

2018 Qualifying Events Report

December 20, 2018 Event

Filed on March 20, 2019



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Event Description

Event Date and Time

Start: 12/20/2018, 10:00

End: 12/27/2018, 12:00

Event Type

Wind

Service Areas Significantly Affected

All PSE electric service areas in Western Washington were impacted by this event.

Number of Customers Affected

System wide, approximately 266,128 customers were without power during the course of this event.

Summary of System Impacts

Total Number of Outages for the Event	865
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Transmission Lines Affected	31
Impacted Substations	12

Mobilization Summary

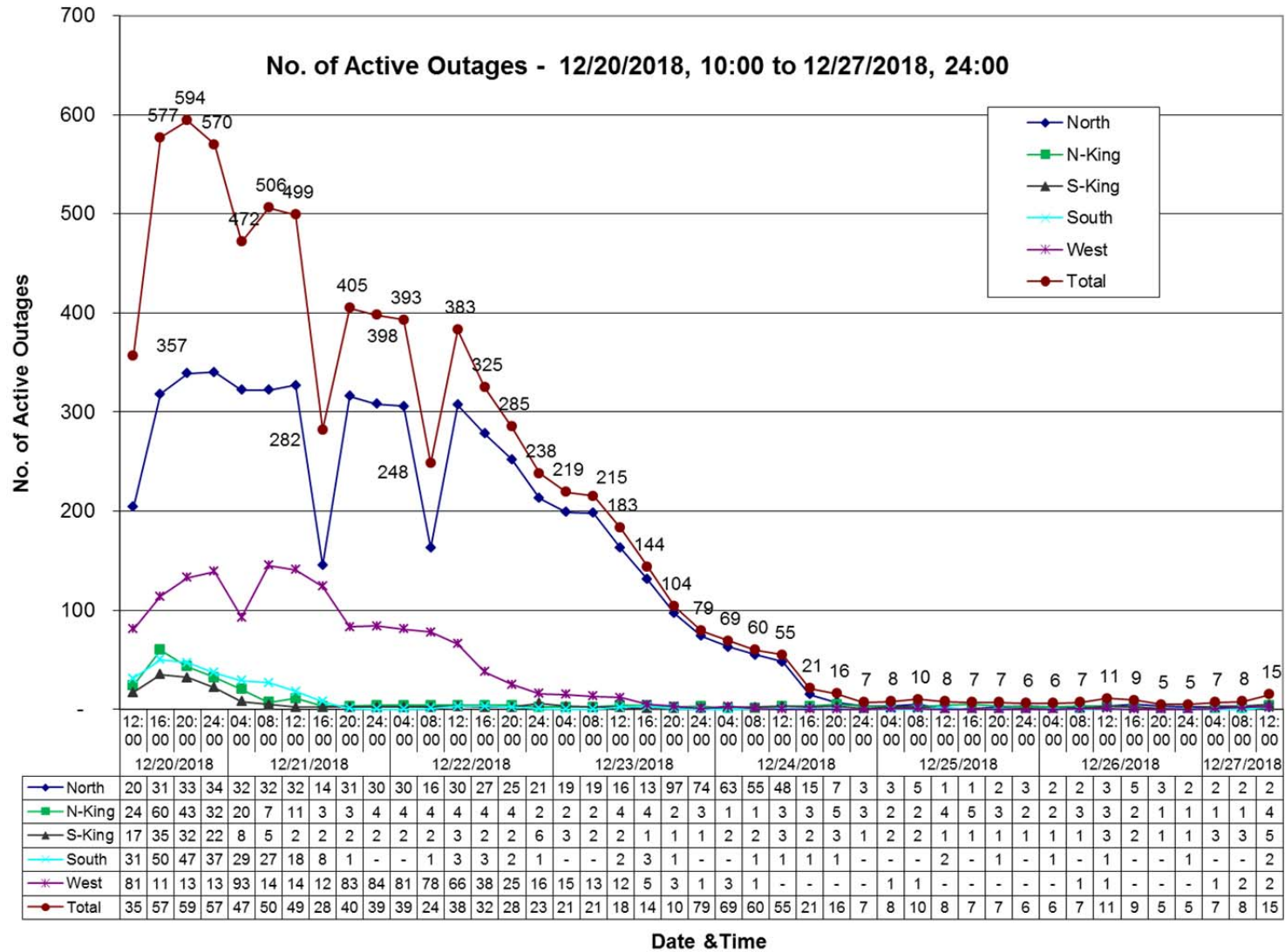
Operating Bases Placed In Emergency Status

Base	Date Opened	Time Opened	Date Closed	Time Closed
Whatcom/Skagit	12/20/2018	11:00	12/24/2018	16:00
Island	12/20/2018	11:00	12/24/2018	22:00
North King	12/20/2018	13:30	12/21/2018	15:00
South King	12/20/2018	13:00	12/21/2018	08:00
Pierce	12/20/2018	10:00	12/20/2018	22:00
Thurston	12/20/2018	10:00	12/21/2018	16:00
Kitsap	12/20/2018	11:15	12/23/2018	14:00
Vashon Island	12/20/2018	11:15	12/23/2018	14:00
Kittitas	N/A			

Emergency Coordination Center (ECC)

	Date Opened	Time Opened	Date Closed	Time Closed
ECC	12/20/2018	13:00	12/24/2018	15:30

Active Outage Event Chart



Major Event Day – Qualification

IEEE¹ Standard 1366

IEEE Standard 1366 was established to present a set of terms and definitions which can be used to foster uniformity in the development of electric system service reliability indices, to identify factors which affect the indices, and to aid in consistent reporting practices among utilities. Also, it provides guidance for new personnel in the reliability area and tools for internal as well as external comparisons. The Major Event Day definition was created as part of IEEE Standard 1366 to allow for consistent calculation of reliability metrics between utilities and enable more valid comparisons with other utility reliability metrics.

IEEE Major Event Day Calculation (2.5 BETA METHOD)

1. A threshold on daily SAIDI² is computed once a year, following year end
2. Assemble the 5 most recent years of historical values of SAIDI/day
3. Discard any days in the data set that has a SAIDI/day of zero
4. Find the natural logarithm of each value in the data set
5. Compute the average (Alpha) and the standard deviation (Beta) of the natural logarithms computed in step 4
6. Compute the threshold T_{MED} where $T_{MED} = \exp(\text{Alpha} + 2.5 * \text{Beta})$
7. Any day in the next year with SAIDI > T_{MED} is a major event day

Puget Sound Energy's IEEE Major Event Threshold (T_{MED}) for 2018: 6.73 Minutes

Qualified Events - 2018

Current Event – Calculation Detail

Event Date, Time Range	Total Customer Minutes	Average Customer Count	Event SAIDI (Customer Minutes /Customer Count)
12/20/2018,10:00 – 12/27/2018,12:00	217,066,028	1,154,443	188.03

Daily SAIDI Detail YTD

First Day that Daily SAIDI Exceeded PSE's TMED of 6.73 Minutes by Qualifying Event

Date	Daily SAIDI (from midnight to midnight)	Total O&M ³ Costs
12/20/2018	173.79	\$15,008,712

¹ IEEE: Institute of Electrical and Electronics Engineers

² SAIDI: System Average Interruption Duration Index

³ O&M: Operations and Maintenance

**Event Restoration – YTD Cost Summary
As of March 18, 2019**

2018 Restoration Costs Detail by Qualifying Event

Event Date	Qualified Events Deferred Account	Capital Costs	O&M Costs Not Deferrable	O&M Costs Deferrable Accumulation	Total O&M Costs	Total Costs
1/27/2018	\$0	\$50,088	\$0	\$447,877	\$447,877	\$497,965 (r)
2/17/2018	\$0	\$719,655	\$0	\$4,856,289	\$4,856,289	\$5,575,954
12/14/2018	\$0	\$272,055 (r)	\$0	\$3,979,025 (r)	\$3,979,025 (r)	\$4,251,080 (r)
12/20/2018	\$13,844,026	\$1,998,042	\$0	\$1,164,686	\$1,164,686	\$17,006,754

(r): Revised

2018 YTD Storm Restoration Costs Detail

Qualifying Events Deferred Account	Capital Costs	O&M Costs - Not Deferrable	O&M Costs - Deferrable Accumulation	Total O&M Costs	Total Costs
\$13,844,026	\$3,039,850	\$447,877	\$10,000,000	\$10,447,877	\$27,331,753

Detail Documents

Restoration Costs Detail – Current Event

Detailed List of Distribution Circuits with Outages

Terms, Codes and Definitions Used on Detail Reports

Restoration Costs Detail – Current Event
Puget Sound Energy
December 20, 2018- Qualifying Event Restoration Costs

	Capital	O&M - Not Deferrable	O&M - Deferrable Accumulation	Total O&M	Total
Labor					
ST	\$505	\$0	\$121,473	\$121,473	\$121,979
OT	\$261	\$0	\$1,447,710	\$1,447,710	\$1,447,972
Total Labor	\$767	\$0	\$1,569,184	\$1,569,184	\$1,569,951
Labor OH	\$332,945	\$0	\$0	\$0	\$332,945
Materials	\$434,381	\$0	\$419,955	\$419,955	\$854,336
Contractors	\$1,224,441	\$0	\$11,894,128	\$11,894,128	\$13,118,569
Other Direct Charges	\$969	\$0	\$186,368	\$186,368	\$187,337
Fleet	\$0	\$0	\$0	\$0	\$0
Other Assessments	\$4,540	\$0	\$939,077	\$939,077	\$943,617
	\$1,998,042	\$0	\$15,008,712	\$15,008,712	\$17,006,754

Detailed List of Outages – 12/20/2018, First TMED-Exceeding Day

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00485454-1	12/20/2018	12:10:52 AM	LMC-23	EBE	EF	OJU	122	37,637
P00485460-1	12/20/2018	4:22:54 AM	NLM-16	EAC	TV	OCO	17	5,437
P00485466-1	12/20/2018	5:11:34 AM	LON-23	ECC	TV	OCO	969	81,316
P00485469-1	12/20/2018	5:32:15 AM	RAI-14	ECC	TV	OFU	14	6,537
P00485470-1	12/20/2018	5:42:34 AM	RAI-13	ECC	TV	OPO	1,453	435,498
P00485477-1	12/20/2018	5:52:43 AM	LON-17	ECC	TV	OCO	75	129,126
P00491934-1	12/20/2018	6:27:00 AM	NLM-16	EAC	TV	OIN	235	147,346
P00485466-1	12/20/2018	6:36:59 AM	LON-23	ECC	TV	OCO	969	40,375
P00485494-1	12/20/2018	6:57:46 AM	LUH-17	ECC	EF	ORE	5	800
P00485495-1	12/20/2018	6:59:57 AM	LLS-13	EAA	TV	OCO	20	1,239
P00485496-1	12/20/2018	7:03:00 AM	THO-04	EBH	FI	PTF	3	827
P00485503-1	12/20/2018	7:32:51 AM	LAU-11	EAA	AC	OTR	1	192
P00485491-1	12/20/2018	7:42:58 AM	CHI-12	ECD	TV	OCO	30	511
P00485508-1	12/20/2018	7:43:23 AM	DGR-17	ECA	TV	OCO	4	967
P00485513-1	12/20/2018	7:51:07 AM	VWY-13	EAA	TV	OCO	4	19,638
P00485514-1	12/20/2018	7:51:13 AM	WLS-15	EAC	TV	OCO	3	166
P00485517-1	12/20/2018	7:58:33 AM	WOD-15	EBH	SO	OFU	8	1,175
P00485544-1	12/20/2018	8:00:11 AM	VWY-13	EAA	TV	OCO	13	808
P00485521-1	12/20/2018	8:03:40 AM	BLA-13	EAA	TV	OCO	946	76,137
P00485522-1	12/20/2018	8:04:10 AM	SLA-15	EAA	UN	OCO	1,022	80,823
P00470670-1	12/20/2018	8:05:52 AM	BLU-13	ECC	SO	OFU	5	3,497
P00485526-1	12/20/2018	8:11:09 AM	VWY-15	EAA	TV	OCO	11	1,036
P00485527-1	12/20/2018	8:13:57 AM	PTR-14	EAA	SO	UEL	1	86
P00485528-1	12/20/2018	8:15:05 AM	GWR-16	EBI	TV	OCO	320	131,307
P00490168-1	12/20/2018	8:17:56 AM	YEL-26	ECC	EF	OJU	16	15,409
P00485507-1	12/20/2018	8:23:49 AM	RAI-14	ECC	TV	OCO	37	1,699
P00485546-1	12/20/2018	8:44:19 AM	TAN-13	ECC	TV	OCO	22	12,465
P00485547-1	12/20/2018	8:44:21 AM	LUH-14	ECC	TV	OCO	25	28,114
P00485553-1	12/20/2018	8:50:41 AM	RAI-12	ECC	TV	OCO	929	39,638
P00485557-1	12/20/2018	8:52:36 AM	PAT-16	ECC	TV	OCO	302	19,620
P00485500-1	12/20/2018	8:52:38 AM	JUA-14	EBD	SO	OTR	8	1,026
P00485564-1	12/20/2018	9:04:59 AM	PRI-23	ECC	TV	OCO	2	3,151
P00485815-1	12/20/2018	9:05:20 AM	LON-25	ECC	TV	OCO	191	185,148
P00485568-1	12/20/2018	9:07:06 AM	PAT-17	ECC	TV	OCO	19	14,719
P00485574-1	12/20/2018	9:08:58 AM	HOL-15	ECA	TV	OCO	1,265	79,547
P00485580-1	12/20/2018	9:13:37 AM	LUH-17	ECC	TV	OFU	-	7,640
P00485974-1	12/20/2018	9:13:46 AM	YEL-25	ECC	TV	OCO	191	113,791
P00485584-1	12/20/2018	9:13:59 AM	PAT-13	ECC	TV	OCO	2,264	277,831
P00485591-1	12/20/2018	9:18:17 AM	FRG-24	ECC	TV	OCO	2	3,192
P00485606-1	12/20/2018	9:19:59 AM	DEC-17	ECC	TV	OCO	2,157	290,846
P00485608-1	12/20/2018	9:23:02 AM	VAS-13	EBL	TV	OFU	8	608

