

RE ### e-FILING REPORT COVER SHEET

REPORT NAME:

PGE 2013 Annual Reliability Report

COMPANY NAME:

Portland General Electric

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION?

No

If known, please select designation:

RE (Electric)

Report is required by:

OAR 860-023-0151

Is this report associated with a specific docket/case?

No

Key words:

2013 Annual Reliability Report

If known, please select the PUC Section to which the report should be directed:

Electric Rates and Planning



Portland General Electric Company
121 SW Salmon Street • Portland, Oregon 97204
PortlandGeneral.com

May 1, 2014

Public Utility Commission of Oregon
Attn: Filing Center
3930 Fairview Industrial Drive SE
P.O. Box 1088
Salem, OR 97308-1088

RE: PGE 2013 Annual Reliability Report

Pursuant to OAR 860-023-0151, PGE hereby submits the Company's annual report via electronic only; the 2013 Annual Reliability Report.

Should you have any questions or comments regarding this filing, please contact George Jones at (503) 570-4554.

Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pge.com

Sincerely,

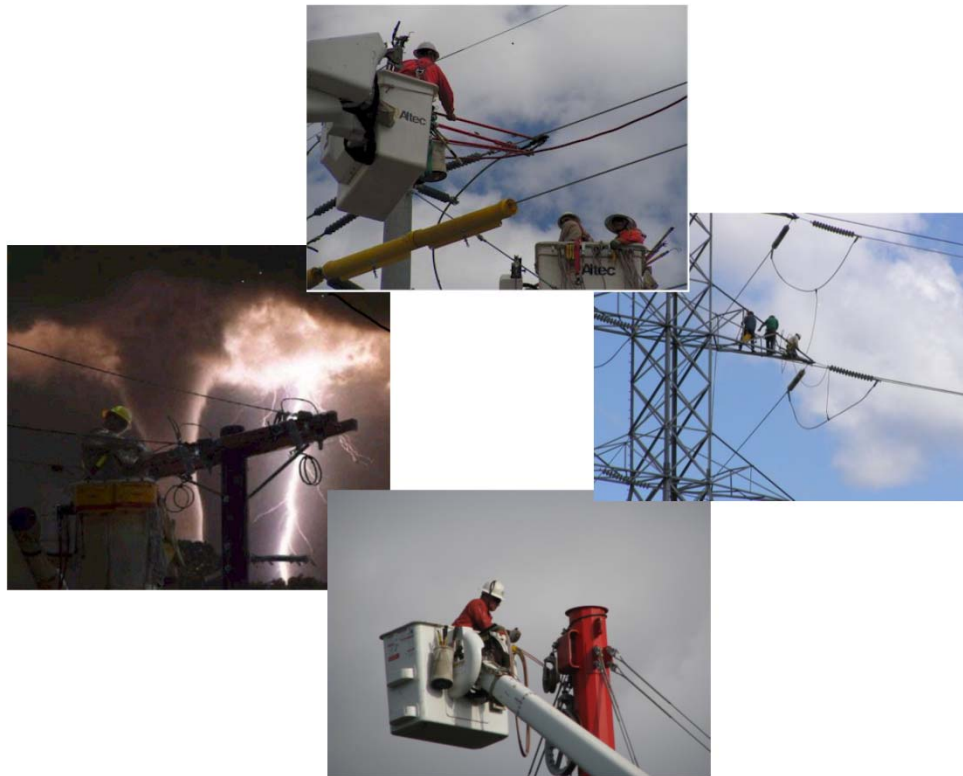
A handwritten signature in blue ink, appearing to read "Karla Wenzel", is written over a light blue circular stamp.

Karla Wenzel
Manager, Pricing and Tariffs

Enclosure
cc: Lori Koho, OPUC



Portland General Electric 2013 Annual Reliability Report



January 1, 2013 through December 31, 2013

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Section I

Report Summary

The Annual Reliability Report provides distribution system performance information based on service interruptions to PGE customers. The report is utilized to understand the overall reliability of the distribution system and to identify areas of improvement and excellence. The information in this report is also used to inform the system performance values in the Service Quality Measure Report provided to the Oregon Public Utility Commission.

The overall performance of PGE's distribution system is represented by the following indices¹: System Average Interruption Duration Index (SAIDI), System Average Interruption Frequency Index (SAIFI), and Momentary Average Interruption event Frequency Index² (MAIFIE).

PGE's distribution system performance calculations are based on the IEEE 1366 TMED (Threshold Major Event Day) methodology. The data utilized for the calculations is captured from PGE's Outage Management System (OMS) and confirmed via a multi-step evaluation process. The results of the calculations are evaluated on a monthly basis and confirmed via a standardized review process.

Per the PGE IEEE 1366 TMED methodology, PGE excluded the following dates³ from the 2103 distribution system performance indices: April 7th, September 28th, and September 29th.

¹ Details regarding the performance indices can be found in Reliability Measure Definitions section of the Appendix

² MAIFIE calculations are limited to feeders with remote monitoring equipment

³ Dates were excluded due to storm exclusions

Corporate Annual Summary Without Major Events

Year	Reported Outages	SAIFI Outages per Customer Served	SAIDI Average Annual Outage Duration per Customer (min)	MAIFle Momentary Average Interruption Frequency Index
2013	4,495	0.45	62	0.9
2012	5,093	0.55	72	1.1
2011	4,535	0.51	66	0.9
2010	5,454	0.65	77	1.1

Corporate Annual Summary With Major Events

Major Events	Year	Reported Outages	SAIFI Outages per Customer Served	SAIDI Average Annual Outage Duration per Customer (min)	MAIFle Momentary Average Interruption Frequency Index
Yes	2013	5,069	0.57	205	0.9
Yes	2012	6,051	0.72	136	1.1
Yes	2011	4,692	0.57	95	0.9
No	2010	5,454	0.65	77	1.1

Note: IEEE 1366 rules were adopted by PGE effective 1/1/2012. SAIDI numbers are rounded to the nearest whole number.

2013 Regional Annual Summary Without Major Events

Region	Reported Outages	SAIFI Outages per Customer Served	SAIDI Average Annual Outage Duration per Customer (min)	MAIFle Momentary Average Interruption Frequency Index
CENTRAL	875	0.41	54	1.6
EASTERN	1,105	0.77	103	1.0
SOUTHERN	1,390	0.30	47	0.4
WESTERN	1,125	0.36	50	0.7
PGE:	4,495	0.45	62	0.9

2013 Regional Annual Summary With Major Events

Region	Reported Outages	SAIFI Outages per Customer Served	SAIDI Average Annual Outage Duration per Customer (min)	MAIFle Momentary Average Interruption Frequency Index
CENTRAL	981	0.55	86	1.6
EASTERN	1,260	0.88	163	1.0
SOUTHERN	1,583	0.45	97	0.4
WESTERN	1,245	0.46	400	0.7
PGE:	5,069	0.57	205	0.9

Major Event : An outage event is designated as "major" when the daily system SAIDI exceeds a threshold value T_{med} . The IEEE 2.5 Beta methodology is used to calculate the T_{med} value.

2013 Major Event Days were: April 7th, September 28, and September 29th.

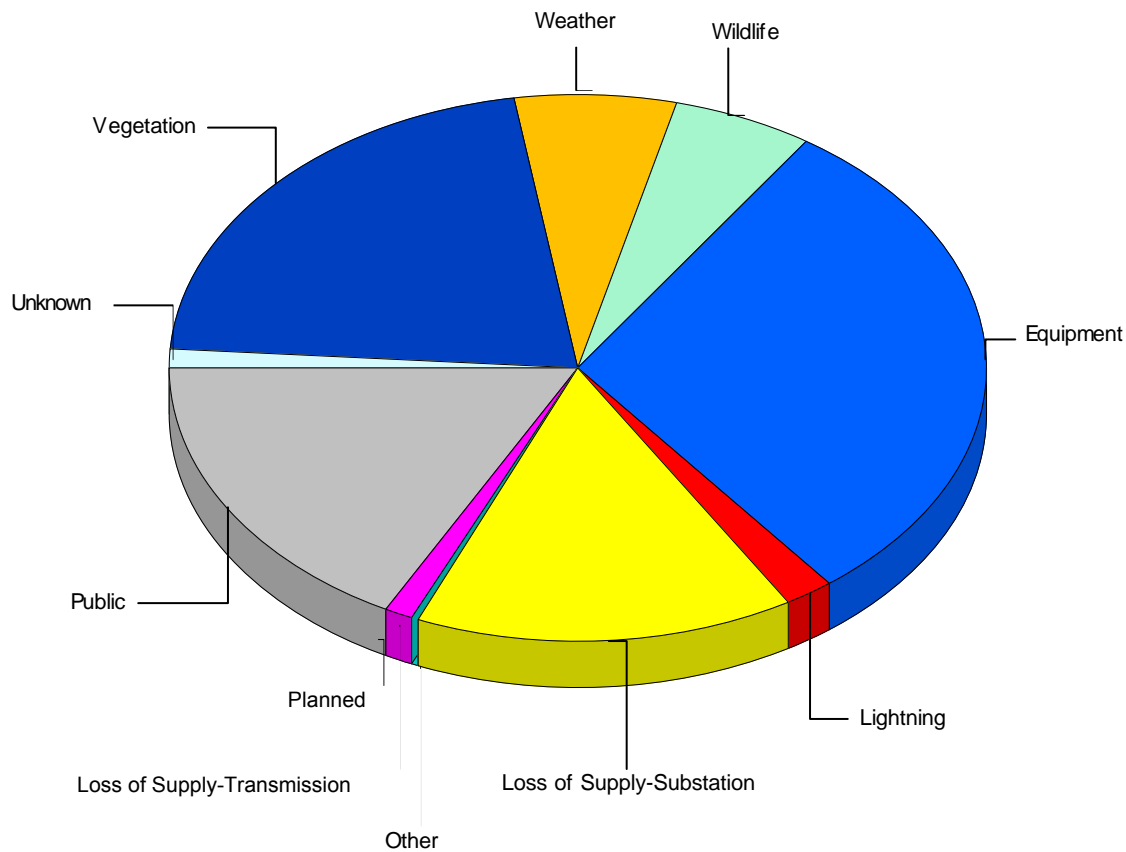
Section II

Outage Analysis

This section provides graphical representation of 2013 outage causes by both customer hours and event type. The intent of this section is to provide a high-level analysis of the outages that result in the highest number of customer hours and the type of events with the highest frequency. Pie charts are utilized to reflect data from the most recent year and bar charts are utilized to capture the 4 year trend.

