

2019 Qualifying Events Report

February 8, 2019 Event

Filed on May 3, 2019



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Event Description

Event Date and Time

Start: 2/08/2019, 18:30

End: 2/15/2019, 23:00

Event Type

Snow, wind, ice

Service Areas Significantly Affected

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

Number of Customers Affected

System wide, approximately 357,536 customers were without power during the course of this event.

Summary of System Impacts

Total Number of Outages for Event	2,268
Transmission Lines Affected	13
Impacted Substations	4

Mobilization Summary

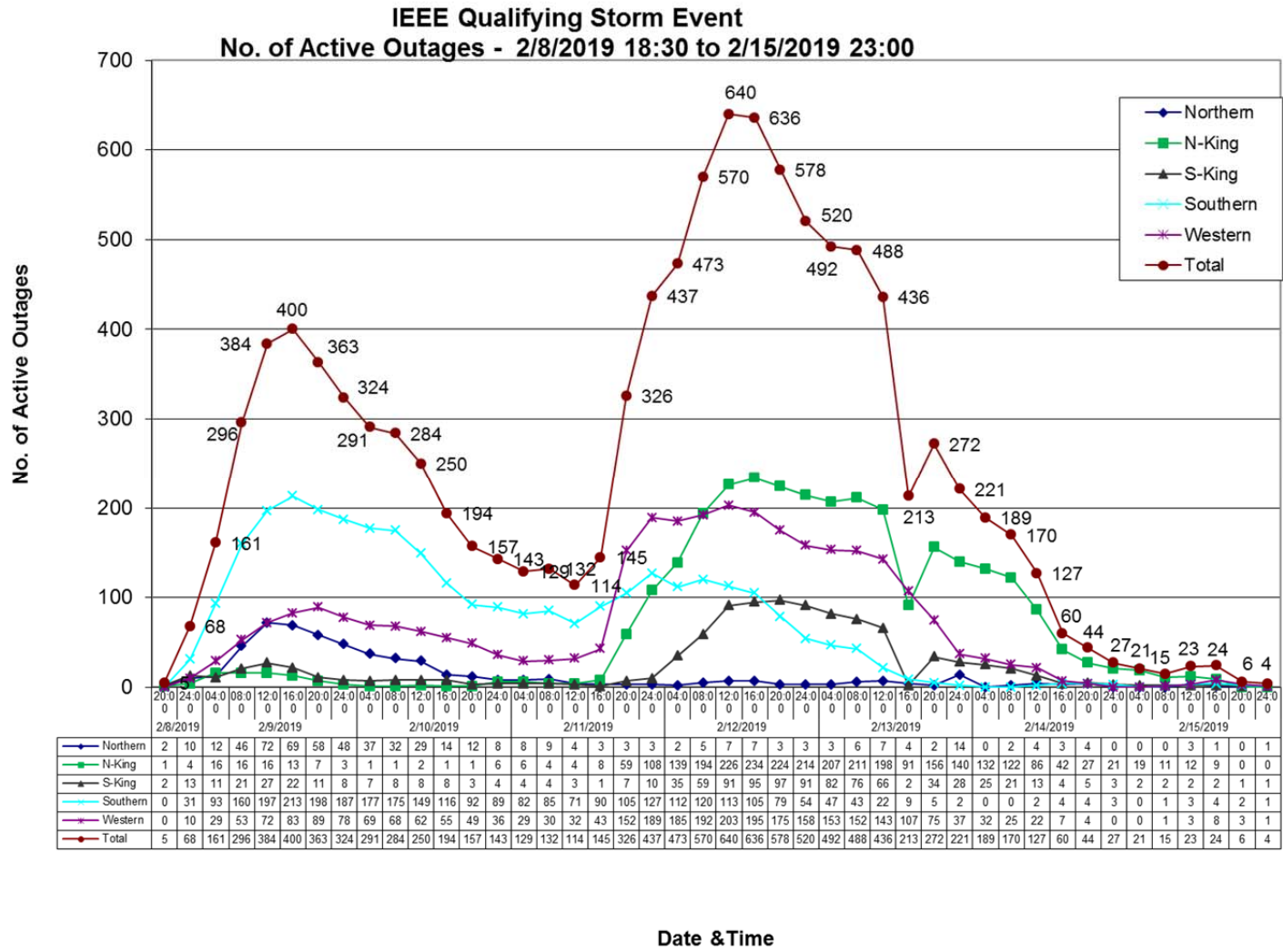
Operating Bases Placed In Emergency Status

Base	Date Opened	Time Opened	Date Closed	Time Closed
Whatcom	2/9/2019	08:00	2/12/2019	22:00
Skagit	2/9/2019	08:00	2/12/2019	22:00
Island	2/9/2019	08:00	2/12/2019	22:00
North King	2/11/2019	19:00	2/15/2019	17:00
South King	2/9/2019	14:00	2/14/2019	14:15
Pierce	2/9/2019	10:00	2/10/2019	03:00
Thurston	2/8/2019	23:10	2/13/2019	21:00
Kitsap	2/9/2019	06:00	2/14/2019	18:00
Vashon Island	2/9/2019	06:00	2/14/2019	18:00
Kittitas	N/A			

Emergency Coordination Center (ECC)

	Date Opened	Time Opened	Date Closed	Time Closed
ECC	2/9/2019	20:30	2/14/2019	14:00

Active Outage Events



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 $\text{SAIDI} > T_{MED}$ is a major event day

Puget Sound Energy's IEEE Major Event Threshold (T_{MED}) for 2019: 6.91 Minutes

Qualified Events - 2019 Current Event – Calculation Detail

Event Date, Time Range	Total Outages	Total Customer Minutes	Average Customer Count	Event SAIDI (Customer Minutes /Customer Count)
2/8/2019, 18:30 – 2/15/2019, 23:00	2,268	199,379,469	1,157,185	172.30

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
1/6/2019	237.09	\$16,982,457
2/4/2019	7.56	\$445,720
2/9/2019	61.23	\$20,662,389

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
2019 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
1/6/2019	\$5,764,748 (r)	\$1,177,144 (r)	\$0	\$10,000,000	\$15,764,748 (r)	\$16,941,892 (r)
2/4/2019	\$0	\$53,569	\$445,720	\$0	\$445,720	\$499,288
2/8/2019	\$20,662,389	\$662,590	\$0	\$0	\$20,662,389	\$21,324,979

2019 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
\$26,427,137	\$1,893,303	\$445,720	\$10,000,000	\$36,872,857	\$38,766,160

(r) Revised since last report

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

February 8, 2019- Qualifying Storm Damage Repair Costs						
	Qualifying Events		O&M -			Total
	Deferred Account	Capital	O&M - Not Deferrable	Deferrable Accumulation	Total O&M	
Labor						
ST	\$ -	\$ 6,486	\$ -	\$ 247,382	\$ 247,382	\$ 253,868
OT	\$ -	\$ 41,667	\$ -	\$ 2,241,398	\$ 2,241,398	\$ 2,283,064
Total Labor	\$ -	\$ 48,152	\$ -	\$ 2,488,779	\$ 2,488,779	\$ 2,536,932
Labor OH	\$ -	\$ 93,546	\$ -	\$ -	\$ -	\$ 93,546
Materials	\$ -	\$ 210,241	\$ -	\$ 371,220	\$ 371,220	\$ 581,461
Contractors	\$ -	\$ 284,343	\$ -	\$ 16,280,045	\$ 16,280,045	\$ 16,564,388
Other Direct Charges	\$ -	\$ 374	\$ -	\$ 219,497	\$ 219,497	\$ 219,871
Fleet	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Assessments	\$ -	\$ 25,933	\$ -	\$ 1,302,848	\$ 1,302,848	\$ 1,328,781
Deferred Expenses	\$ 20,662,389	\$ -	\$ -	\$ (20,662,389)	\$ -	\$ -
	\$ 20,662,389	\$ 662,590	\$ -	\$ -	\$ 20,662,389	\$ 21,324,979