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00485612-1	12/20/2018	9:27:14 AM	HOL-12	ECA	TV	OFU	31	2,552
P00488686-1	12/20/2018	9:27:36 AM	PLG-13	ECC	TV	OCO	4	4,339
P00485615-1	12/20/2018	9:28:24 AM	SWI-17	ECC	TV	OCO	659	342,834
P00485628-1	12/20/2018	9:31:31 AM	GRV-16	ECA	TV	OCO	1,131	90,047
P00485626-1	12/20/2018	9:31:56 AM	MIL-17	ECE	TV	OCO	50	225,127
P00489678-1	12/20/2018	9:33:04 AM	CHI-12	ECD	TV	OCO	3	4,956
P00485630-1	12/20/2018	9:34:10 AM	CHI-12	ECD	TV	OCO	187	24,799
P00485634-1	12/20/2018	9:35:16 AM	MHT-13	EBJ	TV	OCO	1,398	110,512
P00485636-1	12/20/2018	9:39:25 AM	NLM-16	EAC	TV	OCO	40	125,342
P00485488-1	12/20/2018	9:43:02 AM	LON-22	ECC	TV	OCO	10	12,895
P00472306-1	12/20/2018	9:44:42 AM	LLT-13	EBD	SO	OCO	4	856
P00492862-1	12/20/2018	9:50:38 AM	CRE-15	EAD	UN	OCO	-	141,167
P00485664-1	12/20/2018	9:51:50 AM	CRE-15	EAD	TV	OPO	-	1,165,054
P00492256-1	12/20/2018	9:52:00 AM	FLD-12	EAD	TV	OPO	830	(1)
P00485670-1	12/20/2018	9:53:44 AM	PTR-14	EAA	UN	OCO	118	26,125
P00485671-1	12/20/2018	9:53:59 AM	LYN-24	EAA	EF	OPO	250	116,303
P00485677-1	12/20/2018	9:54:23 AM	BHS-14	EAA	TV	OCO	1,000	93,323
P00485680-1	12/20/2018	9:56:21 AM	RAI-14	ECC	EF	OJU	2	71
P00493087-1	12/20/2018	9:57:01 AM	FLD-12	EAD	TV	OCR	272	1,536,254
P00493717-1	12/20/2018	9:58:11 AM	NUG-26	EAA	TV	OCO	21	88,445
P00493714-1	12/20/2018	9:58:32 AM	NUG-26	EAA	TV	OCO	226	881,468
P00488707-1	12/20/2018	9:59:36 AM	PTR-14	EAA	TV	OCO	-	14,174
P00485692-1	12/20/2018	9:59:56 AM	LYN-14	EAA	TV	OTF	64	10,866
P00488425-1	12/20/2018	10:00:45 AM	GBK-13	EAD	TV	OPO	-	156,490
P00485697-1	12/20/2018	10:01:36 AM	PIN-27	EBD	TV	OFU	396	35,396
P00491864-1	12/20/2018	10:02:01 AM	CLV-16	EAD	TV	OCO	811	2,220,971
P00488400-1	12/20/2018	10:02:19 AM	CPV-15	EAD	TV	OCO	1,425	1,546,152
P00488560-1	12/20/2018	10:02:51 AM	MAX-13	EAD	TV	OCO	416	739,411
P00485706-1	12/20/2018	10:03:14 AM	ALG-15	EAA	TV	OCO	39	168,956
P00493497-1	12/20/2018	10:05:34 AM	NUG-26	EAA	TV	OCO	-	121,539
P00491408-1	12/20/2018	10:06:36 AM	BLA-13	EAA	TV	OCO	89	74,585
P00485717-1	12/20/2018	10:06:39 AM	WLS-15	EAC	OD	OCO	97	60,239
P00485719-1	12/20/2018	10:06:45 AM	FRA-15	ECD	TV	OCO	94	18,309
P00485510-1	12/20/2018	10:07:35 AM	GRI-13	ECC	TV	OCO	19	14,938
P00485731-1	12/20/2018	10:10:36 AM	CLV-16	EAD	TV	OCO	24	119,617
P00493232-1	12/20/2018	10:10:44 AM	BIG-12	EAC	UN	OCO	6	16,696
P00485734-1	12/20/2018	10:10:52 AM	ROC-16	ECC	TV	OFU	15	3,340
P00487689-1	12/20/2018	10:11:04 AM	ALG-15	EAA	TV	OTF	2	214
P00487695-1	12/20/2018	10:11:11 AM	ALG-15	EAC	TV	OCO	240	25,468
P00493608-1	12/20/2018	10:11:29 AM	NUG-26	EAA	TV	OCO	33	114,371
P00485973-1	12/20/2018	10:11:41 AM	YEL-25	ECC	TV	OCO	90	81,034
P00488269-1	12/20/2018	10:11:56 AM	WLS-15	EAC	TV	OCO	196	94,227

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00492433-1	12/20/2018	10:14:29 AM	MAX-12	EAD	TV	OCO	435	710,268
P00485561-1	12/20/2018	10:15:00 AM	BIG-15	EAC	TV	OCO	169	7,960
P00485774-1	12/20/2018	10:15:21 AM	SWD-11	ECE	TV	OCO	2,103	59,374
P00492368-1	12/20/2018	10:16:03 AM	FLD-15	EAD	TV	OCO	1,442	2,881,494
P00485771-1	12/20/2018	10:16:14 AM	PLY-13	EAA	TV	OCO	45	83,563
P00485794-1	12/20/2018	10:18:26 AM	CHR-25	ECE	TV	OCO	183	86,440
P00485797-1	12/20/2018	10:19:40 AM	SCH-15	EAA	OD	OPO	469	311,397
P00485795-1	12/20/2018	10:19:46 AM	HAP-13	EAA	TV	OCO	48	151,573
P00485800-1	12/20/2018	10:20:30 AM	SIL-13	ECE	TV	OCO	34	67,098
P00485963-1	12/20/2018	10:25:00 AM	TLN-0003	EAA	TV	OCO	-	1,951,647
P00485811-1	12/20/2018	10:25:33 AM	VIS-26	EAA	TV	OCO	106	139,408
P00492479-1	12/20/2018	10:25:36 AM	FLD-15	EAD	TV	OCO	-	302,046
P00485536-1	12/20/2018	10:26:01 AM	LON-25	ECC	TV	OCO	91	100,132
P00488649-1	12/20/2018	10:26:17 AM	LGY-16	EAD	TV	OCO	1,574	2,630,389
P00493624-1	12/20/2018	10:26:28 AM	NUG-26	EAA	TV	OCO	49	172,101
P00485825-1	12/20/2018	10:27:19 AM	BLA-13	EAA	TV	OCO	382	158,537
P00493388-1	12/20/2018	10:27:38 AM	KEN-13	EAA	TV	OCO	178	799,098
P00493073-1	12/20/2018	10:28:23 AM	GLA-12	EAA	TV	OPO	78	189,199
P00485862-1	12/20/2018	10:28:49 AM	SWD-12	ECE	TV	OCO	70	101,520
P00489713-1	12/20/2018	10:29:30 AM	BTN-36	EAC	TV	OCO	60	37,944
P00488643-1	12/20/2018	10:30:00 AM	LGY-15	EAD	TV	OCO	51	81,773
P00488394-1	12/20/2018	10:30:00 AM	CPV-13	EAD	TV	OCO	591	521,026
P00488387-1	12/20/2018	10:30:00 AM	CPV-12	EAD	TV	OCO	1,075	968,718
P00486667-1	12/20/2018	10:30:00 AM	TLN-0050	EAD	TV	OCO	-	77,508
P00488637-1	12/20/2018	10:30:00 AM	LGY-13	EAD	EF	OCO	86	136,534
P00487049-1	12/20/2018	10:30:00 AM	TLN-0078	EAD	TV	OCO	-	341,710
P00488735-1	12/20/2018	10:30:00 AM	SWA-16	EAD	TV	OCO	733	659,504
P00488175-1	12/20/2018	10:30:00 AM	CLV-15	EAD	TV	OCO	-	32,561
P00486786-1	12/20/2018	10:30:00 AM	TLN-0015	EAD	TV	OCO	-	135,370
P00488528-1	12/20/2018	10:30:00 AM	BRO-15	EAD	TV	OCO	-	3,103,638
P00488494-1	12/20/2018	10:30:00 AM	FLD-13	EAD	TV	OCO	1,288	2,218,206
P00488178-1	12/20/2018	10:30:00 AM	CLV-16	EAD	TV	OCO	-	1,249,908
P00488910-1	12/20/2018	10:30:00 AM	HLC-23	EAD	TV	OCO	1,123	980,941
P00488714-1	12/20/2018	10:30:00 AM	SWA-12	EAD	TV	OCO	1,840	1,646,800
P00488728-1	12/20/2018	10:30:00 AM	SWA-13	EAD	TV	OCO	1,254	1,122,998
P00488731-1	12/20/2018	10:30:00 AM	SWA-15	EAD	TV	OCO	1,156	1,035,660
P00488635-1	12/20/2018	10:30:00 AM	LGY-12	EAD	TV	OCO	1,393	2,271,565
P00488547-1	12/20/2018	10:30:00 AM	MAX-11	EAD	TV	OCO	102	169,006
P00485853-1	12/20/2018	10:30:23 AM	LAB-26	EAA	TV	OCO	888	302,557
P00485842-1	12/20/2018	10:30:26 AM	VIS-26	EAA	TV	OCO	27	77,935
P00487274-1	12/20/2018	10:30:34 AM	TLN-0089	ECE	TV	OCO	4,473	3,099,383
P00488223-1	12/20/2018	10:31:06 AM	HAN-16	EAA	TV	OCR	1,172	647,810

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00493701-1	12/20/2018	10:31:29 AM	KEN-13	EAA	TV	OCO	-	144,679
P00485854-1	12/20/2018	10:31:50 AM	RAI-11	ECC	TV	OTF	1	1,381
P00489957-1	12/20/2018	10:33:00 AM	GBK-13	EAD	TV	OCO	-	152,932
P00489961-1	12/20/2018	10:33:00 AM	GBK-15	EAD	TV	OCO	-	395,521
P00485881-1	12/20/2018	10:34:09 AM	KEN-12	EAA	TV	OPO	2,055	5,620,999
P00485871-1	12/20/2018	10:34:22 AM	WOB-25	EAA	TV	OCO	31	111,887
P00485874-1	12/20/2018	10:34:34 AM	HAR-23	EBJ	UN	OTF	1	67
P00485891-1	12/20/2018	10:36:36 AM	MAN-12	ECD	TV	OCO	3	1,259
P00490087-1	12/20/2018	10:37:07 AM	PET-12	EAC	TV	OCO	802	357,772
P00490028-1	12/20/2018	10:37:40 AM	RIV-13	EAC	TV	OCR	379	565,622
P00486071-1	12/20/2018	10:38:07 AM	OBY-17	ECC	EF	OPO	187	72,789
P00485787-1	12/20/2018	10:38:18 AM	CHI-12	ECD	TV	OCO	106	218,526
P00485914-1	12/20/2018	10:38:37 AM	HKX-13	EAC	TV	OTR	2	6,618
P00485919-1	12/20/2018	10:39:03 AM	HAW-11	ECC	TV	OCO	1,138	77,060
P00491818-1	12/20/2018	10:39:59 AM	SUM-21	EAC	TV	OCO	15	24,719
P00485933-1	12/20/2018	10:40:04 AM	BIG-12	EAC	TV	OCO	17	49,942
P00485934-1	12/20/2018	10:40:16 AM	PGA-13	ECE	TV	OCO	-	41,307
P00491173-1	12/20/2018	10:40:16 AM	PGA-13	ECE	TV	OCO	131	53,468
P00485955-1	12/20/2018	10:40:40 AM	CHI-12	ECD	TV	OCO	398	226,278
P00485939-1	12/20/2018	10:40:46 AM	GRI-16	ECC	TV	OCO	8	13,808
P00489312-1	12/20/2018	10:40:49 AM	BLU-16	ECC	TV	OCO	7	5,489
P00490409-1	12/20/2018	10:41:12 AM	PGA-13	ECE	TV	OCO	53	160,127
P00490124-1	12/20/2018	10:41:12 AM	PGA-13	ECE	TV	OCO	52	330,773
P00494318-1	12/20/2018	10:41:55 AM	KEN-12	EAA	TV	OCO	62	319,065
P00485966-1	12/20/2018	10:42:56 AM	OLD-23	EAA	UN	OCO	24	30,287
P00492592-1	12/20/2018	10:43:04 AM	FLD-13	EAD	TV	OCO	10	59,149
P00486686-1	12/20/2018	10:43:40 AM	BTN-38	EAC	UN	OPO	2,222	1,175,260
P00485987-1	12/20/2018	10:44:16 AM	CRE-15	EAD	TV	OCO	20	421
P00485989-1	12/20/2018	10:44:32 AM	BTN-35	EAC	TV	OCO	182	359,053
P00485982-3	12/20/2018	10:44:38 AM	CHI-12	ECD	TV		413	136,322
P00485982-1	12/20/2018	10:44:38 AM	CHI-12	ECD	TV	OCO	413	136,322
P00485991-1	12/20/2018	10:44:53 AM	POU-15	ECE	TV	OIN	1,534	798,059
P00485993-3	12/20/2018	10:45:07 AM	NUG-25	EAA	TV	OCO	7	13,659
P00485993-1	12/20/2018	10:45:07 AM	NUG-25	EAA	ND	OCO	7	13,659
P00491805-1	12/20/2018	10:46:44 AM	NLM-12	EAC	TV	OCO	1	3,177
P00488421-1	12/20/2018	10:46:51 AM	HAM-13	EAC	TV	OCR	820	1,341,446
P00486010-1	12/20/2018	10:46:59 AM	NUG-25	EAA	TV	OCO	-	145,459
P00490608-1	12/20/2018	10:47:24 AM	BLA-13	EAA	TV	OCO	36	37,847
P00486021-1	12/20/2018	10:47:57 AM	NUG-26	EAA	TV	OCO	269	684,770
P00485838-1	12/20/2018	10:48:24 AM	BTN-36	EAC	TV	OCO	6	2,729
P00493303-1	12/20/2018	10:48:32 AM	BIG-12	EAC	TV	OCO	59	208,033
P00486026-1	12/20/2018	10:48:38 AM	LOL-21	ECD	TV	OCO	60	119,515