- Outage Causes by Customer Hours – Pie Chart
- Outage Causes by Customer Hours – 4 Year Comparison Bar Chart
- Outage Causes by Events – Pie Chart
- Outage Causes by Events – 4 Year Comparison Bar Chart

2013 Outage Causes by Customer Hours



Equipment	259,684	30.1%
Lightning	14,790	1.7%
Loss of Supply-Substation	130,556	15.1%
Loss of Supply-Transmission	965	0.1%
Other	901	0.1%
Planned	10,492	1.2%
Public	148,398	17.2%
Unknown	9,222	1.1%
Vegetation	183,992	21.3%
Weather	55,784	6.5%
Wildlife	48,050	5.6%
Total:	862,833	100.0%

Equipment:

	138	0%
AMI Meter Install Failure	18	0%
Cutout/Fuse/Arrestor Failure	20,081	8%
Meter Problem/Failure	59	0%
OH Clamp Failure	1,486	1%
OH Conductor Failure	69,661	27%
OH Transformer Failure	10,466	4%
Pole Failure	2,712	1%
Pole Hardware Failure	8,072	3%
Protective Fuse Operation	6,248	2%
Regulator	88	0%
Switch/Recloser Failure	11,305	4%
UG Clamp Failure	546	0%
UG Conductor Failure	98,684	38%
UG Hardware Failure	12,122	5%
UG Transformer Failure	17,997	7%

Total Equipment: 259,684

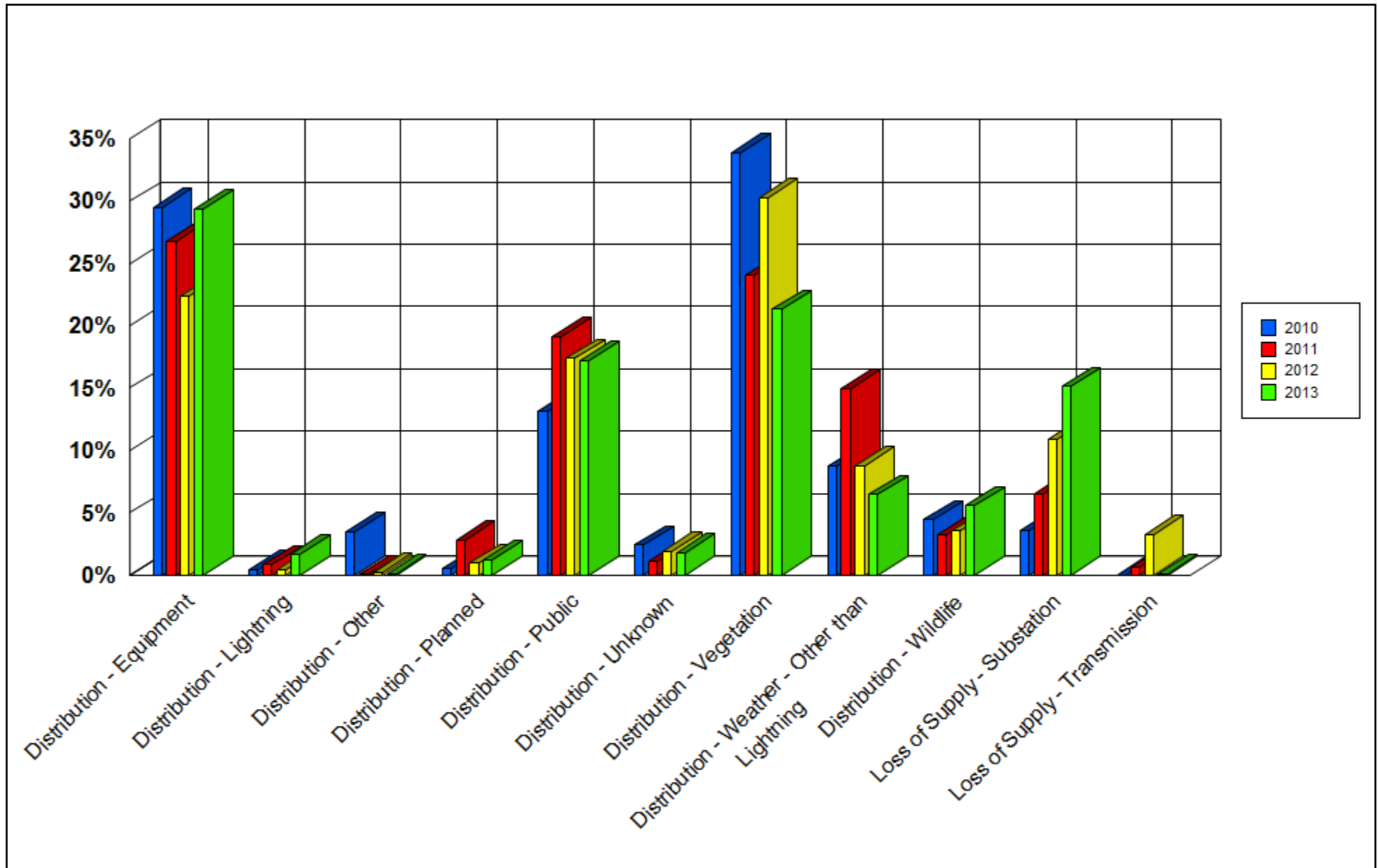
Vegetation:

Equip Damage/Tree Cut/Felled	8,563	5%
Tree-Broken Limb/Top	159,485	87%
Tree-Burning	7	0%
Tree-Uprooted	15,938	9%

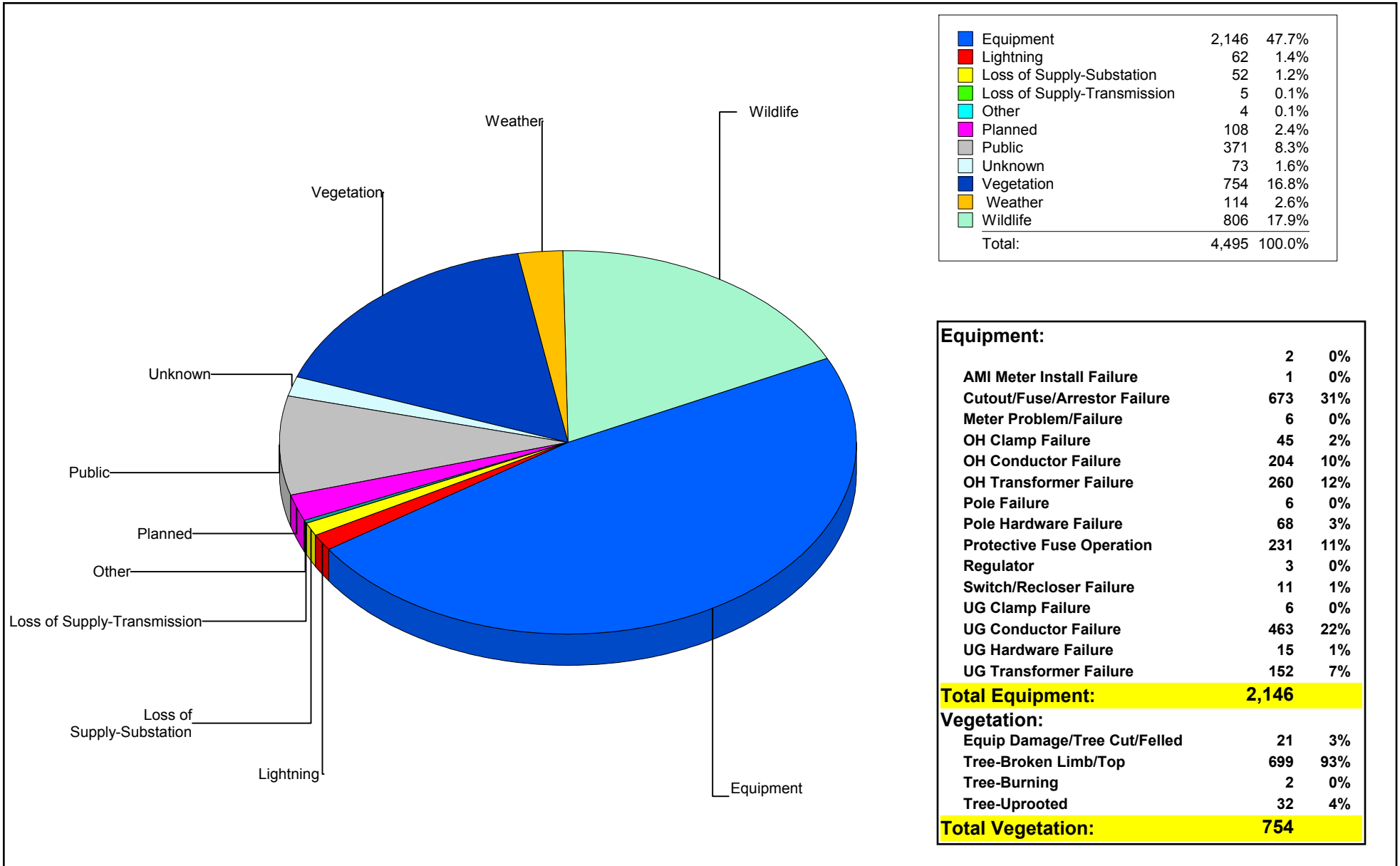
Total Vegetation: 183,992

Outage Causes by Customer Hours

4 Year Comparison (2010-2013)

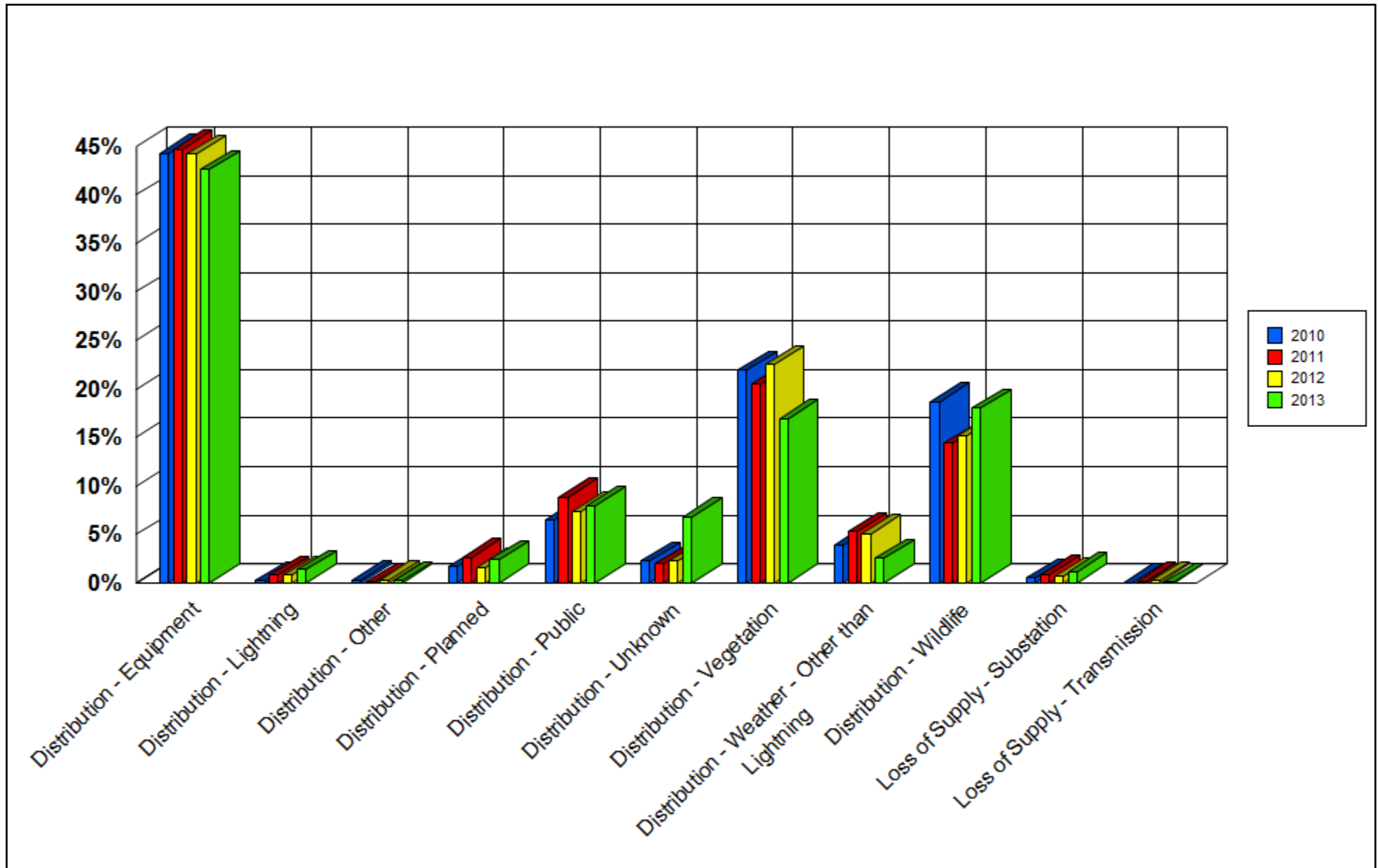


2013 Outage Causes by Events



Outage Causes by Events

4 Year Comparison (2010-2013)



Section III

Regional Feeder Performance Summary

This section provides a summary of reliability indices by region and feeder. The list is sorted in alphabetical order by region and feeder name. Each feeder is classified as one of the following:

