

2020 Qualifying Events Report

January 31, 2020 Event

Filed on April 30, 2020



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Event Description

Event Date and Time

Start: 1/31/2020, 15:35.

End: 2/2/2020, 15:00.

Event Type

High winds and flooding.

Service Areas Significantly Affected

Whatcom, Skagit, Island, Kitsap Counties and Vashon.

Number of Customers Affected

System wide, approximately 72,852 customers were without power during the course of this event.

Summary of System Impacts

Total Number of Outages for the Event	411
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Transmission Lines Affected	4
Impacted Substations	2

Mobilization Summary

Operating Bases Placed In Emergency Status

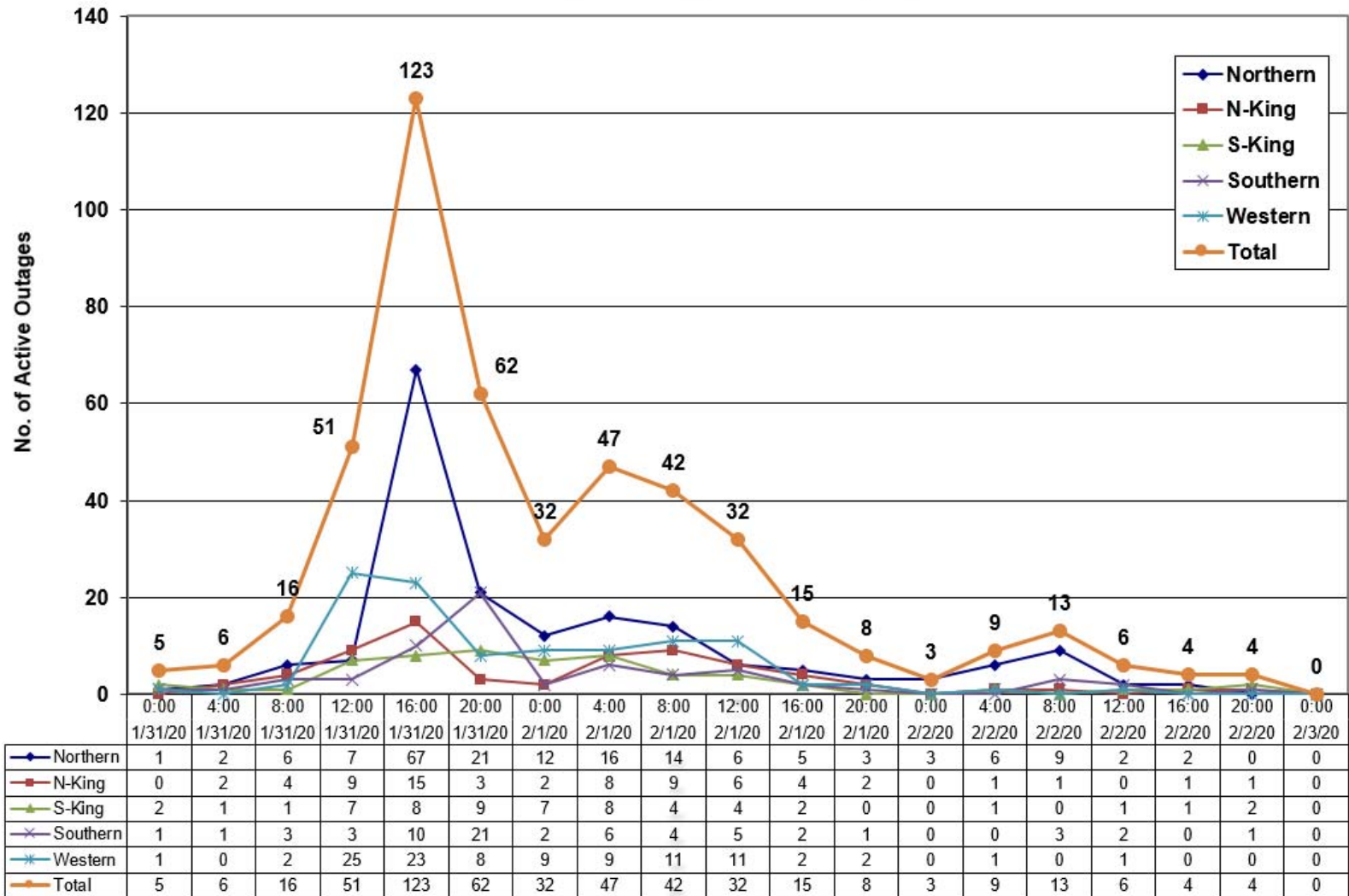
Base	Date Opened	Time Opened	Date Closed	Time Closed
Whatcom	1/31/20	19:00	2/2/20	12:00
Skagit	1/31/20	19:00	2/2/20	12:00
Island	1/31/20	19:00	2/2/20	12:00
N King	Not opened			
S King	Not opened			
Pierce	Not opened			
Thurston	Not opened			
Kitsap	1/31/20	19:00	2/1/20	21:00
Vashon	1/31/20	19:00	2/1/20	21:00
Kittitas	Not opened			

Emergency Coordination Center (ECC)

	Date Opened	Time Opened	Date Closed	Time Closed
ECC	1/31/2020	21:00	2/1/2020	23:00

Active Outage Events

No. of Active Outages during IEEE Qualifying Event



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 2020: 6.31 Minutes

Qualified Events - 2020 Current Event – Calculation Detail

Event Date, Time Range	Total Customer Minutes	Average Customer Count	Event SAIDI (Customer Minutes /Customer Count)
1/31/2020, 15:30 – 02/02/2020, 15:00	31,697,803	1,176,257	26.95