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00493709-1	12/20/2018	10:48:59 AM	NUG-26	EAA	TV	OCO	31	110,285
P00493426-1	12/20/2018	10:49:36 AM	BIG-12	EAC	TV	OCO	25	89,689
P00486045-1	12/20/2018	10:49:40 AM	BRI-15	EAA	TV	OCO	10	16,797
P00486076-1	12/20/2018	10:52:03 AM	SIL-17	ECE	TV	OCO	565	156,693
P00491732-1	12/20/2018	10:52:27 AM	CPV-15	EAD	TF	OCO	32	187,044
P00494315-1	12/20/2018	10:52:33 AM	KEN-12	EAA	TV	OCO	8	39,998
P00490064-1	12/20/2018	10:52:39 AM	HLC-25	EAD	TV	OCO	1,496	1,281,873
P00491678-1	12/20/2018	10:53:00 AM	SUM-21	EAC	TV	OPO	121	310,015
P00491709-1	12/20/2018	10:53:23 AM	SUM-21	EAC	TV	OCO	68	100,225
P00486085-1	12/20/2018	10:54:14 AM	VWY-13	EAA	TV	OCO	671	423,233
P00486025-1	12/20/2018	10:55:00 AM	BIG-12	EAC	TV	OCO	71	235,887
P00487864-1	12/20/2018	10:55:00 AM	GRV-16	ECA	TV	OCO	648	40,370
P00494292-1	12/20/2018	10:55:26 AM	FLD-12	EAD	UN	OCO	6	30,046
P00486090-1	12/20/2018	10:55:41 AM	TRA-26	ECE	TV	OCO	54	35,022
P00490063-1	12/20/2018	10:55:51 AM	HLC-24	EAD	TV	OCO	1,395	1,183,285
P00486129-1	12/20/2018	10:55:54 AM	CRE-13	EAD	TV	OCO	261	586,020
P00493945-1	12/20/2018	10:56:12 AM	NUG-26	EAA	TV	OCO	11	42,265
P00486100-1	12/20/2018	10:56:15 AM	BKB-14	EAC	TV	OPO	11	37,293
P00486907-1	12/20/2018	10:56:18 AM	SIL-16	ECE	TV	OCO	275	111,705
P00490065-1	12/20/2018	10:56:21 AM	HLC-26	EAD	TV	OCO	287	246,198
P00490054-1	12/20/2018	10:56:25 AM	FAB-15	EAD	TV	OCO	-	1,511,154
P00486219-1	12/20/2018	10:56:29 AM	POU-16	ECE	UN	OCR	977	354,969
P00489975-1	12/20/2018	10:56:31 AM	PRI-13	ECC	TV	OCO	9	12,863
P00488551-1	12/20/2018	10:56:37 AM	MAX-12	EAD	TV	OCO	1,002	1,491,512
P00490351-1	12/20/2018	10:56:49 AM	SIN-22	ECD	TV	OCO	12	37,970
P00492316-1	12/20/2018	10:56:56 AM	BRO-16	EAD	TV	OCR	591	1,085,158
P00488501-1	12/20/2018	10:57:19 AM	FLD-15	EAD	TV	OCR	347	2,642,637
P00489150-1	12/20/2018	10:57:19 AM	BTN-36	EAC	TV	OCO	360	383,649
P00490058-1	12/20/2018	10:57:22 AM	FAB-17	EAD	TV	OCO	-	1,482,288
P00485705-1	12/20/2018	10:57:30 AM	TLN-0288	EAD	TV	OCO	-	198,067
P00489809-1	12/20/2018	10:57:38 AM	WOL-23	ECC	TV	OCO	47	29,078
P00488476-1	12/20/2018	10:57:54 AM	FLD-12	EAD	TV	OCO	369	519,042
P00487736-1	12/20/2018	10:58:00 AM	TLN-0063	ECE	TV	OCO	4,489	1,481,718
P00490051-1	12/20/2018	10:58:06 AM	FAB-13	EAD	TV	OCO	-	875,510
P00492739-1	12/20/2018	10:58:14 AM	MAX-13	EAD	TV	OCO	182	959,577
P00486261-1	12/20/2018	10:58:26 AM	NUG-25	EAA	EF	OCO	47	72,205
P00487782-1	12/20/2018	10:58:47 AM	ELD-23	ECC	TV	OFU	8	5,707
P00490157-1	12/20/2018	10:59:16 AM	SUM-22	EAC	EF	OSP	342	138,835
P00486329-1	12/20/2018	10:59:22 AM	SWD-12	ECE	TV	OCO	207	328,647
P00492487-1	12/20/2018	10:59:29 AM	LGY-16	EAD	TV	OCO	11	63,680
P00492503-1	12/20/2018	10:59:49 AM	FLD-15	EAD	TV	OCO	-	542,485
P00487389-1	12/20/2018	11:00:00 AM	TLN-0089	ECE	TV	OCO	-	223,650

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P00486411-1	12/20/2018	11:00:05 AM	CEK-01	ECE	TV	OCO	874	142,513
P00486425-1	12/20/2018	11:00:13 AM	POU-15	ECE	TV	OCO	43	73,015
P00486475-1	12/20/2018	11:00:46 AM	SIN-25	ECD	TV	OCO	38	71,550
P00486489-1	12/20/2018	11:00:51 AM	SKE-26	ECE	TV	OCO	715	1,005,944
P00490102-1	12/20/2018	11:01:00 AM	SUM-21	EAC	TV	OPO	-	8,006
P00489616-1	12/20/2018	11:01:02 AM	LYN-17	EAA	TV	OFU	59	101,655
P00485500-1	12/20/2018	11:01:09 AM	JUA-14	EBD	SO	OTR	13	778
P00486994-1	12/20/2018	11:01:50 AM	PTR-16	EAA	TV	OCO	21	69,803
P00490323-1	12/20/2018	11:01:52 AM	PMA-12	ECE	EF	OCO	4,877	5,051,559
P00486581-1	12/20/2018	11:01:55 AM	BAK-23	EAA	TV	OCO	718	667,706
P00486645-1	12/20/2018	11:02:24 AM	BLU-13	ECC	TV	OCO	27	11,681
P00490050-1	12/20/2018	11:03:03 AM	SCH-16	EAA	TV	OIN	40	66,540
P00486794-1	12/20/2018	11:03:11 AM	ALG-12	EAC	TV	OPO	533	1,757,575
P00493462-1	12/20/2018	11:03:11 AM	ALG-12	EAC	TV	UTC	33	104,442
P00486808-1	12/20/2018	11:03:29 AM	LYN-17	EAA	TV	OTF	2	4,037
P00491557-1	12/20/2018	11:03:35 AM	KIN-24	ECE	TV	OCO	1,196	985,619
P00491719-1	12/20/2018	11:03:37 AM	BAK-23	EAA	TV	OCO	36	53,313
P00491406-1	12/20/2018	11:03:37 AM	SHE-26	ECE	TV	OCO	12	9,493
P00492071-1	12/20/2018	11:03:38 AM	WIN-13	ECE	TV	OCO	58	77,832
P00491722-1	12/20/2018	11:03:44 AM	BTN-36	EAC	TV	OCO	6	26,782
P00486702-1	12/20/2018	11:03:51 AM	SWD-12	ECE	TV	OCO	107	106,490
P00486872-1	12/20/2018	11:03:56 AM	MCK-15	EAA	TV	OFU	-	12,038
P00490056-1	12/20/2018	11:04:11 AM	FAB-16	EAD	TV	OCO	-	219,880
P00488075-1	12/20/2018	11:04:13 AM	TLN-0136	ECE	TV	OCO	791	301,094
P00486928-1	12/20/2018	11:04:20 AM	FRG-22	ECC	TV	OCO	20	22,498
P00489892-1	12/20/2018	11:04:23 AM	SIL-13	ECE	TV	OCO	94	188,017
P00492578-1	12/20/2018	11:04:32 AM	FLD-13	EAD	TV	OCO	4	23,618
P00486934-1	12/20/2018	11:04:40 AM	VIK-25	EAA	TV	OCO	306	274,146
P00486991-1	12/20/2018	11:05:19 AM	GRI-16	ECC	TV	OCO	25	31,772
P00486766-1	12/20/2018	11:05:22 AM	SUM-21	EAC	TV	OFU	90	65,817
P00490023-1	12/20/2018	11:05:22 AM	ALG-15	EAC	TV	OCO	67	214,881
P00487035-1	12/20/2018	11:06:04 AM	SWD-11	ECE	TV	OCO	83	133,327
P00486942-1	12/20/2018	11:06:16 AM	CHA-16	ECC	TV	OCO	1,150	141,815
P00490208-1	12/20/2018	11:06:26 AM	SCH-16	EAA	TV	OPO	12	58,080
P00487075-1	12/20/2018	11:06:35 AM	MCW-15	ECE	EF	OCO	20	59,098
P00491452-1	12/20/2018	11:06:43 AM	MIL-22	ECE	TV	OCO	99	328,330
P00490069-1	12/20/2018	11:07:00 AM	KEN-13	EAA	EF	OCO	69	226,853
P00490069-3	12/20/2018	11:07:00 AM	KEN-13	EAA			69	226,853
P00493323-1	12/20/2018	11:07:00 AM	CRE-16	EAD	EF	OTR	504	2,246,521
P00487675-1	12/20/2018	11:07:00 AM	TLN-0154	ECC	TV	OCO	6,456	1,355,592
P00491240-1	12/20/2018	11:07:02 AM	PET-13	EAC	TV	OPO	872	898,573
P00491365-1	12/20/2018	11:07:04 AM	KIN-24	ECE	TV	OCO	43	75,209

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00490080-1	12/20/2018	11:07:10 AM	PET-16	EAC	TV	SCB	666	353,570
P00490076-1	12/20/2018	11:07:20 AM	PET-15	EAC	TV	SCB	1,636	761,580
P00487315-1	12/20/2018	11:07:27 AM	BHL-13	ECE	EF	OCO	22	19,452
P00487041-1	12/20/2018	11:07:36 AM	LAU-12	EAA	TV	OPO	605	1,029,492
P00487196-1	12/20/2018	11:07:54 AM	FNW-17	ECD	TV	OCO	195	165,383
P00488302-1	12/20/2018	11:08:00 AM	CRE-12	EAD	TV	OCO	-	2,524,995
P00487206-1	12/20/2018	11:08:05 AM	SKE-22	ECE	TV	OCO	107	50,794
P00487006-1	12/20/2018	11:08:23 AM	FNW-16	ECD	TV	OCO	18	23,009
P00491470-1	12/20/2018	11:08:31 AM	PET-13	EAC	TV	OCO	-	62,078
P00487217-1	12/20/2018	11:08:35 AM	GRI-13	ECC	TV	OFU	10	14,472
P00488312-1	12/20/2018	11:08:49 AM	CRE-15	EAD	TV	OCO	812	1,490,566
P00491150-1	12/20/2018	11:08:50 AM	PET-16	EAC	TV	OCO	480	531,392
P00490397-1	12/20/2018	11:09:05 AM	SUM-21	EAC	TV	OCO	317	335,326
P00487251-1	12/20/2018	11:09:12 AM	NUG-25	EAA	TV	OCO	24	77,685
P00492757-1	12/20/2018	11:09:19 AM	FLD-15	EAD	TV	OFU	40	119,457
P00487287-1	12/20/2018	11:09:27 AM	BRI-15	EAA	TV	OCO	4	15,968
P00490565-1	12/20/2018	11:09:27 AM	SUM-21	EAC	TV	OCO	391	372,465
P00490477-1	12/20/2018	11:09:49 AM	SUM-21	EAC	TV	OCO	7	23,960
P00489110-1	12/20/2018	11:10:03 AM	LYO-15	EBJ	TV	OCO	34	24,965
P00487198-1	12/20/2018	11:10:11 AM	TRA-22	ECE	TV	OCO	1,639	188,431
P00487325-1	12/20/2018	11:10:15 AM	POU-13	ECE	TV	OCO	31	90,830
P00487199-1	12/20/2018	11:10:16 AM	HAN-16	EAA	TV	OCO	1,172	37,425
P00487200-1	12/20/2018	11:10:36 AM	MUR-16	ECE	TV	OCO	613	236,608
P00487201-1	12/20/2018	11:10:51 AM	MTV-16	EAC	TV	SCB	1,815	151,975
P00487343-1	12/20/2018	11:10:52 AM	ELD-27	ECC	EF	OFU	22	14,351
P00491673-1	12/20/2018	11:11:15 AM	HAM-13	EAC	TV	OCO	48	67,355
P00487218-1	12/20/2018	11:11:21 AM	EPO-15	ECD	TV	OCO	1,809	82,098
P00487373-1	12/20/2018	11:11:41 AM	SEQ-22	EBJ	OD	OCO	110	9,706
P00490074-1	12/20/2018	11:11:44 AM	PET-13	EAC	TV	SCB	150	84,216
P00491729-1	12/20/2018	11:12:02 AM	CRE-16	EAD	TV	OCO	-	160,035
P00487390-1	12/20/2018	11:12:05 AM	PLG-13	ECC	TV	OCO	18	12,186
P00491786-1	12/20/2018	11:12:26 AM	MIL-17	ECE	TV	OCO	57	169,115
P00488010-1	12/20/2018	11:12:46 AM	TLN-0089	ECE	TV	OCO	-	1,114,257
P00493239-1	12/20/2018	11:12:57 AM	NUG-26	EAA	TV	OCO	-	211,991
P00488328-1	12/20/2018	11:13:43 AM	CRE-16	EAD	TV	SCB	400	2,713,286
P00491739-1	12/20/2018	11:13:49 AM	CLV-16	EAD	TV	OCO	379	1,413,691
P00489896-1	12/20/2018	11:14:00 AM	TLN-0002	EAA	TV	OCO	61	57,181
P00487419-1	12/20/2018	11:14:07 AM	FRA-12	ECD	TV	OCO	1,167	300,088
P00487996-1	12/20/2018	11:14:34 AM	TLN-0089	ECE	TV	OPO	3,751	1,531,494
P00487494-1	12/20/2018	11:15:19 AM	FRU-22	ECA	TV	OCO	4	1,569
P00491565-1	12/20/2018	11:15:22 AM	VIS-26	EAA	TV	OCO	48	59,741
P00493390-1	12/20/2018	11:15:25 AM	KEN-13	EAA	OD	OCO	46	147,828

