,079,779
6/1/2033	1,377,570	1,413,691	1,450,074	1,488,096	1,522,577	1,562,501
7/1/2033	1,251,737	1,294,568	1,317,618	1,362,703	1,383,499	1,430,839
8/1/2033	1,220,279	1,251,587	1,284,504	1,317,460	1,348,729	1,383,333
9/1/2033	1,308,783	1,313,060	1,377,667	1,382,168	1,446,550	1,451,277
10/1/2033	2,303,539	2,319,085	2,424,778	2,441,142	2,546,017	2,563,199
11/1/2033	3,896,417	3,949,381	4,101,492	4,157,243	4,306,567	4,365,106
12/1/2033	6,247,144	6,666,320	6,575,941	7,017,179	6,904,739	7,368,038
1/1/2034	6,243,625	6,737,971	6,572,237	7,092,601	6,900,849	7,447,231
2/1/2034	5,061,979	5,339,390	5,328,398	5,620,411	5,594,818	5,901,431
3/1/2034	4,675,218	4,690,786	4,921,282	4,937,669	5,167,346	5,184,553
4/1/2034	3,000,244	3,028,014	3,158,151	3,187,383	3,316,059	3,346,752
5/1/2034	1,917,024	1,920,943	2,017,920	2,022,045	2,118,816	2,123,147
6/1/2034	1,395,727	1,434,531	1,469,186	1,510,033	1,542,645	1,585,534
7/1/2034	1,267,254	1,312,996	1,333,951	1,382,101	1,400,649	1,451,206
8/1/2034	1,236,211	1,269,861	1,301,275	1,336,696	1,366,339	1,403,531
9/1/2034	1,316,423	1,321,217	1,385,709	1,390,754	1,454,994	1,460,292
10/1/2034	2,337,713	2,355,324	2,460,751	2,479,289	2,583,788	2,603,253
11/1/2034	3,941,511	4,000,158	4,148,959	4,210,693	4,356,407	4,421,227
12/1/2034	6,316,545	6,751,574	6,648,994	7,106,920	6,981,444	7,462,266
1/1/2035	6,331,339	6,844,615	6,664,567	7,204,858	6,997,795	7,565,100
2/1/2035	5,127,394	5,418,744	5,397,257	5,703,940	5,667,119	5,989,138
3/1/2035	4,728,976	4,753,310	4,977,869	4,977,869	5,003,484	5,253,659
4/1/2035	3,052,811	3,085,477	3,213,485	3,247,870	3,374,159	3,410,264
5/1/2035	1,945,091	1,952,575	2,047,464	2,055,342	2,149,837	2,158,109
6/1/2035	1,405,729	1,447,216	1,479,715	1,523,385	1,553,700	1,599,554
7/1/2035	1,291,307	1,340,111	1,359,270	1,410,643	1,427,234	1,481,175
8/1/2035	1,251,890	1,287,753	1,317,779	1,355,529	1,383,668	1,423,305
9/1/2035	1,323,545	1,328,684	1,393,206	1,398,615	1,462,866	1,468,546
10/1/2035	2,371,753	2,390,958	2,496,582	2,516,798	2,621,411	2,642,637
11/1/2035	3,986,358	4,050,686	4,196,166	4,263,880	4,405,974	4,477,074
12/1/2035	6,393,498	6,845,123	6,729,998	7,205,393	7,066,498	7,565,663
1/1/2036	6,410,332	6,942,053	6,747,718	7,307,424	7,085,104	7,672,795
2/1/2036	5,366,120	5,690,045	5,648,547	5,989,521	5,930,975	6,288,997
3/1/2036	4,769,277	4,801,336	5,020,291	5,054,038	5,271,306	5,306,740
4/1/2036	3,086,511	3,122,151	3,248,959	3,286,475	3,411,407	3,450,799
5/1/2036	1,949,109	1,958,759	2,051,694	2,061,851	2,154,278	2,164,944
6/1/2036	1,419,916	1,463,859	1,494,648	1,540,905	1,569,381	1,617,950
7/1/2036	1,314,480	1,366,278	1,383,663	1,438,187	1,452,846	1,510,097
8/1/2036	1,248,743	1,286,056	1,314,467	1,353,743	1,380,190	1,421,431
9/1/2036	1,363,044	1,369,002	1,434,783	1,441,055	1,506,522	1,513,108

	Monthly Demand (Dth)					
	Low Growth - Expected Weather	Low Growth - Stochastic Weather	Expected Growth - Expected Weather	Expected Growth - Stochastic Weather	High Growth - Expected Weather	High Growth - Stochastic Weather
10/1/2036	2,419,616	2,441,555	2,546,964	2,570,058	2,674,312	2,698,561
11/1/2036	4,036,882	4,108,012	4,249,349	4,324,224	4,461,817	4,540,435
12/1/2036	6,496,926	6,967,315	6,838,870	7,334,016	7,180,813	7,700,717
1/1/2037	6,478,023	7,029,660	6,818,971	7,399,642	7,159,920	7,769,625
2/1/2037	5,252,001	5,569,556	5,528,423	5,862,690	5,804,844	6,155,824
3/1/2037	4,839,407	4,879,799	5,094,113	5,136,630	5,348,819	5,393,462
4/1/2037	3,130,562	3,170,244	3,295,329	3,337,099	3,460,096	3,503,954
5/1/2037	1,968,207	1,980,775	2,071,797	2,085,026	2,175,387	2,189,278