Detailed List of Outages First TMED-Exceeding Day

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00516572-1	2/9/2019	12:00:01 AM	BUC-16	ECA	TV	OCO	160	20,627
P00514258-1	2/9/2019	12:03:28 AM	OSC-26	EBI	UN	OCO	46	3,890
P00514268-1	2/9/2019	12:09:39 AM	BAR-17	ECC	TV	OCO	418	469,833
P00515094-1	2/9/2019	12:14:04 AM	ORT-26	ECA	TV	OCO	7	7,537
P00514278-1	2/9/2019	12:14:08 AM	HOL-12	ECA	TV	OSV	1	983
P00514281-1	2/9/2019	12:16:36 AM	TAN-15	ECC	TV	OSV	1	3,795
P00514285-1	2/9/2019	12:21:32 AM	FNW-13	ECD	TV	OCO	717	94,262
P00514286-1	2/9/2019	12:23:04 AM	MKI-14	ECC	TV	OCO	12	22,853
P00514717-1	2/9/2019	12:24:34 AM	SHA-15	ECA	TV	OCO	694	708,204
P00514290-1	2/9/2019	12:25:49 AM	BHS-14	EAA	TV	OTF	2	118
P00514291-1	2/9/2019	12:30:52 AM	BAR-17	ECC	TV	OTF	3	1,985
P00515177-1	2/9/2019	12:31:38 AM	AIR-22	ECC	TV	OCO	49	134,997
P00514294-1	2/9/2019	12:32:03 AM	LAU-12	EAA	UN	UTC	-	1,583
P00514293-1	2/9/2019	12:32:06 AM	LAU-12	EAA	TV	OTF	-	594
P00514296-1	2/9/2019	12:34:10 AM	MOT-14	ECC	TV	OCO	1	2,193
P00514312-1	2/9/2019	12:43:47 AM	BAR-15	ECC	TV	OSV	1	9
P00514307-1	2/9/2019	12:44:18 AM	TAN-13	ECC	TV	OSV	1	9
P00514308-1	2/9/2019	12:44:34 AM	ENU-18	EBI	UN	OCO	120	13,094
P00514313-1	2/9/2019	12:49:20 AM	LAU-12	EAA	TV	OCO	604	123,139
P00514316-1	2/9/2019	12:53:00 AM	TAN-13	ECC	TV	OFU	41	195,694
P00514323-1	2/9/2019	12:53:30 AM	WCA-16	EBJ	TV	OCO	1,757	228,791
P00514319-1	2/9/2019	12:53:37 AM	PAT-15	ECC	TV	OFU	41	52,622
P00514328-1	2/9/2019	12:56:50 AM	LUH-17	ECC	TV	OCO	628	138,715
P00514185-1	2/9/2019	1:00:29 AM	AIR-23	ECC	TV	OPO	321	228,541
P00514317-1	2/9/2019	1:01:47 AM	LGY-16	EAD	TV	OCO	768	329,452
P00514332-1	2/9/2019	1:03:23 AM	HEM-13	ECA	TV	OCO	8	3,795
P00514086-1	2/9/2019	1:04:55 AM	WIS-16	EBF	LI	OPO	18	10,009
P00514336-1	2/9/2019	1:06:15 AM	SWI-17	ECC	TV	OCO	81	88,198
P00513831-2	2/9/2019	1:11:52 AM	SHD-18	EBI	EF	OCO	376	51,406
P00514345-1	2/9/2019	1:11:57 AM	LYN-16	EAA	TV	SCB	40	3,896
P00514418-1	2/9/2019	1:16:00 AM	TLN-0101	EBE	TV	OCO	-	344,731
P00514356-1	2/9/2019	1:18:47 AM	MVW-15	EBJ	TV	OCO	37	12,772
P00514432-1	2/9/2019	1:33:28 AM	AIR-22	ECC	EF	OTF	3	551
P00514435-1	2/9/2019	1:34:16 AM	BAR-13	ECC	TV	OSV	87	247,646
P00516567-1	2/9/2019	1:34:53 AM	PAT-15	ECC	TV	OCO	5	24,078
P00514438-1	2/9/2019	1:36:01 AM	FRA-13	ECD	TV	OCO	61	34,844
P00514444-1	2/9/2019	1:41:39 AM	VAS-22	EBL	TV	OCO	211	132,291
P00514443-1	2/9/2019	1:41:41 AM	DGR-13	ECA	TV	OFU	72	14,354
P00514445-1	2/9/2019	1:42:01 AM	FRA-12	ECD	TV	OCO	43	92,878
P00514447-1	2/9/2019	1:42:59 AM	UHL-25	EBD	TV	OCO	15	1,713
P00514452-1	2/9/2019	1:45:00 AM	BAR-15	ECC	TV	OCO	32	69,521

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00514807-1	2/9/2019	1:52:59 AM	LON-17	ECC	TV	OCO	7	15,442
P00514464-1	2/9/2019	1:53:38 AM	BAR-16	ECC	TV	OCO	11	26,067
P00514473-1	2/9/2019	1:58:11 AM	LAC-15	ECC	TV	OCO	990	400,933
P00514472-1	2/9/2019	1:59:01 AM	DUV-13	EBD	TV	OPO	51	43,965
P00514721-1	2/9/2019	1:59:47 AM	BAR-15	ECC	TV	OCO	93	208,962
P00514477-1	2/9/2019	2:00:00 AM	PAT-15	ECC	TV	OCO	42	93,270
P00514508-1	2/9/2019	2:00:37 AM	LAC-17	ECC	TV	OPO	415	1,020,366
P00514508-3	2/9/2019	2:00:37 AM	LAC-17	ECC	TV	UOT	415	1,020,366
P00514482-1	2/9/2019	2:01:11 AM	VAS-13	EBL	TV	OCO	106	109,055
P00514484-1	2/9/2019	2:02:25 AM	AIR-22	ECC	TV	OFU	58	165,508
P00514512-1	2/9/2019	2:04:19 AM	MOT-14	ECC	TV	OCO	30	15,284
P00514496-1	2/9/2019	2:05:45 AM	TAN-13	ECC	TV	OFU	64	156,231
P00514502-1	2/9/2019	2:07:15 AM	AVO-17	EBD	TV	OCO	5	4,437
P00514504-1	2/9/2019	2:07:48 AM	EDG-12	ECA	TV	OSV	5	6,028
P00514505-1	2/9/2019	2:07:57 AM	FRG-22	ECC	TV	OCO	39	89,950
P00514509-1	2/9/2019	2:09:03 AM	FRA-13	ECD	TV	OCO	11	19,639
P00514516-1	2/9/2019	2:12:25 AM	CHI-12	ECD	TV	OCO	7	3,617
P00514517-1	2/9/2019	2:13:14 AM	KIN-24	ECE	TV	OCO	3	4,987
P00514519-1	2/9/2019	2:13:39 AM	MER-15	EBE	EF	OFU	42	47,208
P00514520-1	2/9/2019	2:13:59 AM	PMA-15	ECE	TV	OCO	191	94,231
P00514521-1	2/9/2019	2:14:02 AM	RAI-11	ECC	TV	OSV	2	4,022
P00514531-1	2/9/2019	2:19:36 AM	BHS-14	EAA	TV	OCO	2	1,281
P00514533-1	2/9/2019	2:20:20 AM	KEN-12	EAA	TV	OTF	9	1,667
P00514540-1	2/9/2019	2:25:43 AM	ELD-27	ECC	TV	OTR	-	143,084
P00514543-1	2/9/2019	2:27:43 AM	FRG-23	ECC	TV	OCO	30	102,188
P00514545-1	2/9/2019	2:28:23 AM	FRG-24	ECC	TV	OCO	2	4,068
P00514546-1	2/9/2019	2:29:47 AM	ELD-26	ECC	TV	OCO	1,495	287,962
P00514547-1	2/9/2019	2:29:53 AM	BDI-13	EBI	TV	OCO	34	17,079
P00514552-1	2/9/2019	2:30:44 AM	ORT-26	ECA	OD	OCO	50	53,802
P00514553-1	2/9/2019	2:31:34 AM	MCA-13	ECC	TV	OCO	6	12,690
P00514555-1	2/9/2019	2:32:13 AM	MOT-14	ECC	TV	OCO	49	85,096
P00514561-1	2/9/2019	2:34:54 AM	AIR-26	ECC	TV	OCO	26	50,020
P00513999-2	2/9/2019	2:35:07 AM	BLU-13	ECC	TV	OCN	6	335
P00514564-1	2/9/2019	2:37:17 AM	FRA-13	ECD	TV	OCO	36	39,851
P00514709-1	2/9/2019	2:39:00 AM	TLN-0098	EBL	TV	OCO	6,005	3,925,628
P00514569-1	2/9/2019	2:40:54 AM	PMA-16	ECE	TV	OCO	276	54,818
P00514573-1	2/9/2019	2:41:14 AM	ENU-16	EBI	TV	OTF	2	1,331
P00517068-1	2/9/2019	2:41:49 AM	JHO-12	ECC	TV	OCO	90	101,103
P00514632-1	2/9/2019	2:45:19 AM	PRI-23	ECC	TV	OCO	16	25,481
P00514673-1	2/9/2019	2:48:21 AM	SPG-13	ECC	TV	OTR	27	144,906
P00514678-1	2/9/2019	2:48:21 AM	STA-26	EBJ	TV	OCO	1,421	468,503
P00514698-1	2/9/2019	2:52:33 AM	PRE-13	EBE	TV	OCO	2	906

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00518641-1	2/9/2019	2:52:42 AM	CAP-13	ECC	TV	OFU	-	28,397
P00516333-1	2/9/2019	2:54:07 AM	FRA-12	ECD	TV	OCO	6	51,520
P00514715-1	2/9/2019	2:55:17 AM	BAR-13	ECC	TV	OCO	1,679	1,031,297
P00514716-1	2/9/2019	2:56:52 AM	GAR-13	ECA	EF	OFU	26	15,492
P00516321-1	2/9/2019	2:58:53 AM	VAS-13	EBL	TV	OCO	9	20,489
P00514731-1	2/9/2019	3:02:47 AM	FRG-23	ECC	TV	OCO	1	3,176
P00517452-1	2/9/2019	3:06:32 AM	PAT-17	ECC	TV	OCO	2	4,858
P00514738-1	2/9/2019	3:07:27 AM	PMA-12	ECE	TV	OCO	68	139,075
P00515040-1	2/9/2019	3:08:01 AM	GAR-13	ECA	EF	OCO	174	14,848
P00514740-1	2/9/2019	3:10:04 AM	PRI-24	ECC	TV	OCO	12	25,556
P00514745-1	2/9/2019	3:12:48 AM	FRA-16	ECD	TV	OCO	948	166,769
P00514746-1	2/9/2019	3:13:09 AM	WCA-17	EBJ	TV	OCO	160	68,219
P00514747-1	2/9/2019	3:13:18 AM	PRI-23	ECC	TV	OSV	-	7,579
P00518145-1	2/9/2019	3:14:05 AM	FRA-12	ECD	TV	OCO	33	68,315
P00515531-1	2/9/2019	3:15:24 AM	FRG-25	ECC	TV	OCO	8	27,108
P00514754-1	2/9/2019	3:15:57 AM	CHI-12	ECD	TV	OCO	67	37,347
P00514757-1	2/9/2019	3:16:09 AM	KNM-27	EBD	TV	OCO	1,144	537,260
P00515130-1	2/9/2019	3:17:43 AM	PMA-13	ECE	TV	OCO	162	369,776
P00514759-1	2/9/2019	3:19:23 AM	WOL-25	ECC	TV	OCO	33	183,972
P00514762-1	2/9/2019	3:20:19 AM	SBE-01	EBE	TV	OCO	-	31,010
P00516612-1	2/9/2019	3:23:54 AM	FRG-23	ECC	TV	OCO	11	28,894
P00514771-1	2/9/2019	3:28:32 AM	MCA-13	ECC	UN	OCO	106	198,520
P00514780-1	2/9/2019	3:28:49 AM	LYO-15	EBJ	TV	OCO	19	7,191
P00514778-1	2/9/2019	3:29:35 AM	PLG-17	ECC	TV	OCO	1,207	737,577
P00514947-1	2/9/2019	3:30:37 AM	MIL-17	ECE	TV	OCO	24	33,105
P00514781-1	2/9/2019	3:31:27 AM	CUS-16	EAA	EF	OIN	5	1,388
P00514418-1	2/9/2019	3:31:30 AM	TLN-0101	EBE	TV	OCO	-	62,176
P00514783-1	2/9/2019	3:32:13 AM	PLG-13	ECC	TV	OCO	47	109,632
P00514793-1	2/9/2019	3:36:51 AM	LAC-17	ECC	TV	OSV	1	3,723
P00514795-1	2/9/2019	3:37:36 AM	TAN-15	ECC	TV	OCO	742	536,021
P00514798-1	2/9/2019	3:37:52 AM	FRG-23	ECC	EF	OCO	144	320,294
P00514951-1	2/9/2019	3:38:24 AM	CHA-16	ECC	TV	OCO	1,150	362,697
P00514814-1	2/9/2019	3:41:59 AM	FRA-12	ECD	TV	OCO	28	32,500
P00514823-1	2/9/2019	3:45:27 AM	MKI-17	ECC	EF	OSV	4	13,131
P00514827-1	2/9/2019	3:46:24 AM	KIN-22	ECE	TV	OCO	14	21,426
P00514828-1	2/9/2019	3:46:30 AM	BAR-17	ECC	TV	OCO	86	68,708
P00514829-1	2/9/2019	3:47:00 AM	LAC-13	ECC	TV	OCO	23	35,636
P00514833-1	2/9/2019	3:48:46 AM	BCH-16	EAA	TV	OCO	19	1,184
P00514834-1	2/9/2019	3:48:54 AM	MIL-23	ECE	TV	OCO	66	56,461
P00514735-1	2/9/2019	3:52:20 AM	PAT-17	ECC	TV	OCO	5	10,978
P00514859-1	2/9/2019	3:53:47 AM	SBE-26	EBE	TV	OCO	2,773	209,584
P00514871-1	2/9/2019	3:56:16 AM	ING-15	EBD	TV	OFU	2	697