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P00487512-1	12/20/2018	11:15:39 AM	MCK-16	EAA	TV	OSV	1	3,284
P00487516-1	12/20/2018	11:15:43 AM	BAK-22	EAA	UN	OFU	159	252,079
P00487978-1	12/20/2018	11:16:07 AM	TLN-0283	ECE	TV	OCO	-	139,373
P00494149-1	12/20/2018	11:16:16 AM	BRO-16	EAD	TV	OCO	8	43,944
P00487517-1	12/20/2018	11:16:25 AM	LYO-12	EBJ	TV	OCO	1,378	142,692
P00487616-1	12/20/2018	11:16:52 AM	FNW-15	ECD	TV	OCO	1,950	180,863
P00491781-1	12/20/2018	11:17:00 AM	NUG-25	EAA	TV	OTF	3	12,410
P00487577-1	12/20/2018	11:17:10 AM	MWD-13	EBE	TV	OTF	1	55
P00487610-1	12/20/2018	11:17:50 AM	VAS-12	EBL	TV	OCO	15	7,128
P00493459-1	12/20/2018	11:18:16 AM	ALG-12	EAC	TV	OPO	3	10,793
P00487630-1	12/20/2018	11:18:31 AM	MCW-16	ECE	TV	OCN	4	13,099
P00487631-1	12/20/2018	11:18:32 AM	WOD-13	EBH	EF	OTF	1	384
P00485809-1	12/20/2018	11:18:49 AM	MUR-13	ECE	TV	OCO	184	316,770
P00491785-1	12/20/2018	11:19:35 AM	WIN-15	ECE	TV	OCO	21	65,935
P00488946-1	12/20/2018	11:20:06 AM	SKE-23	ECE	TV	OCO	773	1,221,153
P00487688-1	12/20/2018	11:20:07 AM	NUG-25	EAA	TV	OFU	4	2,294
P00487771-1	12/20/2018	11:20:16 AM	MAN-12	ECD	TV	OCO	99	108,425
P00491034-1	12/20/2018	11:20:29 AM	MUR-13	ECE	TV	OCO	35	43,788
P00492595-1	12/20/2018	11:20:30 AM	WIN-15	ECE	TV	OCO	27	52,998
P00487706-1	12/20/2018	11:20:43 AM	MAN-15	ECD	TV	OCO	407	84,663
P00491661-1	12/20/2018	11:20:53 AM	PMA-16	ECE	TV	OCO	5	9,601
P00492547-1	12/20/2018	11:21:29 AM	BRS-13	EAC	TV	OCO	15	82,049
P00487788-1	12/20/2018	11:22:18 AM	RPT-17	ECD	TV	OCO	1,727	261,352
P00489849-1	12/20/2018	11:22:30 AM	RPT-22	ECD	TV	OCO	58	53,810
P00487758-1	12/20/2018	11:22:38 AM	LAB-25	EAA	TV	OCO	6	17,727
P00493391-1	12/20/2018	11:22:38 AM	KEN-13	EAA	OD	OCO	45	137,090
P00485833-1	12/20/2018	11:23:05 AM	BAK-25	EAA	TV	OCO	-	34,850
P00489806-1	12/20/2018	11:23:25 AM	NUG-25	EAA	TV	OCO	14	24,169
P00491621-1	12/20/2018	11:23:43 AM	PMA-16	ECE	TV	OCO	-	33,764
P00491820-1	12/20/2018	11:23:56 AM	SUM-21	EAC	TV	OFU	-	19,931
P00487822-1	12/20/2018	11:25:06 AM	FNW-13	ECD	TV	OCO	2	3,051
P00487828-1	12/20/2018	11:25:19 AM	LUH-14	ECC	TV	OCO	11	5,550
P00492970-1	12/20/2018	11:25:44 AM	CRE-15	EAD	TV	OCO	8	34,088
P00487841-1	12/20/2018	11:25:55 AM	BAK-26	EAA	TV	OCO	5	11,377
P00487866-1	12/20/2018	11:26:09 AM	COT-13	EBD	TV	OCO	1,923	1,516,828
P00492278-1	12/20/2018	11:26:11 AM	SKE-26	ECE	TV	OCO	4	10,093
P00492724-1	12/20/2018	11:26:25 AM	BRS-13	EAC	TV	OCO	136	423,348
P00487856-1	12/20/2018	11:26:35 AM	SHD-18	EBI	OD	OCO	29	20,288
P00487878-1	12/20/2018	11:28:01 AM	HAN-13	EAA	TV	OSV	3	10,822
P00487891-1	12/20/2018	11:28:34 AM	BLU-17	ECC	TV	OCO	186	23,450
P00487942-1	12/20/2018	11:28:49 AM	LYN-24	EAA	TV	OCO	743	125,083
P00491643-1	12/20/2018	11:29:20 AM	HWD-25	EBD	TV	OCO	11	8,769

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00487968-1	12/20/2018	11:30:01 AM	LAT-17	EBJ	TV	OSV	2	1,307
P00487970-1	12/20/2018	11:30:18 AM	BRW-15	EAC	TV	OCO	126	279,371
P00487985-1	12/20/2018	11:30:20 AM	HOB-16	EBI	TV	OCO	1,435	1,050,037
P00489629-1	12/20/2018	11:30:23 AM	CRE-15	EAD	TV	OCO	16	56,294
P00487987-1	12/20/2018	11:30:40 AM	DUV-15	EBD	TV	OCO	327	56,001
P00487979-1	12/20/2018	11:30:58 AM	LUH-14	ECC	TV	OCO	14	2,466
P00491598-1	12/20/2018	11:31:06 AM	CRE-12	EAD	TV	OPO	19	84,231
P00488016-1	12/20/2018	11:31:40 AM	ROE-17	EAA	TV	OCO	1,905	1,031,018
P00490292-1	12/20/2018	11:31:50 AM	SCH-16	EAA	TV	OCO	20	30,523
P00493478-1	12/20/2018	11:31:53 AM	KEN-13	EAA	TV	OCO	4	20,730
P00490097-1	12/20/2018	11:32:24 AM	SKE-26	ECE	TV	OCO	-	80,486
P00489046-1	12/20/2018	11:32:28 AM	DUV-15	EBD	TV	OCO	1,164	317,833
P00488012-1	12/20/2018	11:32:51 AM	WOL-25	ECC	TV	OCO	696	125,176
P00492260-1	12/20/2018	11:33:18 AM	SKE-26	ECE	TV	OCO	5	9,798
P00488025-1	12/20/2018	11:33:30 AM	FNW-17	ECD	OD	OTR	1	3,537
P00488026-1	12/20/2018	11:33:36 AM	HWD-25	EBD	TV	OFU	164	106,925
P00488028-1	12/20/2018	11:33:40 AM	MWD-16	EBE	TV	OCO	81	30,237
P00488032-1	12/20/2018	11:33:47 AM	SUM-21	EAC	TV	OCO	96	149,333
P00488035-1	12/20/2018	11:34:02 AM	BAK-25	EAA	TV	OCO	3	4,800
P00488036-1	12/20/2018	11:34:04 AM	PGA-12	ECE	TV	OSV	5	15,886
P00488213-1	12/20/2018	11:35:04 AM	ALG-15	EAA	TV	OCR	1,299	2,499,107
P00491476-1	12/20/2018	11:35:05 AM	HAM-15	EAC	TV	OCO	73	390,098
P00488069-1	12/20/2018	11:35:11 AM	PLG-13	ECC	TV	OCO	45	34,523
P00488070-1	12/20/2018	11:35:16 AM	KNT-37	EBJ	TV	OCO	262	50,145
P00488094-1	12/20/2018	11:36:01 AM	BHL-15	ECE	TV	OCO	3,044	46,016
P00488563-1	12/20/2018	11:36:11 AM	BRS-15	EAC	TV	OCO	5	22,877
P00488098-1	12/20/2018	11:36:16 AM	CEK-16	ECE	TV	OCO	1,143	729,755
P00488091-1	12/20/2018	11:36:39 AM	FNW-17	ECD	TV	OCO	30	56,383
P00488095-1	12/20/2018	11:37:15 AM	MAP-16	EBE	TV	OCO	35	5,226
P00492374-1	12/20/2018	11:37:47 AM	NLM-13	EAC	TV	OCO	76	262,523
P00488103-1	12/20/2018	11:38:05 AM	GAG-11	EAC	TV	SCB	596	948,783
P00488120-1	12/20/2018	11:38:16 AM	SWA-12	EAD	TV	OCO	-	191,830
P00488105-1	12/20/2018	11:38:20 AM	KNT-23	EBJ	TV	OSV	1	707
P00488106-1	12/20/2018	11:38:26 AM	NUG-25	EAA	TV	OFU	2	8,256
P00489219-1	12/20/2018	11:39:04 AM	TLN-0070	EAC	TV	OCO	1,141	282,142
P00489958-1	12/20/2018	11:39:04 AM	GAG-13	EAC	UN	OCO	1,135	599,993
P00490193-1	12/20/2018	11:39:09 AM	HAN-15	EAA	TV	OCO	251	263,409
P00489998-1	12/20/2018	11:39:22 AM	RIV-12	EAC	TV	SCB	464	127,368
P00488139-1	12/20/2018	11:39:46 AM	CEK-14	ECE	TV	OCO	1,692	707,142
P00488125-1	12/20/2018	11:40:04 AM	NBO-25	EBD	TV	OCO	163	55,645
P00487318-1	12/20/2018	11:40:13 AM	CRE-13	EAD	TV	OCO	1,387	3,251,795
P00490031-1	12/20/2018	11:40:34 AM	RIV-16	EAC	TV	OPO	699	268,778

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00488143-1	12/20/2018	11:41:37 AM	GAG-14	EAC	OD	SCB	-	112,695
P00485606-1	12/20/2018	11:41:41 AM	DEC-17	ECC	TV	OCO	2,157	231,336
P00488154-1	12/20/2018	11:42:39 AM	FRG-24	ECC	TV	OCO	69	49,624
P00488182-1	12/20/2018	11:43:17 AM	PGA-12	ECE	TV	OCO	1,656	1,281,122
P00490029-1	12/20/2018	11:43:44 AM	RIV-15	EAC	TV	SCB	222	68,383
P00488201-1	12/20/2018	11:44:22 AM	PEA-15	EBJ	OD	OCO	1,945	161,698
P00489928-1	12/20/2018	11:44:36 AM	GAG-12	EAC	UN	SCB	277	100,246
P00493733-1	12/20/2018	11:44:42 AM	BKB-14	EAC	TV	OCO	11	38,188
P00488290-1	12/20/2018	11:45:10 AM	ING-17	EBD	TV	OCO	127	105,700
P00488198-1	12/20/2018	11:45:58 AM	WLS-15	EAC	TV	OCO	49	5,364
P00488216-1	12/20/2018	11:46:01 AM	PIN-27	EBD	TV	OCO	390	101,179
P00493730-1	12/20/2018	11:46:22 AM	KEN-12	EAA	TV	OCO	19	90,156
P00488240-1	12/20/2018	11:46:42 AM	MCK-15	EAA	TV	OCO	1,426	1,174,148
P00488241-1	12/20/2018	11:47:02 AM	MVW-13	EBJ	TV	OCO	679	105,969
P00488220-1	12/20/2018	11:47:35 AM	HIG-15	EBE	TV	OCO	71	32,065
P00488222-1	12/20/2018	11:47:37 AM	LAB-23	EAA	TV	OHR	206	175,413
P00488237-1	12/20/2018	11:48:10 AM	NBO-25	EBD	TV	OCO	16	13,156
P00492215-1	12/20/2018	11:48:19 AM	OLD-26	EAA	OD	OCO	10	17,924
P00488244-1	12/20/2018	11:48:26 AM	BRI-17	EAA	TV	OCO	31	63,470
P00489383-1	12/20/2018	11:48:38 AM	BHS-14	EAA	TV	OCO	799	643,328
P00488256-1	12/20/2018	11:49:10 AM	LON-23	ECC	TV	OCO	462	93,370
P00488260-1	12/20/2018	11:49:21 AM	COT-15	EBD	TV	OCO	1,285	706,930
P00488291-1	12/20/2018	11:49:28 AM	SHD-18	EBI	TV	OCO	1,973	740,888
P00488268-1	12/20/2018	11:49:42 AM	DUV-12	EBD	TV	OCO	17	10,535
P00489023-1	12/20/2018	11:49:52 AM	MAP-15	EBE	TV	OFU	7	3,643
P00488275-1	12/20/2018	11:49:59 AM	LAB-25	EAA	TV	OCO	4	12,178
P00488594-1	12/20/2018	11:50:03 AM	WOB-23	EAA	TV	OCO	1,658	1,041,237
P00488279-1	12/20/2018	11:50:05 AM	MIR-16	EBF	TV	OCO	31	8,314
P00488284-1	12/20/2018	11:50:15 AM	LYO-15	EBJ	TV	OCO	144	101,889
P00488289-1	12/20/2018	11:50:32 AM	AVO-15	EBD	TV	OTF	4	1,236
P00488292-1	12/20/2018	11:50:42 AM	HAP-13	EAA	TV	OSV	2	7,042
P00488299-1	12/20/2018	11:51:13 AM	PGA-13	ECE	TV	OCO	60	170,505
P00488337-1	12/20/2018	11:51:38 AM	WIN-12	ECE	TV	OCO	3,787	3,446,844
P00488325-1	12/20/2018	11:52:24 AM	BIG-15	EAC	TV	OTF	-	7,681
P00488326-1	12/20/2018	11:52:30 AM	SIN-23	ECD	TV	OCO	125	113,019
P00488327-1	12/20/2018	11:52:31 AM	SEM-15	EAA	TV	OCO	-	175,408
P00491654-1	12/20/2018	11:52:41 AM	BHS-14	EAA	TV	OCO	86	195,188
P00493293-1	12/20/2018	11:53:10 AM	KEN-13	EAA	TV	OCO	30	133,724
P00488338-1	12/20/2018	11:53:11 AM	VWY-12	EAA	TV	OCO	82	294,156
P00491914-1	12/20/2018	11:53:12 AM	HAM-15	EAC	TV	OCO	36	68,875
P00489760-1	12/20/2018	11:53:33 AM	BIG-15	EAC	TV	OPO	566	568,218
P00488385-1	12/20/2018	11:53:33 AM	KIN-21	ECE	TV	OCO	364	2,607,264