Daily SAIDI Detail YTD

First Day that Daily SAIDI Exceeded PSE's TMED of 6.31 Minutes by Qualifying Event

Date	Daily SAIDI (from midnight to midnight)	Total O&M ³ Costs
1/13/2020	10.25	\$5,266,086
1/31/2020	22.22	\$2,066,438

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

Starting from the 2018 calendar year, PSE continues its existing Qualifying Storm Loss Deferral Mechanism for any storm restoration costs incurred on or after January 1, 2018, with the following modifications that were agreed to in settlement and the settlement was approved by the Commission in PSE's 2017 general rate case:

- (i) the cumulative annual cost threshold for deferral of storms under the Qualifying Storm Loss Deferral Mechanism shall be increased from \$8 million to \$10 million,
 - (ii) qualifying events that cost less than \$500,000 will not qualify for deferral, and
 - (iii) the cumulative annual cost threshold for the Qualifying Storm Loss Deferral Mechanism shall exclude storm events with costs less than \$500,000.
- (Page 22 of Appendix B to Order 08 in consolidated Dockets UE-170033 and UG-170034)

2020 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
1/13/2020	\$0	\$1,591,695	\$-	\$5,266,086	\$5,266,086	\$6,857,781
1/31/2020	\$0	\$614,518	\$-	\$2,066,438	\$2,066,438	\$2,680,956

2020 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
	\$2,206,213	\$-	\$7,332,525	\$7,332,525	\$9,538,737

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						
January 31, 2020- Qualifying Storm Damage Repair Costs						
	Qualifying Events Deferred Account	Capital	O&M - Not Deferrable	O&M - Deferrable Accumulation	Total O&M	Total
Labor						
ST	\$ -	\$ 10	\$ -	\$ 6,219	\$ 6,219	\$ 6,230
OT	\$ -	\$ -	\$ -	\$ 778,034	\$ 778,034	\$ 778,034
Total Labor	\$ -	\$ 10	\$ -	\$ 784,253	\$ 784,253	\$ 784,264
Labor OH	\$ -	\$ 140,666	\$ -	\$ 425	\$ 425	\$ 141,091
Materials	\$ -	\$ 46,659	\$ -	\$ 66,242	\$ 66,242	\$ 112,900
Contractors	\$ -	\$ 423,981	\$ -	\$ 1,039,873	\$ 1,039,873	\$ 1,463,855
Other Direct Charges	\$ -	\$ 236	\$ -	\$ 11,126	\$ 11,126	\$ 11,362
Fleet	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Assessments	\$ -	\$ 2,966	\$ -	\$ 164,519	\$ 164,519	\$ 167,484
Deferred Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ 614,518	\$ -	\$ 2,066,438	\$ 2,066,438	\$ 2,680,956

ST: Standard time
OT: Over time
OH: Overhead

Detailed List of Outages – 1/31/2020, First TMED-Exceeding Day

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00587805-1	1/13/2020	12:02:41 AM	POU-15	ECE	TV	OCO	12	13,039
P00587214-1	1/13/2020	12:11:53 AM	COT-15	EBD	TV	OCO	21	6,228
P00587549-1	1/13/2020	12:19:15 AM	PMA-16	ECE	TV	OCO	764	434,576
P00587219-1	1/13/2020	12:22:03 AM	SWD-12	ECE	TV	OCO	107	53,445
P00587221-1	1/13/2020	12:22:51 AM	MIL-16	ECE	TV	OFU	2	1,914
P00587226-1	1/13/2020	12:29:23 AM	MIL-23	ECE	TV	OCO	34	64,872
P00587227-1	1/13/2020	12:34:38 AM	CHR-22	ECE	TV	OCO	338	48,649
P00587229-1	1/13/2020	12:41:34 AM	MIL-23	ECE	UN	OSV	1	1,442
P00587232-1	1/13/2020	12:47:05 AM	SWD-14	ECE	TV	OCO	1,369	361,498
P00587249-1	1/13/2020	12:55:07 AM	TOL-15	EBD	TV	OCO	65	51,576
P00587253-1	1/13/2020	12:58:28 AM	CHR-25	ECE	TV	OCO	183	10,364
P00587254-1	1/13/2020	1:00:43 AM	SWD-13	ECE	TV	OCO	146	93,730
P00587258-1	1/13/2020	1:01:14 AM	ALG-15	EAA	TV	OCO	114	74,385
P00587563-1	1/13/2020	1:04:11 AM	SWD-12	ECE	TV	OCO	68	50,602
P00587261-1	1/13/2020	1:06:34 AM	MIL-17	ECE	TV	OCO	174	39,928
P00587600-1	1/13/2020	1:08:31 AM	CHR-23	ECE	TV	OCO	-	299,389
P00587276-1	1/13/2020	1:16:57 AM	SKE-26	ECE	TV	OCO	36	28,852
P00587466-1	1/13/2020	1:25:02 AM	TLN-0283	ECE	TV	OCO	-	783,941
P00588165-1	1/13/2020	1:25:35 AM	COT-13	EBD	TV	OCO	667	448,650
P00588267-1	1/13/2020	1:37:43 AM	MIL-23	ECE	TV	OCO	33	50,820
P00587288-1	1/13/2020	1:45:39 AM	SWD-12	ECE	TV	OCO	2	2,614
P00587293-1	1/13/2020	1:50:31 AM	HWD-25	EBD	TV	OCO	437	36,591
P00587453-1	1/13/2020	1:52:28 AM	TLN-0089	ECE	TV	OCO	-	121,730
P00587551-1	1/13/2020	1:54:03 AM	PMA-13	ECE	TV	OCO	938	806,258
P00587561-1	1/13/2020	1:58:33 AM	KIN-25	ECE	TV	OCO	9	11,368
P00587306-1	1/13/2020	2:05:00 AM	CPV-15	EAD	TV	OCO	68	10,898
P00587317-1	1/13/2020	2:19:47 AM	WLS-16	EAC	TV	OCO	790	147,677
P00587755-1	1/13/2020	2:29:03 AM	DUV-13	EBD	TV	OCO	1,281	587,082
P00587552-1	1/13/2020	2:31:51 AM	PMA-12	ECE	TV	OCO	960	686,643
P00587553-1	1/13/2020	2:49:17 AM	MUR-13	ECE	TV	OCO	1,040	398,611
P00588013-1	1/13/2020	2:49:46 AM	PMA-12	ECE	TV	OCO	14	10,901
P00587550-1	1/13/2020	2:49:48 AM	PMA-15	ECE	TV	OCO	-	478,389
P00587555-1	1/13/2020	2:50:18 AM	MUR-16	ECE	TV	OCO	-	142,018
P00587554-1	1/13/2020	2:50:21 AM	MUR-15	ECE	TV	OCO	-	168,313
P00587557-1	1/13/2020	2:51:50 AM	MUR-17	ECE	TV	OCO	-	428,510
P00587458-1	1/13/2020	2:55:05 AM	DUV-12	EBD	TV	OCO	60	111,829
P00588166-1	1/13/2020	3:01:02 AM	PMA-13	ECE	TV	OCO	14	9,898
P00587513-1	1/13/2020	3:09:39 AM	SKE-26	ECE	TV	OCO	21	12,732
P00587201-1	1/13/2020	3:11:36 AM	DUV-16	EBD	TV	OCO	38	1,222