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00514880-1	2/9/2019	3:57:13 AM	MKI-15	ECC	TV	OCO	6	25,628
P00514894-1	2/9/2019	4:01:09 AM	OVE-15	EBE	TV	OCO	44	8,209
P00517686-1	2/9/2019	4:01:38 AM	SOO-25	EBI	TV	OCO	11	10,200
P00514901-1	2/9/2019	4:03:08 AM	PLG-13	ECC	TV	OCO	92	193,831
P00517253-1	2/9/2019	4:06:18 AM	PLG-17	ECC	TV	OCO	6	10,947
P00516337-1	2/9/2019	4:06:50 AM	FRA-12	ECD	TV	OCO	37	79,326
P00518485-1	2/9/2019	4:07:53 AM	PLG-13	ECC	TV	OCO	27	55,988
P00514914-1	2/9/2019	4:08:31 AM	CAP-15	ECC	TV	OCO	43	66,197
P00514915-1	2/9/2019	4:08:36 AM	PLG-16	ECC	TV	OCO	123	234,957
P00514917-1	2/9/2019	4:09:09 AM	HAW-11	ECC	EF	UOT	144	122,323
P00514024-1	2/9/2019	4:10:56 AM	BRE-11	ECD	AC	OPO	56	27,574
P00516199-1	2/9/2019	4:11:23 AM	MCW-17	ECE	TV	OTF	5	5,678
P00514924-1	2/9/2019	4:11:59 AM	LOL-21	ECD	TV	OCO	91	13,858
P00514926-1	2/9/2019	4:12:28 AM	SOO-27	EBI	TV	OSV	2	1,756
P00514931-1	2/9/2019	4:15:30 AM	KNM-26	EBD	TV	OSV	3	2,650
P00514939-1	2/9/2019	4:18:34 AM	SCH-13	EAA	UN	OJU	33	5,484
P00515306-1	2/9/2019	4:21:23 AM	PRI-13	ECC	TV	OFU	5	16,305
P00518646-1	2/9/2019	4:24:57 AM	CAP-13	ECC	TV	OFU	-	176,118
P00516292-1	2/9/2019	4:29:52 AM	GRI-13	ECC	TV	OCO	1,191	1,544,726
P00514958-1	2/9/2019	4:31:13 AM	CHA-13	ECC	TV	OCO	41	33,317
P00514966-1	2/9/2019	4:35:36 AM	PLG-13	ECC	TV	OCO	17	30,620
P00514968-1	2/9/2019	4:36:40 AM	KEN-12	EAA	TV	OSV	14	1,209
P00514970-1	2/9/2019	4:38:02 AM	CUS-15	EAA	TV	OCO	-	86,628
P00516861-1	2/9/2019	4:38:11 AM	WIN-15	ECE	TV	SCB	1,393	1,461,373
P00514978-1	2/9/2019	4:41:54 AM	ROE-17	EAA	TV	OCO	59	20,107
P00514982-1	2/9/2019	4:43:22 AM	PLG-13	ECC	TV	OCO	53	83,249
P00514988-1	2/9/2019	4:46:43 AM	FRG-22	ECC	TV	OCR	6	19,350
P00514993-1	2/9/2019	4:49:30 AM	PAT-17	ECC	TV	OCO	234	316,200
P00516034-1	2/9/2019	4:50:12 AM	VAS-23	EBL	TV	OCO	3	10,266
P00514996-1	2/9/2019	4:50:52 AM	PRI-23	ECC	TV	OCO	28	52,402
P00515029-1	2/9/2019	4:52:30 AM	BHS-11	EAA	TV	OCO	106	96,195
P00517079-1	2/9/2019	4:52:30 AM	CUS-15	EAA	TV	OCO	54	37,830
P00515006-1	2/9/2019	4:53:33 AM	SPG-13	ECC	TV	OCO	64	23,232
P00516533-1	2/9/2019	4:54:35 AM	SHD-17	EBI	TV	OCO	15	6,570
P00515032-1	2/9/2019	5:06:39 AM	MUR-16	ECE	TV	OCO	625	95,636
P00515041-1	2/9/2019	5:11:27 AM	FRG-23	ECC	TV	OCO	6	12,896
P00515046-1	2/9/2019	5:14:48 AM	FRG-25	ECC	TV	OCO	91	153,319
P00515047-1	2/9/2019	5:15:46 AM	MAX-13	EAD	TV	OCO	44	20,035
P00515053-1	2/9/2019	5:16:00 AM	TLN-0150	ECC	TV	OCO	1,251	6,859
P00515048-1	2/9/2019	5:16:19 AM	CHA-13	ECC	TV	OCO	157	102,859
P00516608-1	2/9/2019	5:18:52 AM	ELD-01	ECC	TV	SPT	-	2,332,041
P00518528-1	2/9/2019	5:23:13 AM	FRG-25	ECC	TV	OFU	29	52,428

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00518527-1	2/9/2019	5:24:56 AM	FRG-25	ECC	TV	OFU	42	86,145
P00515077-1	2/9/2019	5:26:40 AM	LON-22	ECC	TV	OFU	14	29,552
P00515808-1	2/9/2019	5:28:17 AM	JHO-12	ECC	OD	OCO	379	42,075
P00515086-1	2/9/2019	5:31:26 AM	SME-12	EBE	TV	OCO	5	5,535
P00518305-1	2/9/2019	5:32:32 AM	CAP-13	ECC	TV	OCO	-	6,839
P00515087-1	2/9/2019	5:33:39 AM	ROC-16	ECC	TV	OFU	11	5,358
P00515089-1	2/9/2019	5:36:25 AM	BHS-14	EAA	TV	OCO	5	5,536
P00515092-1	2/9/2019	5:37:05 AM	MWD-16	EBE	TV	OCO	25	2,997
P00515103-1	2/9/2019	5:42:11 AM	FLD-13	EAD	TV	OCO	17	3,191
P00515109-1	2/9/2019	5:44:47 AM	AIR-22	ECC	TV	OSV	1	3,175
P00515111-1	2/9/2019	5:45:20 AM	SLA-16	EAA	TV	OCO	39	76,967
P00517664-1	2/9/2019	5:45:27 AM	GRI-15	ECC	TV	OCO	890	1,470,013
P00515114-1	2/9/2019	5:45:53 AM	DGR-13	ECA	TV	OCO	7	5,048
P00515118-1	2/9/2019	5:47:17 AM	FRG-24	ECC	TV	OCO	74	126,787
P00515119-1	2/9/2019	5:47:27 AM	TOL-17	EBD	TV	OCO	23	18,498
P00515122-1	2/9/2019	5:47:53 AM	SLA-16	EAA	TV	OCO	649	559,770
P00515126-1	2/9/2019	5:48:02 AM	BDI-15	EBI	TV	OCO	172	37,295
P00515163-1	2/9/2019	5:56:44 AM	CHA-13	ECC	TV	OCO	2,354	988,720
P00517072-1	2/9/2019	5:58:24 AM	LAT-14	EBJ	TV	OCO	3	1,943
P00515165-1	2/9/2019	5:58:25 AM	KNM-23	EBD	EF	USV	1	589
P00515170-1	2/9/2019	6:00:21 AM	LYN-14	EAA	EF	OCO	64	19,601
P00515171-1	2/9/2019	6:00:31 AM	PEA-15	EBJ	TV	OCO	15	7,662
P00515176-1	2/9/2019	6:01:05 AM	GBK-13	EAD	OD	OFU	13	3,707
P00518115-1	2/9/2019	6:02:11 AM	AIR-23	ECC	TV	OCO	252	374,493
P00515185-1	2/9/2019	6:04:05 AM	KIN-24	ECE	TV	OCO	705	102,871
P00515190-1	2/9/2019	6:04:51 AM	EDG-16	ECA	TV	OFU	52	22,702
P00515189-1	2/9/2019	6:04:52 AM	RPT-15	ECD	TV	OCO	351	315,356
P00515194-1	2/9/2019	6:05:10 AM	LAB-25	EAA	TV	OPO	559	696,904
P00515210-1	2/9/2019	6:07:22 AM	CHI-12	ECD	TV	OCO	19	14,258
P00515227-1	2/9/2019	6:08:35 AM	NOB-24	EBE	TV	OCO	1,020	57,732
P00517763-1	2/9/2019	6:08:46 AM	GRI-13	ECC	TV	OCO	-	18,075
P00515231-1	2/9/2019	6:09:11 AM	GRI-13	ECC	TV	OCO	658	1,967,430
P00517696-1	2/9/2019	6:09:24 AM	GRI-16	ECC	TV	OCO	21	16,456
P00515226-1	2/9/2019	6:09:57 AM	FRA-16	ECD	TV	OCO	948	120,033
P00515228-1	2/9/2019	6:10:16 AM	VIS-25	EAA	AC	OTR	3	1,172
P00515230-1	2/9/2019	6:10:26 AM	AIR-22	ECC	TV	OCO	41	59,252
P00515232-1	2/9/2019	6:10:44 AM	AIR-22	ECC	TV	OCO	6	11,054
P00515830-1	2/9/2019	6:10:47 AM	BRS-24	EAC	TV	OCO	314	213,190
P00515233-1	2/9/2019	6:10:47 AM	BRS-24	EAC	TV	OCO	-	6,754
P00515241-1	2/9/2019	6:11:26 AM	WOL-23	ECC	UN	OCO	2,313	878,015
P00515236-1	2/9/2019	6:11:52 AM	WIN-13	ECE	TV	OCO	155	183,869
P00515237-1	2/9/2019	6:12:02 AM	FRG-22	ECC	TV	OCO	87	129,060