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00488354-1	12/20/2018	11:53:57 AM	ROC-26	ECC	TV	OCO	7	7,671
P00488357-1	12/20/2018	11:54:01 AM	VIK-23	EAA	TV	OCO	45	32,932
P00488617-1	12/20/2018	11:54:15 AM	SEQ-13	EBJ	TV	OCO	427	189,544
P00488395-1	12/20/2018	11:54:44 AM	EPO-16	ECD	TV	OCO	1,043	87,056
P00486002-1	12/20/2018	11:54:44 AM	PGA-13	ECE	TV	OCO	54	24,088
P00488376-1	12/20/2018	11:54:59 AM	MSI-24	EBF	TV	OCO	29	9,013
P00490182-1	12/20/2018	11:55:07 AM	MIR-15	EBF	TV	OCO	20	11,447
P00488934-1	12/20/2018	11:55:23 AM	SWD-13	ECE	TV	OFU	97	322,644
P00488386-1	12/20/2018	11:55:32 AM	WLS-16	EAC	TV	OPI	87	227,166
P00488403-1	12/20/2018	11:56:29 AM	PIN-26	EBD	TV	OCO	153	73,205
P00488408-1	12/20/2018	11:56:35 AM	OSC-23	EBI	TV	OCO	173	46,598
P00488411-1	12/20/2018	11:56:55 AM	SPI-16	EBD	TV	OCO	1,160	101,236
P00488413-1	12/20/2018	11:56:58 AM	RAI-11	ECC	TV	OTF	1	1,315
P00488437-1	12/20/2018	11:57:19 AM	FCR-12	EBI	TV	OCO	2,952	1,090,273
P00488906-1	12/20/2018	11:57:23 AM	VAS-22	EBL	TV	OCO	8	2,805
P00489674-1	12/20/2018	11:57:56 AM	SUM-22	EAC	TV	OCO	227	234,510
P00488436-1	12/20/2018	11:59:01 AM	CEK-15	ECE	UN	OCO	85	52,441
P00488467-1	12/20/2018	11:59:19 AM	LWS-12	EBJ	TV	OCR	1,900	426,671
P00488454-1	12/20/2018	12:00:02 PM	ORT-23	ECA	TV	OTR	2	1,238
P00488455-1	12/20/2018	12:00:05 PM	VIS-26	EAA	TV	OCO	76	100,060
P00487188-1	12/20/2018	12:00:07 PM	TLN-0184	EAD	TV	OCO	616	190,967
P00493065-1	12/20/2018	12:00:12 PM	HAM-15	EAC	TV	OCO	645	1,579,214
P00491776-1	12/20/2018	12:00:13 PM	VWY-15	EAA	TV	OCO	7	21,597
P00488458-1	12/20/2018	12:00:15 PM	SEH-12	EAA	TV	OCO	50	157,417
P00488463-1	12/20/2018	12:00:21 PM	MLK-15	EBE	TV	OCO	111	15,690
P00493732-1	12/20/2018	12:00:35 PM	KEN-12	EAA	TV	OCO	40	177,940
P00488425-1	12/20/2018	12:01:00 PM	GBK-13	EAD	TV	OPO	63	582,507
P00488477-1	12/20/2018	12:01:09 PM	MER-15	EBE	TV	OCO	6	1,072
P00488478-1	12/20/2018	12:01:21 PM	NOB-24	EBE	TV	OIN	312	39,619
P00488499-1	12/20/2018	12:01:57 PM	ZEN-25	EBJ	TV	OCO	315	169,591
P00491111-1	12/20/2018	12:02:40 PM	BIG-16	EAC	TV	OCO	114	149,121
P00488511-1	12/20/2018	12:03:31 PM	PET-12	EAC	TV	OPO	1	371
P00488516-1	12/20/2018	12:03:44 PM	LMD-16	EBJ	TV	OCO	5	4,347
P00488519-1	12/20/2018	12:03:46 PM	POU-15	ECE	TV	OCO	6	16,827
P00488538-1	12/20/2018	12:03:51 PM	SHE-25	ECE	TV	OCO	18	27,126
P00487875-1	12/20/2018	12:04:01 PM	GRV-12	ECA	TV	OCO	5	150
P00488533-1	12/20/2018	12:04:30 PM	FAL-15	EBF	TV	OCO	97	34,994
P00488537-1	12/20/2018	12:04:45 PM	HAN-12	EAA	TV	OCO	44	84,831
P00488542-1	12/20/2018	12:05:13 PM	ALG-15	EAA	TV	OCO	83	143,436
P00488541-1	12/20/2018	12:05:13 PM	CHI-12	ECD	TV	OCO	45	33,973
P00488544-1	12/20/2018	12:05:20 PM	ROS-21	EBD	TV	OCO	21	13,260
P00488543-1	12/20/2018	12:05:24 PM	MWD-15	EBE	TV	OCO	5	1,391

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00488557-1	12/20/2018	12:06:29 PM	VWY-15	EAA	TV	OCO	27	37,750
P00492442-1	12/20/2018	12:06:51 PM	BRS-13	EAC	TV	OPO	411	715,476
P00493544-1	12/20/2018	12:06:51 PM	BRS-13	EAC	TV	OCO	40	175,526
P00488570-1	12/20/2018	12:07:01 PM	ALG-15	EAC	EF	OTF	3	2,060
P00488578-1	12/20/2018	12:07:26 PM	HAP-13	EAA	TV	OCO	32	78,678
P00488584-1	12/20/2018	12:07:57 PM	SOO-25	EBI	TV	OCO	125	22,100
P00488659-1	12/20/2018	12:08:06 PM	HEM-13	ECA	TV	OCR	109	54,142
P00488588-1	12/20/2018	12:08:18 PM	FAL-13	EBF	TV	OCO	8	7,087
P00488590-1	12/20/2018	12:08:21 PM	BHL-13	ECE	TV	OCO	163	112,894
P00490382-1	12/20/2018	12:09:14 PM	AVO-17	EBD	TV	OCO	27	13,894
P00488604-1	12/20/2018	12:09:41 PM	EPO-15	ECD	TV	OCN	12	6,779
P00488607-1	12/20/2018	12:09:53 PM	MIR-13	EBF	TV	OCO	-	428
P00490841-1	12/20/2018	12:09:53 PM	MIR-13	EBF	TV	OCO	5	3,415
P00488609-1	12/20/2018	12:10:09 PM	HKX-16	EAC	TV	OCO	123	226,967
P00488598-1	12/20/2018	12:10:11 PM	SPG-11	ECC	TV	OPO	1,701	128,071
P00488611-1	12/20/2018	12:10:17 PM	HWD-25	EBD	TV	OCO	266	233,399
P00488623-1	12/20/2018	12:11:01 PM	PIN-26	EBF	TV	OCO	1	404
P00488627-1	12/20/2018	12:11:20 PM	BAK-25	EAA	TV	OSV	2	9,937
P00493374-1	12/20/2018	12:11:58 PM	HAM-15	EAC	TV	OCO	316	945,117
P00488638-1	12/20/2018	12:12:21 PM	SKE-22	ECE	TV	OCO	1	626
P00488644-1	12/20/2018	12:12:33 PM	TOL-15	EBD	TV	OCO	167	51,773
P00489053-1	12/20/2018	12:12:38 PM	MCW-16	ECE	TV	OCO	114	203,760
P00488648-1	12/20/2018	12:12:54 PM	WAY-12	EBD	TV	OCO	1,008	126,958
P00488666-1	12/20/2018	12:14:13 PM	WLS-16	EAC	TV	OCO	4	6,286
P00488671-1	12/20/2018	12:14:28 PM	HOB-15	EBI	TV	OCO	34	21,762
P00488680-1	12/20/2018	12:15:18 PM	LAU-13	EAA	TV	OSV	1	3,569
P00491898-1	12/20/2018	12:15:30 PM	HAM-15	EAC	TV	OCO	-	29,464
P00488711-1	12/20/2018	12:16:02 PM	SUN-14	ECA	TV	OCO	838	79,191
P00488697-1	12/20/2018	12:16:31 PM	LAU-14	EAA	TV	OCO	7	22,210
P00490825-1	12/20/2018	12:17:00 PM	TLN-0060	EAA	TV	OCO	-	1,369,604
P00490287-3	12/20/2018	12:17:50 PM	MKI-17	ECC	TV	OCO	11	10,085
P00490287-1	12/20/2018	12:17:50 PM	MKI-17	ECC	TV	OCO	11	10,085
P00488717-1	12/20/2018	12:17:55 PM	OBY-17	ECC	TV	OCO	4	6,546
P00493485-1	12/20/2018	12:18:06 PM	HAM-15	EAC	TV	OCO	58	190,420
P00491364-1	12/20/2018	12:18:15 PM	HOB-17	EBI	TV	OJU	621	357,365
P00488752-1	12/20/2018	12:18:42 PM	RIT-19	EAC	TV	OPO	1,012	374,979
P00488760-1	12/20/2018	12:19:12 PM	HAW-12	ECC	TV	OCO	3,705	202,000
P00488776-1	12/20/2018	12:20:13 PM	WOB-27	EAA	TV	SCB	1,274	585,445
P00488756-1	12/20/2018	12:20:24 PM	TOT-23	EBD	TV	OCO	393	58,540
P00489120-1	12/20/2018	12:20:44 PM	ROS-13	EBD	TV	OCO	112	56,450
P00490015-1	12/20/2018	12:21:05 PM	HAP-16	EAA	TV	OCO	19	53,406
P00489212-1	12/20/2018	12:21:31 PM	LWS-15	EBJ	TV	OCO	128	74,726

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00488780-1	12/20/2018	12:22:34 PM	SWD-14	ECE	TV	UTC	43	47,944
P00491060-1	12/20/2018	12:22:40 PM	NLM-13	EAC	TV	OCO	26	77,766
P00491166-1	12/20/2018	12:23:07 PM	BRI-14	EAA	TV	OCO	8	26,214
P00491882-1	12/20/2018	12:23:30 PM	GBK-13	EAD	TV	OCO	15	59,722
P00490290-1	12/20/2018	12:24:31 PM	WAY-13	EBD	TV	OCO	60	24,601
P00488806-1	12/20/2018	12:25:03 PM	NHL-17	EBD	TV	OCO	1	1,022
P00488813-1	12/20/2018	12:25:41 PM	RIT-17	EAC	TV	OFU	138	47,324
P00487976-1	12/20/2018	12:26:03 PM	BTN-36	EAC	TV	OCO	35	69,522
P00488827-1	12/20/2018	12:26:49 PM	CAM-17	EBJ	TV	OCO	-	214
P00488829-1	12/20/2018	12:27:02 PM	SKE-22	ECE	EF	OCO	13	23,938
P00490459-1	12/20/2018	12:27:28 PM	PGA-13	ECE	TV	OCO	-	8,626
P00488835-1	12/20/2018	12:27:30 PM	ELD-27	ECC	TV	OPO	5	5,829
P00488837-1	12/20/2018	12:27:42 PM	WOO-26	ECA	TV	OCO	41	8,228
P00489025-1	12/20/2018	12:28:37 PM	RIV-15	EAC	TV	OPO	14	17,771
P00488855-1	12/20/2018	12:28:54 PM	COT-16	EBD	TV	OCO	1,147	429,207
P00489006-1	12/20/2018	12:29:36 PM	BHL-12	ECE	TV	OCO	15	20,734
P00488858-1	12/20/2018	12:30:55 PM	FCH-24	ECA	TV	OCO	-	796
P00488862-1	12/20/2018	12:31:15 PM	RIT-16	EAC	EF	OPO	1	2,075
P00492852-1	12/20/2018	12:31:36 PM	SWD-13	ECE	TV	OCO	103	202,098
P00491486-1	12/20/2018	12:32:41 PM	SUM-21	EAC	TV	OCO	2	6,951
P00488876-1	12/20/2018	12:33:06 PM	FAL-16	EBF	TV	OCO	11	6,989
P00492847-1	12/20/2018	12:33:12 PM	SWD-13	ECE	TV	OCO	42	107,249
P00493510-1	12/20/2018	12:33:29 PM	GBK-13	EAD	TV	OCO	13	60,276
P00494086-1	12/20/2018	12:34:06 PM	BRS-24	EAC	TV	OCO	-	41,654
P00491875-1	12/20/2018	12:34:55 PM	GBK-13	EAD	TV	OCO	74	427,456
P00488896-1	12/20/2018	12:35:20 PM	LWS-13	EBJ	TV	OCO	60	16,838
P00489030-1	12/20/2018	12:35:38 PM	BHS-12	EAA	UN	OHR	524	147,296
P00493816-1	12/20/2018	12:36:15 PM	BRS-13	EAC	TV	OCO	-	128,373
P00488912-1	12/20/2018	12:36:41 PM	RIT-18	EAC	TV	OCO	38	110,409
P00493726-1	12/20/2018	12:37:07 PM	BRS-24	EAC	TV	OCO	-	431,513
P00488918-1	12/20/2018	12:37:10 PM	FNW-16	ECD	TV	OCO	1	1,634
P00493727-1	12/20/2018	12:37:24 PM	BRS-24	EAC	TV	OCR	431	1,693,396
P00489608-1	12/20/2018	12:37:36 PM	MIR-15	EBF	UN	OCO	244	29,093
P00488929-1	12/20/2018	12:38:20 PM	LMD-16	EBJ	TV	OSV	2	1,516
P00488932-1	12/20/2018	12:38:24 PM	PAN-12	EBJ	TV	OCO	-	94
P00490030-1	12/20/2018	12:39:46 PM	ALG-15	EAA	TV	OCO	25	99,524
P00488968-1	12/20/2018	12:40:24 PM	CLY-26	EBE	TV	OFU	14	14,632
P00488954-1	12/20/2018	12:40:28 PM	CHI-12	ECD	TV	OCO	13	19,152
P00491333-1	12/20/2018	12:40:40 PM	ANA-15	EAC	UN	OHR	2,807	2,120,407
P00488957-1	12/20/2018	12:40:42 PM	SAH-15	EBD	TV	OCO	187	91,517
P00488967-1	12/20/2018	12:41:22 PM	POU-16	ECE	TV	OCO	195	273,708
P00490518-1	12/20/2018	12:41:32 PM	EDG-13	ECA	TV	OPO	6	1,452