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00593515-1	1/31/2020	12:16:56 AM	GLC-14	EBJ	EF	OCN	26	2,375
P00593519-1	1/31/2020	12:24:50 AM	FRG-24	ECC	EF	UPC	15	4,548
P00593521-1	1/31/2020	1:15:13 AM	PGA-12	ECE	TV	OCO	11	2,276
P00593514-2	1/31/2020	3:10:21 AM	SWA-12	EAD	TV	OTR	5	784
P00593525-1	1/31/2020	3:40:35 AM	PEA-15	EBJ	TV	OCO	15	5,139
P00593526-1	1/31/2020	4:11:31 AM	SME-15	EBE	EF	OPO	189	87,002
P00593531-1	1/31/2020	4:54:18 AM	CWD-23	EBD	TV	OTF	7	719
P00593537-1	1/31/2020	6:32:34 AM	GRI-13	ECC	EF	UPC	2	1,123
P00593538-1	1/31/2020	6:33:51 AM	BRS-24	EAC	EF	OCR	821	463,810
P00593564-1	1/31/2020	6:35:00 AM	BRS-13	EAC	EF	OCR	339	57,675
P00593575-1	1/31/2020	7:41:33 AM	PEA-15	EBJ	EF	OFU	29	860
P00593580-1	1/31/2020	8:02:42 AM	CLV-16	EAD	EF	OSV	1	113
P00593095-1	1/31/2020	8:23:39 AM	TAN-15	ECC	SO	UEL	2	690
P00593590-1	1/31/2020	9:08:58 AM	LWS-13	EBJ	SO	USC	1	37,404
P00593601-1	1/31/2020	9:26:51 AM	FAC-12	EBE	EF	USV	1	154
P00593596-1	1/31/2020	9:33:48 AM	PRE-11	EBE	SO	OPO	8	1,712
P00593604-1	1/31/2020	9:33:50 AM	CHA-12	ECC	EF	OTF	8	2,035
P00593605-1	1/31/2020	9:39:02 AM	WLS-16	EAC	EF	OCO	6	2,029
P00593608-1	1/31/2020	9:42:03 AM	LAB-27	EAA	EF	OTF	1	81
P00593609-1	1/31/2020	9:47:40 AM	BLU-17	ECC	TV	OCO	216	12,995
P00561616-1	1/31/2020	9:57:47 AM	PTR-14	EAA	SO	OTF	19	3,991
P00585824-1	1/31/2020	10:07:24 AM	WLS-15	EAC	SO	UEL	1	12
P00593626-1	1/31/2020	11:17:08 AM	CRE-15	EAD	EF	OSV	1	105
P00593627-1	1/31/2020	11:19:15 AM	SIL-13	ECE	TV	OCO	7	2,357
P00593628-1	1/31/2020	11:27:19 AM	SNQ-17	EBF	TV	OCO	84	7,075
P00593637-1	1/31/2020	11:32:34 AM	MSI-24	EBF	UN	OCO	1,571	231,460
P00593645-1	1/31/2020	11:49:59 AM	KIN-24	ECE	TV	OCO	46	3,796
P00566708-2	1/31/2020	12:01:02 PM	CLA-13	EBI	EF	UPC	8	2,238
P00593651-1	1/31/2020	12:04:37 PM	PMA-13	ECE	TV	OCO	189	16,833
P00593650-1	1/31/2020	12:04:52 PM	LHL-22	EBE	TV	OCO	7	986
P00593661-1	1/31/2020	12:09:27 PM	CAM-25	EBJ	EF	UTR	27	13,032
P00593660-1	1/31/2020	12:13:37 PM	SMR-26	ECA	SO	UTC	7	395
P00593667-1	1/31/2020	12:16:45 PM	PMA-16	ECE	TV	OCO	10	1,172
P00593669-1	1/31/2020	12:25:28 PM	BLU-13	ECC	TV	OSV	2	247
P00593672-1	1/31/2020	12:27:54 PM	COT-16	EBD	TV	OPO	56	16,000
P00593674-1	1/31/2020	12:33:27 PM	CHR-22	ECE	TV	OCO	41	70,277
P00593689-1	1/31/2020	12:52:03 PM	BRO-15	EAD	TV	OFU	2	383
P00593692-1	1/31/2020	12:55:31 PM	VAS-13	EBL	ND	OCO	135	25,418
P00593694-1	1/31/2020	12:56:44 PM	LLT-16	EBD	TV	OSV	6	3,227
P00593704-1	1/31/2020	1:13:26 PM	BON-13	ECA	EF	UPC	30	4,899