6/1/2037	1,446,479	1,493,330	1,522,610	1,571,926	1,598,740	1,650,523
7/1/2037	1,330,217	1,384,953	1,400,228	1,457,845	1,470,239	1,530,737
8/1/2037	1,264,225	1,303,699	1,330,763	1,372,315	1,397,301	1,440,931
9/1/2037	1,378,336	1,385,003	1,450,880	1,457,898	1,523,424	1,530,793
10/1/2037	2,436,183	2,459,890	2,564,403	2,589,358	2,692,623	2,718,826
11/1/2037	4,089,799	4,167,297	4,305,052	4,386,628	4,520,304	4,605,959
12/1/2037	6,573,389	7,061,047	6,919,357	7,432,681	7,265,324	7,804,315
1/1/2038	6,547,222	7,118,233	6,891,812	7,492,877	7,236,403	7,867,521
2/1/2038	5,316,430	5,647,394	5,596,242	5,944,626	5,876,054	6,241,857
3/1/2038	4,909,587	4,958,467	5,167,986	5,219,439	5,426,386	5,480,411
4/1/2038	3,174,593	3,218,453	3,341,677	3,387,845	3,508,761	3,557,237
5/1/2038	1,995,800	2,011,711	2,100,843	2,117,590	2,205,885	2,223,470
6/1/2038	1,464,574	1,514,121	1,541,657	1,593,812	1,618,740	1,673,503
7/1/2038	1,337,341	1,394,714	1,407,727	1,468,120	1,478,114	1,541,525
8/1/2038	1,288,299	1,330,391	1,356,104	1,400,412	1,423,910	1,470,433
9/1/2038	1,393,502	1,401,593	1,466,844	1,475,361	1,540,187	1,549,129
10/1/2038	2,452,263	2,478,873	2,581,330	2,609,340	2,710,396	2,739,807
11/1/2038	4,142,593	4,227,908	4,360,625	4,450,430	4,578,656	4,672,951
12/1/2038	6,649,477	7,156,620	6,999,449	7,533,284	7,349,422	7,909,948
1/1/2039	6,624,534	7,216,968	6,973,194	7,596,808	7,321,853	7,976,649
2/1/2039	5,380,570	5,726,650	5,663,758	6,028,053	5,946,946	6,329,456
3/1/2039	4,970,958	5,029,697	5,232,587	5,294,418	5,494,216	5,559,139
4/1/2039	3,209,787	3,258,891	3,378,724	3,430,411	3,547,660	3,601,932
5/1/2039	2,032,192	2,052,193	2,139,150	2,160,203	2,246,107	2,268,213
6/1/2039	1,482,637	1,535,342	1,560,670	1,616,150	1,638,703	1,696,957
7/1/2039	1,344,209	1,404,643	1,414,957	1,478,571	1,485,705	1,552,500
8/1/2039	1,312,511	1,357,550	1,381,591	1,429,000	1,450,670	1,500,450
9/1/2039	1,408,531	1,417,554	1,482,665	1,492,162	1,556,798	1,566,770
10/1/2039	2,476,661	2,505,426	2,607,012	2,637,290	2,737,362	2,769,155
11/1/2039	4,186,442	4,278,083	4,406,781	4,503,245	4,627,120	4,728,407
12/1/2039	6,716,290	7,241,384	7,069,779	7,622,510	7,423,268	8,003,635
1/1/2040	6,710,490	7,323,075	7,063,674	7,708,500	7,416,857	8,093,925
2/1/2040	5,626,870	6,008,888	5,923,021	6,325,145	6,219,172	6,641,403
3/1/2040	5,011,803	5,076,999	5,275,582	5,344,209	5,539,361	5,611,420
4/1/2040	3,231,026	3,285,434	3,401,080	3,458,352	3,571,135	3,631,269
5/1/2040	2,052,828	2,075,392	2,160,872	2,184,623	2,268,916	2,293,854
6/1/2040	1,487,887	1,542,965	1,566,196	1,624,174	1,644,506	1,705,383
7/1/2040	1,367,151	1,431,037	1,439,106	1,506,354	1,511,062	1,581,672
8/1/2040	1,326,170	1,372,817	1,395,968	1,445,071	1,465,767	1,517,325
9/1/2040	1,413,780	1,422,902	1,488,190	1,497,792	1,562,599	1,572,681
10/1/2040	2,541,936	2,574,994	2,675,722	2,710,520	2,809,509	2,846,046
11/1/2040	4,254,089	4,353,979	4,477,988	4,583,136	4,701,887	4,812,293
12/1/2040	6,792,974	7,337,013	7,150,498	7,723,171	7,508,023	8,109,330

Monthly HDDs

	Minimum Weather	1% Weather	25% Weather	50% Weather	75% Weather	99% Weather	Max Weather
1/1/2021	635	652	639	690	686	767	867
2/1/2021	512	477	616	588	654	624	674
3/1/2021	445	540	481	453	507	509	493
4/1/2021	285	306	317	320	315	346	335
5/1/2021	117	136	190	124	193	181	157
6/1/2021	62	44	68	40	40	69	46
7/1/2021	8	8	11	13	15	8	9
8/1/2021	8	12	7	4	9	9	8
9/1/2021	90	50	49	87	78	73	62
10/1/2021	228	299	252	305	281	320	299
11/1/2021	554	488	561	581	508	574	611
12/1/2021	703	787	763	816	801	770	833