- Urban (U)
- Rural (R)
- Remote (P/R)

Feeders are designed with a classification based on the following criteria:

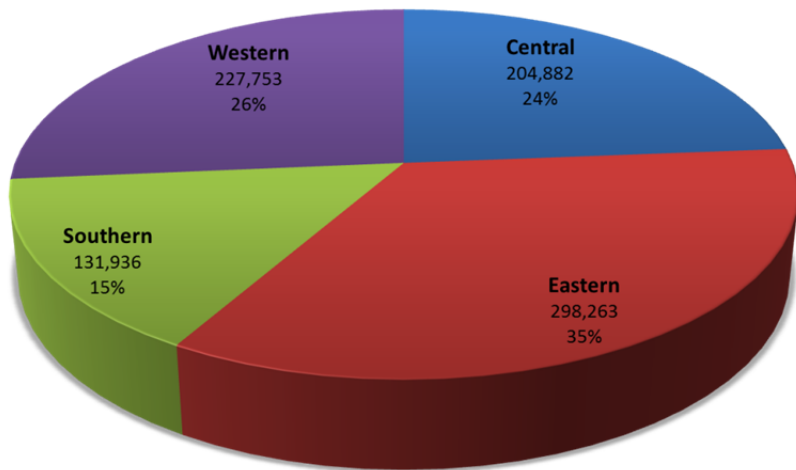
- A feeder is designated Urban if 50% or more of the load is inside the Urban Growth Boundary (UGB)
- A feeder is designated Rural if one or more of the following apply:
 - The load on a feeder is greater than 0.5 MVA per square mile.
 - A feeder has more than 100 customers per mile.
 - A feeder is serving load inside an incorporated city.
 - A feeder is directly adjacent to the UGB with feeder ties into the UGB.
- A feeder is Remote if all conditions above do not apply.

The table below displays the individual feeder performance thresholds based on classification

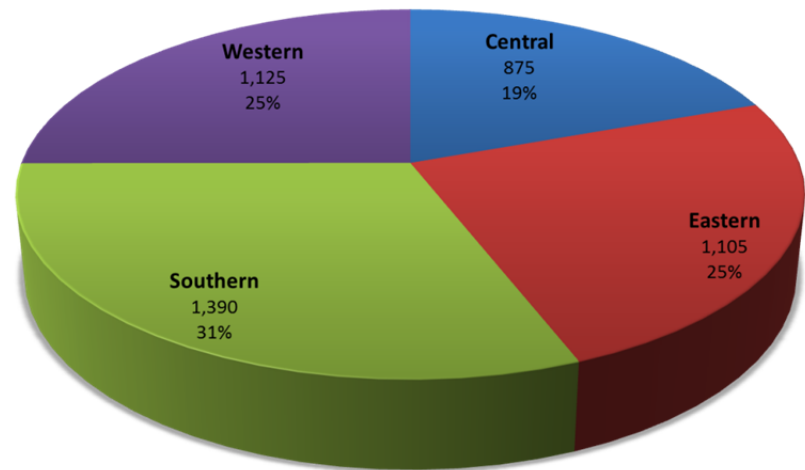
Feeder Classification	SAIDI	SAIFI	MAIFle
Urban (U)	2 hours (120 Minutes)	2.0 Occurrences	5
Rural (R)	5 hours (300 Minutes)	2.6 Occurrences	10
Remote (P/R)	7 hours (420 Minutes)	2.6 Occurrences	15

The graphs shown below indicate system performance for each of PGE's regions:

2013 Regional Performance
Customer Hours



2013 Regional Performance
Outage Events



Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
1	<input type="checkbox"/>	6105013 Urban ABERN-CLACK HTS			54				2
2	<input checked="" type="checkbox"/>	6105023 Urban ABERN-ORE CITY	4,309	7,699	1,964	2.2	235	18	10
3	<input checked="" type="checkbox"/>	6105033 Urban ABERNETHY-TRANSIT	168	365	2,383	0.1	9	17	9
4	<input checked="" type="checkbox"/>	1118013 Urban ALDER CT-ANKENY	2,977	2,652	1,012	2.9	157	6	N/A
5	<input type="checkbox"/>	1118053 Urban ALDER CT-IRVING	67	89	4,260	0.0	1	7	4
6	<input type="checkbox"/>	1118043 Urban ALDER CT-LINCOLN	4,180	3,084	3,480	1.2	53	5	3
7	<input type="checkbox"/>	1118033 Urban ALDER CT-STARK	152	251	0	0.0	0	7	1
8	<input type="checkbox"/>	1118063 Urban ALDER CT-TAYLOR	63	100	275	0.2	22	8	3
9	<input type="checkbox"/>	1118073 Urban ALDER CT-YAMHILL			404				0
10	<input type="checkbox"/>	1125013 Urban ARLETA-52ND ST	407	373	4,643	0.1	5	13	0
11	<input type="checkbox"/>	1125033 Urban ARLETA-FOSTER	40	60	1,878	0.0	2	6	2
12	<input type="checkbox"/>	1125023 Urban ARLETA-HAROLD	550	636	3,205	0.2	12	11	1
13	<input type="checkbox"/>	1125043 Urban ARLETA-POWELL	507	766	3,324	0.2	14	8	0
14	<input type="checkbox"/>	1125053 Urban ARLETA-STEELE	498	398	3,497	0.1	7	8	0
15	<input type="checkbox"/>	1155023 Urban BELL-FLAVEL	135	176	2,001	0.1	5	7	0
16	<input type="checkbox"/>	1155013 Urban BELL-JOHNSEN CRK			10				0
17	<input type="checkbox"/>	1155053 Urban BELL-KENDALL	523	580	1,532	0.3	23	10	0
18	<input type="checkbox"/>	1155063 Urban BELL-KING	101	126	2,264	0.0	3	5	0
19	<input type="checkbox"/>	1155043 Urban BELL-SOUTHGATE			0	0.0	0		0
20	<input type="checkbox"/>	1155033 Urban BELL-WICHITA			0	0.0	0		0
21	<input type="checkbox"/>	1385011 Urban BELMONT 4KV			0	0.0	0		N/A

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
22	<input type="checkbox"/>	1196013 Urban CANYON 13KV	444	2,550	1,590	0.3	96	6	2
23	<input type="checkbox"/>	1196113 Urban CANYON-13114			5				N/A
24	<input type="checkbox"/>	1196123 Urban CANYON-13115			8				N/A
25	<input type="checkbox"/>	1196133 Urban CANYON-13116			3				N/A
26	<input type="checkbox"/>	1196143 Urban CANYON-13117			15				N/A
27	<input type="checkbox"/>	1196153 Urban CANYON-13118PSU			336				N/A
28	<input type="checkbox"/>	1196163 Urban CANYON-13119PSU			146				N/A
29	<input type="checkbox"/>	1196043 Urban CANYON-13120			1,579				N/A
30	<input type="checkbox"/>	1196453 Urban CANYON-13121			5				N/A
31	<input type="checkbox"/>	1196063 Urban CANYON-13122			524				N/A
32	<input type="checkbox"/>	1196073 Urban CANYON-13123			192				N/A
33	<input type="checkbox"/>	1196083 Urban CANYON-13124			128				N/A
34	<input type="checkbox"/>	1196093 Urban CANYON-13125			198				N/A
35	<input type="checkbox"/>	1196173 Urban CANYON-13133			94				N/A
36	<input type="checkbox"/>	1196183 Urban CANYON-13134			94				N/A
37	<input type="checkbox"/>	1196193 Urban CANYON-13135			18				N/A
38	<input checked="" type="checkbox"/>	1196203 Urban CANYON-13136	216	11,268	10	21.6	67,608	1	N/A
39	<input type="checkbox"/>	1196023 Urban CANYON-21ST AVE	277	1,519	2,856	0.1	32	4	1
40	<input checked="" type="checkbox"/>	1196103 Urban CANYON-23RD AVE	3,548	7,044	2,956	1.2	143	12	0
41	<input type="checkbox"/>	1196033 Urban CANYON-BURNSIDE	230	221	2,538	0.1	5	6	0
42	<input type="checkbox"/>	6205023 Urban CLACK-EVELYN	5	25	487	0.0	3	2	3

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
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 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
43	Urban	CLACK-GLADSTONE	406	1,436	2,223	0.2	39	16	0
44	Urban	CLACK-JENNIFER	1	2	579	0.0	0	1	0
45	Urban	CLACK-TOLBERT	75	138	1,277	0.1	6	5	1
46	Urban	CURTIS 13KV	2,002	2,115	1,962	1.0	65	7	0
47	Urban	CURTIS-11077			260				0
48	Urban	DELAWARE-DENVER	356	983	3,494	0.1	17	8	2
49	Urban	DELAWARE-INTER	147	146	648	0.2	14	4	1
50	Urban	DELAWARE-LOMBRD	1,135	4,488	3,905	0.3	69	6	4
51	Urban	E-11021			27				0
52	Urban	E-11039			1				0
53	Urban	E-11040	1	11	199	0.0	3	1	0
54	Urban	E-11041	1	13	298	0.0	3	1	0
55	Urban	E-11042			2				0
56	Urban	E-11043			53				0
57	Urban	E-11047			53				0
58	Urban	E-11064	1	1	20	0.1	4	1	0
59	Urban	E-13139	2	7	711	0.0	1	2	0
60	Urban	E-13140	445	343	1,949	0.2	11	3	0
61	Urban	E-13141			3,205				0
62	Urban	E-13144	366	697	2,625	0.1	16	6	4
63	Urban	E-13145	73	75	702	0.1	6	3	1

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

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MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
64	<input type="checkbox"/>	1225053 Urban E-13148			1,462				0
65	<input type="checkbox"/>	1225063 Urban E-13149	2	23	1,491	0.0	1	2	0
66	<input type="checkbox"/>	1225073 Urban E-13150	169	1,643	947	0.2	104	2	2
67	<input type="checkbox"/>	1231023 Urban EASTPORT-76TH	94	189	3,245	0.0	3	6	0
68	<input type="checkbox"/>	1231013 Urban EASTPORT-PLAZA	511	2,073	1,649	0.3	75	11	0
69	<input type="checkbox"/>	1277013 Urban GLENCOE-GLISAN	500	835	3,148	0.2	16	14	2
70	<input type="checkbox"/>	1277023 Urban GLENCOE-PROVID			1,091				0
71	<input checked="" type="checkbox"/>	1277033 Urban GLENCOE-SUNNY	6,408	12,174	3,042	2.1	240	10	0
72	<input type="checkbox"/>	1278013 Urban GLNCLN-BRIDLMIL	1,783	3,740	2,483	0.7	90	27	3
73	<input type="checkbox"/>	1278023 Urban GLNCLN-SUNSET	358	672	2,407	0.1	17	7	3
74	<input type="checkbox"/>	1385041 Urban GRAND AV 4KV			0	0.0	0		N/A
75	<input type="checkbox"/>	1310023 Rural HABRTN-BURLINTN	943	3,724	1,406	0.7	159	29	3
76	<input checked="" type="checkbox"/>	1310033 Urban HABRTN-LINNTON	662	4,603	425	1.6	650	14	8
77	<input type="checkbox"/>	1310013 Urban HARBORTON 13KV			13				4
78	<input type="checkbox"/>	1313013 Urban HARMONY 13KV	97	109	1,475	0.1	4	7	0
79	<input type="checkbox"/>	1313053 Urban HARMONY-INTERNATIONAL	42	34	1,035	0.0	2	2	0
80	<input type="checkbox"/>	6313033 Urban HARMONY-LAKE	708	1,134	688	1.0	99	4	0
81	<input checked="" type="checkbox"/>	1313033 Urban HARMONY-LINNWOD	2,474	5,516	2,269	1.1	146	8	2
82	<input checked="" type="checkbox"/>	1313023 Urban HARMONY-MILWAKI	3,825	5,829	1,755	2.2	199	14	2
83	<input type="checkbox"/>	1313043 Urban HARMONY-THIESEN	2	9	955	0.0	1	2	2
84	<input type="checkbox"/>	1312053 Urban HARRISON 13KV	47	50	1,173	0.0	3	4	1