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00593711-1	1/31/2020	1:20:14 PM	VAS-13	EBL	TV	OCO	1	497
P00593713-1	1/31/2020	1:22:29 PM	MIL-23	ECE	TV	OCO	2	528
P00593739-1	1/31/2020	2:01:28 PM	DES-13	EBJ	UN	OSV	1	121
P00593741-1	1/31/2020	2:07:00 PM	BRO-16	EAD	TV	OCO	22	35,448
P00593742-1	1/31/2020	2:08:00 PM	MIL-23	ECE	TV	OCO	92	17,872
P00593744-1	1/31/2020	2:09:16 PM	MIL-17	ECE	TV	OCO	13	1,652
P00593708-1	1/31/2020	2:11:53 PM	LGY-16	EAD	TV	OCO	20	730
P00593751-1	1/31/2020	2:14:29 PM	SIL-15	ECE	TV	OCO	51	72,436
P00593749-1	1/31/2020	2:15:29 PM	BRO-15	EAD	TV	OCO	39	3,382
P00593752-1	1/31/2020	2:18:03 PM	ETN-13	EBH	TV	OPO	52	18,610
P00593757-1	1/31/2020	2:18:26 PM	MSI-24	EBF	TV	OCO	29	6,923
P00593760-1	1/31/2020	2:23:46 PM	WIS-14	EBF	TV	OCO	27	14,980
P00593773-1	1/31/2020	2:30:01 PM	MIL-23	ECE	TV	OCO	242	179,846
P00593708-2	1/31/2020	2:47:56 PM	LGY-16	EAD	TV	OCO	3	1,692
P00593781-1	1/31/2020	2:53:02 PM	KIT-25	EBH	SO	PMJ	1	89
P00593738-1	1/31/2020	3:04:49 PM	BRS-24	EAC	TV	OCO	70	25,295
P00593799-1	1/31/2020	3:11:32 PM	SIL-16	ECE	TV	OCO	8	10,017
P00593801-1	1/31/2020	3:16:32 PM	MIL-16	ECE	TV	OCO	30	45,207
P00593808-1	1/31/2020	3:20:37 PM	LAT-14	EBJ	TV	OPO	1,203	358,734
P00593850-1	1/31/2020	3:36:00 PM	KIN-23	ECE	TV	OCO	166	13,916
P00593819-1	1/31/2020	3:37:45 PM	KIN-25	ECE	TV	OSV	-	76
P00593624-2	1/31/2020	3:40:53 PM	KCR-16	EBJ	TV	OCO	23	2,219
P00593829-1	1/31/2020	3:41:05 PM	KIN-25	ECE	TV	OSV	-	72
P00593830-1	1/31/2020	3:41:06 PM	KIN-21	ECE	TV	OCO	12	5,450
P00593832-1	1/31/2020	3:41:33 PM	KIN-25	ECE	TV	USV	-	211
P00593833-1	1/31/2020	3:41:46 PM	KIN-25	ECE	TV	OSV	-	69
P00593846-1	1/31/2020	3:42:09 PM	WIS-16	EBF	TV	OCR	1,367	146,074
P00593835-1	1/31/2020	3:42:19 PM	KIN-25	ECE	TV	OSV	-	70
P00593834-1	1/31/2020	3:42:19 PM	KIN-25	ECE	TV	OSV	-	69
P00593837-1	1/31/2020	3:42:34 PM	KIN-25	ECE	TV	OSV	-	70
P00593838-1	1/31/2020	3:42:35 PM	NBE-16	EBF	TV	OSV	1	2,009
P00593842-1	1/31/2020	3:43:02 PM	KIN-25	ECE	TV	OSV	-	212
P00593841-1	1/31/2020	3:43:05 PM	KIN-25	ECE	TV	USV	-	139
P00592872-1	1/31/2020	3:43:28 PM	KIN-25	ECE	SO	OCO	779	316,689
P00594902-1	1/31/2020	3:44:22 PM	KIN-25	ECE	TV	OCO	49	39,354
P00594101-1	1/31/2020	3:48:59 PM	KIN-25	ECE	TV	OCO	59	61,871
P00593858-1	1/31/2020	3:50:13 PM	BIG-15	EAC	TV	OCO	169	64,909
P00594801-1	1/31/2020	3:50:59 PM	KIN-25	ECE	TV	OPO	3	35,045
P00593867-1	1/31/2020	4:03:19 PM	KIN-21	ECE	TV	OCO	255	170,952
P00593872-1	1/31/2020	4:04:31 PM	PGA-12	ECE	TV	OCO	-	821