1/1/2022	635	652	639	690	686	767	867
2/1/2022	512	477	616	588	654	624	674
3/1/2022	445	540	481	453	507	509	493
4/1/2022	285	306	317	320	315	346	335
5/1/2022	117	136	190	124	193	181	157
6/1/2022	62	44	68	40	40	69	46
7/1/2022	8	8	11	13	15	8	9
8/1/2022	8	12	7	4	9	9	8
9/1/2022	90	50	49	87	78	73	62
10/1/2022	228	299	252	305	281	320	299
11/1/2022	554	488	561	581	508	574	611
12/1/2022	703	787	763	816	801	770	833
1/1/2023	635	652	639	690	686	767	867
2/1/2023	512	477	616	588	654	624	674
3/1/2023	445	540	481	453	507	509	493
4/1/2023	285	306	317	320	315	346	335
5/1/2023	117	136	190	124	193	181	157
6/1/2023	62	44	68	40	40	69	46
7/1/2023	8	8	11	13	15	8	9
8/1/2023	8	12	7	4	9	9	8
9/1/2023	90	50	49	87	78	73	62
10/1/2023	228	299	252	305	281	320	299
11/1/2023	554	488	561	581	508	574	611
12/1/2023	703	787	763	816	801	770	833
1/1/2024	635	652	639	690	686	767	867
2/1/2024	512	477	616	588	654	624	674
3/1/2024	445	540	481	453	507	509	493
4/1/2024	285	306	317	320	315	346	335
5/1/2024	117	136	190	124	193	181	157
6/1/2024	62	44	68	40	40	69	46
7/1/2024	8	8	11	13	15	8	9
8/1/2024	8	12	7	4	9	9	8
9/1/2024	90	50	49	87	78	73	62
10/1/2024	228	299	252	305	281	320	299
11/1/2024	554	488	561	581	508	574	611
12/1/2024	703	787	763	816	801	770	833
1/1/2025	635	652	639	690	686	767	867
2/1/2025	512	477	616	588	654	624	674
3/1/2025	445	540	481	453	507	509	493
4/1/2025	285	306	317	320	315	346	335
5/1/2025	117	136	190	124	193	181	157
6/1/2025	62	44	68	40	40	69	46
7/1/2025	8	8	11	13	15	8	9
8/1/2025	8	12	7	4	9	9	8
9/1/2025	90	50	49	87	78	73	62
10/1/2025	228	299	252	305	281	320	299
11/1/2025	554	488	561	581	508	574	611
12/1/2025	703	787	763	816	801	770	833
1/1/2026	635	652	639	690	686	767	867
2/1/2026	512	477	616	588	654	624	674
3/1/2026	445	540	481	453	507	509	493

Monthly HDDs

	Minimum Weather	1% Weather	25% Weather	50% Weather	75% Weather	99% Weather	Max Weather
4/1/2026	285	306	317	320	315	346	335
5/1/2026	117	136	190	124	193	181	157
6/1/2026	62	44	68	40	40	69	46
7/1/2026	8	8	11	13	15	8	9
8/1/2026	8	12	7	4	9	9	8
9/1/2026	90	50	49	87	78	73	62
10/1/2026	228	299	252	305	281	320	299
11/1/2026	554	488	561	581	508	574	611
12/1/2026	703	787	763	816	801	770	833
1/1/2027	635	652	639	690	686	767	867
2/1/2027	512	477	616	588	654	624	674
3/1/2027	445	540	481	453	507	509	493
4/1/2027	285	306	317	320	315	346	335
5/1/2027	117	136	190	124	193	181	157
6/1/2027	62	44	68	40	40	69	46
7/1/2027	8	8	11	13	15	8	9
8/1/2027	8	12	7	4	9	9	8
9/1/2027	90	50	49	87	78	73	62
10/1/2027	228	299	252	305	281	320	299
11/1/2027	554	488	561	581	508	574	611
12/1/2027	703	787	763	816	801	770	833
1/1/2028	635	652	639	690	686	767	867
2/1/2028	512	477	616	588	654	624	674
3/1/2028	445	540	481	453	507	509	493
4/1/2028	285	306	317	320	315	346	335
5/1/2028	117	136	190	124	193	181	157
6/1/2028	62	44	68	40	40	69	46
7/1/2028	8	8	11	13	15	8	9
8/1/2028	8	12	7	4	9	9	8
9/1/2028	90	50	49	87	78	73	62
10/1/2028	228	299	252	305	281	320	299
11/1/2028	554	488	561	581	508	574	611
12/1/2028	703	787	763	816	801	770	833
1/1/2029	635	652	639	690	686	767	867
2/1/2029	512	477	616	588	654	624	674
3/1/2029	445	540	481	453	507	509	493
4/1/2029	285	306	317	320	315	346	335
5/1/2029	117	136	190	124	193	181	157
6/1/2029	62	44	68	40	40	69	46
7/1/2029	8	8	11	13	15	8	9
8/1/2029	8	12	7	4	9	9	8
9/1/2029	90	50	49	87	78	73	62
10/1/2029	228	299	252	305	281	320	299
11/1/2029	554	488	561	581	508	574	611
12/1/2029	703	787	763	816	801	770	833
1/1/2030	635	652	639	690	686	767	867
2/1/2030	512	477	616	588	654	624	674
3/1/2030	445	540	481	453	507	509	493
4/1/2030	285	306	317	320	315	346	335
5/1/2030	117	136	190	124	193	181	157