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00515242-1	2/9/2019	6:12:34 AM	MIL-23	ECE	TV	OCO	51	16,150
P00515270-1	2/9/2019	6:20:31 AM	RPT-15	ECD	TV	OSV	1	884
P00515271-1	2/9/2019	6:20:44 AM	CAP-13	ECC	TV	OTF	6	15,213
P00518228-1	2/9/2019	6:23:02 AM	GRI-13	ECC	TV	OCO	41	71,641
P00515289-1	2/9/2019	6:23:02 AM	STA-16	EBJ	TV	OCO	2,206	376,344
P00515285-1	2/9/2019	6:24:05 AM	PMA-13	ECE	TV	OCO	32	63,127
P00515292-1	2/9/2019	6:25:46 AM	HOL-12	ECA	TV	OCO	31	25,943
P00515298-1	2/9/2019	6:29:02 AM	PMA-16	ECE	TV	OCO	65	131,818
P00515303-1	2/9/2019	6:29:59 AM	SWD-14	ECE	TV	OSV	1	1,676
P00515308-1	2/9/2019	6:31:13 AM	KIN-21	ECE	TV	OCO	253	161,840
P00515310-1	2/9/2019	6:31:29 AM	LOL-23	ECD	TV	OCO	620	38,192
P00518341-1	2/9/2019	6:31:31 AM	ELD-23	ECC	TV	OCO	-	58,225
P00515319-1	2/9/2019	6:32:18 AM	MOT-14	ECC	TV	OCO	905	401,610
P00515317-1	2/9/2019	6:33:03 AM	LAB-26	EAA	TV	OCO	118	46,694
P00515333-1	2/9/2019	6:35:17 AM	HAZ-13	EBE	UN	OFU	61	28,106
P00515335-1	2/9/2019	6:35:27 AM	FCR-12	EBI	TV	OCO	37	5,755
P00515341-1	2/9/2019	6:36:30 AM	LYN-24	EAA	TV	OSV	1	1,118
P00518069-1	2/9/2019	6:40:55 AM	MCA-13	ECC	TV	OFU	93	156,434
P00515365-1	2/9/2019	6:41:23 AM	LAB-26	EAA	TV	OCO	28	8,277
P00515379-1	2/9/2019	6:46:58 AM	HEM-15	ECA	OD	OCO	53	9,651
P00519344-1	2/9/2019	6:47:42 AM	ELD-25	ECC	TV	OCO	6	18,826
P00515386-1	2/9/2019	6:49:05 AM	FRG-25	ECC	TV	OCO	7	22,428
P00515388-1	2/9/2019	6:49:25 AM	FRA-13	ECD	TV	OCO	13	29,788
P00515390-1	2/9/2019	6:50:22 AM	CWD-23	EBD	TV	OCO	120	33,974
P00515401-1	2/9/2019	6:50:36 AM	CAP-15	ECC	TV	OCO	110	119,416
P00515393-1	2/9/2019	6:50:39 AM	MKI-17	ECC	TV	OTF	4	12,745
P00515585-1	2/9/2019	6:51:00 AM	TLN-0002	EAA	TV	OCO	2,021	28,294
P00515539-1	2/9/2019	6:52:00 AM	TLN-0002	EAA	TV	OCO	5,023	51,571
P00515526-1	2/9/2019	6:52:00 AM	TLN-0001	EAA	TV	OCO	-	124,072
P00515399-1	2/9/2019	6:52:50 AM	ORT-25	ECA	OD	OFU	79	75,363
P00516579-1	2/9/2019	6:53:00 AM	NUG-26	EAA	TV	OCO	1,390	1,108,549
P00515412-1	2/9/2019	6:53:17 AM	KEN-12	EAA	TV	OFU	205	73,752
P00515425-1	2/9/2019	6:53:48 AM	BRO-15	EAD	TV	OCO	128	21,988
P00516713-1	2/9/2019	6:54:40 AM	LUH-14	ECC	TV	OCR	65	88,168
P00515467-1	2/9/2019	6:55:51 AM	PRI-13	ECC	TV	OCO	2	4,363
P00515024-1	2/9/2019	6:57:00 AM	LAB-25	EAA	EF	OCO	3	485
P00515494-1	2/9/2019	6:57:04 AM	MUR-13	ECE	TV	OCO	32	32,313
P00515518-1	2/9/2019	6:58:17 AM	SIL-15	ECE	TV	OSV	1	2,050
P00515532-1	2/9/2019	7:00:03 AM	MIL-22	ECE	TV	OCO	17	5,891
P00515538-1	2/9/2019	7:01:07 AM	SMR-24	ECA	TV	OCO	6	5,672
P00515553-1	2/9/2019	7:03:29 AM	SLA-16	EAA	TV	OCO	52	18,684
P00515558-1	2/9/2019	7:04:22 AM	SWI-13	ECC	TV	OCO	7	20,879

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00515563-1	2/9/2019	7:05:43 AM	BCH-15	EAA	TV	OCO	87	59,117
P00515564-1	2/9/2019	7:05:44 AM	AIR-22	ECC	TV	OCO	60	107,653
P00515565-1	2/9/2019	7:06:09 AM	LOL-21	ECD	TV	OCO	38	5,438
P00515574-1	2/9/2019	7:07:43 AM	MKI-17	ECC	TV	OSV	2	8,436
P00515580-1	2/9/2019	7:09:10 AM	FRG-22	ECC	TV	OCO	7	23,641
P00515584-1	2/9/2019	7:10:24 AM	BHS-13	EAA	UN	OJU	4	7,147
P00515592-1	2/9/2019	7:13:33 AM	LOL-23	ECD	TV	OCO	14	1,376
P00515593-1	2/9/2019	7:13:51 AM	OLD-25	EAA	TV	OCO	591	93,201
P00515596-1	2/9/2019	7:15:33 AM	PRI-23	ECC	TV	OSV	3	9,459
P00515606-1	2/9/2019	7:17:39 AM	SCH-16	EAA	TV	OFU	23	35,508
P00515607-1	2/9/2019	7:17:58 AM	SCH-13	EAA	EF	OJU	3	1,931
P00515610-1	2/9/2019	7:18:33 AM	PAT-15	ECC	TV	OTF	2	4,122
P00515613-1	2/9/2019	7:18:45 AM	PAT-15	ECC	TV	OCO	5	10,203
P00515617-1	2/9/2019	7:19:00 AM	SLA-17	EAA	TV	OJU	8	8,968
P00515616-1	2/9/2019	7:19:23 AM	FWD-16	EBJ	EF	USV	1	1,746
P00517318-1	2/9/2019	7:21:19 AM	KEN-12	EAA	EF	OHR	1,458	524,978
P00515628-1	2/9/2019	7:22:09 AM	HAN-16	EAA	TV	OTF	2	1,337
P00515640-1	2/9/2019	7:24:47 AM	PLG-13	ECC	TV	OSV	1	4,756
P00515673-1	2/9/2019	7:28:08 AM	CHA-12	ECC	TV	OCO	1,063	483,647
P00515671-1	2/9/2019	7:29:00 AM	FRA-13	ECD	TV	OCO	9	7,259
P00515674-1	2/9/2019	7:29:34 AM	OBY-16	ECC	TV	OCO	15	20,980
P00518340-1	2/9/2019	7:32:41 AM	ELD-23	ECC	TV	OCO	-	9,765
P00515683-1	2/9/2019	7:34:10 AM	KIN-25	ECE	TV	OCO	35	12,677
P00515695-1	2/9/2019	7:38:03 AM	KAP-15	ECA	OD	OFU	3	815
P00515694-1	2/9/2019	7:38:11 AM	SAM-14	EBD	SO		2	369
P00515708-1	2/9/2019	7:40:42 AM	MCA-13	ECC	TV	OSV	1	4,581
P00515709-1	2/9/2019	7:40:48 AM	SCH-13	EAA	TV	OFU	2	1,146
P00515712-1	2/9/2019	7:42:11 AM	SWI-15	ECC	TV	OSV	1	1,973
P00515724-1	2/9/2019	7:44:44 AM	FRA-15	ECD	TV	OCO	94	133,510
P00516184-1	2/9/2019	7:44:57 AM	KEN-12	EAA	TV	OCO	1	328
P00515725-1	2/9/2019	7:45:27 AM	LAC-17	ECC	TV	OCO	6	10,172
P00515734-1	2/9/2019	7:47:50 AM	WOL-25	ECC	TV	OCO	1,425	977,448
P00515732-1	2/9/2019	7:48:53 AM	HAZ-15	EBE	TV	OCO	-	1,643
P00515744-1	2/9/2019	7:53:01 AM	BCH-16	EAA	TV	OCO	17	52,193
P00515754-1	2/9/2019	7:55:03 AM	PRI-13	ECC	TV	OCO	96	195,803
P00515759-1	2/9/2019	7:55:57 AM	BHS-14	EAA	TV	OIN	919	86,202
P00516854-1	2/9/2019	7:56:41 AM	WIN-13	ECE	TV	OCO	1,023	540,948
P00515776-1	2/9/2019	7:58:12 AM	ORT-22	ECA	EF	OSV	1	1,539
P00515783-1	2/9/2019	7:58:46 AM	PLG-15	ECC	TV	OFU	20	42,253
P00515283-1	2/9/2019	7:59:36 AM	FWY-11	EBJ	TV	OCO	102	7,490
P00515793-1	2/9/2019	8:01:19 AM	HAN-16	EAA	TV	OFU	11	4,725
P00516039-1	2/9/2019	8:04:19 AM	MUR-17	ECE	TV	OCO	72	75,425