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00593940-1	1/31/2020	4:06:00 PM	TLN-0136	ECE	TV	OCO	291	1,189,259
P00593929-1	1/31/2020	4:11:38 PM	SIL-13	ECE	TV	OCO	5	4,642
P00593945-1	1/31/2020	4:15:48 PM	CHI-12	ECD	TV	OCO	233	26,690
P00594096-1	1/31/2020	4:18:01 PM	CHI-12	ECD	TV	OCO	168	130,514
P00593950-1	1/31/2020	4:22:55 PM	VAS-13	EBL	ND	OCO	9	1,350
P00593954-1	1/31/2020	4:26:47 PM	CHI-16	ECD	TV	OCO	200	95,470
P00593956-1	1/31/2020	4:27:13 PM	HAM-15	EAC	TV	OCO	70	6,416
P00593985-1	1/31/2020	4:29:39 PM	BRO-15	EAD	TV	OCO	199	8,381
P00593975-1	1/31/2020	4:32:59 PM	TOT-23	EBD	TV	OCO	2,397	222,401
P00593977-1	1/31/2020	4:35:19 PM	BRS-13	EAC	TV	OCO	44	56,671
P00593978-1	1/31/2020	4:35:26 PM	KIN-21	ECE	TV	OCO	6	9,802
P00593983-1	1/31/2020	4:36:32 PM	NBO-22	EBD	TV	OCO	91	69,300
P00593989-1	1/31/2020	4:38:25 PM	KIN-24	ECE	TV	OCO	731	442,608
P00593991-1	1/31/2020	4:38:57 PM	COT-13	EBD	TV	OCO	168	28,059
P00595223-1	1/31/2020	4:39:25 PM	HAM-15	EAC	TV	OCO	467	849,436
P00594050-1	1/31/2020	4:55:57 PM	HAM-13	EAC	TV	OCO	56	20,052
P00594068-1	1/31/2020	5:01:34 PM	UHL-23	EBD	TV	OFU	71	66,739
P00595119-1	1/31/2020	5:04:55 PM	PGA-12	ECE	TV	OCO	20	24,338
P00594056-1	1/31/2020	5:05:50 PM	BRS-13	EAC	TV	OCO	9	12,815
P00594058-1	1/31/2020	5:08:19 PM	CHR-23	ECE	TV	OCO	377	458,771
P00594075-1	1/31/2020	5:16:39 PM	KIN-21	ECE	TV	OCO	15	23,657
P00594076-1	1/31/2020	5:16:49 PM	LGY-16	EAD	TV	OCO	18	37,801
P00595164-1	1/31/2020	5:26:38 PM	PGA-13	ECE	TV	OCO	17	24,442
P00594091-1	1/31/2020	5:29:22 PM	BIG-12	EAC	TV	OCO	87	110,956
P00594090-1	1/31/2020	5:31:12 PM	DUV-12	EBD	TV	OCO	49	12,288
P00594092-1	1/31/2020	5:31:45 PM	CHI-12	ECD	TV	OCO	2,073	272,653
P00593584-1	1/31/2020	5:35:04 PM	NOP-26	EBJ	SO	UPC	1	71
P00594097-1	1/31/2020	5:37:42 PM	GBK-13	EAD	OD	OCO	1	1,527
P00595205-1	1/31/2020	5:38:34 PM	PGA-13	ECE	TV	OJU	-	3,530
P00595830-1	1/31/2020	5:38:50 PM	HAM-13	EAC	TV	OCO	-	33,977
P00594102-1	1/31/2020	5:41:58 PM	LGY-12	EAD	TV	OCO	398	16,716
P00593913-1	1/31/2020	5:42:07 PM	ENU-17	EBI	EF	OPO	30	960
P00594104-1	1/31/2020	5:43:10 PM	COT-16	EBD	TV	OCO	2	514
P00594485-1	1/31/2020	5:52:44 PM	HAM-15	EAC	TV	OCO	1,262	1,143,755
P00594099-1	1/31/2020	5:57:26 PM	HAM-13	EAC	TV	OCO	29	35,018
P00594128-1	1/31/2020	5:59:07 PM	BAK-25	EAA	TV	OFU	115	41,642
P00594132-1	1/31/2020	6:06:13 PM	BTN-36	EAC	TV	OCO	64	32,687
P00594984-1	1/31/2020	6:07:41 PM	LGY-12	EAD	TV	OCR	540	927,413
P00594145-1	1/31/2020	6:09:50 PM	SIL-15	ECE	TV	OCO	22	20,976
P00594740-1	1/31/2020	6:09:52 PM	MAX-12	EAD	TV	OCO	-	356,634