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00488975-1	12/20/2018	12:41:56 PM	PTR-14	EAA	TV	OCO	570	3,724,075
P00491462-1	12/20/2018	12:42:45 PM	LYO-15	EBJ	TV	OCO	25	17,529
P00488985-1	12/20/2018	12:43:15 PM	PLY-13	EAA	TV	OTR	6	26,974
P00488999-1	12/20/2018	12:45:05 PM	BTN-36	EAC	TV	OCO	-	5,800
P00489002-1	12/20/2018	12:45:32 PM	TRA-23	ECE	TV	OCO	1	2,710
P00489004-1	12/20/2018	12:45:42 PM	BIG-16	EAC	TV	OCO	14	46,037
P00489021-1	12/20/2018	12:46:17 PM	SHD-16	EBI	TV	OCO	1,656	401,750
P00489041-1	12/20/2018	12:48:57 PM	BRS-24	EAC	TV	OCR	1,132	3,428,099
P00489165-1	12/20/2018	12:49:24 PM	BRI-17	EAA	TV	OFU	64	107,677
P00489038-1	12/20/2018	12:49:51 PM	HKX-16	EAC	TV	OCO	3	9,386
P00493707-1	12/20/2018	12:50:30 PM	BRS-13	EAC	TV	OCO	144	955,057
P00489050-1	12/20/2018	12:51:39 PM	HOB-17	EBI	EF	OJU	-	70,122
P00493233-1	12/20/2018	12:52:03 PM	BIG-12	EAC	TV	OPO	12	36,349
P00489056-1	12/20/2018	12:52:10 PM	POU-16	ECE	TV	OCO	28	77,415
P00489065-1	12/20/2018	12:53:14 PM	FRA-15	ECD	TV	OSV	1	3,187
P00489076-1	12/20/2018	12:54:28 PM	CAR-16	EAA	TV	OCO	34	48,534
P00489080-1	12/20/2018	12:54:51 PM	KNM-23	EBD	TV	OCO	16	12,509
P00490212-1	12/20/2018	12:54:59 PM	HAZ-15	EBE	TV	OCO	207	59,961
P00493529-1	12/20/2018	12:55:23 PM	BRS-13	EAC	TV	OCO	9	31,243
P00489581-1	12/20/2018	12:55:52 PM	LYN-24	EAA	TV	OFU	97	24,575
P00491627-1	12/20/2018	12:56:42 PM	CRE-16	EAD	TV	OTR	3	13,009
P00489099-1	12/20/2018	12:57:17 PM	ALG-15	EAC	EF	OTF	1	648
P00489102-1	12/20/2018	12:57:45 PM	EDG-13	ECA	TV	OPO	12	6,359
P00489112-1	12/20/2018	12:58:03 PM	BHS-12	EAA	TV	OCO	104	42,783
P00493591-1	12/20/2018	12:59:38 PM	PTR-14	EAA	TV	OCO	73	231,071
P00489124-1	12/20/2018	12:59:49 PM	NBO-26	EBD	TV	OCO	2	1,454
P00490014-1	12/20/2018	1:00:00 PM	TLN-9998	EAA	TV	OCO	-	404,365
P00489187-1	12/20/2018	1:00:00 PM	TLN-0045	EBE	TV	OCO	2,885	89,963
P00492633-1	12/20/2018	1:01:16 PM	ALG-15	EAA	TV	OCO	33	139,706
P00489148-1	12/20/2018	1:02:32 PM	PLY-15	EAA	TV	OFU	14	19,742
P00489143-1	12/20/2018	1:02:50 PM	NLM-16	EAC	TV	OIN	291	1,116,571
P00489158-1	12/20/2018	1:03:30 PM	FRA-16	ECD	TV	OSV	2	2,860
P00489159-1	12/20/2018	1:03:35 PM	VAS-12	EBL	TV	OCO	11	1,509
P00492400-1	12/20/2018	1:03:49 PM	NLM-16	EAC	TV	OCO	648	524,346
P00491182-1	12/20/2018	1:04:51 PM	HAM-15	EAC	TV	OCO	85	47,230
P00493060-1	12/20/2018	1:06:54 PM	HAM-15	EAC	TV	OCO	128	359,262
P00489200-1	12/20/2018	1:07:01 PM	MTV-16	EAC	TV	OCO	72	27,380
P00489201-1	12/20/2018	1:07:04 PM	PRI-23	ECC	TV	OFC	4	5,754
P00491449-1	12/20/2018	1:08:37 PM	HAN-15	EAA	TV	OCO	5	42,407
P00489228-1	12/20/2018	1:09:26 PM	RIT-16	EAC	TV	OFU	1	4,268
P00489234-1	12/20/2018	1:09:53 PM	GRV-12	ECA	OD	OFU	73	12,892
P00489236-1	12/20/2018	1:10:13 PM	HOU-25	EBD	TV	OTF	2	2,199

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00489237-1	12/20/2018	1:10:15 PM	BKB-13	EAC	TV	OCO	27	33,980
P00493375-1	12/20/2018	1:10:16 PM	HAM-15	EAC	TV	OCO	87	254,971
P00489362-1	12/20/2018	1:10:18 PM	CRE-15	EAD	TV	OCO	4	16,834
P00489245-1	12/20/2018	1:10:45 PM	PLG-13	ECC	TV	OCO	2	2,732
P00489246-1	12/20/2018	1:10:48 PM	ING-13	EBD	TV	OCO	29	9,980
P00489270-1	12/20/2018	1:14:18 PM	BIG-12	EAC	TV	OFU	5	5,905
P00489274-1	12/20/2018	1:14:47 PM	BRI-14	EAA	TV	OFU	90	310,610
P00489279-1	12/20/2018	1:15:14 PM	TOL-15	EBD	TV	OFU	36	13,594
P00489328-1	12/20/2018	1:16:06 PM	AVO-17	EBD	TV	OCO	241	25,727
P00492717-1	12/20/2018	1:17:18 PM	PTR-16	EAA	TV	OCO	51	233,666
P00489338-1	12/20/2018	1:18:59 PM	LLT-17	EBD	TV	OCO	1	1,211
P00489339-1	12/20/2018	1:19:03 PM	KCR-16	EBJ	OD	OCO	8	6,098
P00490989-1	12/20/2018	1:21:03 PM	SEM-15	EAA	TV	OCO	178	67,741
P00489361-1	12/20/2018	1:23:14 PM	HKX-16	EAC	TV	OCO	33	52,619
P00489366-1	12/20/2018	1:24:27 PM	MAN-13	ECD	TV	OCO	11	12,070
P00488791-1	12/20/2018	1:25:46 PM	KEN-12	EAA	TV	OCO	-	552,078
P00489371-1	12/20/2018	1:26:09 PM	VIK-23	EAA	TV	OSV	3	1,957
P00492897-1	12/20/2018	1:26:18 PM	PTR-14	EAA	TV	OCO	92	291,862
P00489386-1	12/20/2018	1:27:33 PM	PAN-12	EBJ	TV	OCO	1,577	648,491
P00491959-1	12/20/2018	1:28:22 PM	NLM-16	EAC	TV	OCO	2	6,023
P00493758-1	12/20/2018	1:29:02 PM	PTR-14	EAA	TV	OCO	17	60,513
P00489391-1	12/20/2018	1:30:15 PM	BHL-12	ECE	EF	OFU	1	3,242
P00489394-1	12/20/2018	1:30:33 PM	BRI-17	EAA	TV	OCO	13	23,934
P00489399-1	12/20/2018	1:31:04 PM	MTV-16	EAC	TV	OSV	4	6,150
P00489401-1	12/20/2018	1:31:11 PM	CHI-12	ECD	TV	OCO	67	40,930
P00489410-1	12/20/2018	1:31:29 PM	PEA-15	EBJ	TV	OCO	1,945	421,433
P00490453-1	12/20/2018	1:32:00 PM	DUV-13	EBD	TV	OCO	14	10,434
P00489408-1	12/20/2018	1:32:16 PM	SHE-26	ECE	TV	OCO	18	47,034
P00489411-1	12/20/2018	1:32:23 PM	DUV-12	EBD	TV	OCO	1	1,002
P00489412-1	12/20/2018	1:32:44 PM	NUG-25	EAA	TV	OCO	3	13,653
P00489415-1	12/20/2018	1:32:54 PM	DEC-15	ECC	TV	OFU	90	61,873
P00489420-1	12/20/2018	1:34:06 PM	LLT-16	EBD	TV	OCO	556	148,424
P00489461-1	12/20/2018	1:35:12 PM	HAM-15	EAC	TV	OCO	22	26,616
P00492846-1	12/20/2018	1:35:36 PM	SWD-13	ECE	TV	OCO	8	22,489
P00489533-1	12/20/2018	1:35:54 PM	HKX-13	EAC	TV	OCO	27	24,783
P00489529-1	12/20/2018	1:36:04 PM	LMC-27	EBE	TV	OCR	3	1,121
P00489546-1	12/20/2018	1:36:13 PM	CHI-13	ECD	UN	OCO	16	24,061
P00490891-1	12/20/2018	1:36:52 PM	LYN-14	EAA	UN	OFC	64	95,247
P00489573-1	12/20/2018	1:37:05 PM	HKX-16	EAC	TV	OCO	45	134,155
P00489586-1	12/20/2018	1:37:35 PM	HAN-12	EAA	TV	OCO	23	36,548
P00489614-1	12/20/2018	1:40:45 PM	UHL-25	EBD	TV	OCO	486	61,117
P00489625-1	12/20/2018	1:43:48 PM	PIP-23	EBI	TV	OSV	5	4,269

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00489649-1	12/20/2018	1:45:52 PM	WLS-15	EAC	TV	OTF	1	1,254
P00492891-1	12/20/2018	1:46:09 PM	PTR-16	EAA	TV	OPO	13	58,186
P00489663-1	12/20/2018	1:46:44 PM	TRA-22	ECE	TV	OCO	29	27,358
P00489685-1	12/20/2018	1:49:56 PM	BCH-13	EAA	TV	OPO	285	437,329
P00489697-1	12/20/2018	1:51:40 PM	WAY-15	EBD	TV	OCR	732	46,885
P00489722-1	12/20/2018	1:53:57 PM	LEA-16	EBJ	OD	OJU	92	27,106
P00491401-1	12/20/2018	1:54:17 PM	LLS-13	EAA	TV	SCB	20	22,411
P00489727-1	12/20/2018	1:54:34 PM	MIL-16	ECE	TV	OCO	72	267,347
P00489732-1	12/20/2018	1:54:45 PM	SEM-15	EAA	TV	OCO	19	31,547
P00488956-1	12/20/2018	1:56:01 PM	KIN-24	ECE	TV	OCO	-	5,073
P00489746-1	12/20/2018	1:57:00 PM	TLN-0152	EBI	TV	OCO	2,057	38,842
P00489743-1	12/20/2018	1:57:17 PM	POU-13	ECE	TV	OCO	9	16,846
P00489750-1	12/20/2018	1:57:57 PM	SBE-26	EBE	TV	OSV	1	890
P00489753-1	12/20/2018	1:58:03 PM	MIL-16	ECE	TV	OSV	1	1,548
P00489755-1	12/20/2018	1:58:25 PM	SEM-13	EAA	TV	OTF	1	1,413
P00489761-1	12/20/2018	1:58:33 PM	LUH-14	ECC	TV	OCO	4	3,951
P00489768-1	12/20/2018	1:59:39 PM	LYN-17	EAA	TV	OPO	20	7,216
P00493872-1	12/20/2018	2:00:42 PM	BRS-24	EAC	TV	OPO	-	27,127
P00489778-1	12/20/2018	2:01:05 PM	CUS-13	EAA	TV	OHR	142	98,482
P00493590-1	12/20/2018	2:01:07 PM	GBK-13	EAD	TV	OCO	52	237,833
P00489789-1	12/20/2018	2:01:56 PM	BCH-16	EAA	TV	OTF	-	650
P00492088-1	12/20/2018	2:05:51 PM	BLS-22	EAA	EF	UOT	25	88,560
P00485572-1	12/20/2018	2:08:41 PM	SPG-13	ECC	TV	OFU	20	1,009
P00489826-1	12/20/2018	2:09:05 PM	BCH-15	EAA	TV	SCB	426	201,633
P00489822-1	12/20/2018	2:09:44 PM	VIC-16	EBJ	EF	UEL	19	16,857
P00489828-1	12/20/2018	2:10:17 PM	EGT-27	EBE	TV	OSV	7	7,269
P00489841-1	12/20/2018	2:12:38 PM	BKB-14	EAC	TV	OTF	5	17,209
P00491641-1	12/20/2018	2:15:22 PM	SCH-13	EAA	TV	OPO	42	91,066
P00489862-1	12/20/2018	2:15:43 PM	BRI-15	EAA	TV	OSV	-	30,216
P00492726-1	12/20/2018	2:21:22 PM	ALG-15	EAA	TV	OCO	2	8,310
P00490450-1	12/20/2018	2:21:33 PM	SIL-15	ECE	TV	OCO	21	30,570
P00489888-1	12/20/2018	2:23:25 PM	COT-15	EBD	TV	OCO	5	3,140
P00489903-1	12/20/2018	2:24:19 PM	SKE-22	ECE	TV	OSV	5	13,589
P00488988-1	12/20/2018	2:27:21 PM	GAR-16	ECA	TV	OCO	16	563
P00488727-1	12/20/2018	2:28:16 PM	HOB-17	EBI	TV	OSW	-	121,672
P00488502-1	12/20/2018	2:29:55 PM	GBK-13	EAD	TV	OCR	8	1,691,236
P00489943-1	12/20/2018	2:30:30 PM	BCH-12	EAA	TV	OFU	130	73,426
P00489945-1	12/20/2018	2:31:13 PM	LYO-12	EBJ	TV	OCO	5	5,783
P00489947-1	12/20/2018	2:31:35 PM	BLU-13	ECC	EF	UPC	1	1,702
P00492634-1	12/20/2018	2:32:08 PM	MCW-14	ECE	TV	OCO	21	30,068
P00490000-1	12/20/2018	2:32:59 PM	WOL-25	ECC	TV	OCO	696	188,465
P00490829-1	12/20/2018	2:34:00 PM	BRW-16	EAC	TV	OFU	29	33,103