6/1/2030	62	44	68	40	40	69	46
7/1/2030	8	8	11	13	15	8	9
8/1/2030	8	12	7	4	9	9	8
9/1/2030	90	50	49	87	78	73	62
10/1/2030	228	299	252	305	281	320	299
11/1/2030	554	488	561	581	508	574	611
12/1/2030	703	787	763	816	801	770	833
1/1/2031	635	652	639	690	686	767	867
2/1/2031	512	477	616	588	654	624	674
3/1/2031	445	540	481	453	507	509	493
4/1/2031	285	306	317	320	315	346	335
5/1/2031	117	136	190	124	193	181	157
6/1/2031	62	44	68	40	40	69	46

Monthly HDDs

	Minimum Weather	1% Weather	25% Weather	50% Weather	75% Weather	99% Weather	Max Weather
7/1/2031	8	8	11	13	15	8	9
8/1/2031	8	12	7	4	9	9	8
9/1/2031	90	50	49	87	78	73	62
10/1/2031	228	299	252	305	281	320	299
11/1/2031	554	488	561	581	508	574	611
12/1/2031	703	787	763	816	801	770	833
1/1/2032	635	652	639	690	686	767	867
2/1/2032	512	477	616	588	654	624	674
3/1/2032	445	540	481	453	507	509	493
4/1/2032	285	306	317	320	315	346	335
5/1/2032	117	136	190	124	193	181	157
6/1/2032	62	44	68	40	40	69	46
7/1/2032	8	8	11	13	15	8	9
8/1/2032	8	12	7	4	9	9	8
9/1/2032	90	50	49	87	78	73	62
10/1/2032	228	299	252	305	281	320	299
11/1/2032	554	488	561	581	508	574	611
12/1/2032	703	787	763	816	801	770	833
1/1/2033	635	652	639	690	686	767	867
2/1/2033	512	477	616	588	654	624	674
3/1/2033	445	540	481	453	507	509	493
4/1/2033	285	306	317	320	315	346	335
5/1/2033	117	136	190	124	193	181	157
6/1/2033	62	44	68	40	40	69	46
7/1/2033	8	8	11	13	15	8	9
8/1/2033	8	12	7	4	9	9	8
9/1/2033	90	50	49	87	78	73	62
10/1/2033	228	299	252	305	281	320	299
11/1/2033	554	488	561	581	508	574	611
12/1/2033	703	787	763	816	801	770	833
1/1/2034	635	652	639	690	686	767	867
2/1/2034	512	477	616	588	654	624	674
3/1/2034	445	540	481	453	507	509	493
4/1/2034	285	306	317	320	315	346	335
5/1/2034	117	136	190	124	193	181	157
6/1/2034	62	44	68	40	40	69	46
7/1/2034	8	8	11	13	15	8	9
8/1/2034	8	12	7	4	9	9	8
9/1/2034	90	50	49	87	78	73	62
10/1/2034	228	299	252	305	281	320	299
11/1/2034	554	488	561	581	508	574	611
12/1/2034	703	787	763	816	801	770	833
1/1/2035	635	652	639	690	686	767	867
2/1/2035	512	477	616	588	654	624	674
3/1/2035	445	540	481	453	507	509	493
4/1/2035	285	306	317	320	315	346	335
5/1/2035	117	136	190	124	193	181	157
6/1/2035	62	44	68	40	40	69	46
7/1/2035	8	8	11	13	15	8	9
8/1/2035	8	12	7	4	9	9	8
9/1/2035	90	50	49	87	78	73	62
10/1/2035	228	299	252	305	281	320	299
11/1/2035	554	488	561	581	508	574	611
12/1/2035	703	787	763	816	801	770	833
1/1/2036	635	652	639	690	686	767	867
2/1/2036	512	477	616	588	654	624	674
3/1/2036	445	540	481	453	507	509	493
4/1/2036	285	306	317	320	315	346	335
5/1/2036	117	136	190	124	193	181	157
6/1/2036	62	44	68	40	40	69	46
7/1/2036	8	8	11	13	15	8	9
8/1/2036	8	12	7	4	9	9	8
9/1/2036	90	50	49	87	78	73	62

Monthly HDDs

	Minimum Weather	1% Weather	25% Weather	50% Weather	75% Weather	99% Weather	Max Weather
10/1/2036	228	299	252	305	281	320	299
11/1/2036	554	488	561	581	508	574	611
12/1/2036	703	787	763	816	801	770	833
1/1/2037	635	652	639	690	686	767	867
2/1/2037	512	477	616	588	654	624	674
3/1/2037	445	540	481	453	507	509	493
4/1/2037	285	306	317	320	315	346	335
5/1/2037	117	136	190	124	193	181	157
6/1/2037	62	44	68	40	40	69	46
7/1/2037	8	8	11	13	15	8	9
8/1/2037	8	12	7	4	9	9	8
9/1/2037	90	50	49	87	78	73	62
10/1/2037	228	299	252	305	281	320	299
11/1/2037	554	488	561	581	508	574	611
12/1/2037	703	787	763	816	801	770	833
1/1/2038	635	652	639	690	686	767	867
2/1/2038	512	477	616	588	654	624	674
3/1/2038	445	540	481	453	507	509	493
4/1/2038	285	306	317	320	315	346	335
5/1/2038	117	136	190	124	193	181	157
6/1/2038	62	44	68	40	40	69	46