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P00518642-1	2/9/2019	8:04:47 AM	CAP-13	ECC	TV	OFU	-	12,397
P00515810-1	2/9/2019	8:05:42 AM	ELL-16	EBJ	TV	OCO	22	5,806
P00515813-1	2/9/2019	8:06:13 AM	FNW-13	ECD	TV	OSV	3	787
P00515815-1	2/9/2019	8:06:41 AM	KEN-12	EAA	TV	OTF	7	2,151
P00515819-1	2/9/2019	8:07:19 AM	ORT-23	ECA	TV	OCO	35	26,220
P00515821-1	2/9/2019	8:07:46 AM	RAI-11	ECC	TV	OCO	8	12,028
P00515828-1	2/9/2019	8:09:12 AM	LYN-26	EAA	UN	OHR	928	497,238
P00514972-1	2/9/2019	8:10:38 AM	GRV-15	ECA	EF	OCO	104	24,822
P00515857-1	2/9/2019	8:18:10 AM	PLY-13	EAA	TV	OSV	3	800
P00516848-1	2/9/2019	8:18:59 AM	WIN-12	ECE	TV	OCO	1,167	369,667
P00516869-1	2/9/2019	8:21:12 AM	WIN-16	ECE	TV	SCB	140	69,438
P00515952-1	2/9/2019	8:21:59 AM	GAR-13	ECA	TV	OFU	1	1,045
P00515988-1	2/9/2019	8:24:08 AM	OSC-23	EBI	OD	OCO	3	429
P00515990-1	2/9/2019	8:24:47 AM	VIS-26	EAA	TV	OCO	27	14,953
P00516707-1	2/9/2019	8:25:11 AM	CUS-13	EAA	TV	OCO	212	83,283
P00516000-1	2/9/2019	8:26:42 AM	FNW-13	ECD	TV	OCO	1	583
P00516003-1	2/9/2019	8:27:00 AM	FRG-25	ECC	TV	OSV	1	3,300
P00516006-1	2/9/2019	8:28:23 AM	LAU-11	EAA	TV	UOT	3	5,885
P00516345-1	2/9/2019	8:30:04 AM	BRS-24	EAC	TV	OCO	10	16,192
P00516012-1	2/9/2019	8:30:23 AM	ING-13	EBD	TV	OCO	1	36
P00516019-1	2/9/2019	8:31:10 AM	MIL-17	ECE	TV	OCO	54	24,811
P00516026-1	2/9/2019	8:31:34 AM	HAZ-15	EBE	EF	OJU	1,322	299,324
P00516029-1	2/9/2019	8:33:58 AM	BCH-16	EAA	UN	OFU	11	24,626
P00516032-1	2/9/2019	8:34:19 AM	FRG-24	ECC	TV	OCO	49	79,754
P00516037-1	2/9/2019	8:35:15 AM	MAN-12	ECD	TV	OCO	81	22,245
P00516048-1	2/9/2019	8:38:30 AM	MAN-16	ECD	TV	OCO	74	27,611
P00516055-1	2/9/2019	8:40:34 AM	STA-26	EBJ	EF	OCO	1,421	172,484
P00516062-1	2/9/2019	8:41:45 AM	MAP-16	EBE	TV	OTF	1	80
P00516064-1	2/9/2019	8:42:10 AM	FRG-22	ECC	OD	OSV	2	9,074
P00516074-1	2/9/2019	8:43:52 AM	GRV-12	ECA	TV	OCO	882	230,670
P00516083-1	2/9/2019	8:45:35 AM	LAC-15	ECC	UN	OFU	133	207,023
P00516085-1	2/9/2019	8:45:50 AM	FNW-13	ECD	TV	OCO	14	4,123
P00516111-1	2/9/2019	8:49:47 AM	FRG-23	ECC	TV	OSV	2	11,126
P00516207-1	2/9/2019	8:50:38 AM	LOL-23	ECD	TV	OCO	13	26,611
P00516116-1	2/9/2019	8:51:25 AM	SPG-14	ECC	TV	OFU	1	402
P00516120-1	2/9/2019	8:51:40 AM	PGA-13	ECE	TV	OCO	5	7,039
P00516140-1	2/9/2019	8:54:42 AM	VWY-13	EAA	TV	OCO	19	57,082
P00516152-1	2/9/2019	8:57:54 AM	VIS-25	EAA	TV	OCO	131	110,315
P00516194-1	2/9/2019	9:07:31 AM	SWE-23	EBJ	TV	OTF	3	2,272
P00516200-4	2/9/2019	9:07:49 AM	LUH-14	ECC	TV	OCO	1	2,222
P00516200-1	2/9/2019	9:07:49 AM	LUH-14	ECC	TV	OCO	1	2,222
P00516208-1	2/9/2019	9:10:36 AM	WAB-12	EBI	TV	OCO	2	808

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00516213-1	2/9/2019	9:11:55 AM	LAU-12	EAA	TV	OSV	3	3,023
P00516279-1	2/9/2019	9:21:34 AM	CUS-15	EAA	TV	OFC	1,010	241,122
P00516282-1	2/9/2019	9:23:46 AM	ROL-15	EBJ	TV	OSV	5	2,114
P00516284-1	2/9/2019	9:24:46 AM	MUR-13	ECE	TV	OCO	1	2,419
P00516288-1	2/9/2019	9:25:58 AM	SWI-13	ECC	TV	OCO	3	6,022
P00516291-1	2/9/2019	9:27:28 AM	FNW-13	ECD	TV	OTR	2	3,855
P00516307-1	2/9/2019	9:31:39 AM	FRA-12	ECD	TV	OCO	2	4,060
P00515759-1	2/9/2019	9:37:07 AM	BHS-14	EAA	TV	OIN	853	61,950
P00516343-1	2/9/2019	9:37:14 AM	MAN-16	ECD	TV	OCO	28	39,556
P00516344-1	2/9/2019	9:37:18 AM	ROC-16	ECC	TV	OCO	24	36,155
P00516352-1	2/9/2019	9:42:10 AM	FRA-12	ECD	TV	OCO	48	2,461
P00516358-1	2/9/2019	9:42:57 AM	FRG-25	ECC	TV	OFU	3	9,491
P00517669-1	2/9/2019	9:44:19 AM	GRI-16	ECC	TV	OCO	1,714	1,267,885
P00516375-1	2/9/2019	9:48:13 AM	FRG-23	ECC	TV	OCO	42	74,483
P00516389-1	2/9/2019	9:50:26 AM	WAY-16	EBD	EF	OCO	397	79,599
P00516394-1	2/9/2019	9:52:19 AM	FNW-13	ECD	TV	OCO	2	2,913
P00516396-1	2/9/2019	9:52:55 AM	LOL-21	ECD	TV	OCO	31	919
P00516404-1	2/9/2019	9:54:27 AM	HAN-13	EAA	TV	OFC	1	517
P00516411-1	2/9/2019	9:56:30 AM	BHS-14	EAA	TV	OCO	5	1,614
P00516412-1	2/9/2019	9:57:01 AM	HAW-11	ECC	TV	OCO	35	35,430
P00516580-1	2/9/2019	9:58:04 AM	PRI-23	ECC	EF	OCO	85	74,916
P00516427-1	2/9/2019	10:01:54 AM	BLU-16	ECC	TV	OCO	514	993,751
P00516433-1	2/9/2019	10:02:28 AM	MVW-16	EBJ	TV	OSV	1	841
P00516452-1	2/9/2019	10:04:14 AM	FRG-24	ECC	TV	OSV	3	9,931
P00516461-1	2/9/2019	10:05:20 AM	STA-16	EBJ	EF	OFC	6	2,449
P00517897-1	2/9/2019	10:06:00 AM	FRA-16	ECD	TV	OCO	3	2,558
P00516477-1	2/9/2019	10:08:19 AM	BCH-16	EAA	TV	OSV	1	2,188
P00516481-1	2/9/2019	10:10:06 AM	HAN-15	EAA	TV	OCO	140	119,115
P00516495-1	2/9/2019	10:14:36 AM	STW-15	ECA	TV	OFU	1	711
P00516501-1	2/9/2019	10:16:33 AM	LGY-16	EAD	TV	OCO	5	781
P00516520-1	2/9/2019	10:17:25 AM	SLA-15	EAA	TV	OPO	359	159,998
P00516505-1	2/9/2019	10:18:44 AM	KIN-22	ECE	TV	OCO	14	4,214
P00516511-1	2/9/2019	10:21:07 AM	BHS-14	EAA	TV	OPO	60	17,858
P00516525-1	2/9/2019	10:24:24 AM	BDI-13	EBI	TV	OCO	37	2,549
P00517096-1	2/9/2019	10:25:21 AM	SPG-13	ECC	TV	OFU	47	28,553
P00517236-1	2/9/2019	10:26:03 AM	WIS-14	EBF	TV	OSV	8	1,186
P00516055-2	2/9/2019	10:26:10 AM	STA-26	EBJ	EF	OHR	1,421	4,765,228
P00516581-1	2/9/2019	10:30:02 AM	HAZ-13	EBE	TV	OCO	45	30,007
P00516543-1	2/9/2019	10:30:14 AM	RAI-13	ECC	TV	OFU	59	78,699
P00516552-1	2/9/2019	10:32:21 AM	BCH-13	EAA	TV	OPO	354	381,488
P00516559-1	2/9/2019	10:34:03 AM	LAU-12	EAA	OD	OTR	1	925
P00516575-1	2/9/2019	10:37:56 AM	NUG-25	EAA	EF	SCB	-	136,791