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00492246-1	12/20/2018	2:34:07 PM	BRW-16	EAC	TV	OFU	7	8,057
P00489970-1	12/20/2018	2:35:26 PM	CUS-16	EAA	TV	OCO	110	147,569
P00493531-1	12/20/2018	2:43:22 PM	GBK-13	EAD	TV	OCO	223	1,052,999
P00490040-1	12/20/2018	2:44:19 PM	GRV-16	ECA	OD	OTF	3	139
P00488585-1	12/20/2018	2:44:23 PM	HEM-13	ECA	TV	OCR	881	299,217
P00488440-1	12/20/2018	2:44:58 PM	GBK-15	EAD	TV	OCO	1,510	1,824,033
P00490081-1	12/20/2018	2:52:47 PM	FRA-12	ECD	TV	OCO	28	19,897
P00492175-1	12/20/2018	2:52:56 PM	GBK-15	EAD	TV	OCO	103	328,813
P00491543-1	12/20/2018	2:53:18 PM	RAI-11	ECC	OD	OTF	4	4,402
P00490112-1	12/20/2018	2:59:03 PM	BCH-16	EAA	TV	OCO	777	228,769
P00490116-1	12/20/2018	3:00:45 PM	YEL-25	ECC	TV	OFU	1	1,328
P00490135-1	12/20/2018	3:05:45 PM	CAM-17	EBJ	TV	OCO	-	109
P00491064-1	12/20/2018	3:08:52 PM	BLA-13	EAA	TV	OCO	75	190,360
P00487435-1	12/20/2018	3:12:33 PM	BLU-16	ECC	TV	OCO	106	44,046
P00490181-1	12/20/2018	3:16:30 PM	NLM-12	EAC	TV	OCO	10	33,049
P00490186-1	12/20/2018	3:17:45 PM	SHE-26	ECE	TV	OCO	12	3,822
P00490228-1	12/20/2018	3:25:34 PM	LMC-25	EBE	EF	USV	1	1,246
P00493472-1	12/20/2018	3:26:21 PM	GBK-13	EAD	TV	OCO	16	70,490
P00490251-1	12/20/2018	3:32:26 PM	FAL-16	EBF	TV	OCO	20	3,941
P00490259-1	12/20/2018	3:33:29 PM	SCH-16	EAA	TV	OCO	16	52,106
P00490265-1	12/20/2018	3:34:36 PM	SIL-15	ECE	TV	OCO	134	200,787
P00490267-1	12/20/2018	3:35:10 PM	BLA-13	EAA	TV	OCO	17	48,035
P00490271-1	12/20/2018	3:35:57 PM	OVE-15	EBE	TV	OCO	3	858
P00491553-1	12/20/2018	3:39:38 PM	FLD-15	EAD	TV	OCO	21	63,756
P00491603-1	12/20/2018	3:39:44 PM	BCH-13	EAA	TV	OCO	-	125,349
P00490291-1	12/20/2018	3:41:17 PM	LLT-17	EBD	TV	OCO	2	2,051
P00490282-1	12/20/2018	3:42:08 PM	BCH-13	EAA	TV	OCO	230	200,025
P00490294-1	12/20/2018	3:43:12 PM	UHL-25	EBD	TV	OCO	3	817
P00490304-1	12/20/2018	3:46:14 PM	UHL-25	EBD	TV	USV	1	72
P00490662-1	12/20/2018	3:46:57 PM	UHL-25	EBD	TV	OCO	134	9,635
P00490309-1	12/20/2018	3:47:22 PM	SIL-15	ECE	TV	OCO	74	112,294
P00490324-1	12/20/2018	3:48:19 PM	CAP-13	ECC	TV	OTF	2	2,952
P00491637-1	12/20/2018	3:48:21 PM	SIL-15	ECE	TV	OCO	16	25,629
P00490321-1	12/20/2018	3:48:46 PM	NRU-26	EBE	TV	OTF	12	9,783
P00490328-1	12/20/2018	3:49:57 PM	WOO-26	ECA	TV	OCO	41	11,621
P00490330-1	12/20/2018	3:50:40 PM	HAR-23	EBJ	EF	OTR	1	1,192
P00490332-1	12/20/2018	3:51:29 PM	SIL-13	ECE	TV	OCO	5	5,662
P00490339-1	12/20/2018	3:55:19 PM	SIL-15	ECE	TV	OCO	74	109,127
P00488993-1	12/20/2018	3:59:02 PM	CAM-17	EBJ	OD	OCO	12	4,428
P00490392-1	12/20/2018	4:06:21 PM	BTN-38	EAC	TV	OFU	9	26,815
P00490415-1	12/20/2018	4:10:38 PM	BLA-13	EAA	TV	OCO	21	55,881
P00490419-1	12/20/2018	4:12:03 PM	TAN-15	ECC	TV	OCO	189	110,478

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00490850-1	12/20/2018	4:12:21 PM	DUV-15	EBD	TV	OCO	8	5,938
P00490430-1	12/20/2018	4:14:14 PM	SIL-15	ECE	TV	OCO	3	8,265
P00490457-1	12/20/2018	4:18:54 PM	CHI-15	ECD	UN	OCO	2	2,867
P00491624-1	12/20/2018	4:19:00 PM	MTV-17	EAC	TV	OSV	7	3,972
P00490463-1	12/20/2018	4:20:04 PM	BRE-24	ECD	UN	OSV	2	6,986
P00490487-1	12/20/2018	4:23:18 PM	HOB-17	EBI	TV	OTF	-	1,045
P00490488-1	12/20/2018	4:23:48 PM	ZEN-23	EBJ	TV	OCO	45	11,450
P00490496-1	12/20/2018	4:25:53 PM	SCH-16	EAA	TV	OCO	27	40,141
P00490502-1	12/20/2018	4:27:01 PM	LLT-16	EBD	TV	OSV	4	2,598
P00494323-1	12/20/2018	4:27:15 PM	KEN-12	EAA	TV	OCO	5	23,440
P00490515-1	12/20/2018	4:28:53 PM	SCH-16	EAA	TV	OCO	66	112,548
P00490529-1	12/20/2018	4:31:00 PM	SUM-21	EAC	TV	OCO	8	23,434
P00490536-1	12/20/2018	4:32:27 PM	LUH-14	ECC	TV	OCO	45	27,371
P00489823-1	12/20/2018	4:33:21 PM	NNO-12	EBJ	TV	OSV	1	49
P00490723-1	12/20/2018	4:33:34 PM	WOB-23	EAA	TV	SCB	1,147	166,262
P00490548-1	12/20/2018	4:34:00 PM	FCH-24	ECA	TV	OCO	23	8,234
P00490553-1	12/20/2018	4:34:29 PM	CUS-13	EAA	TV	OSV	1	1,884
P00490559-1	12/20/2018	4:35:46 PM	HAN-15	EAA	TV	OTF	1	4,264
P00490588-1	12/20/2018	4:40:49 PM	BKB-13	EAC	TV	OTR	3	11,801
P00491904-1	12/20/2018	4:41:24 PM	POU-16	ECE	TV	OCO	81	193,260
P00490595-1	12/20/2018	4:41:56 PM	GAG-13	EAC	TV	OCO	1	580
P00490070-1	12/20/2018	4:43:56 PM	BHL-13	ECE	TV	OCO	21	19,550
P00490605-1	12/20/2018	4:44:35 PM	FRG-23	ECC	TV	OCO	3	4,262
P00490607-1	12/20/2018	4:44:53 PM	KEN-12	EAA	TV	OCO	8	27,517
P00489642-2	12/20/2018	4:45:02 PM	KIN-24	ECE	TV	OCO	-	260,729
P00492832-1	12/20/2018	4:48:28 PM	MIL-23	ECE	TV	OCO	391	620,985
P00490641-1	12/20/2018	4:50:56 PM	SIL-16	ECE	TV	OCO	2	5,299
P00490665-1	12/20/2018	4:52:36 PM	HAN-15	EAA	TV	OTR	3	9,586
P00490684-1	12/20/2018	4:53:37 PM	SIL-16	ECE	TV	OCO	24	32,854
P00491665-1	12/20/2018	4:54:01 PM	GBK-15	EAD	TV	OPO	5	22,077
P00490692-1	12/20/2018	4:54:40 PM	SCH-12	EAA	TV	OTF	-	2,838
P00490700-1	12/20/2018	4:55:52 PM	SCH-15	EAA	TV	OCO	52	85,799
P00490703-1	12/20/2018	4:56:04 PM	LUH-17	ECC	TV	PTF	2	2,524
P00490707-1	12/20/2018	4:56:41 PM	GRI-13	ECC	TV	OCO	2	1,113
P00490708-1	12/20/2018	4:57:03 PM	SKE-22	ECE	TV	OCO	6	10,074
P00491109-1	12/20/2018	4:57:14 PM	MCA-13	ECC	EF	OFU	7	9,939
P00490728-1	12/20/2018	5:03:31 PM	BAK-25	EAA	UN	UTC	3	7,541
P00490735-1	12/20/2018	5:04:59 PM	SCH-15	EAA	TV	OCO	11	16,851
P00493004-1	12/20/2018	5:06:37 PM	HKX-16	EAC	TV	OCO	1	2,615
P00492727-1	12/20/2018	5:08:49 PM	BCH-13	EAA	TV	OCO	21	52,173
P00490764-1	12/20/2018	5:11:01 PM	HWD-25	EBD	TV	OCO	3	3,332
P00487389-1	12/20/2018	5:11:56 PM	TLN-0089	ECE	TV	OCO	2,578	(1)

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00490782-1	12/20/2018	5:16:40 PM	MIR-15	EBF	TV	OTF	6	2,371
P00490787-1	12/20/2018	5:18:36 PM	OSC-23	EBI	TV	OCO	18	7,295
P00490795-1	12/20/2018	5:21:09 PM	RIT-18	EAC	TV	OTF	2	4,922
P00490799-1	12/20/2018	5:21:39 PM	RIT-18	EAC	TV	OCO	3	6,088
P00490807-1	12/20/2018	5:23:53 PM	LAB-27	EAA	OD	UTC	52	77,980
P00489134-1	12/20/2018	5:24:12 PM	BRI-17	EAA	TV	OFC	5	20,369
P00490812-1	12/20/2018	5:25:02 PM	SLA-15	EAA	UN	OTF	9	28,526
P00490821-1	12/20/2018	5:27:08 PM	LWS-16	EBJ	TV	OCO	734	144,549
P00490818-1	12/20/2018	5:27:21 PM	HWD-26	EBD	OD	OCO	1	1,140
P00490838-1	12/20/2018	5:32:07 PM	CHR-23	ECE	TV	OCO	23	30,666
P00491366-1	12/20/2018	5:33:29 PM	SCH-16	EAA	TV	OCO	29	40,458
P00491768-1	12/20/2018	5:38:35 PM	CHR-22	ECE	TV	OCO	37	90,579
P00490878-1	12/20/2018	5:42:45 PM	MWD-15	EBE	TV	OFU	120	15,316
P00490879-1	12/20/2018	5:43:07 PM	WOB-23	EAA	TV	OCO	17	9,970
P00491146-1	12/20/2018	5:48:16 PM	CHR-22	ECE	TV	OCO	92	53,348
P00490932-1	12/20/2018	5:55:20 PM	KIN-23	ECE	TV	OCO	46	112,571
P00490927-1	12/20/2018	5:55:35 PM	POU-13	ECE	TV	OCO	15	18,830
P00490940-1	12/20/2018	6:00:36 PM	PMA-12	ECE	TV	OCO	8	3,760
P00490946-1	12/20/2018	6:02:19 PM	HKX-13	EAC	EF	OTF	-	3,053
P00490951-1	12/20/2018	6:03:17 PM	PEA-15	EBJ	UN	OCO	34	16,774
P00492272-1	12/20/2018	6:05:11 PM	KIN-21	ECE	TV	OCO	12	34,237
P00490975-1	12/20/2018	6:08:58 PM	LOL-25	ECD	TV	OCO	29	5,798
P00490986-1	12/20/2018	6:12:26 PM	CHR-23	ECE	TV	OCO	1	2,920
P00491003-1	12/20/2018	6:20:44 PM	WLS-15	EAC	TV	OCO	108	70,067
P00491021-1	12/20/2018	6:22:04 PM	MIL-16	ECE	TV	OFC	1	1,269
P00488511-1	12/20/2018	6:22:46 PM	PET-12	EAC	TV	OPO	918	680,657
P00491044-1	12/20/2018	6:27:37 PM	MAN-16	ECD	TV	OSV	1	466
P00491045-1	12/20/2018	6:27:56 PM	SOM-17	EBE	TV	OCO	23	5,298
P00491056-1	12/20/2018	6:30:38 PM	HAN-16	EAA	TV	OTF	1	3,314
P00491062-1	12/20/2018	6:32:53 PM	LAB-27	EAA	EF	OPO	5	16,513
P00485807-1	12/20/2018	6:33:49 PM	GBK-13	EAD	TV	OPO	14	59,884
P00488993-2	12/20/2018	6:50:22 PM	CAM-17	EBJ	OD	OTR	-	634
P00491110-1	12/20/2018	6:59:18 PM	PET-13	EAC	TV	OCO	7	1,995
P00491501-1	12/20/2018	7:00:37 PM	PMA-12	ECE	TV	OCO	24	60,563
P00491134-1	12/20/2018	7:08:55 PM	PMA-12	ECE	TV	OCO	199	201,169
P00491143-1	12/20/2018	7:12:24 PM	BKB-13	EAC	TV	OSV	3	16,676
P00489240-1	12/20/2018	7:18:41 PM	ING-15	EBD	TV	OCO	15	665
P00491155-1	12/20/2018	7:19:02 PM	PMA-12	ECE	TV	OCO	54	55,248
P00491159-1	12/20/2018	7:20:21 PM	SEQ-13	EBJ	TV	OCO	86	27,648
P00491161-1	12/20/2018	7:21:12 PM	BHL-15	ECE	TV	OCO	4	5,189
P00491163-1	12/20/2018	7:21:31 PM	SEQ-13	EBJ	TV	OCO	1	515
P00491164-1	12/20/2018	7:21:39 PM	WOB-23	EAA	TV	OCO	4	17,256