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFle Threshold: Remote = 15
 MAIFle Threshold: Rural = 10
 MAIFle Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFle
85	<input type="checkbox"/>	1312043 Urban HARRISON-DAVIS	33	71	1,269	0.0	3	4	1
86	<input type="checkbox"/>	1312013 Urban HARRISON-IVON	53	43	1,649	0.0	2	4	1
87	<input type="checkbox"/>	1325033 Urban HOLGATE 13KV	351	292	3,031	0.1	6	9	0
88	<input checked="" type="checkbox"/>	1325043 Urban HOLGATE-BYBEE	3,333	10,594	2,515	1.3	253	12	1
89	<input type="checkbox"/>	1325013 Urban HOLGATE-GIDEON	380	395	1,075	0.4	22	4	1
90	<input type="checkbox"/>	1325053 Urban HOLGATE-KENLWOR	271	382	2,099	0.1	11	8	1
91	<input type="checkbox"/>	1325023 Urban HOLGATE-RHONE	74	69	2,326	0.0	2	4	0
92	<input checked="" type="checkbox"/>	1316033 Urban HYDN IS-MALAND	163	494	152	1.1	195	4	0
93	<input type="checkbox"/>	1316013 Urban HYDN IS-N SHORE	3	20	1,958	0.0	1	3	1
94	<input type="checkbox"/>	1316023 Urban HYDN IS-S SHORE	23	29	456	0.1	4	1	0
95	<input type="checkbox"/>	1345043 Urban ISLAND 13KV	252	417	370	0.7	68	1	1
96	<input type="checkbox"/>	1345033 Urban ISLAND-13180	174	302	3,078	0.1	6	10	1
97	<input type="checkbox"/>	1345023 Urban ISLAND-13187	669	1,086	3,037	0.2	21	15	1
98	<input checked="" type="checkbox"/>	1345013 Urban ISLAND-13188	2,841	19,557	2,695	1.1	435	8	1
99	<input checked="" type="checkbox"/>	6365023 Urban JEN LDG 13KV	5,579	10,710	2,628	2.1	245	13	2
100	<input type="checkbox"/>	6365033 Urban JEN LDG-MELDRUM	2,568	4,535	2,288	1.1	119	9	1
101	<input type="checkbox"/>	6365013 Urban JEN LDG-O GROVE	142	291	1,348	0.1	13	5	2
102	<input checked="" type="checkbox"/>	6365043 Urban JEN LDG-WEBSTER	3,884	3,533	3,672	1.1	58	31	6
103	<input type="checkbox"/>	1367043 Urban KELLEY POINT-LEDBETTER	2	18	135	0.0	8	2	0
104	<input type="checkbox"/>	1367053 Urban KELLEY POINT-SOLAR1			1				0
105	<input type="checkbox"/>	1367063 Urban KELLEY POINT-SOLAR2			3				0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
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SAIDI Threshold: Remote = 420 Minutes
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MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
106	<input checked="" type="checkbox"/>	1367013 Urban KELLEY PT 13 KV	15	35	15	1.0	140	2	1
107	<input type="checkbox"/>	1367023 Urban KLY PT-MARINEDR			6				0
108	<input type="checkbox"/>	1367033 Urban KLY PT-SIMMONS			38				1
109	<input type="checkbox"/>	6475023 Urban MT PLS-CLAIRMONT	556	1,092	3,023	0.2	22	7	1
110	<input type="checkbox"/>	6475043 Urban MT PLS-MT VIEW	68	168	1,921	0.0	5	1	1
111	<input type="checkbox"/>	6475053 Urban MT PLS-RIVRCRST	160	194	2,003	0.1	6	9	0
112	<input type="checkbox"/>	6475033 Urban MT PLS-SOUTHEND	121	303	3,588	0.0	5	22	1
113	<input type="checkbox"/>	1480063 Urban MULTNOMAH 13KV	1,090	4,101	3,648	0.3	67	10	1
114	<input type="checkbox"/>	1480023 Urban MULTNOMAH-13176	332	608	2,816	0.1	13	11	1
115	<input type="checkbox"/>	1480033 Urban MULTNOMAH-13177	355	857	3,373	0.1	15	10	1
116	<input type="checkbox"/>	1480013 Urban MULTNOMAH-13181	236	1,286	2,326	0.1	33	5	1
117	<input type="checkbox"/>	1495032 Urban NORTHERN-11009	17	24	1,423	0.0	1	3	N/A
118	<input type="checkbox"/>	1495042 Urban NORTHERN-11016	12	15	376	0.0	2	2	N/A
119	<input type="checkbox"/>	1495062 Urban NORTHERN-11071	65	87	1,937	0.0	3	3	N/A
120	<input type="checkbox"/>	1545021 Urban OCKLEY GRN 4KV	17	100	711	0.0	8	1	N/A
121	<input type="checkbox"/>	1558013 Urban PORTSMTH-CARB	165	1,046	2,799	0.1	22	9	2
122	<input type="checkbox"/>	1558053 Urban PORTSMTH-DISP			9				0
123	<input type="checkbox"/>	1558033 Urban PORTSMTH-WILL	2,875	4,249	3,064	0.9	83	8	0
124	<input type="checkbox"/>	1598012 Urban RVRGATE-11010	23	6	23	1.0	16	1	1
125	<input type="checkbox"/>	1598022 Urban RVRGATE-11011	1,266	364	1,206	1.0	18	7	0
126	<input type="checkbox"/>	1598023 Urban RVRGATE-PEARCY	46	12	46	1.0	16	1	0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
127	<input type="checkbox"/>	1598013 Urban RVRGATE-SWIFT	53	14	53	1.0	16	1	0
128	<input type="checkbox"/>	1600033 Urban RVRVIW-FULTON	349	1,222	2,410	0.1	30	10	1
129	<input type="checkbox"/>	1600023 Urban RVRVIW-MACADAM	713	1,000	682	1.0	88	2	1
130	<input checked="" type="checkbox"/>	1600013 Urban RVRVIW-TWILLIGR	505	2,653	1,094	0.5	146	6	1
131	<input type="checkbox"/>	1655033 Urban SELLWD 13KV	3,507	3,343	3,107	1.1	65	10	2
132	<input checked="" type="checkbox"/>	1655013 Urban SELLWD-KELOG PK	2,766	6,934	2,316	1.2	180	13	1
133	<input type="checkbox"/>	1655023 Urban SELLWD-WAVERLY	63	90	1,187	0.1	5	6	2
134	<input type="checkbox"/>	1385032 Urban STEPHN-11001	245	415	229	1.1	109	2	0
135	<input checked="" type="checkbox"/>	1385042 Urban STEPHN-11020	1,296	1,983	630	2.1	189	4	0
136	<input type="checkbox"/>	1385052 Urban STEPHN-11054	38	62	38	1.0	98	1	N/A
137	<input type="checkbox"/>	1385062 Urban STEPHN-11055	46	75	43	1.1	105	1	N/A
138	<input type="checkbox"/>	1385082 Urban STEPHN-11092	110	180	108	1.0	100	1	N/A
139	<input type="checkbox"/>	1385072 Urban STEPHN-11093	189	309	187	1.0	99	1	N/A
140	<input type="checkbox"/>	1385112 Urban STEPHN-11094	7	11	7	1.0	98	1	N/A
141	<input type="checkbox"/>	1385092 Urban STEPHN-11095	125	204	188	0.7	65	1	N/A
142	<input type="checkbox"/>	1385102 Urban STEPHN-11097	124	203	121	1.0	100	1	N/A
143	<input type="checkbox"/>	1385022 Urban STEPHN-11098	45	76	42	1.1	109	2	0
144	<input type="checkbox"/>	1385122 Urban STEPHN-11099	69	113	68	1.0	99	1	N/A
145	<input checked="" type="checkbox"/>	6675013 Urban SULL-ROBINWOOD	679	1,331	2,553	0.3	31	19	6
146	<input checked="" type="checkbox"/>	6675053 Urban SULL-SALAMO	148	452	1,931	0.1	14	5	5
147	<input type="checkbox"/>	6675033 Urban SULL-SUSSEX	251	608	2,945	0.1	12	6	4

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
148	<input type="checkbox"/>	6675043 Rural SULL-WILLAMETTE	514	588	1,514	0.3	23	11	4
149	<input type="checkbox"/>	6675023 Urban SULLIVAN-TANNER	83	122	2,118	0.0	3	5	4
150	<input type="checkbox"/>	1680073 Urban SWAN IS-BASIN			0	0.0	0		0
151	<input type="checkbox"/>	1680123 Urban SWAN IS-DOLPHIN			0	0.0	0		0
152	<input type="checkbox"/>	1680153 Urban SWAN IS-FREIGHTLINER			32				1
153	<input type="checkbox"/>	1680133 Urban SWAN IS-GOING			57				4
154	<input type="checkbox"/>	1680143 Urban SWAN IS-SHIPYRD			0	0.0	0		0
155	<input type="checkbox"/>	1685013 Urban SYLVAN-BARNES	700	2,686	2,695	0.3	60	18	3
156	<input type="checkbox"/>	1685023 Urban SYLVAN-PATTON	435	1,412	2,593	0.2	33	25	4
157	<input type="checkbox"/>	1690023 Urban TABOR 13KV	544	787	3,301	0.2	14	4	0
158	<input type="checkbox"/>	1690013 Urban TABOR-82ND AV	2,487	2,138	2,307	1.1	56	6	1
159	<input type="checkbox"/>	1690033 Urban TABOR-HOSPITAL	3	2	1,094	0.0	0	3	0
160	<input checked="" type="checkbox"/>	1707103 Urban TEMP-NORTH	25	41	15	1.7	163	1	N/A
161	<input type="checkbox"/>	1707113 Urban TEMP-SOUTH	250	430	289	0.9	89	1	N/A
162	<input type="checkbox"/>	6696023 Urban TNCTR-LAWNFIELD	1,787	2,118	1,773	1.0	72	2	0
163	<input type="checkbox"/>	6696053 Urban TNCTR-MONTEREY	276	585	3,877	0.1	9	7	4
164	<input type="checkbox"/>	6696073 Urban TNCTR-NORTH 13KV			8				0
165	<input type="checkbox"/>	6696043 Urban TNCTR-PRECISION			3				0
166	<input type="checkbox"/>	6696013 Urban TNCTR-SOUTH 13KV			14				0
167	<input type="checkbox"/>	6696063 Urban TNCTR-SUNNYBROOK	1,077	1,668	1,067	1.0	94	3	2
168	<input type="checkbox"/>	6696033 Urban TNCTR-VALLEY VW			225				0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
169	<input type="checkbox"/>	6699033 Rural TWILIGHT-BREMER	1,788	3,002	1,129	1.6	160	23	0
170	<input type="checkbox"/>	1707053 Urban URBAN-BARBUR	303	1,163	1,331	0.2	52	6	0
171	<input type="checkbox"/>	1707083 Urban URBAN-CAMPUS			34				0
172	<input checked="" type="checkbox"/>	1707013 Urban URBAN-CORBETT	440	3,582	1,329	0.3	162	2	0
173	<input type="checkbox"/>	1707063 Urban URBAN-GAINES	18	28	1,057	0.0	2	2	1
174	<input type="checkbox"/>	1707043 Urban URBAN-GIBBS	13	15	819	0.0	1	2	1
175	<input type="checkbox"/>	1707073 Urban URBAN-KELLY	330	2,077	1,281	0.3	97	3	0
176	<input type="checkbox"/>	1707023 Urban URBAN-LANDING			1,346				0
177	<input type="checkbox"/>	1707033 Urban URBAN-MEDICAL			122				1
178	<input type="checkbox"/>	1707093 Urban URBAN-OHSU			18				0
179	<input type="checkbox"/>	1743013 Urban WACKER			4				N/A
180	<input type="checkbox"/>	1741012 Urban WILLBRDG #1	1	5	120	0.0	3	1	0
181	<input checked="" type="checkbox"/>	1741042 Urban WILLBRDG #4	97	974	94	1.0	622	3	0