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00595193-1	1/31/2020	6:10:20 PM	FLD-13	EAD	TV	OCO	11	29,982
P00594143-1	1/31/2020	6:11:35 PM	HAM-15	EAC	TV	OCO	-	8,035
P00595709-1	1/31/2020	6:13:24 PM	HAM-13	EAC	TV	OCO	9	24,230
P00593913-2	1/31/2020	6:14:44 PM	ENU-17	EBI	EF	OPO	30	19,157
P00594169-1	1/31/2020	6:15:48 PM	GRI-13	ECC	TV	OHR	196	30,592
P00594354-1	1/31/2020	6:18:30 PM	FNW-16	ECD	TV	OCO	11	3,677
P00594188-1	1/31/2020	6:21:03 PM	HKX-16	EAC	TV	OCO	86	24,359
P00594193-1	1/31/2020	6:21:57 PM	GRI-16	ECC	TV	OCO	122	100,391
P00595823-1	1/31/2020	6:24:11 PM	HAM-13	EAC	TV	OCR	24	60,260
P00594200-1	1/31/2020	6:24:34 PM	BRS-13	EAC	TV	OCO	38	51,124
P00594397-1	1/31/2020	6:25:45 PM	BRS-13	EAC	TV	OCO	9	17,835
P00594807-1	1/31/2020	6:26:40 PM	BRO-15	EAD	TV	OCO	2,362	657,761
P00585560-1	1/31/2020	6:27:57 PM	BAK-22	EAA	SO	UEL	1	1,260
P00594314-1	1/31/2020	6:28:17 PM	JHO-12	ECC	TV	OCO	246	72,324
P00594316-1	1/31/2020	6:28:46 PM	COT-13	EBD	TV	OCO	60	5,706
P00594317-1	1/31/2020	6:28:51 PM	BIG-12	EAC	TV	OCO	9	7,729
P00594318-1	1/31/2020	6:29:26 PM	SIL-15	ECE	TV	OCO	124	87,809
P00594348-1	1/31/2020	6:30:21 PM	MTV-16	EAC	TV	OCO	1,817	319,338
P00594351-1	1/31/2020	6:32:56 PM	MTV-17	EAC	TV	OTF	7	1,227
P00594357-1	1/31/2020	6:34:09 PM	MTV-17	EAC	TV	OCO	4	698
P00594359-1	1/31/2020	6:35:09 PM	PLG-13	ECC	TV	OCO	49	30,923
P00594364-1	1/31/2020	6:36:12 PM	MTV-17	EAC	TV	OCO	30	5,182
P00594366-1	1/31/2020	6:36:19 PM	MTV-17	EAC	TV	OCO	7	1,211
P00595811-1	1/31/2020	6:36:24 PM	HAM-13	EAC	TV	OFU	6	14,976
P00594368-1	1/31/2020	6:36:56 PM	MTV-17	EAC	TV	OTF	6	1,036
P00594399-1	1/31/2020	6:45:53 PM	HKX-16	EAC	TV	OCO	384	111,667
P00594395-1	1/31/2020	6:46:04 PM	VAS-23	EBL	TV	OCO	129	70,615
P00594405-1	1/31/2020	6:49:43 PM	COT-13	EBD	TV	UOT	9	670
P00594416-1	1/31/2020	6:52:47 PM	HAW-11	ECC	TV	UTC	3	3,054
P00594424-1	1/31/2020	6:54:18 PM	SWA-15	EAD	TV	OCO	1,174	1,122,070
P00594423-1	1/31/2020	6:55:46 PM	MTV-17	EAC	TV	OCO	3	463
P00594425-1	1/31/2020	6:55:55 PM	POU-13	ECE	TV	OSV	3	2,743
P00594434-1	1/31/2020	6:55:58 PM	HAN-16	EAA	TV	OCO	1,200	16,320
P00594428-1	1/31/2020	6:57:18 PM	YEL-23	ECC	TV	OSV	5	945
P00594432-1	1/31/2020	6:57:41 PM	LUH-14	ECC	TV	OCO	51	23,900
P00595377-1	1/31/2020	7:01:48 PM	HAM-15	EAC	TV	OCO	15	36,084
P00594548-1	1/31/2020	7:07:05 PM	LOL-21	ECD	TV	OCO	337	291,909
P00594490-1	1/31/2020	7:08:59 PM	GBK-13	EAD	TV	OCO	693	388,565
P00594495-1	1/31/2020	7:10:15 PM	BTN-38	EAC	TV	OCO	9	3,068
P00594516-1	1/31/2020	7:11:57 PM	SCH-12	EAA	TV	OCO	24	16,662

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00594537-1	1/31/2020	7:11:59 PM	KCR-16	EBJ	TV	OPI	24	3,072
P00594524-1	1/31/2020	7:12:20 PM	MCA-15	ECC	TV	OCO	7	7,490
P00595448-1	1/31/2020	7:12:31 PM	BRS-24	EAC	TV	OCO	739	1,183,902
P00594889-1	1/31/2020	7:13:03 PM	HAM-13	EAC	TV	OCO	517	166,972
P00594565-1	1/31/2020	7:15:02 PM	RIT-16	EAC	TV	OSV	1	837
P00594578-1	1/31/2020	7:15:57 PM	HAM-15	EAC	TV	OCO	1	2,104
P00595213-1	1/31/2020	7:16:00 PM	SUM-21	EAC	TV	OCO	7	7,740
P00594576-1	1/31/2020	7:16:03 PM	ZEN-25	EBJ	EF	USC	1	412
P00594597-1	1/31/2020	7:17:11 PM	NUG-26	EAA	TV	OCO	332	128,860
P00594601-1	1/31/2020	7:17:31 PM	BRI-14	EAA	TV	OCO	423	48,423
P00594607-1	1/31/2020	7:17:59 PM	BRI-17	EAA	TV	OCO	729	155,685
P00594672-1	1/31/2020	7:18:04 PM	GLC-14	EBJ	EF	OFU	86	43,203
P00594742-1	1/31/2020	7:18:44 PM	KCR-16	EBJ	TV	OCO	2	243
P00594622-1	1/31/2020	7:19:15 PM	SKY-23	EBD	TV	OPO	755	5,661,211
P00594619-1	1/31/2020	7:20:33 PM	LYO-15	EBJ	TV	OCO	3	1,407
P00594627-1	1/31/2020	7:21:35 PM	ROE-17	EAA	TV	OCO	84	16,237
P00594630-1	1/31/2020	7:21:49 PM	BRS-13	EAC	TV	OCO	139	162,608
P00594644-1	1/31/2020	7:24:59 PM	BIG-15	EAC	TV	OCO	268	360,934
P00594660-1	1/31/2020	7:27:45 PM	SCH-16	EAA	TV	OCO	28	8,047
P00594665-1	1/31/2020	7:27:59 PM	MAN-15	ECD	TV	OCO	7	4,506
P00594667-1	1/31/2020	7:28:46 PM	SBE-25	EBE	EF	OCO	38	14,786
P00594992-1	1/31/2020	7:30:44 PM	HAM-13	EAC	TV	OCO	16	9,475
P00594674-1	1/31/2020	7:32:19 PM	KEN-13	EAA	TV	OCO	122	93,821
P00595282-1	1/31/2020	7:33:04 PM	HAM-15	EAC	TV	OCO	1	2,201
P00594676-1	1/31/2020	7:33:48 PM	VAS-12	EBL	TV	OCO	11	10,718
P00595539-1	1/31/2020	7:34:08 PM	HAM-15	EAC	TV	OCO	18	39,264
P00594689-1	1/31/2020	7:36:19 PM	ELD-27	ECC	TV	OCO	16	16,670
P00593692-1	1/31/2020	7:36:48 PM	VAS-13	EBL	ND	OCO	135	16,112
P00594687-1	1/31/2020	7:37:35 PM	BRS-13	EAC	TV	OCO	22	26,253
P00594688-1	1/31/2020	7:37:48 PM	MLK-15	EBE	TV	OCO	111	26,094
P00594694-1	1/31/2020	7:39:42 PM	PET-16	EAC	EF	OCO	246	47,707
P00594696-1	1/31/2020	7:42:43 PM	LGY-12	EAD	TV	OCO	3,118	513,456
P00594703-1	1/31/2020	7:44:08 PM	MAX-11	EAD	TV	OCO	2,061	305,983
P00594697-1	1/31/2020	7:44:18 PM	LAB-25	EAA	EF	OJU	2	632
P00594699-1	1/31/2020	7:44:21 PM	BRW-13	EAC	TV	OCO	20	9,507
P00594704-1	1/31/2020	7:44:28 PM	FLD-12	EAD	TV	OCO	4,304	1,806,661
P00594702-1	1/31/2020	7:45:13 PM	BIG-12	EAC	TV	OCO	12	18,744
P00594708-1	1/31/2020	7:48:24 PM	POU-15	ECE	TV	OCO	77	55,979
P00594710-1	1/31/2020	7:48:43 PM	MTV-17	EAC	TV	OCO	3	305
P00594714-1	1/31/2020	7:49:46 PM	CHI-12	ECD	TV	OCO	30	33,967