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00491170-1	12/20/2018	7:23:25 PM	CEK-14	ECE	TV	OPO	4	12,203
P00491171-1	12/20/2018	7:23:41 PM	POU-15	ECE	TV	OCO	746	45,593
P00491180-1	12/20/2018	7:25:45 PM	BHL-12	ECE	TV	OCO	1	1,512
P00491456-1	12/20/2018	7:26:27 PM	PMA-12	ECE	TV	OCO	2	4,686
P00490349-2	12/20/2018	7:27:37 PM	COT-13	EBD	TV	OCO	-	221
P00491218-1	12/20/2018	7:39:22 PM	BIG-15	EAC	TV	OCO	4	7,512
P00489003-1	12/20/2018	7:39:52 PM	NBE-13	EBF	TV	OCO	1	409
P00490112-1	12/20/2018	7:56:06 PM	BCH-16	EAA	TV	OCO	777	62,354
P00490623-1	12/20/2018	7:56:58 PM	BRE-21	ECD	TV	OCO	19	173
P00491272-1	12/20/2018	7:57:02 PM	PMA-12	ECE	TV	OCO	36	102,258
P00491298-1	12/20/2018	8:07:25 PM	POU-15	ECE	TV	OTF	2	2,743
P00491583-1	12/20/2018	8:12:44 PM	LLT-16	EBD	TV	OPO	9	9,714
P00491090-1	12/20/2018	8:14:47 PM	HOB-17	EBI	TV	OCO	-	584
P00491317-1	12/20/2018	8:15:18 PM	DUV-12	EBD	TV	OCN	2	281
P00491318-1	12/20/2018	8:16:03 PM	GAG-13	EAC	TV	OCO	11	3,121
P00491320-1	12/20/2018	8:17:05 PM	SCH-13	EAA	UN	OTF	1	2,644
P00491325-1	12/20/2018	8:19:46 PM	WOB-27	EAA	EF	OTR	9	3,782
P00491326-1	12/20/2018	8:20:11 PM	ING-15	EBD	UN	OCO	15	2,751
P00491327-1	12/20/2018	8:20:39 PM	WOB-27	EAA	TV	OCO	77	105,558
P00491348-1	12/20/2018	8:26:29 PM	MCW-16	ECE	TV	OSV	1	418
P00492208-1	12/20/2018	8:32:31 PM	WOB-27	EAA	TV	OFU	2	6,007
P00491394-1	12/20/2018	8:44:49 PM	LLS-17	EAA	TV	SCB	2,693	1,899,316
P00491391-1	12/20/2018	8:45:56 PM	PMA-15	ECE	TV	OCO	16	42,872
P00491405-1	12/20/2018	8:50:35 PM	ROE-17	EAA	TV	OCO	20	45,974
P00491410-1	12/20/2018	8:52:27 PM	PET-13	EAC	TV	OCO	1	413
P00491426-1	12/20/2018	9:02:58 PM	SOO-25	EBI	TV	OCO	20	1,318
P00491710-1	12/20/2018	9:04:24 PM	BTN-36	EAC	TV	OIN	31	79,632
P00491443-1	12/20/2018	9:06:18 PM	BAK-25	EAA	TV	OCO	2	6,097
P00491459-1	12/20/2018	9:14:27 PM	POU-15	ECE	TV	OCO	19	21,959
P00492506-1	12/20/2018	9:15:04 PM	GBK-13	EAD	TV	OCO	5	27,838
P00491466-1	12/20/2018	9:17:28 PM	COT-15	EBD	TV	OSV	3	1,841
P00491472-1	12/20/2018	9:19:33 PM	WOL-23	ECC	TV	OAR	40	3,342
P00491474-1	12/20/2018	9:22:58 PM	PMA-15	ECE	TV	OCR	4	10,150
P00491479-1	12/20/2018	9:25:16 PM	MTV-16	EAC	EF	UPC	43	109,689
P00491483-1	12/20/2018	9:27:17 PM	BCH-16	EAA	UN	OFU	25	25,762
P00491491-1	12/20/2018	9:31:33 PM	MUR-13	ECE	TV	OCN	5	3,928
P00489735-1	12/20/2018	9:33:25 PM	DEC-15	ECC	EF	OFC	63	14,005
P00489735-4	12/20/2018	9:33:25 PM	DEC-15	ECC	TV	OCO	63	14,005
P00491494-1	12/20/2018	9:33:46 PM	MUR-15	ECE	TV	OCO	70	16,265
P00491511-1	12/20/2018	9:37:11 PM	BIG-15	EAC	TV	OTF	-	1,975
P00491549-1	12/20/2018	9:52:57 PM	MKI-17	ECC	TV	OPO	1	656
P00491552-1	12/20/2018	9:55:28 PM	CHR-22	ECE	TV	OTF	1	2,704


NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00488623-2	12/20/2018	10:08:48 PM	PIN-26	EBF	TV	OCO	5	234
P00491563-1	12/20/2018	10:08:54 PM	SKE-23	ECE	TV	OCO	5	18,115
P00491567-1	12/20/2018	10:12:53 PM	SOU-26	EBJ	SO	UEL	7	1,958
P00487988-1	12/20/2018	10:15:37 PM	EDG-12	ECA	TV	OCO	64	18,900
P00490270-2	12/20/2018	10:15:45 PM	COT-13	EBD	TV	OCO	26	11,918
P00491575-1	12/20/2018	10:16:27 PM	VWY-13	EAA	TV	OCO	50	45,237
P00491667-1	12/20/2018	10:25:30 PM	LWS-15	EBJ	OD	UOT	3	906
P00491587-1	12/20/2018	10:26:39 PM	CAS-16	EBH	OD	OSV	4	1,712
P00491589-1	12/20/2018	10:31:07 PM	CEK-15	ECE	UN	OCO	28	23,500
P00491591-1	12/20/2018	10:33:46 PM	MIL-22	ECE	TV	OCO	17	45,083
P00491602-1	12/20/2018	10:49:28 PM	MVW-15	EBJ	UN	USV	1	376
P00491614-1	12/20/2018	10:51:33 PM	PGA-13	ECE	TV	OCO	253	165,090
P00491605-1	12/20/2018	10:52:00 PM	ETN-15	EBH	OD	OCO	31	9,595
P00492064-1	12/20/2018	11:07:47 PM	VWY-13	EAA	TV	OFU	108	85,937
P00490070-2	12/20/2018	11:13:45 PM	BHL-13	ECE	TV	OCO	-	567
P00491630-1	12/20/2018	11:25:19 PM	NLM-13	EAC	TV	OCO	11	29,271
P00491635-1	12/20/2018	11:31:04 PM	PMA-15	ECE	TV	OSV	6	14,587
P00491636-1	12/20/2018	11:32:26 PM	BTN-36	EAC	TV	OCO	4	2,072
P00491638-1	12/20/2018	11:33:37 PM	SUM-21	EAC	TV	OCO	42	118,632
P00491644-1	12/20/2018	11:42:08 PM	WOL-25	ECC	TV	OCO	2	1,150
P00491648-1	12/20/2018	11:46:53 PM	HOB-16	EBI	TV	OCO	151	10,218
P00491650-1	12/20/2018	11:54:54 PM	WIN-12	ECE	TV	OCO	34	17,513
P00491651-1	12/20/2018	11:55:25 PM	BHL-13	ECE	TV	OCO	23	18,289
P00491927-1	12/20/2018	11:59:05 PM	WIN-12	ECE	TV	OCO	13	5,361
P00491695-1	12/20/2018	11:59:56 PM	WIN-12	ECE	TV	OCO	43	14,713

Terms, Codes and Definitions Used on Detail Reports

Notification (NUMBER)	A number assigned by SAP, identifying the outage record	
Date (DATE)	The date of the outage	
Time (TIME)	The time of the outage	
Circuit (CKT)	The circuit identifier for the affected circuit	
Area (MPG)	Maintenance Planner Group A code representing the energy, region and service center	
	EAA – Bellingham	EBJ – South King
	EAC – Skagit	EBL – Vashon
	EAD – Whidbey	ECA – Puyallup
	EBD – Redmond	ECC – Olympia
	EBE – Factoria	ECD – Port Orchard
	EBF – Snoqualmie	ECE – Poulsbo
	EBI – Enumclaw	
Cause (CAZ)	Cause of Outage	
	AO – Accident Other	EF – Equipment Failure
	BA – Bird or Animal	EO – Electrical Overload
	CP – Car Pole	FI – Faulty Installation
	CR – Customer Request	TF – Tree Off Right-of-Way
	DU – Dig-up Underground	TO – Tree On Right-of-Way
	TV – Trees/Vegetation	SO – Scheduled Outage
	UN – Unknown	
Equipment (EQT)	Affected by, or involved in the outage	
	OCN – Connector	OSW – Overhead Switch
	OCO – Overhead Conductor	OTF – Overhead Transformer Fuse
	OCR – Crossarm	OTR – Overhead Transformer
	OFC – Overhead Cut-out	OUP – OH to UG Primary
	OFS – Overhead Fire Signal	OUS – OH to UG Secondary Service
	OFU – Fuse Link/OH Line Fuse	SBF – High-side Bank Fuse
	OGS – Span Guy	SCB – Power Circuit Breaker
	OHR – Overhead Recloser	UOT – Underground Outdoor Term
	OIN – Insulator	UPC – Underground Primary Cable
	OJU- Jump Wire	UPT – Padmount Transformer
	OPI – Overhead Pin Insulator	USV – Underground Service
	OPO – Pole	UTC – Underground Terminal Fuse
	OSV – Overhead Service	UTR – Submersible Transformer
	ORE – Regulator	
CUST OUT (CUST.OUT)	Customer Out , The number of customers without power for any given outage record	
CUST MIN (CUST. MIN)	Customer Minutes , The total number of minutes customers were without power for any given record	

Media & Communication Coverage

The Dec. 20th wind event began with a High Wind Watch throughout the PSE service territory. The winds of 12/19 began the start of a series of wind front to hit the area throughout the week and into the weekend of the 22nd. This series of wind events caused outages upon outages throughout the week.



High Wind Watch

Valid until Tonight through Thursday Afternoon

12/19 NWS Report

Location

- Northern interior, and Puget Sound lowlands from Tacoma area north
- Coastline


Impacts

- Snapped tree branches and downed trees along with local power outages

Forecast

- South to southeast winds 25 to 40 mph with gusts up to 60 mph
- Winds will increase rapidly early Thursday and continue through the evening

NWS SEATTLE




Issued: December 19, 2018

High Wind Event

Timing: This morning through this evening

12/20 NWS Report

Issued: December 20, 2018 at 5:00am PST



Timeline

Before Sunrise	●	Winds strengthen along coast
This Morning	●	Winds strengthen within interior
Late Morning	●	Strongest winds along the coast
This Afternoon	●	Strongest winds across the interior and Puget Sound
Late Afternoon	●	Winds diminish along the coast
This Evening	●	Winds diminish across the interior

- 1

Coastline High Wind Warning

High Wind Warning until 1PM PST today. Southerly wind 30-45 mph gusts up to 65 mph. Strongest winds will be along beaches and near shoreline of Orays Harbor
- 2

Interior Lowlands High Wind Warning

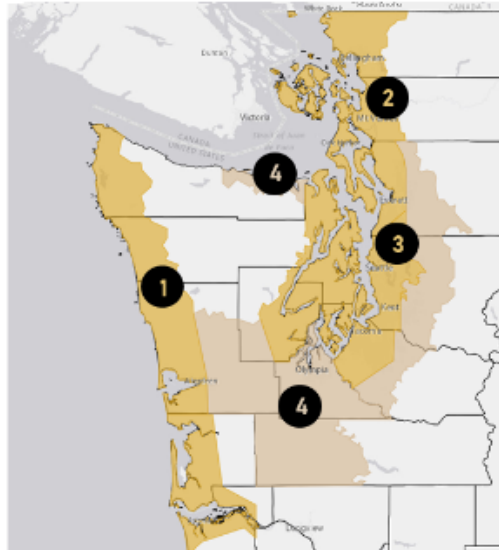
High Wind Warning from 7 AM to 7PM PST today. Southerly wind 25-40 mph gusts up to 60 mph. Locations affected include: Bellingham, Friday Harbor
- 3

Interior Lowlands High Wind Warning

High Wind Warning from 10 AM to 7PM PST today. Southerly wind 25-40 mph gusts up to 60 mph. Locations affected include: Seattle, Bellevue, Tacoma
- 4

Interior Lowlands Wind Advisory

Wind Advisory from 10 am to 7 pm. Winds 20-35 mph gusts up to 55 mph. Locations affected include: Olympia, Lacey, Port Angeles, Sequim





Weather Through Christmas

National Weather Service - Seattle
 Issued: 4:35 AM PT Saturday, December 22nd, 2018
 Next Update: Tomorrow by 7 AM
 Point of Contact: NWS Operations (24/7) - 206-526-6095

12/22 NWS Report

Minor Impacts Possible	This includes common events that could have minor impacts on commerce. Precautions advised to protect lives and property.
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CHANGES SINCE PREVIOUS BRIEFING

None.

WEATHER IMPACTS

County A / County B...	
HIGH Confidence	<ul style="list-style-type: none"> Skokomish River fell below flood stage but will likely rise above flood stage late Saturday night or Sunday morning. Occasional hazardous travel conditions in the Cascades due to slick, snow covered roads.
MODERATE Confidence	<ul style="list-style-type: none"> Breezy to windy conditions Saturday night and Sunday. Minor tidal overflow may cause a little flooding for low-lying areas along shorelines Saturday to Monday. Overnight low temperatures 35-40.

FORECAST DETAILS

County A / County B...
<p>Saturday A few showers, light accumulations of snow in the mountains.</p> <p>Saturday night Weather system moves across the area with widespread rain in the lowlands Snow levels around 1500-2000 feet Saturday rising to 3000-3500 feet Sunday. Accumulations may cause minor travel impacts. Breezy winds Saturday night into Sunday. Gusts 15-25 mph in the lowlands, 30-40 mph along the coast and north interior.</p> <p>Showers taper Monday</p> <p>Tuesday/Christmas Day May be mostly dry though details can change going forward.</p>