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
SAIFI Threshold: Rural = 2.60
SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
SAIDI Threshold: Rural = 300 Minutes
SAIDI Threshold: Urban = 120 Minutes

MAIFle Threshold: Remote = 15
MAIFle Threshold: Rural = 10
MAIFle Threshold: Urban = 5

CENTRAL

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFle
CENTRAL Totals:			93,739	204,882	228,061			875	

Total Customer Momentary Events: 346,775

Total MAIFle Customers: 218,179

MAIFle Value: 1.59
SAIFI Value: 0.41
SAIDI Value: 54

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

EASTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
182	<input type="checkbox"/>	5156033 Urban B LAKE-SUNDIAL	7	34	500	0.0	4	2	1
183	<input type="checkbox"/>	5156023 Urban B LAKE-TOYOTNSO			20				0
184	<input type="checkbox"/>	5156013 Urban BLUE LAKE 13 KV	2,375	2,738	2,295	1.0	72	5	0
185	<input type="checkbox"/>	5177033 Rural BORING-282ND AV	178	411	2,350	0.1	11	12	0
186	<input type="checkbox"/>	5177023 Remote BORING-CITY	1,626	1,715	1,368	1.2	75	18	0
187	<input type="checkbox"/>	5177013 Rural BORING-TELFORD	450	1,379	1,411	0.3	59	22	1
188	<input checked="" type="checkbox"/>	5174013 Remote BRIGHTWD 13KV	5,069	11,689	986	5.1	711	33	16
189	<input type="checkbox"/>	5174023 Remote BRIGHTWD-N BANK	448	1,484	790	0.6	113	16	11
190	<input type="checkbox"/>	5198013 Urban CARVER 13 KV	2,571	3,582	2,036	1.3	106	29	1
191	<input type="checkbox"/>	5198033 Urban CARVER-ALMOND	117	198	1,962	0.1	6	4	0
192	<input type="checkbox"/>	5198053 Urban CARVER-NORTH	233	1,201	1,644	0.1	44	4	0
193	<input type="checkbox"/>	5198023 Urban CARVER-RIVRBEND			84				0
194	<input type="checkbox"/>	5198063 Urban CARVER-SOUTH	1	1	127	0.0	0	1	0
195	<input type="checkbox"/>	5198043 Urban CARVER-WOODS	231	170	2,454	0.1	4	2	1
196	<input type="checkbox"/>	5202033 Urban CNTNNIL 13KV	963	2,529	3,298	0.3	46	21	0
197	<input type="checkbox"/>	5202053 Urban CNTNNIL-BARKER	357	471	2,757	0.1	10	6	0
198	<input type="checkbox"/>	5202043 Urban CNTNNIL-BRACRFT	2,295	2,874	1,928	1.2	89	11	0
199	<input checked="" type="checkbox"/>	5202063 Urban CNTNNIL-TREEAND	5,123	10,601	3,304	1.6	193	13	0
200	<input checked="" type="checkbox"/>	5218013 Remote DUNNS C 13 KV	3,009	3,877	1,817	1.7	128	35	18
201	<input type="checkbox"/>	5218023 Rural DUNNS C-KELSO	362	422	338	1.1	75	2	2
202	<input type="checkbox"/>	5230013 Remote EAGLE CR-BARTON	206	356	868	0.2	25	8	2

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

EASTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
203	<input checked="" type="checkbox"/>	5230023 Remote EAGLE CR-RIVRML	3,234	5,349	775	4.2	414	24	2
204	<input type="checkbox"/>	5237023 Rural ESTACADA 13KV	1,175	2,085	1,628	0.7	77	10	1
205	<input type="checkbox"/>	5237013 Rural ESTACADA-FARADY	3,158	6,701	3,412	0.9	118	41	1
206	<input checked="" type="checkbox"/>	5251053 Urban FAIRVIEW 13 KV	1,580	5,116	1,468	1.1	209	3	1
207	<input type="checkbox"/>	5251033 Urban FAIRVIEW-CLRCK			273				0
208	<input type="checkbox"/>	5251013 Urban FAIRVIEW-K CLUB	242	505	2,526	0.1	12	10	1
209	<input checked="" type="checkbox"/>	5251043 Urban FAIRVIEW-TROUTD	5,370	16,281	3,572	1.5	273	4	1
210	<input checked="" type="checkbox"/>	5251023 Urban FAIRVIEW-W VILL	2,485	7,391	1,910	1.3	232	14	1
211	<input type="checkbox"/>	5260013 Urban GLISAN-FAB 2A			1				N/A
212	<input type="checkbox"/>	5260083 Urban GLISAN-UTIL 1B			1				N/A
213	<input type="checkbox"/>	5280013 Urban GLNDOVEER-13596	68	198	885	0.1	13	7	0
214	<input type="checkbox"/>	5280023 Urban GLNDOVEER-13597	83	334	1,322	0.1	15	3	0
215	<input type="checkbox"/>	5280033 Urban GLNDOVEER-13598	313	799	1,950	0.2	25	12	0
216	<input type="checkbox"/>	5280043 Urban GLNDOVEER-13599	76	141	2,070	0.0	4	4	0
217	<input type="checkbox"/>	5280053 Urban GLNDOVEER-CLFGT	458	1,152	2,006	0.2	34	8	1
218	<input type="checkbox"/>	5280063 Urban GLNDOVEER-NEAST	8	36	1,558	0.0	1	2	0
219	<input type="checkbox"/>	5317013 Urban HEMLOCK 13KV	315	835	2,064	0.2	24	7	0
220	<input type="checkbox"/>	5317023 Urban HEMLOCK-FREMONT	279	564	1,489	0.2	23	3	0
221	<input type="checkbox"/>	5317033 Urban HEMLOCK-MASON			634				0
222	<input type="checkbox"/>	5323043 Urban HOGAN N 13KV	575	1,019	2,596	0.2	24	10	0
223	<input type="checkbox"/>	5323023 Urban HOGAN N-BRGDOON	549	2,187	2,824	0.2	46	2	1

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

EASTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
224	<input checked="" type="checkbox"/>	5323033 Urban HOGAN N-LINKS	2,409	12,684	3,503	0.7	217	36	0
225	<input type="checkbox"/>	5323013 Urban HOGAN N-SLQUIST	584	1,219	2,909	0.2	25	12	1
226	<input checked="" type="checkbox"/>	5324013 Urban HOGAN S-CLEVLND	4,698	10,891	2,237	2.1	292	5	0
227	<input type="checkbox"/>	5324023 Urban HOGAN S-LAWRNCE	500	2,063	3,631	0.1	34	15	1
228	<input type="checkbox"/>	5324033 Urban HOGAN S-MAIN	2,741	1,572	2,533	1.1	37	4	0
229	<input type="checkbox"/>	5324043 Urban HOGAN S-PAROPA	3,070	5,693	2,978	1.0	115	6	0
230	<input checked="" type="checkbox"/>	5324053 Urban HOGAN S-WALLULA	3,814	7,599	2,981	1.3	153	7	0
231	<input checked="" type="checkbox"/>	1370023 Urban KLY BU-BINNSMED	6,714	16,229	3,210	2.1	303	9	3
232	<input type="checkbox"/>	1370033 Urban KLY BU-FAIRLAWN	1,352	2,794	1,401	1.0	120	6	0
233	<input checked="" type="checkbox"/>	1370043 Urban KLY BU-MALL 205	7,117	10,871	2,699	2.6	242	15	0
234	<input type="checkbox"/>	1370013 Urban KLY BU-MC GREW	112	235	2,633	0.0	5	6	4
235	<input type="checkbox"/>	6402013 Rural LELAND-BEAVERC	377	799	2,862	0.1	17	24	0
236	<input checked="" type="checkbox"/>	6402023 Remote LELAND-CARUS	8,184	14,460	2,275	3.6	381	38	0
237	<input type="checkbox"/>	6402033 Urban LELAND-KELM	29	84	1,802	0.0	3	5	0
238	<input type="checkbox"/>	1405013 Urban LENTS-13101	335	659	4,564	0.1	9	16	0
239	<input type="checkbox"/>	1405043 Urban LENTS-HAPPY VAL	1,598	4,598	2,980	0.5	93	8	0
240	<input checked="" type="checkbox"/>	1405023 Urban LENTS-MT SCOTT	230	343	1,496	0.2	14	13	8
241	<input type="checkbox"/>	1405033 Urban LENTS-NORTH	31	187	1,533	0.0	7	3	0
242	<input type="checkbox"/>	5440023 Urban MCGILL-LSIAIR1A			1				N/A
243	<input checked="" type="checkbox"/>	5455013 Urban MIDWAY-DIVISION	5,699	15,230	4,203	1.4	217	11	0
244	<input type="checkbox"/>	5455023 Urban MIDWAY-DOUGLAS	49	243	2,515	0.0	6	2	0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
SAIFI Threshold: Rural = 2.60
SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
SAIDI Threshold: Rural = 300 Minutes
SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
MAIFIE Threshold: Rural = 10
MAIFIE Threshold: Urban = 5

EASTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
245	<input type="checkbox"/>	5455033 Urban MIDWAY-LYNCH	607	2,511	2,347	0.3	64	12	0
246	<input type="checkbox"/>	5455043 Urban MIDWAY-POWELHST	573	993	3,595	0.2	17	17	0
247	<input type="checkbox"/>	5515013 Remote OK GRV-LK HARRT	21	15	97	0.2	9	1	N/A
248	<input type="checkbox"/>	5515023 Remote OK GRV-WT WATER			27				N/A
249	<input checked="" type="checkbox"/>	5517013 Rural ORIENT 13KV	784	4,423	834	0.9	318	33	1
250	<input checked="" type="checkbox"/>	5517023 Rural ORIENT-BARLOW	2,122	7,388	1,459	1.5	304	24	0
251	<input type="checkbox"/>	1545011 Urban PENIN PARK 4KV	12	23	968	0.0	1	2	N/A
252	<input checked="" type="checkbox"/>	5553013 Urban PLSNT VALY 13KV	722	1,978	901	0.8	132	13	11
253	<input type="checkbox"/>	5553023 Urban PLSNT VALY-BXTR	87	408	3,823	0.0	6	10	1
254	<input type="checkbox"/>	5553033 Urban PLSNT VALY-MOON	2,082	2,945	1,879	1.1	94	6	4
255	<input type="checkbox"/>	5553043 Urban PLSNT VALY-SUN	4,148	4,783	2,455	1.7	117	18	2
256	<input type="checkbox"/>	1557911 Urban PORTLAND GRD W PUMPING			4				N/A
257	<input type="checkbox"/>	5575033 Urban RAMAPO 13KV	215	952	2,955	0.1	19	18	0
258	<input type="checkbox"/>	5575013 Urban RAMAPO-GILBERT	354	609	3,204	0.1	11	12	0
259	<input type="checkbox"/>	6581013 Remote REDLAND 13KV	4,132	17,499	2,923	1.4	359	33	0
260	<input type="checkbox"/>	6581023 Rural REDLAND-HENRICI	2,220	4,446	1,842	1.2	145	38	0
261	<input type="checkbox"/>	5602013 Urban ROCKWD 13KV	235	431	3,424	0.1	8	14	1
262	<input type="checkbox"/>	5602053 Urban ROCKWD-AIRPT WY			7				0
263	<input type="checkbox"/>	5602063 Urban ROCKWD-BOEING			1				0
264	<input type="checkbox"/>	5602023 Urban ROCKWD-INDUSTRAL			136				0
265	<input type="checkbox"/>	5602033 Urban ROCKWD-REYNOLDS	2,006	2,120	1,645	1.2	77	8	0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFle Threshold: Remote = 15
 MAIFle Threshold: Rural = 10
 MAIFle Threshold: Urban = 5

EASTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFle
266	<input type="checkbox"/>	5602043 Urban ROCKWD-WILKES			44				0
267	<input type="checkbox"/>	5610013 Urban RUBY-13502	230	723	2,646	0.1	16	17	N/A
268	<input type="checkbox"/>	5610023 Urban RUBY-13503	69	298	1,686	0.0	11	6	N/A
269	<input type="checkbox"/>	5640033 Rural SANDY 13KV	2,208	11,554	2,415	0.9	287	48	2
270	<input type="checkbox"/>	5640043 Rural SANDY-362ND	753	2,497	1,481	0.5	101	22	0
271	<input type="checkbox"/>	5640013 Rural SANDY-BLUFF	1,279	891	1,213	1.1	44	6	0
272	<input type="checkbox"/>	5640023 Rural SANDY-WILDCAT	4,772	12,525	2,758	1.7	272	33	0
273	<input type="checkbox"/>	1676913 Urban SULZER 115A			0	0.0	0		N/A
274	<input type="checkbox"/>	1676914 Urban SULZER 115B			2				N/A
275	<input type="checkbox"/>	1676912 Urban SULZER BINGHAM			0	0.0	0		N/A
276	<input type="checkbox"/>	5677023 Remote SUMMIT-GOVT CAMP	1,134	1,335	501	2.3	160	4	3
277	<input type="checkbox"/>	5677013 Remote SUMMIT-MEADOWS	31	83	15	2.1	332	4	3
278	<input checked="" type="checkbox"/>	5677033 Remote SUMMIT-SUMMIT	691	3,278	270	2.6	729	10	6
279	<input type="checkbox"/>	5727013 Remote WELCHES 13KV	2,625	3,083	1,795	1.5	103	23	0
280	<input checked="" type="checkbox"/>	5727023 Remote WELCHES-ZIG ZAG	4,017	5,596	1,458	2.8	230	24	0

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
SAIFI Threshold: Rural = 2.60
SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
SAIDI Threshold: Rural = 300 Minutes
SAIDI Threshold: Urban = 120 Minutes

MAIFle Threshold: Remote = 15
MAIFle Threshold: Rural = 10
MAIFle Threshold: Urban = 5

EASTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFle
EASTERN Totals:			133,358	298,263	173,057			1,105	

Total Customer Momentary Events: 163,967

Total MAIFle Customers: 167,624

MAIFle Value: 0.98
SAIFI Value: 0.77
SAIDI Value: 103

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

SOUTHERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
281	<input type="checkbox"/>	2120013 Rural AMITY 13KV	547	2,261	1,287	0.4	105	36	0
282	<input type="checkbox"/>	2120023 Remote AMITY-BELLEVUE	954	6,697	1,017	0.9	395	26	0
283	<input type="checkbox"/>	2140043 Urban BARNES-BATTLCRK	1	0	491	0.0	0	1	0
284	<input type="checkbox"/>	2140013 Urban BARNES-BOONE	2	6	1,714	0.0	0	2	0
285	<input type="checkbox"/>	2140023 Urban BARNES-COMMERCL	5	29	3,212	0.0	1	4	0
286	<input type="checkbox"/>	2140033 Urban BARNES-SUNNYSID	429	483	3,240	0.1	9	6	0
287	<input type="checkbox"/>	2151023 Urban BETHEL-FRUTLAND	168	686	2,766	0.1	15	9	0
288	<input type="checkbox"/>	2151033 Rural BETHEL-GEER	456	1,089	1,513	0.3	43	18	0
289	<input type="checkbox"/>	2151013 Urban BETHEL-MCLAY	50	213	1,802	0.0	7	6	0
290	<input type="checkbox"/>	6190013 Remote CANBY-13643	1,602	9,384	1,495	1.1	377	37	1
291	<input type="checkbox"/>	6190023 Remote CANBY-13644	227	518	441	0.5	70	8	1
292	<input type="checkbox"/>	6190043 Remote CANBY-BUTTEVLE	89	141	1,165	0.1	7	11	1
293	<input checked="" type="checkbox"/>	2207013 Urban CLAXTAR 13KV	348	1,094	338	1.0	194	3	0
294	<input type="checkbox"/>	2207023 Urban CLAXTAR-HAYSVIL	275	595	1,970	0.1	18	8	0
295	<input type="checkbox"/>	2207033 Urban CLAXTAR-RIDGE	118	303	1,879	0.1	10	6	0
296	<input type="checkbox"/>	6208013 Remote COLTON-DHOOGHE	48	216	589	0.1	22	7	4
297	<input type="checkbox"/>	6208023 Remote COLTON-GRAYS HL	422	994	1,072	0.4	56	15	4
298	<input type="checkbox"/>	2211143 Remote CULVER 13KV			0	0.0	0		N/A
299	<input type="checkbox"/>	2211113 Remote CULVER-GAFFIN			0	0.0	0		N/A
300	<input type="checkbox"/>	2211123 Urban CULVER-SANYO #1			3				N/A
301	<input type="checkbox"/>	2211133 Urban CULVER-SANYO #2			0	0.0	0		N/A

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

SOUTHERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
302	<input type="checkbox"/>	4220013 Rural DAYTON-EAST	88	187	1,452	0.1	8	27	0
303	<input type="checkbox"/>	4220033 Rural DAYTON-LAFAYETT	203	671	1,808	0.1	22	19	0
304	<input type="checkbox"/>	4220023 Rural DAYTON-S AND W	13	37	439	0.0	5	11	0
305	<input type="checkbox"/>	2233013 Urban ELMA 13KV	154	531	1,300	0.1	25	6	0
306	<input type="checkbox"/>	2233023 Urban ELMA-4 CORNERS	1,214	2,006	2,596	0.5	46	16	0
307	<input type="checkbox"/>	2233043 Urban ELMA-HUDSON	569	1,586	2,156	0.3	44	10	0
308	<input type="checkbox"/>	2233033 Urban ELMA-STATE 13KV	6	10	346	0.0	2	1	1
309	<input type="checkbox"/>	2250013 Urban FAIRMT-CNDLARIA	302	1,017	2,868	0.1	21	13	0
310	<input type="checkbox"/>	2250023 Urban FAIRMT-MISSION	172	445	2,355	0.1	11	17	0
311	<input type="checkbox"/>	2253013 Rural FARGO 13KV	1,981	5,400	1,709	1.2	190	26	0
312	<input type="checkbox"/>	2285033 Remote GRND RND-AGENCY	370	1,437	579	0.6	149	11	N/A
313	<input type="checkbox"/>	2285023 Remote GRND RND-FORTHL	341	949	709	0.5	80	14	N/A
314	<input checked="" type="checkbox"/>	2318023 Urban HILLCREST 13KV	193	766	188	1.0	244	1	0
315	<input type="checkbox"/>	2318033 Urban HILLCREST-CASCADIA			10				0
316	<input type="checkbox"/>	2318043 Urban HILLCREST-REED	829	2,741	1,666	0.5	99	4	1
317	<input checked="" type="checkbox"/>	2318223 Urban HILLCREST-SOUTH	88	132	43	2.0	184	4	1
318	<input type="checkbox"/>	2340023 Rural INDIAN-KEIZER	481	776	1,993	0.2	23	11	0
319	<input type="checkbox"/>	2340013 Urban INDIAN-LABISH	85	54	2,126	0.0	2	12	0
320	<input type="checkbox"/>	2340043 Urban INDIAN-NORTH	58	96	3,102	0.0	2	12	0
321	<input type="checkbox"/>	2340033 Urban INDIAN-STATION	81	129	1,349	0.1	6	3	0
322	<input type="checkbox"/>	2340053 Urban INDIAN-WEST	4,212	5,178	3,476	1.2	89	20	1

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

SOUTHERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
323	<input type="checkbox"/>	2400911 Rural LAKE LABISH 4KV			1				N/A
324	<input type="checkbox"/>	2410013 Urban LIB-BROWNING	41	80	637	0.1	8	1	0
325	<input type="checkbox"/>	2410043 Urban LIB-LONE OAK	143	321	2,420	0.1	8	6	0
326	<input type="checkbox"/>	2410053 Urban LIB-MORNINGSIDE	392	606	2,287	0.2	16	12	0
327	<input type="checkbox"/>	2410023 Urban LIB-ROSEDALE	106	431	2,227	0.0	12	9	0
328	<input type="checkbox"/>	2410033 Urban LIB-VISTA	99	493	1,961	0.1	15	8	1
329	<input type="checkbox"/>	6464013 Remote LIBERAL 13KV	87	202	1,066	0.1	11	12	0
330	<input type="checkbox"/>	6464023 Remote LIBERAL-SAWMILL			1				0
331	<input type="checkbox"/>	2410063 Urban LIBERTY-SKYLINE	715	2,152	2,967	0.2	44	23	0
332	<input type="checkbox"/>	2435033 Urban MC CL-COTTAGE	55	44	1,506	0.0	2	5	0
333	<input type="checkbox"/>	2435013 Urban MC CL-FRONT ST	133	270	1,010	0.1	16	4	0
334	<input type="checkbox"/>	2435043 Urban MC CL-HOLLYWOOD	80	242	1,283	0.1	11	4	0
335	<input type="checkbox"/>	2900013 Rural MCMINNVILLE W AND L	49	80	51	1.0	94	1	N/A
336	<input type="checkbox"/>	2450023 Urban MIDGROVE-BROWN	309	713	2,051	0.2	21	13	0
337	<input type="checkbox"/>	2450043 Urban MIDGROVE-CHEMEK	74	85	1,076	0.1	5	5	0
338	<input type="checkbox"/>	2450033 Urban MIDGROVE-CORDON	221	333	2,764	0.1	7	9	2
339	<input type="checkbox"/>	2450013 Urban MIDGROVE-SWEGLE	17	10	2,122	0.0	0	1	0
340	<input type="checkbox"/>	2450053 Urban MIDGROVE-WEST	524	1,840	3,462	0.2	32	8	0
341	<input type="checkbox"/>	2540033 Urban MILL CREEK 13KV	98	440	513	0.2	51	6	1
342	<input type="checkbox"/>	2540013 Rural MILL CREEK-EASTLAND	85	302	1,209	0.1	15	20	0
343	<input type="checkbox"/>	2540023 Urban MILL CREEK-KUEBLER			554				0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

SOUTHERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
344	<input type="checkbox"/>	6466023 Rural MOLALLA-BUCKAROO	46	265	2,506	0.0	6	6	0
345	<input type="checkbox"/>	6466043 Rural MOLALLA-FOREST	245	879	1,553	0.2	34	16	1
346	<input type="checkbox"/>	6466013 Remote MOLALLA-MARQUAM	671	1,422	1,424	0.5	60	34	0
347	<input type="checkbox"/>	6466033 Rural MOLALLA-YODER	854	1,235	1,538	0.6	48	16	0
348	<input type="checkbox"/>	2425013 Urban MRKT ST-ENGLEWD	153	322	1,328	0.1	15	4	1
349	<input type="checkbox"/>	2425033 Urban MRKT ST-FAIRGND	184	319	1,970	0.1	10	6	0
350	<input type="checkbox"/>	2425023 Urban MRKT ST-HAWTHNE	231	328	1,203	0.2	16	7	0
351	<input type="checkbox"/>	2425043 Urban MRKT ST-PARK	242	1,220	1,112	0.2	66	4	0
352	<input type="checkbox"/>	2470013 Rural MT ANGEL-EAST	2	17	588	0.0	2	2	0
353	<input type="checkbox"/>	2470023 Rural MT ANGEL-WEST	210	1,004	1,651	0.1	37	33	0
354	<input type="checkbox"/>	6478013 Remote MULINO-NORTH	32	30	384	0.1	5	4	3
355	<input type="checkbox"/>	6478023 Remote MULINO-SOUTH	108	238	911	0.1	16	6	2
356	<input type="checkbox"/>	2505033 Urban N MARION FRONT	1	1	524	0.0	0	1	0
357	<input type="checkbox"/>	2505043 Urban N MARION-CROSBY	738	3,039	2,091	0.4	87	15	0
358	<input type="checkbox"/>	2505013 Rural N MARION-HUBBRD	457	245	765	0.6	19	5	2
359	<input type="checkbox"/>	2505023 Urban N MARION-MCLARN	265	695	1,844	0.1	23	17	2
360	<input type="checkbox"/>	4485033 Rural NEWBERG-CHEHALM	1,050	2,895	3,131	0.3	55	35	0
361	<input type="checkbox"/>	4485043 Urban NEWBERG-COLLEGE	49	229	2,552	0.0	5	7	0
362	<input type="checkbox"/>	4485023 Rural NEWBERG-DUNDEE	419	1,453	2,416	0.2	36	23	0
363	<input type="checkbox"/>	4485053 Urban NEWBERG-HOOVR PK	59	126	1,577	0.0	5	4	0
364	<input type="checkbox"/>	2523043 Urban OXFORD 13KV	271	810	974	0.3	50	8	0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

SOUTHERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
365	<input type="checkbox"/>	2523013 Urban OXFORD-FAIRVIEW	122	491	1,922	0.1	15	3	0
366	<input type="checkbox"/>	2523063 Urban OXFORD-LEE	146	235	858	0.2	16	9	1
367	<input type="checkbox"/>	2523033 Urban OXFORD-MADRONA	4	36	289	0.0	8	1	0
368	<input type="checkbox"/>	2523053 Urban OXFORD-RURAL			130				0
369	<input type="checkbox"/>	2523023 Urban OXFORD-SHELTON	27	41	729	0.0	3	1	0
370	<input type="checkbox"/>	2637013 Urban SALEM-13260			65				N/A
371	<input type="checkbox"/>	2637023 Urban SALEM-13261			81				N/A
372	<input type="checkbox"/>	2637033 Urban SALEM-13262			104				N/A
373	<input type="checkbox"/>	2637043 Urban SALEM-13263			218				N/A
374	<input type="checkbox"/>	2637063 Urban SALEM-13264			9				N/A
375	<input type="checkbox"/>	2637053 Urban SALEM-UNION	41	175	238	0.2	44	1	N/A
376	<input type="checkbox"/>	2652013 Remote SCOTSMILL 13KV	554	1,829	1,764	0.3	62	35	0
377	<input type="checkbox"/>	2660023 Urban SHERIDAN EAST	191	668	1,227	0.2	33	11	0
378	<input type="checkbox"/>	2660013 Urban SHERIDAN-KADELL	171	407	1,600	0.1	15	9	0
379	<input type="checkbox"/>	2665013 Rural SILVERTON-NORTH	974	1,070	2,803	0.3	23	18	0
380	<input type="checkbox"/>	2665023 Rural SILVERTON-SOUTH	1,434	3,693	2,247	0.6	99	19	1
381	<input type="checkbox"/>	2665033 Rural SILVERTON-WEST	2,972	6,946	1,787	1.7	233	40	0
382	<input type="checkbox"/>	4671913 Urban SMURFIT-NEWBERG			1				N/A
383	<input type="checkbox"/>	4672043 Urban SPRINGBK-FERNWD	215	1,412	1,625	0.1	52	8	0
384	<input type="checkbox"/>	4672023 Rural SPRINGBK-STPAUL	549	1,693	893	0.6	114	23	0
385	<input type="checkbox"/>	4672013 Urban SPRINGBK-VILLA	388	769	1,853	0.2	25	6	0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFle Threshold: Remote = 15
 MAIFle Threshold: Rural = 10
 MAIFle Threshold: Urban = 5

SOUTHERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFle
386	<input type="checkbox"/>	4672063 Urban SPRINGBK-ZIMRI	404	1,155	1,363	0.3	51	17	0
387	<input type="checkbox"/>	2630013 Urban ST LOUIS-EAST	63	41	1,796	0.0	1	4	0
388	<input type="checkbox"/>	2630033 Rural ST LOUIS-NORTH	18	52	770	0.0	4	11	1
389	<input type="checkbox"/>	2630023 Rural ST LOUIS-WEST	938	1,624	894	1.0	109	29	1
390	<input type="checkbox"/>	2698013 Rural TURNER 13KV	87	365	1,215	0.1	18	12	0
391	<input type="checkbox"/>	2698023 Rural TURNER-CASCADE	907	2,425	841	1.1	173	19	0
392	<input type="checkbox"/>	4700013 Remote UNIONVALE 13KV	697	1,409	1,324	0.5	64	50	1
393	<input checked="" type="checkbox"/>	2705013 Urban UNIVRSITY-MILL	853	950	412	2.1	138	5	0
394	<input checked="" type="checkbox"/>	2705023 Urban UNIVRSITY-TRADE	2,699	7,395	2,509	1.1	177	10	1
395	<input type="checkbox"/>	2720013 Rural WACONDA 13KV	645	2,168	1,946	0.3	67	28	0
396	<input type="checkbox"/>	2720033 Remote WACONDA-NORPAC	1	15	14	0.1	64	1	1
397	<input type="checkbox"/>	2720023 Remote WACONDA-RIVER RD	188	457	513	0.4	53	15	0
398	<input type="checkbox"/>	2725013 Rural WALLACE RD 13KV	643	1,414	1,783	0.4	48	44	1
399	<input type="checkbox"/>	2740033 Rural WILLAMINA-BRIDGE	132	131	1,270	0.1	6	12	0
400	<input type="checkbox"/>	2740023 Rural WILLAMINA-BUELL	682	1,207	639	1.1	113	9	0
401	<input type="checkbox"/>	2740013 Rural WILLAMINA-LUMBER			10				1
402	<input type="checkbox"/>	2753033 Urban WOODBURN-CANNERY	38	49	1,468	0.0	2	3	2
403	<input checked="" type="checkbox"/>	2753013 Rural WOODBURN-EAST	386	2,187	402	1.0	326	13	2
404	<input checked="" type="checkbox"/>	2753023 Urban WOODBURN-TOMLIN	2,434	5,513	1,602	1.5	206	12	2
405	<input type="checkbox"/>	2753043 Urban WOODBURN-WEST	2,572	3,239	2,176	1.2	89	13	2
406	<input type="checkbox"/>	4760013 Rural YAMHILL 13KV	793	2,787	1,714	0.5	98	30	0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
SAIFI Threshold: Rural = 2.60
SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
SAIDI Threshold: Rural = 300 Minutes
SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
MAIFIE Threshold: Rural = 10
MAIFIE Threshold: Urban = 5

SOUTHERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
407 <input type="checkbox"/>	Rural	YAMHILL-CARLTON	1,516	3,616	1,903	0.8	114	28	0

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
SAIFI Threshold: Rural = 2.60
SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
SAIDI Threshold: Rural = 300 Minutes
SAIDI Threshold: Urban = 120 Minutes

MAIFle Threshold: Remote = 15
MAIFle Threshold: Rural = 10
MAIFle Threshold: Urban = 5

SOUTHERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFle
SOUTHERN Totals:			51,174	131,936	168,481			1,390	

Total Customer Momentary Events: 56,056

Total MAIFle Customers: 166,422

MAIFle Value: 0.34

SAIFI Value: 0.30

SAIDI Value: 47

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFle Threshold: Remote = 15
 MAIFle Threshold: Rural = 10
 MAIFle Threshold: Urban = 5

WESTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFle
410	<input type="checkbox"/>	4135013 Rural BANKS 13KV	250	611	620	0.4	59	22	1
411	<input type="checkbox"/>	4135023 Rural BANKS-CEDAR CYN	1,043	1,874	1,738	0.6	65	26	0
412	<input type="checkbox"/>	4157043 Urban BETHANY-BURTON	83	402	2,888	0.0	8	9	0
413	<input type="checkbox"/>	4157013 Urban BETHANY-GERMANTOWN	189	275	3,340	0.1	5	6	0
414	<input type="checkbox"/>	4157023 Urban BETHANY-KAISER	4,724	5,410	4,117	1.1	79	14	0
415	<input type="checkbox"/>	4157053 Urban BETHANY-LAIDLAW	354	1,059	2,523	0.1	25	6	0
416	<input type="checkbox"/>	4157063 Urban BETHANY-SPRINGVILLE	1,184	3,134	1,866	0.6	101	8	1
417	<input type="checkbox"/>	4157033 Urban BETHANY-THOMPSON	210	560	1,086	0.2	31	7	0
418	<input type="checkbox"/>	1170043 Urban BOONS-GOODALL	477	2,126	1,694	0.3	75	12	2
419	<input type="checkbox"/>	1170013 Urban BOONS-KRUSEWAY	57	89	1,737	0.0	3	2	4
420	<input type="checkbox"/>	1170033 Urban BOONS-LK GROVE	1,082	1,517	2,354	0.5	39	13	3
421	<input checked="" type="checkbox"/>	1170053 Urban BOONS-MT PARK	2,677	5,415	2,538	1.1	128	7	1
422	<input type="checkbox"/>	1170023 Urban BOONS-WMBLY PK	313	717	1,528	0.2	28	9	3
423	<input type="checkbox"/>	4185013 Urban BROOKWOOD 13KV			1,009				0
424	<input checked="" type="checkbox"/>	4185023 Urban BROOKWOOD-BRWCK	3,161	5,826	2,583	1.2	135	7	0
425	<input type="checkbox"/>	4185033 Urban BROOKWOOD-SUNRS	34	120	1,946	0.0	4	4	0
426	<input type="checkbox"/>	4150013 Urban BVRTN-ALLEN	103	212	2,924	0.0	4	6	1
427	<input type="checkbox"/>	4150023 Urban BVRTN-JAMIESON	198	299	713	0.3	25	2	0
428	<input type="checkbox"/>	4150033 Urban BVRTN-NORTHWEST	203	393	1,276	0.2	18	3	0
429	<input checked="" type="checkbox"/>	4150053 Urban BVRTN-W SLOPE	2,357	6,770	2,182	1.1	186	4	1
430	<input type="checkbox"/>	4200033 Urban CEDAR HILLS 13KV			1				3