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00516571-1	2/9/2019	10:38:00 AM	GAR-13	ECA	TV	OFU	1	972
P00516577-1	2/9/2019	10:38:11 AM	KEN-12	EAA	TV	OCO	1,735	134,116
P00516678-1	2/9/2019	10:42:27 AM	TRA-26	ECE	TV	OCO	120	66,254
P00516592-1	2/9/2019	10:45:10 AM	TRA-22	ECE	TV	OSV	1	605
P00516600-1	2/9/2019	10:46:43 AM	HEM-15	ECA	TV	OSV	4	2,607
P00516603-1	2/9/2019	10:48:12 AM	TRA-26	ECE	TV	OSV	1	601
P00516618-1	2/9/2019	10:51:53 AM	GAR-13	ECA	EF	OJU	149	21,741
P00516621-1	2/9/2019	10:52:44 AM	SPA-16	ECA	TV	OCO	29	17,995
P00516627-1	2/9/2019	10:54:35 AM	43816	ECC	TV	OCO	7	10,464
P00516638-1	2/9/2019	10:57:45 AM	MOT-15	ECC	UN	OCO	515	344,123
P00516649-1	2/9/2019	10:59:00 AM	KIN-22	ECE	TV	OCO	17	10,866
P00517445-1	2/9/2019	10:59:12 AM	LAB-27	EAA	TV	OFU	95	62,128
P00516663-1	2/9/2019	11:00:08 AM	LAB-23	EAA	EF	SCB	972	125,874
P00518361-1	2/9/2019	11:01:20 AM	ELD-23	ECC	TV	OCO	-	3,000
P00516675-1	2/9/2019	11:02:39 AM	CAM-24	EBJ	EF	UPC	25	41,026
P00516675-5	2/9/2019	11:02:39 AM	CAM-24	EBJ			25	41,026
P00516696-1	2/9/2019	11:07:16 AM	SCH-15	EAA	TV	OCO	53	152,056
P00516698-1	2/9/2019	11:08:18 AM	HAN-16	EAA	TV	OSV	1	448
P00516708-1	2/9/2019	11:10:58 AM	BHS-14	EAA	TV	OCO	42	61,242
P00516714-1	2/9/2019	11:12:36 AM	LYN-23	EAA	EF	OTF	3	1,977
P00517115-1	2/9/2019	11:14:45 AM	FWY-11	EBJ	UN	OCO	191	103,563
P00516772-1	2/9/2019	11:19:14 AM	BCH-16	EAA	TV	OPO	34	35,430
P00516803-1	2/9/2019	11:20:50 AM	KCR-16	EBJ	EF	USV	1	638
P00516807-1	2/9/2019	11:20:58 AM	SLA-17	EAA	TV	UOT	75	17,353
P00516822-1	2/9/2019	11:21:34 AM	ORT-26	ECA	OD	OFU	3	573
P00516831-1	2/9/2019	11:21:41 AM	FWY-13	EBJ	TV	OCO	274	114,208
P00516845-1	2/9/2019	11:22:51 AM	EDG-12	ECA	UN	OFU	41	3,373
P00516868-1	2/9/2019	11:24:26 AM	RAI-13	ECC	TV	OFU	16	21,293
P00516936-1	2/9/2019	11:25:44 AM	LAB-27	EAA	EF	OFC	5	3,530
P00516887-1	2/9/2019	11:26:40 AM	CHA-16	ECC	TV	OCO	19	52,466
P00516922-1	2/9/2019	11:30:34 AM	FRA-13	ECD	TV	OSV	2	1,683
P00516927-1	2/9/2019	11:30:55 AM	FWY-13	EBJ	TV	OSV	4	1,656
P00516930-1	2/9/2019	11:31:27 AM	LGY-16	EAD	EF	OCO	175	49,810
P00516943-1	2/9/2019	11:33:14 AM	MIR-17	EBJ	CP	UOT	1	929
P00517744-1	2/9/2019	11:36:20 AM	SCH-16	EAA	TV	OFU	68	7,114
P00516959-1	2/9/2019	11:36:23 AM	MAN-16	ECD	TV	OCO	2	5,920
P00516973-1	2/9/2019	11:37:47 AM	LUH-15	ECC	TV	OCO	877	145,158
P00516983-1	2/9/2019	11:42:44 AM	PAT-16	ECC	TV	OFU	8	14,261
P00516986-1	2/9/2019	11:43:03 AM	LAB-26	EAA	TV	OCO	95	44,954
P00514972-2	2/9/2019	11:46:52 AM	GRV-15	ECA	TV	OCO	154	17,154
P00517013-1	2/9/2019	11:54:34 AM	FRA-12	ECD	TV	OCO	5	8,519
P00518050-1	2/9/2019	11:55:40 AM	GRI-16	ECC	TV	OCO	8	6,831

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00517016-1	2/9/2019	11:56:22 AM	SOM-16	EBE	TV	OCO	5	3,406
P00517023-1	2/9/2019	11:56:24 AM	PRI-23	ECC	TV	OCO	506	134,410
P00517018-1	2/9/2019	11:57:28 AM	KEN-12	EAA	TV	OCO	1,411	106,272
P00513926-1	2/9/2019	11:58:29 AM	LYN-17	EAA	TV	OCO	58	1,028
P00517029-1	2/9/2019	11:58:39 AM	LYN-13	EAA	UN	OCO	1,038	356,605
P00517030-1	2/9/2019	11:58:44 AM	SUN-14	ECA	EF	OCO	878	409,734
P00517026-1	2/9/2019	11:59:22 AM	AIR-22	ECC	TV	OCO	382	352,720
P00518314-1	2/9/2019	12:02:53 PM	ROC-17	ECC	TV	OCO	18	22,683
P00517038-1	2/9/2019	12:03:15 PM	SPG-11	ECC	TV	OSV	5	12,795
P00517051-1	2/9/2019	12:05:58 PM	LAB-26	EAA	TV	OCO	4	5,874
P00517056-1	2/9/2019	12:06:43 PM	KEN-12	EAA	TV	OCO	4	1,598
P00517075-1	2/9/2019	12:11:18 PM	CHI-12	ECD	TV	OCO	2	414
P00517357-1	2/9/2019	12:11:50 PM	AIR-26	ECC	TV	OCO	66	67,012
P00517085-1	2/9/2019	12:13:22 PM	SHD-17	EBI	EF	UPC	15	18,736
P00517097-1	2/9/2019	12:16:21 PM	JHO-13	ECC	TV	OCO	26	47,860
P00517100-1	2/9/2019	12:16:48 PM	SKE-23	ECE	TV	OCO	2	2,806
P00517104-1	2/9/2019	12:17:16 PM	DGR-15	ECA	EF	OTR	4	2,163
P00517108-1	2/9/2019	12:18:45 PM	MCA-13	ECC	TV	OFU	1	1,481
P00517116-1	2/9/2019	12:22:26 PM	ROC-26	ECC	TV	OCO	205	156,467
P00517131-1	2/9/2019	12:25:13 PM	KEN-12	EAA	TV	OCO	28	1,971
P00517138-1	2/9/2019	12:26:14 PM	YEL-27	ECC	TV	OFU	17	23,842
P00517188-1	2/9/2019	12:35:18 PM	SBE-25	EBE	TV	OFU	38	3,891
P00517181-1	2/9/2019	12:35:58 PM	LYN-24	EAA	UN	OCO	798	186,475
P00517178-1	2/9/2019	12:36:33 PM	ROC-17	ECC	TV	OCO	7	3,537
P00517180-1	2/9/2019	12:36:38 PM	CHA-16	ECC	UN	PTF	11	4,816
P00517186-1	2/9/2019	12:37:46 PM	BRS-24	EAC	TV	OFU	144	29,150
P00517208-1	2/9/2019	12:43:29 PM	PLG-13	ECC	UN	OFU	1	2,820
P00517245-1	2/9/2019	12:54:37 PM	HOB-17	EBI	TV	OTF	3	692
P00515163-1	2/9/2019	1:02:26 PM	CHA-13	ECC	TV	OCO	3	4,521
P00517270-1	2/9/2019	1:03:24 PM	HAN-13	EAA	TV	OSV	1	1,299
P00514185-2	2/9/2019	1:04:41 PM	AIR-23	ECC	TV	OPO	-	34,332
P00517289-1	2/9/2019	1:08:52 PM	AVO-15	EBD	EF	OCO	82	8,363
P00517290-1	2/9/2019	1:09:27 PM	WOL-23	ECC	TV	OTF	2	5,631
P00517297-1	2/9/2019	1:10:49 PM	CLY-27	EBE	EF	USV	1	635
P00517298-1	2/9/2019	1:11:08 PM	BLU-13	ECC	TV	OFU	7	29,883
P00517310-1	2/9/2019	1:14:49 PM	CPV-12	EAD	TV	OCO	58	6,246
P00517323-1	2/9/2019	1:16:50 PM	BAR-13	ECC	TV	OCO	125	328,688
P00517327-1	2/9/2019	1:17:32 PM	HAN-16	EAA	TV	OCO	11	30,179
P00517335-1	2/9/2019	1:20:12 PM	MIL-23	ECE	TV	OCO	-	755
P00517345-1	2/9/2019	1:23:31 PM	PLG-16	ECC	UN	OFU	1	2,954
P00517477-1	2/9/2019	1:24:38 PM	PAT-17	ECC	TV	OFU	125	205,165
P00517365-1	2/9/2019	1:27:35 PM	OSC-25	EBI	EF	OCN	5	746