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00594717-1	1/31/2020	7:51:12 PM	RAI-11	ECC	TV	OFU	80	10,724
P00595762-1	1/31/2020	8:03:28 PM	HAM-13	EAC	TV	OCO	5	12,182
P00594797-1	1/31/2020	8:15:00 PM	TLN-0184	EAD	TV	OCO	-	5,733
P00594803-1	1/31/2020	8:17:01 PM	GRV-15	ECA	TV	OCO	77	34,760
P00594791-1	1/31/2020	8:17:25 PM	POU-15	ECE	TV	OCO	1	1,187
P00594436-1	1/31/2020	8:17:58 PM	LLT-17	EBD	TV	OCO	9	302
P00594802-1	1/31/2020	8:21:08 PM	WOO-27	ECA	TV	OCO	41	28,859
P00594806-1	1/31/2020	8:24:11 PM	MVW-16	EBJ	TV	OFU	143	21,693
P00594810-1	1/31/2020	8:30:19 PM	SHA-15	ECA	TV	OCO	105	55,277
P00594818-1	1/31/2020	8:34:47 PM	BRS-13	EAC	TV	OCO	85	92,433
P00594820-1	1/31/2020	8:39:49 PM	SIL-15	ECE	TV	OCO	4	1,457
P00594823-1	1/31/2020	8:41:28 PM	HEM-13	ECA	TV	OCO	11	9,509
P00594832-1	1/31/2020	8:44:25 PM	MCA-13	ECC	TV	OTR	54	28,667
P00594873-1	1/31/2020	9:01:36 PM	MVW-13	EBJ	TV	OPO	2,378	353,724
P00594874-1	1/31/2020	9:04:12 PM	EDG-16	ECA	EF	OTF	3	2,042
P00594884-1	1/31/2020	9:13:09 PM	CHI-12	ECD	TV	OCR	7	10,903
P00594887-1	1/31/2020	9:15:58 PM	ELD-23	ECC	TV	OFU	13	4,419
P00594888-1	1/31/2020	9:18:00 PM	LAT-14	EBJ	TV	OCO	14	16,052
P00594729-1	1/31/2020	9:24:23 PM	FRG-24	ECC	TV	OCO	98	48,910
P00594908-1	1/31/2020	9:33:23 PM	LON-22	ECC	TV	OCO	16	12,361
P00594915-1	1/31/2020	9:36:58 PM	LMC-25	EBE	TV	OFU	11	1,685
P00594917-1	1/31/2020	9:37:55 PM	KNT-37	EBJ	TV	OCO	48	36,015
P00594919-1	1/31/2020	9:38:24 PM	BTN-36	EAC	TV	OCO	68	9,847
P00594926-1	1/31/2020	9:42:20 PM	RAI-12	ECC	TV	OCO	200	59,194
P00594938-1	1/31/2020	9:48:32 PM	BRI-17	EAA	TV	OCO	4	960
P00594940-1	1/31/2020	9:49:07 PM	SHA-13	ECA	TV	OCR	4	5,746
P00594941-1	1/31/2020	9:49:23 PM	BRS-13	EAC	TV	OCO	3	3,540
P00594945-1	1/31/2020	9:50:50 PM	GAR-13	ECA	TV	OCO	175	248,981
P00594948-1	1/31/2020	9:52:45 PM	CED-17	ECA	EF	OSV	1	946
P00594956-1	1/31/2020	9:57:09 PM	RAI-13	ECC	TV	OCO	9	12,606
P00594964-1	1/31/2020	9:58:34 PM	BDI-15	EBI	TV	OCO	170	31,013
P00594965-1	1/31/2020	9:59:40 PM	KCR-16	EBJ	TV	OTF	1	82
P00594976-1	1/31/2020	10:07:03 PM	BUC-26	ECA	AC	OPO	13	17,770
P00594979-1	1/31/2020	10:09:23 PM	MKI-14	ECC	TV	OCO	52	8,800
P00594999-1	1/31/2020	10:27:39 PM	EDG-13	ECA	TV	OPO	108	98,300
P00595001-1	1/31/2020	10:28:53 PM	WLS-16	EAC	TV	OCO	3	1,961
P00595004-1	1/31/2020	10:30:39 PM	MAX-13	EAD	TV	OCO	23	17,988
P00595006-1	1/31/2020	10:31:47 PM	LGY-16	EAD	UN	OCO	3	6,610
P00595007-1	1/31/2020	10:32:20 PM	MAX-12	EAD	OD	OCO	48	21,730
P00595030-1	1/31/2020	10:34:21 PM	GWR-16	EBI	TV	OPO	33	44,881