7/1/2038	8	8	11	13	15	8	9
8/1/2038	8	12	7	4	9	9	8
9/1/2038	90	50	49	87	78	73	62
10/1/2038	228	299	252	305	281	320	299
11/1/2038	554	488	561	581	508	574	611
12/1/2038	703	787	763	816	801	770	833
1/1/2039	635	652	639	690	686	767	867
2/1/2039	512	477	616	588	654	624	674
3/1/2039	445	540	481	453	507	509	493
4/1/2039	285	306	317	320	315	346	335
5/1/2039	117	136	190	124	193	181	157
6/1/2039	62	44	68	40	40	69	46
7/1/2039	8	8	11	13	15	8	9
8/1/2039	8	12	7	4	9	9	8
9/1/2039	90	50	49	87	78	73	62
10/1/2039	228	299	252	305	281	320	299
11/1/2039	554	488	561	581	508	574	611
12/1/2039	703	787	763	816	801	770	833
1/1/2040	635	652	639	690	686	767	867
2/1/2040	512	477	616	588	654	624	674
3/1/2040	445	540	481	453	507	509	493
4/1/2040	285	306	317	320	315	346	335
5/1/2040	117	136	190	124	193	181	157
6/1/2040	62	44	68	40	40	69	46
7/1/2040	8	8	11	13	15	8	9
8/1/2040	8	12	7	4	9	9	8
9/1/2040	90	50	49	87	78	73	62
10/1/2040	228	299	252	305	281	320	299
11/1/2040	554	488	561	581	508	574	611
12/1/2040	703	787	763	816	801	770	833

	Total System Cost (\$000)					
	Low Growth - Expected Weather	Low Growth - Stochastic Weather	Expected Growth - Expected Weather	Expected Growth - Stochastic Weather	High Growth - Expected Weather	High Growth - Stochastic Weather
1/1/2021	16,301	16,837	16,580	17,129	17,113	17,512
2/1/2021	14,386	14,866	14,638	15,130	15,119	15,523
3/1/2021	15,636	16,153	15,915	16,446	16,445	16,830
4/1/2021	14,673	14,672	15,031	15,214	15,615	15,743
5/1/2021	9,712	10,069	10,126	10,391	10,481	10,703
6/1/2021	9,360	9,715	9,778	10,025	10,123	10,326
7/1/2021	9,668	10,039	10,100	10,359	10,455	10,668
8/1/2021	9,669	10,042	10,101	10,363	10,457	10,673
9/1/2021	9,361	9,719	9,778	10,028	10,121	10,328
10/1/2021	10,550	10,694	10,684	11,049	11,066	11,393
11/1/2021	16,325	16,854	16,947	17,700	17,521	19,080
12/1/2021	17,002	17,685	17,745	18,509	18,342	20,042
1/1/2022	16,897	17,546	17,541	18,468	18,182	19,973
2/1/2022	15,257	15,788	15,839	16,581	17,661	17,871
3/1/2022	16,881	17,450	17,523	18,325	18,241	19,751
4/1/2022	14,731	15,126	15,383	15,671	15,919	16,122
5/1/2022	10,082	10,313	10,495	10,623	10,803	10,838
6/1/2022	9,728	9,923	10,127	10,221	10,423	10,424
7/1/2022	10,047	10,255	10,458	10,561	10,764	10,772
8/1/2022	10,049	10,259	10,461	10,565	10,767	10,776
9/1/2022	9,726	9,927	10,123	10,224	10,419	10,428
10/1/2022	10,602	10,887	11,044	11,224	11,380	11,466
11/1/2022	16,511	17,050	17,146	17,384	17,377	18,085
12/1/2022	17,199	17,837	17,951	18,204	18,228	19,067
1/1/2023	17,089	17,744	17,775	18,175	18,001	20,930
2/1/2023	15,430	15,978	16,025	19,423	20,108	21,004
3/1/2023	17,072	17,779	17,730	18,217	18,205	19,012
4/1/2023	15,049	15,228	15,665	15,640	16,128	16,228
5/1/2023	10,246	10,370	10,626	10,656	10,870	10,910
6/1/2023	9,870	9,977	10,236	10,264	10,469	10,496
7/1/2023	10,194	10,317	10,570	10,613	10,811	10,853
8/1/2023	10,196	10,323	10,573	10,618	10,815	10,857
9/1/2023	9,867	9,989	10,231	10,275	10,465	10,507
10/1/2023	10,770	11,474	11,178	11,767	11,448	12,120
11/1/2023	16,281	17,054	16,894	17,371	17,594	18,133
12/1/2023	16,850	17,773	17,548	22,453	18,387	25,664
1/1/2024	16,851	17,534	17,485	17,823	18,211	18,577
2/1/2024	15,592	16,226	16,185	16,496	18,874	17,194
3/1/2024	16,835	17,490	17,469	17,779	18,446	18,840
4/1/2024	15,430	15,395	15,997	15,897	16,665	16,399
5/1/2024	10,191	10,443	10,583	10,697	10,783	10,950
6/1/2024	9,798	10,081	10,181	10,325	10,357	10,567
7/1/2024	10,121	10,425	10,516	10,677	10,698	10,927
8/1/2024	10,122	10,428	10,517	10,680	10,699	10,931
9/1/2024	9,797	10,092	10,178	10,336	10,354	10,578