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P00517382-1	2/9/2019	1:29:46 PM	ELL-16	EBJ	TV	OCO	268	30,896
P00515526-1	2/9/2019	1:30:44 PM	TLN-0001	EAA	TV	OCO	543	(1)
P00517378-1	2/9/2019	1:30:45 PM	RPT-15	ECD	TV	OCO	10	4,538
P00517394-1	2/9/2019	1:34:01 PM	VAS-12	EBL	TV	OJU	15	23,866
P00517400-1	2/9/2019	1:35:06 PM	LAC-17	ECC	TV	OCO	122	94,373
P00517423-1	2/9/2019	1:37:49 PM	ELD-23	ECC	TV	OCO	2,976	8,694,081
P00517421-1	2/9/2019	1:39:04 PM	VAS-22	EBL	TV	OCO	99	20,633
P00517461-1	2/9/2019	1:39:06 PM	VAS-23	EBL	TV	OCO	129	144,227
P00517438-1	2/9/2019	1:41:08 PM	VAS-12	EBL	UN	OCO	29	36,224
P00517441-1	2/9/2019	1:41:53 PM	BON-13	ECA	TV	OSV	1	235
P00517476-1	2/9/2019	1:41:55 PM	BAR-15	ECC	TV	OCO	86	99,108
P00517443-1	2/9/2019	1:42:13 PM	VAS-12	EBL	TV	OFU	120	149,470
P00517468-1	2/9/2019	1:45:41 PM	VAS-12	EBL	TV	OCO	5	6,121
P00517478-1	2/9/2019	1:45:50 PM	CHA-15	ECC	TV	OCO	643	64,932
P00517470-1	2/9/2019	1:45:54 PM	VAS-23	EBL	TV	OCO	30	61,523
P00517484-1	2/9/2019	1:48:14 PM	VAS-12	EBL	UN	OCO	5	4,977
P00517496-1	2/9/2019	1:52:02 PM	LON-17	ECC	TV	OCO	1	2,717
P00517499-1	2/9/2019	1:52:27 PM	ROC-16	ECC	TV	OCO	9	12,557
P00517505-1	2/9/2019	1:54:10 PM	SPG-13	ECC	TV	OCO	5	770
P00517518-1	2/9/2019	2:02:18 PM	PMA-13	ECE	TV	OCO	3	8,964
P00517523-1	2/9/2019	2:03:23 PM	VAS-13	EBL	TV	OCO	958	115,662
P00517522-1	2/9/2019	2:03:30 PM	KEN-12	EAA	TV	OCO	38	51,319
P00518246-1	2/9/2019	2:05:22 PM	SWI-17	ECC	TV	OCO	6	11,301
P00517528-1	2/9/2019	2:05:36 PM	SWD-13	ECE	TV	OCO	42	36,744
P00517535-1	2/9/2019	2:08:26 PM	VIS-25	EAA	TV	OCO	10	5,694
P00517546-1	2/9/2019	2:13:37 PM	VAS-22	EBL	TV	OCO	4	17,012
P00517547-1	2/9/2019	2:13:53 PM	LYN-17	EAA	EF	OJU	1	651
P00517549-1	2/9/2019	2:14:04 PM	VAS-12	EBL	TV	OCO	44	103,932
P00517564-1	2/9/2019	2:15:19 PM	UHL-25	EBD	TV	OCO	3	418
P00517581-1	2/9/2019	2:20:19 PM	VAS-12	EBL	TV	OCO	26	34,531
P00517583-1	2/9/2019	2:21:44 PM	CHI-12	ECD	TV	OAR	1	1,372
P00517585-1	2/9/2019	2:22:21 PM	43812	ECC	TV	OTF	3	8,485
P00517596-1	2/9/2019	2:26:47 PM	VAS-23	EBL	TV	OCO	4	11,370
P00517602-1	2/9/2019	2:28:00 PM	CUS-16	EAA	TV	OCO	56	71,241
P00517608-1	2/9/2019	2:30:08 PM	PRI-13	ECC	TV	OFU	46	78,141
P00517646-1	2/9/2019	2:45:11 PM	BCH-15	EAA	TV	OCO	18	6,348
P00516732-1	2/9/2019	2:45:31 PM	GRI-01	ECC	TV	OCO	325	66,782
P00517652-1	2/9/2019	2:46:53 PM	BHS-14	EAA	TV	OCO	1	86
P00517666-1	2/9/2019	2:51:50 PM	BLA-13	EAA	TV	OCO	44	15,170
P00515024-2	2/9/2019	2:53:00 PM	LAB-25	EAA	TV	OCO	4	428
P00517677-1	2/9/2019	2:54:37 PM	BAR-15	ECC	TV	OCO	44	62,384
P00517679-1	2/9/2019	2:56:32 PM	CEK-15	ECE	TV	OCO	43	61,284

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P00517692-1	2/9/2019	3:02:32 PM	SCH-13	EAA	EF	OJU	1	164
P00517697-1	2/9/2019	3:03:27 PM	MAN-16	ECD	TV	OCO	3	1,154
P00517703-1	2/9/2019	3:07:53 PM	VAS-22	EBL	TV	OCO	4	2,741
P00518150-1	2/9/2019	3:09:03 PM	CHA-12	ECC	TV	OCO	92	111,982
P00517613-1	2/9/2019	3:09:55 PM	SIN-23	ECD	AC	OPO	10	8,308
P00517716-1	2/9/2019	3:11:43 PM	BUC-25	ECA	EF	OSV	1	446
P00516676-1	2/9/2019	3:15:07 PM	SCH-16	EAA	TV	OCO	-	1,638
P00518124-1	2/9/2019	3:18:12 PM	CUS-16	EAA	TV	OCO	3	3,029
P00517740-1	2/9/2019	3:21:27 PM	LUH-17	ECC	TV	OCO	10	11,580
P00515633-1	2/9/2019	3:28:13 PM	LAB-26	EAA	TV	OCO	6	3,789
P00517753-1	2/9/2019	3:31:53 PM	ORT-23	ECA	TV	OSV	1	101
P00517756-1	2/9/2019	3:33:29 PM	MOT-14	ECC	TV	OSV	7	7,926
P00518225-1	2/9/2019	3:39:08 PM	SCH-13	EAA	TV	OCO	8	6,797
P00517790-1	2/9/2019	3:49:21 PM	COT-16	EBD	TV	OCO	1,146	82,836
P00516707-1	2/9/2019	3:54:41 PM	CUS-13	EAA	TV	OCO	1	102
P00518518-1	2/9/2019	3:55:11 PM	SWI-17	ECC	TV	OFU	2	2,598
P00517825-1	2/9/2019	4:11:14 PM	VAS-13	EBL	TV	OCO	113	194,847
P00517840-1	2/9/2019	4:12:25 PM	VAS-13	EBL	TV	OCO	125	185,229
P00517833-1	2/9/2019	4:15:12 PM	VAS-13	EBL	TV	OCO	48	116,643
P00517160-1	2/9/2019	4:23:03 PM	BHS-12	EAA	TV	OCO	104	1,622
P00517851-1	2/9/2019	4:29:21 PM	LON-17	ECC	TV	OFU	4	10,657
P00517858-1	2/9/2019	4:30:50 PM	VAS-13	EBL	TV	OCO	69	105,843
P00517929-1	2/9/2019	4:38:42 PM	VAS-13	EBL	TV	OCO	6	17,183
P00517961-1	2/9/2019	4:47:15 PM	VAS-13	EBL	TV	OCO	20	52,204
P00517896-1	2/9/2019	4:48:33 PM	VAS-22	EBL	TV	OFU	1	1,049
P00517909-1	2/9/2019	4:53:15 PM	VAS-12	EBL	TV	OSV	1	1,427
P00517913-1	2/9/2019	4:54:10 PM	VAS-22	EBL	TV	OSV	4	11,355
P00517933-1	2/9/2019	5:06:04 PM	CUS-13	EAA	TV	OTF	1	929
P00516423-1	2/9/2019	5:06:50 PM	MVW-15	EBJ	UN	OCO	137	7,777
P00517936-1	2/9/2019	5:06:59 PM	LYN-26	EAA	EF	OJU	2	2,476
P00517310-2	2/9/2019	5:09:05 PM	CPV-12	EAD	TV	OCO	58	6,296
P00517969-1	2/9/2019	5:14:49 PM	BCH-16	EAA	TV	OCO	1,065	201,996
P00517976-1	2/9/2019	5:18:24 PM	VAS-13	EBL	TV	OCO	57	64,301
P00517979-1	2/9/2019	5:18:38 PM	HAZ-15	EBE	UN	OTF	6	441
P00517989-1	2/9/2019	5:21:34 PM	WIN-16	ECE	TV	OCO	50	24,450
P00518018-1	2/9/2019	5:34:04 PM	VAS-13	EBL	TV	OCO	35	78,173
P00518028-1	2/9/2019	5:39:49 PM	LON-26	ECC	UN	OCO	1	2,558
P00518034-1	2/9/2019	5:42:05 PM	VAS-12	EBL	TV	OCO	17	7,247
P00518038-1	2/9/2019	5:43:42 PM	WOL-23	ECC	TV	OSV	1	2,542
P00518065-1	2/9/2019	5:58:24 PM	MKI-17	ECC	TV	OCO	1	2,479
P00518066-1	2/9/2019	5:59:19 PM	VAS-12	EBL	UN	OCO	2	2,313
P00515121-1	2/9/2019	5:59:57 PM	WIN-15	ECE	TV	OCO	22	12,940