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00595012-1	1/31/2020	10:36:37 PM	MAX-12	EAD	TV	OCO	90	38,516
P00595017-1	1/31/2020	10:41:48 PM	NLM-12	EAC	EF	OCO	52	13,241
P00594393-2	1/31/2020	10:42:25 PM	PGA-13	ECE	TV	OCO	1,219	(1)
P00595029-1	1/31/2020	10:50:15 PM	BUC-16	ECA	TV	OCO	15	17,404
P00595032-1	1/31/2020	10:52:59 PM	FAB-15	EAD	EF	OFC	4	4,062
P00595204-1	1/31/2020	10:56:22 PM	LGY-16	EAD	TV	OCO	43	87,947
P00595036-1	1/31/2020	10:57:47 PM	MAX-12	EAD	TV	OCO	68	25,795
P00595039-1	1/31/2020	11:01:03 PM	WLK-13	ECA	TV	OCO	24	23,488
P00595045-1	1/31/2020	11:06:46 PM	MVW-16	EBJ	EF	OFU	59	10,086
P00595049-1	1/31/2020	11:11:57 PM	VAS-23	EBL	TV	OCO	46	7,330
P00595051-1	1/31/2020	11:13:00 PM	KIN-21	ECE	TV	OCO	48	28,050
P00595055-1	1/31/2020	11:16:05 PM	LAT-17	EBJ	EF	OCO	3	484
P00595058-1	1/31/2020	11:18:11 PM	ORT-26	ECA	TV	OCO	7	2,873
P00595059-1	1/31/2020	11:18:30 PM	FRA-13	ECD	TV	OCO	18	14,848
P00595063-1	1/31/2020	11:30:27 PM	KAP-15	ECA	TV	OCO	2	1,484
P00595066-1	1/31/2020	11:34:34 PM	FNW-13	ECD	TV	OCO	1	640
P00595072-1	1/31/2020	11:44:16 PM	SLA-16	EAA	EF	OCO	1	350
P00595074-1	1/31/2020	11:48:00 PM	ALG-15	EAA	TV	OTF	5	858
P00595075-1	1/31/2020	11:52:32 PM	HKX-16	EAC	TV	OCO	22	9,014
P00595077-1	1/31/2020	11:54:11 PM	KIN-25	ECE	TV	OCO	84	32,991
P00595078-1	1/31/2020	11:54:43 PM	NLM-13	EAC	TV	OCO	15	9,509
P00595079-1	1/31/2020	11:54:58 PM	NLM-16	EAC	EF	OTF	2	950
P00595095-1	1/31/2020	11:57:18 PM	LAB-26	EAA	TV	OCO	592	193,854

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

[After 29 straight days of rain, an intense atmospheric river will ...](#)

[www.washingtonpost.com](#) › [weather](#) › [2020/01/31](#) › [after...](#)

Jan 31, 2020 - Flash flood watches are up for much of northwestern **Washington** through ... National **Weather** Service forecast for rain timing in Pacific Northwest ... will fall primarily along the coast and on the **west** slope of the mountains.

[Winter storm train to hammer northwestern US well into ...](#)

[www.accuweather.com](#) › ... › [Mountain View](#)

The main thrust of the **storms** through this weekend will focus on British Columbia and **western Washington**. A general 3-6 inches (80-150 millimeters) of rain will ...

[Flooding, high winds, power outages expected as storms blast ...](#)

[komonews.com](#) › [news](#) › [local](#) › [flooding-high-winds-p...](#)

Jan 31, 2020 - The initial threat will be heavy rain and rising snow levels that are expected to quickly fill rivers and streams in **Western Washington**, putting ...

[Special Weather Statement - National Weather Service Watch ...](#)

[forecast.weather.gov](#) › [wwamap](#) › [wwatxtget](#) › [wwa=Sp...](#)

Winds in excess of 40 mph will be possible with these **storms**. Strong thunderstorms will be near... Ferriday and **West Ferriday** around 155 PM CDT. Clayton and ...

[National Climate Report - January 2020 | State of the Climate ...](#)

[www.ncdc.noaa.gov](#) › [sotc](#) › [national](#)

Jan 31, 2020 - Parts of the **West**, High Plains, Great Lakes and Northeast had ... portions of the central and southern U.S. The state of **Washington** ranked fourth ... A **storm** on January 25 dropped up to 3 inches (76 mm) of rain on the region.