10/1/2024	11,199	11,115	11,551	11,403	12,035	11,689
11/1/2024	16,866	18,329	17,920	19,740	19,031	21,075
12/1/2024	17,610	19,067	18,713	20,583	19,874	22,040
1/1/2025	17,453	19,068	18,545	20,528	19,696	22,064
2/1/2025	15,776	17,213	17,667	18,530	19,370	19,787
3/1/2025	17,439	19,011	18,531	20,469	19,679	21,849
4/1/2025	16,027	16,906	16,664	17,496	17,275	18,091
5/1/2025	10,392	10,515	10,617	10,763	10,850	11,019
6/1/2025	9,990	10,122	10,196	10,359	10,411	10,603
7/1/2025	10,319	10,480	10,532	10,724	10,754	10,976
8/1/2025	10,320	10,488	10,533	10,732	10,755	10,984
9/1/2025	9,988	10,147	10,193	10,384	10,408	10,628
10/1/2025	11,376	11,240	11,793	11,524	12,181	11,816
11/1/2025	17,204	18,677	18,472	20,077	19,756	21,509
12/1/2025	17,965	19,382	19,289	20,955	20,654	22,450
1/1/2026	17,805	19,443	19,119	20,892	20,448	22,375
2/1/2026	16,079	17,549	17,265	18,857	18,465	20,195
3/1/2026	17,803	19,374	19,108	20,821	20,428	22,301
4/1/2026	16,423	18,164	17,084	18,842	17,731	19,510
5/1/2026	10,446	10,525	10,674	10,798	10,907	11,062
6/1/2026	10,046	10,125	10,255	10,385	10,469	10,638

	Total System Cost (\$000)					
	Low Growth - Expected Weather	Low Growth - Stochastic Weather	Expected Growth - Expected Weather	Expected Growth - Stochastic Weather	High Growth - Expected Weather	High Growth - Stochastic Weather
7/1/2026	10,377	10,492	10,592	10,761	10,813	11,022
8/1/2026	10,378	10,502	10,593	10,771	10,814	11,032
9/1/2026	10,044	10,161	10,252	10,422	10,466	10,674
10/1/2026	11,439	11,652	11,865	11,983	12,274	12,305
11/1/2026	17,569	19,080	18,855	20,522	20,139	21,968
12/1/2026	18,364	19,818	19,706	21,312	21,044	22,808
1/1/2027	18,182	19,871	19,514	21,364	20,843	22,860
2/1/2027	16,420	17,933	17,622	19,281	18,822	20,632
3/1/2027	18,166	19,784	19,504	21,276	20,823	22,770
4/1/2027	16,508	19,024	17,069	19,831	17,631	20,722
5/1/2027	10,532	10,701	10,794	10,961	11,056	11,213
6/1/2027	10,162	10,342	10,413	10,585	10,665	10,813
7/1/2027	10,496	10,724	10,756	10,975	11,016	11,211
8/1/2027	10,497	10,738	10,757	10,989	11,017	11,225
9/1/2027	10,160	10,389	10,412	10,632	10,663	10,860
10/1/2027	11,193	11,628	11,490	11,950	11,786	12,275
11/1/2027	17,906	19,527	19,218	20,975	20,512	22,377
12/1/2027	18,722	20,295	20,093	21,793	21,440	23,245
1/1/2028	18,532	20,341	19,891	21,839	21,231	23,291
2/1/2028	17,167	18,841	18,437	20,242	19,689	21,599
3/1/2028	18,515	20,247	19,872	21,744	21,208	23,193
4/1/2028	16,436	16,689	16,921	17,327	17,439	17,972
5/1/2028	10,646	11,068	10,933	11,421	11,213	11,781
6/1/2028	10,248	10,708	10,529	11,051	10,799	11,402
7/1/2028	10,586	11,113	10,875	11,467	11,154	11,829
8/1/2028	10,587	11,135	10,877	11,489	11,155	11,851
9/1/2028	10,246	10,770	10,527	11,112	10,797	11,462
10/1/2028	11,440	11,833	11,669	12,226	11,934	12,627
11/1/2028	18,224	19,811	19,551	21,259	20,904	22,734
12/1/2028	19,056	20,606	20,440	22,106	21,854	23,632
1/1/2029	18,861	20,663	20,235	22,162	21,635	23,689
2/1/2029	17,033	18,644	18,273	19,997	19,537	21,376
3/1/2029	18,843	20,563	20,214	22,060	21,612	23,585
4/1/2029	16,718	17,328	17,197	18,367	17,667	19,185
5/1/2029	10,767	11,347	11,043	11,577	11,309	11,862
6/1/2029	10,370	10,988	10,640	11,211	10,900	11,485
7/1/2029	10,711	11,420	10,990	11,650	11,259	11,934
8/1/2029	10,712	11,447	10,991	11,676	11,260	11,960
9/1/2029	10,368	11,064	10,638	11,287	10,898	11,562
10/1/2029	11,462	12,001	11,672	12,374	11,873	12,741
11/1/2029	18,550	20,208	19,907	21,733	21,268	23,268
12/1/2029	19,400	21,034	20,818	22,612	22,241	24,201
1/1/2030	19,199	21,099	20,604	22,678	22,013	24,273
2/1/2030	17,338	19,031	18,606	20,455	19,878	21,890