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00518079-1	2/9/2019	6:08:39 PM	LYN-17	EAA	EF	UOT	1	1,121
P00518081-1	2/9/2019	6:11:43 PM	LAU-12	EAA	EF	OJU	1	1,040
P00514917-1	2/9/2019	6:19:34 PM	HAW-11	ECC	EF	UOT	144	130,783
P00518094-1	2/9/2019	6:19:53 PM	BRS-24	EAC	TV	OCO	392	58,889
P00518105-1	2/9/2019	6:21:59 PM	VAS-13	EBL	TV	OCO	11	29,184
P00518118-1	2/9/2019	6:24:28 PM	ROC-16	ECC	EF	OFU	3	6,906
P00518136-1	2/9/2019	6:38:03 PM	BAR-13	ECC	EF	UPT	8	31,023
P00519197-1	2/9/2019	6:53:21 PM	VAS-13	EBL	TV	OPO	-	47,521
P00518148-1	2/9/2019	6:55:13 PM	HLC-25	EAD	EF	OTR	4	320
P00515732-1	2/9/2019	7:09:27 PM	HAZ-15	EBE	TV	OCO	11	455
P00518173-1	2/9/2019	7:30:21 PM	HAN-15	EAA	TV	OFU	16	11,283
P00518174-1	2/9/2019	7:30:32 PM	LUH-14	ECC	TV	OCO	43	44,343
P00518178-1	2/9/2019	7:31:37 PM	KWH-22	EBE	EF	USV	1	1,078
P00518182-1	2/9/2019	7:37:06 PM	SCH-13	EAA	EF	OTF	1	168
P00518189-1	2/9/2019	7:47:23 PM	VAS-13	EBL	TV	OSV	4	6,268
P00518190-1	2/9/2019	7:47:43 PM	DGR-15	ECA	EF	OTF	2	139
P00518199-1	2/9/2019	7:55:48 PM	LAB-26	EAA	TV	OCO	13	143
P00518199-1	2/9/2019	8:07:37 PM	LAB-26	EAA	TV	OCO	82	23,487
P00517115-1	2/9/2019	8:20:54 PM	FWY-11	EBJ	UN	OCO	102	2,827
P00518213-1	2/9/2019	8:21:44 PM	YEL-25	ECC	TV	OCO	16	13,899
P00518227-1	2/9/2019	8:28:46 PM	WOO-26	ECA	TV	OSV	1	121
P00518237-1	2/9/2019	8:41:03 PM	BAR-17	ECC	TV	OCO	191	19,932
P00518245-1	2/9/2019	8:50:19 PM	SLA-16	EAA	TV	OCO	14	16,348
P00518249-1	2/9/2019	8:53:43 PM	LYN-14	EAA	UN	OCO	2	1,228
P00518257-1	2/9/2019	9:00:55 PM	MCA-13	ECC	UN	OTF	3	2,638
P00518262-1	2/9/2019	9:12:29 PM	MER-15	EBE	TV	OCO	10	1,798
P00518267-1	2/9/2019	9:21:32 PM	GRI-13	ECC	TV	OCO	11	7,780
P00518271-1	2/9/2019	9:28:14 PM	JHO-12	ECC	TV	OCO	256	177,789
P00518279-1	2/9/2019	9:39:20 PM	VAS-13	EBL	TV	OSV	1	1,457
P00518457-1	2/9/2019	9:40:55 PM	SLA-16	EAA	TV	OCO	106	133,470
P00518282-1	2/9/2019	9:43:18 PM	JHO-12	ECC	TV	OCO	35	6,281
P00518288-1	2/9/2019	10:02:18 PM	GRI-16	ECC	OD	OCO	1,004	775,091
P00518774-1	2/9/2019	10:07:46 PM	MKI-16	ECC	TV	OFU	9	22,458
P00518317-1	2/9/2019	10:52:31 PM	BRS-24	EAC	TV	OCO	4	2,538
P00518318-1	2/9/2019	10:53:42 PM	LYN-24	EAA	EF	OJU	1	962
P00516088-2	2/9/2019	11:14:04 PM	TAN-16	ECC	TV	OPO	17	12,455
P00518332-1	2/9/2019	11:22:16 PM	VAS-12	EBL	TV	OCO	2	4,683
P00518333-1	2/9/2019	11:25:16 PM	VAS-12	EBL	TV	OCO	12	17,816
P00518334-1	2/9/2019	11:27:16 PM	GRI-16	ECC	TV	OFU	2	219

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

Western Washington snow set to continue throughout the weekend

Share

BY MYNORTHWEST STAFF

FEBRUARY 8, 2019 AT 10:35 PM

Snow is expected to fall across the Puget Sound region into Saturday with a Winter Storm Warning in effect until 4 p.m.

The National Weather Service predicts snow tapering Saturday during the morning hours, marked by dry, cold air. In terms of accumulation, anywhere from 4 to 8 inches of snow could fall before Saturday afternoon.

According to KIRO 7, Renton has already received 8 inches of snow. Snoqualmie received 5.5 inches, Sea-Tac Airport received 4.3 inches, Federal Way received 4 inches, and Vashon Island received 3 inches. Port Angeles, Sequim, and Agnew were hit hardest, reporting between 8 and 13 inches of snow.

There are also warnings of potential power outages, with winds set to increase late Friday night and Saturday up to 30 miles per hour, with gusts of 45 miles per hour.

Seattle has a website dedicated to the snow storm with information on the city's response.

Governor Inslee declared a statewide state of emergency on Friday afternoon. But even before that, Snohomish County declared a state of emergency a day ahead of the snow. County road crews will be fully staffed around the clock, working 12-hour shifts plowing roads and salting roads. Up to 40 plows are scheduled to be working on unincorporated roads at any given time.



The Washington Post

Record February snow hammers Seattle, and more is coming

In a week, three storms dumped over 14 inches. Two more storms are on the way.

By **Ian Livingston**

February 11

Back-to-back waves of snow dumped over 11 inches of snow on Seattle this weekend, breaking the city's February snowfall record. The city is bracing for two more snow events, the first arriving Monday.

The weekend snow blitz resulted in hundreds of closed schools and businesses Monday, including the Seattle Public School District. Travel was also heavily disrupted, on land and in the air. Hundreds of flights were canceled Sunday.

Power outages peaked around 150,000 customers in the Puget Sound, according to local media reports. But as of Monday morning, much of that power had been restored.

The weekend storminess officially dropped 11.4 inches of snow on the city, pushing its February total to 14.1 inches, an inch ahead of the previous record of 13.1 inches set in 1949.



The first wave, which came through Friday and Saturday, unloaded 7.9 inches. It marked Seattle's biggest snowstorm since February 1990, when 9.8 inches fell in one event.

Then came round two late Sunday, when snow pasted the city again. By the time it was done, an additional 3.5 inches was recorded. The three-day total of 11.4 inches ranked 15th most on record in Seattle since 1945.

The weekend double whammy followed 2.7 inches that fell Feb. 3 and 4. Before these three events in the span of a week, Seattle had been snowless this winter. But the season flipped suddenly from lackluster to extreme. February's snowfall is approaching 10 times the average of just 1.7 inches.

More snow!

As if the Seattle area needs more snow and cold weather, another storm system is bearing down on the region.

The city is under a winter weather advisory late Monday morning into the evening. Precipitation is expected to start as snow, with about one to two inches falling. But then the forecast becomes tricky.

“On a difficulty scale of 1 to 10, this afternoon and evening’s forecast remains near a 10,” the National Weather Service office serving Seattle said.

The forecasting challenge stems from a storm track a bit farther west than earlier ones. This should allow slightly warmer air to work into the area. As such, the snow is expected to turn to rain Monday night, limiting totals.

But then more may be on the way. Weather models suggest another storm system will approach the region around Thursday night on a similar track to the ones that have already dispensed plentiful cold and snow. While the specifics of the forecast remain uncertain, more snow and cold seem like a reasonable expectation given what this weather regime has already delivered.

Beyond that, there is some indication that the cold and snowy pattern may relax and shift a bit. It can’t last forever, right?!

This winter’s snow and cold in perspective

The 14.1-inch winter snow total so far is the highest since 2008-2009, when 23.3 inches fell over the entire winter. It’s also presently the 33rd snowiest winter on record back to 1895 and the 16th snowiest on record at Seattle-Tacoma Airport, where records have been kept since 1945.

This February marks the eighth snowiest month on record at the airport and the 16th snowiest month in the entire Seattle record, which also includes amounts measured at the Seattle City Office from 1894 to 1944.

Seattle’s all-time snowiest February, when you include the previous observing location, came in 1916, when 35.4 inches fell. The snowiest month at the airport was January 1950, when 57.2 inches of snow was measured.

In addition to all the snow, temperatures are now running about 10 degrees below normal for the month. The city hasn’t made it above the 30s in over a week.

Cold is set to continue into the foreseeable future. While temperatures may surpass 40 degrees later this week, the average high is 50 degrees and slowly rising with the approach of spring.



*"We
have*



about 8 inches of snow here. More problematic is the ice — cable lines are down all over the neighborhood," a resident of Thurston County, Washington, wrote on social media on Feb 9, 2019.

Western Washington recovers from snowstorms as melt-out continues

Share

BY MYNORTHWEST STAFF
FEBRUARY 13, 2019 AT 1:28 PM

The great melt out is underway as the region warms up. Many roads remain covered in slippery slush, posing issues for commuters attempting to get to a cleared route. The melting snow has also prompted flood and landslide warnings throughout Western Washington.

"You are going to struggle getting out of your neighborhood, certainly on the Eastside, and the north end, until you can get to a plowed street. Once you get there, you are going to be fine," said KIRO Radio Traffic Reporter Chris Sullivan, noting that many residential areas and other roads are filled with slush. This makes getting to a clear road difficult.

Sullivan heard reports Wednesday morning that snow plows were finally entering neighborhoods in Lynnwood and Snohomish County to clear roads that have been covered in snow and slush.

North Bend has declared a state of emergency with snow piled several feet high. I-90 remains closed in both directions at Snoqualmie Pass. WSDOT says eastbound will reopen at 4 p.m. Westbound will remain closed.

Earlier this week, University of Washington Meteorologist Cliff Mass said to expect a great melt out," and that seems to be happening around Western Washington as temperatures hold above freezing.

"From this system, we are out of the woods, and from what's coming tomorrow, I don't see a lot that would cause any additional snow issues," said KIRO 7 Meteorologist Nick Allard. "We dry out this afternoon, it will turn partly sunny and it will get to the upper 30s and lower 40s."

Though some freezing is possible in places overnight with temps falling into the 20s. Drivers should be cautious and wary of ice.

Warmer temperatures in the 30s held overnight sparing the region from widespread freezing. Most areas around Seattle were hanging around 34 degrees Wednesday morning. Allard says the region can expect

scattered showers, especially around Everett and to the north. There is potential for some random wet snow, especially if you are above 300-500 feet. There is more rain forecast for Friday and Saturday.

The National Weather Service warns, however, that lingering piles of snow will make things difficult in Western Washington.

“Because of the amount of snow we’ve had, just the sheer quantity we’ve seen in the last three or four days, it’s gonna take some time to melt that off,” he said. “It’s not going to be like the kind of snowfall where we have an inch or two and it disappears in the space of a day.”

Landslides and flooding

The National Weather Service issued a special weather statement cautioning Western Washington about the potential for landslides. Areas below 1,500 are at higher risk.

The weather service has also issued a flood advisory for the region, effective until 8 p.m. Snow melt is putting pressure on urban and small streams in King and Pierce Counties. This could send rushing water over highways, streets, and underpasses. This is partially caused by street drains being blocked by slush and ice.

Areas that will be affected include: Seattle, Tacoma, Bellevue, Kent, Federal Way, Auburn, Puyallup, North Bend, Carnation, Renton, Redmond, Kirkland, Sammamish, Bothell, Burien, Issaquah, Des Moines, Maple Valley, Covington and Bonney Lake.

Power outages

Reports of power outages continued through Wednesday as rain moved into the region. Puget Sound Energy reported Wednesday Morning that “Since the first snowstorms arrived last Friday ... we’ve restored power to approximately 327,000 customers, while approximately 18,000 customers remain without power.”