3/1/2030	19,180	20,978	20,582	22,553	21,989	24,141
4/1/2030	16,965	19,821	17,509	20,583	18,078	21,328
5/1/2030	10,855	10,928	11,120	11,229	11,384	11,512
6/1/2030	10,462	10,531	10,717	10,820	10,970	11,089
7/1/2030	10,807	10,950	11,070	11,248	11,331	11,526
8/1/2030	10,807	10,979	11,071	11,277	11,332	11,555
9/1/2030	10,460	10,611	10,715	10,899	10,968	11,168
10/1/2030	11,387	11,863	11,649	12,214	11,939	12,547
11/1/2030	18,889	20,683	20,270	22,227	21,656	23,792
12/1/2030	19,750	21,530	21,194	23,264	22,642	24,879
1/1/2031	19,551	21,610	20,980	23,208	22,415	24,828
2/1/2031	17,655	19,472	18,946	20,914	20,241	22,376
3/1/2031	19,531	21,446	20,958	23,041	22,390	24,659
4/1/2031	17,226	20,134	17,810	20,960	18,399	21,802
5/1/2031	10,923	11,091	11,189	11,401	11,461	11,727
6/1/2031	10,524	10,669	10,779	10,964	11,039	11,275

	Total System Cost (\$000)					
	Low Growth -		Expected Growth -		High Growth -	
	Expected Weather	Stochastic Weather	Expected Weather	Stochastic Weather	Expected Weather	Stochastic Weather
7/1/2031	10,871	11,101	11,134	11,406	11,403	11,727
8/1/2031	10,872	11,130	11,134	11,435	11,403	11,756
9/1/2031	10,523	10,758	10,777	11,053	11,038	11,364
10/1/2031	11,431	12,087	11,723	12,458	12,022	12,846
11/1/2031	19,220	21,053	20,618	22,647	22,025	24,232
12/1/2031	20,101	21,929	21,562	23,579	23,033	25,220
1/1/2032	19,893	21,994	21,340	23,644	22,797	25,285
2/1/2032	18,439	20,347	19,792	21,889	21,154	23,422
3/1/2032	19,872	21,811	21,317	23,458	22,772	25,097
4/1/2032	17,574	18,102	18,179	18,886	18,788	19,787
5/1/2032	10,916	11,723	11,186	12,069	11,459	12,410
6/1/2032	10,547	11,365	10,806	11,699	11,069	12,029
7/1/2032	10,893	11,832	11,162	12,177	11,433	12,517
8/1/2032	10,895	11,864	11,163	12,209	11,435	12,550
9/1/2032	10,545	11,465	10,804	11,799	11,067	12,129
10/1/2032	11,706	12,317	12,016	12,708	12,331	13,118
11/1/2032	19,566	21,485	20,956	23,071	22,375	24,644
12/1/2032	20,485	22,393	21,934	24,034	23,418	25,818
1/1/2033	20,251	22,450	21,690	24,092	23,159	25,720
2/1/2033	18,287	20,223	19,586	21,705	20,913	23,175
3/1/2033	20,230	22,255	21,667	23,894	23,134	25,520
4/1/2033	17,857	19,531	18,484	20,336	19,100	21,156
5/1/2033	10,998	11,626	11,279	11,978	11,550	12,346
6/1/2033	10,607	11,277	10,876	11,618	11,135	11,974
7/1/2033	10,956	11,751	11,234	12,102	11,502	12,470
8/1/2033	10,957	11,785	11,235	12,137	11,503	12,505
9/1/2033	10,605	11,386	10,874	11,727	11,134	12,082
10/1/2033	11,791	12,450	12,113	12,839	12,425	13,245
11/1/2033	19,881	21,958	21,301	23,550	22,726	24,980
12/1/2033	20,819	22,905	22,303	24,553	23,791	26,418
1/1/2034	20,577	22,938	22,046	24,584	23,521	26,324
2/1/2034	18,582	20,657	19,908	22,145	21,240	23,533
3/1/2034	20,555	22,722	22,022	24,367	23,496	25,856
4/1/2034	18,000	19,425	18,641	20,212	19,270	21,080
5/1/2034	11,093	11,206	11,384	11,533	11,665	11,987
6/1/2034	10,673	10,788	10,951	11,097	11,218	11,537
7/1/2034	11,025	11,255	11,312	11,574	11,588	12,027
8/1/2034	11,025	11,294	11,313	11,613	11,589	12,068
9/1/2034	10,671	10,910	10,950	11,219	11,217	11,657
10/1/2034	11,862	12,996	12,194	13,426	12,514	13,973
11/1/2034	20,195	22,201	21,650	23,753	23,094	25,206
12/1/2034	21,150	23,318	22,673	25,098	24,188	27,250
1/1/2035	20,902	23,191	22,408	25,043	23,904	26,539
2/1/2035	18,875	20,873	20,235	22,375	21,585	23,733
3/1/2035	20,880	22,953	22,384	24,558	23,877	26,070
4/1/2035	18,186	19,622	18,826	20,377	19,475	21,264
5/1/2035	11,197	11,321	11,484	11,651	11,779	12,123
6/1/2035	10,785	10,911	11,058	11,226	11,342	11,683
7/1/2035	11,140	11,387	11,423	11,713	11,715	12,184
8/1/2035	11,141	11,428	11,424	11,754	11,716	12,227
9/1/2035	10,783	11,039	11,057	11,354	11,340	11,811
10/1/2035	11,773	13,173	12,089	13,592	12,416	14,159
11/1/2035	20,524	22,725	21,988	24,305	23,447	25,515
12/1/2035	21,500	23,875	23,033	25,705	24,573	27,861
1/1/2036	21,243	23,733	22,758	25,625	24,268	27,583
2/1/2036	19,701	21,948	21,118	23,530	22,530	24,816
3/1/2036	21,221	23,469	22,734	25,103	24,242	26,370
4/1/2036	18,266	19,393	18,920	20,131	19,574	21,136
5/1/2036	11,262	11,406	11,562	11,735	11,862	12,345
6/1/2036	10,865	11,008	11,153	11,323	11,442	11,917
7/1/2036	11,223	11,493	11,521	11,819	11,819	12,429
8/1/2036	11,224	11,536	11,522	11,861	11,819	12,476
9/1/2036	10,864	11,145	11,152	11,459	11,440	12,052

	Total System Cost (\$000)					
	Low Growth -		Expected Growth -		High Growth -	
	Expected Weather	Stochastic Weather	Expected Weather	Stochastic Weather	Expected Weather	Stochastic Weather
10/1/2036	11,877	12,312	12,209	12,681	12,542	13,341
11/1/2036	20,864	23,158	22,357	24,750	23,833	25,772
12/1/2036	21,851	24,340	23,413	26,155	24,955	30,015
1/1/2037	21,595	24,205	23,140	26,010	24,667	27,222
2/1/2037	19,501	21,772	20,896	23,313	22,275	24,269
3/1/2037	21,572	23,930	23,114	25,578	24,640	26,653
4/1/2037	18,960	19,619	19,645	20,380	20,335	21,372
5/1/2037	11,268	11,389	11,563	11,729	11,862	12,322
6/1/2037	10,857	10,987	11,139	11,311	11,426	11,885
7/1/2037	11,214	11,499	11,506	11,835	11,802	12,425
8/1/2037	11,215	11,542	11,507	11,877	11,803	12,471
9/1/2037	10,855	11,142	11,138	11,467	11,425	12,040
10/1/2037	12,232	12,663	12,577	13,060	12,926	13,714
11/1/2037	21,181	23,579	22,670	25,197	24,170	26,496
12/1/2037	22,142	24,789	23,762	26,641	25,370	29,089
1/1/2038	21,923	24,771	23,464	26,518	25,016	28,122
2/1/2038	19,797	22,233	21,189	23,801	22,590	25,023
3/1/2038	21,899	24,392	23,439	26,076	24,989	27,418
4/1/2038	19,400	20,422	20,105	21,263	20,818	22,492
5/1/2038	11,312	11,591	11,606	11,979	11,908	12,786
6/1/2038	10,919	11,186	11,202	11,559	11,492	12,335
7/1/2038	11,278	11,794	11,571	12,179	11,870	12,980
8/1/2038	11,279	11,848	11,572	12,234	11,871	13,036
9/1/2038	10,918	11,425	11,200	11,797	11,490	12,574
10/1/2038	12,249	12,866	12,592	13,309	12,942	14,145
11/1/2038	21,120	23,571	22,628	25,154	24,201	26,729
12/1/2038	22,101	24,872	23,731	26,741	25,430	29,309
1/1/2039	21,861	24,650	23,422	26,288	25,049	27,921
2/1/2039	19,741	22,717	21,150	24,724	22,620	26,196
3/1/2039	21,836	24,373	23,395	26,015	25,021	27,649
4/1/2039	20,806	21,207	21,516	21,955	22,218	22,718
5/1/2039	12,436	12,973	12,715	13,290	12,989	13,622
6/1/2039	11,992	12,470	12,262	12,769	12,524	13,085
7/1/2039	12,384	13,110	12,661	13,419	12,931	13,746
8/1/2039	12,387	13,165	12,665	13,475	12,937	13,800
9/1/2039	11,989	12,714	12,258	13,014	12,520	13,329
10/1/2039	13,383	14,170	13,713	14,539	14,036	14,925
11/1/2039	21,436	24,177	22,960	25,873	24,585	27,459
12/1/2039	22,451	25,507	24,100	27,267	25,843	29,089
1/1/2040	22,187	25,239	23,766	26,994	25,447	28,803
2/1/2040	20,585	23,291	22,061	25,265	23,633	27,564
3/1/2040	22,163	24,833	23,739	26,592	25,419	28,226
4/1/2040	26,816	26,616	28,276	27,449	29,736	28,855
5/1/2040	21,783	24,104	21,816	24,329	21,852	24,424
6/1/2040	21,070	23,604	21,101	23,821	21,133	23,913
7/1/2040	21,939	25,147	21,971	25,371	22,004	25,466
8/1/2040	21,957	27,144	21,990	27,367	22,022	27,462
9/1/2040	21,271	26,149	21,302	26,366	21,334	26,458
10/1/2040	22,784	28,223	22,959	28,499	23,135	28,746
11/1/2040	24,056	28,207	25,893	28,406	26,275	28,591
12/1/2040	25,196	29,795	27,141	30,112	27,833	30,479