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

WESTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
431	<input type="checkbox"/>	4200063 Urban CEDAR-LEAHY	462	1,834	2,664	0.2	41	15	3
432	<input type="checkbox"/>	4200013 Urban CEDAR-SHOP CEN	905	1,686	3,138	0.3	32	16	3
433	<input type="checkbox"/>	4200043 Urban CEDAR-SKYLINE	119	208	3,626	0.0	3	5	3
434	<input type="checkbox"/>	4200053 Urban CEDAR-ST VINCNT			124				3
435	<input type="checkbox"/>	4200023 Urban CEDAR-SYLVAN	5	13	2,583	0.0	0	2	4
436	<input type="checkbox"/>	4209023 Urban COFFEE CREEK-FREEMAN			190				0
437	<input type="checkbox"/>	4209013 Urban COFFEE CREEK-HOLIDAY	2	5	345	0.0	1	2	0
438	<input checked="" type="checkbox"/>	4210013 Urban CORNELIUS 13KV	3,253	14,110	2,663	1.2	318	30	0
439	<input checked="" type="checkbox"/>	4210033 Urban CORNELIUS-ADAIR	1,037	4,307	973	1.1	266	7	0
440	<input checked="" type="checkbox"/>	4210023 Urban CORNELIUS-VRBRT	1,755	8,255	1,625	1.1	305	13	0
441	<input type="checkbox"/>	4222043 Urban DENNY-EAST	415	1,338	1,656	0.3	48	13	0
442	<input type="checkbox"/>	4222013 Urban DENNY-NORTH	60	111	425	0.1	16	3	0
443	<input type="checkbox"/>	4222033 Urban DENNY-SOUTH	46	64	3,163	0.0	1	4	0
444	<input type="checkbox"/>	4222023 Urban DENNY-WEST	3,101	4,556	2,708	1.1	101	6	0
445	<input type="checkbox"/>	4223013 Remote DILLEY-13KV	623	2,746	617	1.0	267	16	1
446	<input type="checkbox"/>	4223023 Remote DILLEY-SPRINGHL			1				1
447	<input type="checkbox"/>	4224013 Urban DURHAM 13KV			395				1
448	<input checked="" type="checkbox"/>	4224043 Urban DURHAM-BONITA	728	4,487	693	1.1	388	3	1
449	<input type="checkbox"/>	4224053 Urban DURHAM-BRIDGEPORT	41	72	1,160	0.0	4	4	1
450	<input type="checkbox"/>	4224023 Urban DURHAM-SATTLER	606	1,628	2,337	0.3	42	15	2
451	<input type="checkbox"/>	4224033 Urban DURHAM-SOUTH	1	6	552	0.0	1	1	1

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

WESTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
452	<input type="checkbox"/>	4276023 Urban G HOME-MCKAY	482	1,149	2,716	0.2	25	11	1
453	<input type="checkbox"/>	4276013 Urban G HOME-METZGER	268	477	3,071	0.1	9	11	1
454	<input type="checkbox"/>	4275013 Remote GALES CRK 13KV	471	1,542	797	0.6	116	21	0
455	<input type="checkbox"/>	4320013 Urban HILLS-DAIRY CREEK	430	2,320	4,236	0.1	33	13	1
456	<input type="checkbox"/>	4320053 Urban HILLS-DENNIS	1	1	260	0.0	0	1	1
457	<input type="checkbox"/>	4320033 Urban HILLS-JACKSON	24	41	2,753	0.0	1	5	0
458	<input type="checkbox"/>	4320023 Rural HILLS-LAUREL	204	390	1,781	0.1	13	32	1
459	<input type="checkbox"/>	4320043 Urban HILLS-SCHOLLS	20	81	850	0.0	6	5	0
460	<input type="checkbox"/>	4330013 Urban HUBER 13KV	245	1,019	4,425	0.1	14	9	0
461	<input type="checkbox"/>	4330053 Urban HUBER-BANY	157	601	3,397	0.0	11	10	1
462	<input type="checkbox"/>	4330023 Urban HUBER-FRMINGTON	423	651	3,153	0.1	12	8	0
463	<input type="checkbox"/>	4330033 Urban HUBER-KINNAMON	546	1,200	2,292	0.2	31	16	0
464	<input type="checkbox"/>	4330043 Urban HUBER-MARYVILLE	3,308	4,837	4,594	0.7	63	13	0
465	<input type="checkbox"/>	4378023 Urban KING CTY-BULL MT	2,686	4,430	2,432	1.1	109	5	1
466	<input type="checkbox"/>	4378013 Urban KING CTY-FISCHER	3,076	4,976	2,911	1.1	103	4	0
467	<input type="checkbox"/>	4378043 Urban KING CTY-HAZEL B	1,705	2,626	1,618	1.1	97	7	0
468	<input type="checkbox"/>	4378053 Urban KING CTY-NORTH	2,293	3,682	2,139	1.1	103	6	0
469	<input type="checkbox"/>	4378033 Urban KING CTY-SUMERFL	2,895	4,790	2,560	1.1	112	5	0
470	<input type="checkbox"/>	4422023 Urban MAIN-AIRPORT	238	723	1,814	0.1	24	11	0
471	<input type="checkbox"/>	4422033 Urban MAIN-BENTLEY	119	358	2,122	0.1	10	7	0
472	<input type="checkbox"/>	4422053 Urban MAIN-EXPRESS	867	1,095	3,079	0.3	21	11	0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

WESTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
473	<input type="checkbox"/>	4422073 Urban MAIN-GRIFFIN			0	0.0	0		0
474	<input type="checkbox"/>	4422063 Urban MAIN-JFS1			1				0
475	<input type="checkbox"/>	4422043 Urban MAIN-JONES FARM			1				0
476	<input type="checkbox"/>	4422013 Urban MAIN-RVR RD	1,377	3,545	2,564	0.5	83	14	0
477	<input type="checkbox"/>	4447013 Rural MERIDIAN 13KV	139	351	1,371	0.1	15	10	0
478	<input type="checkbox"/>	4447083 Urban MERIDIAN-65TH	41	32	1,067	0.0	2	1	0
479	<input type="checkbox"/>	4447053 Urban MERIDIAN-BORLND	302	724	1,294	0.2	34	13	1
480	<input type="checkbox"/>	4447093 Urban MERIDIAN-CHILDS			443				1
481	<input type="checkbox"/>	4447063 Urban MERIDIAN-LAKEVIEW			395				0
482	<input type="checkbox"/>	4447073 Urban MERIDIAN-NYBERG	48	99	147	0.3	40	4	0
483	<input type="checkbox"/>	4447043 Urban MERIDIAN-PLKNGTN	501	4,498	2,853	0.2	95	13	1
484	<input type="checkbox"/>	4447033 Urban MERIDIAN-SAGERT	53	119	2,750	0.0	3	1	0
485	<input type="checkbox"/>	4482013 Urban MURRAYHILL 13KV	303	995	3,803	0.1	16	1	0
486	<input type="checkbox"/>	4482033 Urban MURRAYHL-KINTON	117	137	3,871	0.0	2	2	0
487	<input type="checkbox"/>	4482053 Urban MURRAYHL-QUARRY			0	0.0	0		0
488	<input type="checkbox"/>	4482043 Urban MURRAYHL-REUSER	36	158	2,095	0.0	5	2	0
489	<input type="checkbox"/>	4482023 Urban MURRAYHL-TEAL	69	179	3,910	0.0	3	3	0
490	<input type="checkbox"/>	4510013 Rural N PLAINS 13KV	36	167	1,579	0.0	6	8	1
491	<input type="checkbox"/>	4510023 Rural N PLAINS-M HILL	660	3,615	1,257	0.5	173	18	1
492	<input type="checkbox"/>	4516013 Urban OAK HILLS 13KV	913	1,747	2,343	0.4	45	13	0
493	<input type="checkbox"/>	4516033 Urban OAK HILLS-5 OAK	503	1,637	1,926	0.3	51	7	0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

WESTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
494	<input type="checkbox"/>	4516053 Urban OAK HILLS-BRIER	78	575	479	0.2	72	2	0
495	<input type="checkbox"/>	4516023 Urban OAK HILLS-SMRST	62	172	1,595	0.0	6	2	0
496	<input type="checkbox"/>	4516043 Urban OAK HILLS-WLKRD	45	173	2,317	0.0	4	5	1
497	<input type="checkbox"/>	4518033 Urban ORENCO 13KV	5	4	590	0.0	0	1	0
498	<input type="checkbox"/>	4518023 Urban ORENCO PRIMATE	432	1,485	3,443	0.1	26	11	0
499	<input type="checkbox"/>	4518053 Urban ORENCO-231ST	433	613	2,208	0.2	17	2	0
500	<input checked="" type="checkbox"/>	4518043 Urban ORENCO-AMBRGLEN	2,980	6,848	2,911	1.0	141	2	1
501	<input type="checkbox"/>	4518013 Urban ORENCO-BASELINE	590	1,637	4,194	0.1	23	9	0
502	<input type="checkbox"/>	4518063 Urban ORENCO-WILKINS			1,033				0
503	<input type="checkbox"/>	1520013 Urban OSWEGO-IRON MTN	72	80	974	0.1	5	1	0
504	<input type="checkbox"/>	1520033 Urban OSWEGO-MARYLHST	113	176	1,693	0.1	6	5	0
505	<input type="checkbox"/>	1520043 Urban OSWEGO-PALATINE	567	1,437	1,725	0.3	50	15	0
506	<input checked="" type="checkbox"/>	1520023 Urban OSWEGO-STAFFORD	1,294	9,917	3,480	0.4	171	13	2
507	<input type="checkbox"/>	4565053 Urban PRGRS-GREENBURG	275	514	1,831	0.2	17	6	0
508	<input type="checkbox"/>	4565063 Urban PRGRS-HALL	27	187	182	0.1	62	1	0
509	<input type="checkbox"/>	4565013 Urban PRGRS-ROBINSON	135	376	2,204	0.1	10	6	2
510	<input type="checkbox"/>	4565023 Urban PRGRS-SAWYER	13	19	787	0.0	1	1	0
511	<input type="checkbox"/>	4565033 Urban PRGRS-WSH SQ #1			39				0
512	<input type="checkbox"/>	4565043 Urban PRGRS-WSH SQ #2			26				0
513	<input type="checkbox"/>	4570073 Urban RAL H-DOGWOOD	356	1,233	1,776	0.2	42	9	1
514	<input type="checkbox"/>	4570053 Urban RAL H-MONTCLAIR	1,748	2,256	1,548	1.1	87	7	3

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

WESTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
515	<input type="checkbox"/>	4570063 Urban RAL H-OLESON RD	1,649	4,198	2,130	0.8	118	16	2
516	<input checked="" type="checkbox"/>	4583033 Urban REED-BLANTON	5,465	8,741	2,586	2.1	203	10	0
517	<input checked="" type="checkbox"/>	4583013 Urban REED-HAZELDALE	2,548	4,849	2,239	1.1	130	10	0
518	<input type="checkbox"/>	4583043 Urban REED-INTEL #1			0	0.0	0		N/A
519	<input type="checkbox"/>	4583053 Urban REED-INTEL #2			0	0.0	0		N/A
520	<input type="checkbox"/>	4583063 Urban REED-INTEL #3			5				N/A
521	<input type="checkbox"/>	4583073 Urban REED-INTEL #4			0	0.0	0		N/A
522	<input type="checkbox"/>	4583023 Urban REED-TV HWY	2,146	3,807	1,935	1.1	118	4	0
523	<input type="checkbox"/>	4605013 Urban ROSEWAY 13 KV	2	7	1,459	0.0	0	2	0
524	<input type="checkbox"/>	4605033 Urban ROSEWAY-ALEXNDR	26	26	1,025	0.0	2	1	0
525	<input type="checkbox"/>	4605023 Urban ROSEWAY-ESPLANA	88	354	2,142	0.0	10	10	0
526	<input type="checkbox"/>	4645113 Urban SCHOLLS FERRY-KEMMER RD	32	49	920	0.0	3	5	0
527	<input type="checkbox"/>	4645123 Rural SCHOLLS FERRY-RAINBOW	163	698	1,216	0.1	34	23	1
528	<input type="checkbox"/>	4645133 Rural SCHOLLS FERRY-ROY ROGERS	123	223	1,066	0.1	13	6	0
529	<input type="checkbox"/>	4650023 Rural SCOGG-CHERRY G	88	300	450	0.2	40	12	2
530	<input type="checkbox"/>	4650013 Rural SCOGG-LAUREL W	496	1,286	1,116	0.4	69	32	1
531	<input type="checkbox"/>	4670013 Urban SIX COR-13359	346	968	3,059	0.1	19	12	4
532	<input type="checkbox"/>	4670023 Urban SIX COR-13360	1	4	978	0.0	0	1	2
533	<input type="checkbox"/>	4670043 Rural SIX COR-BORCHER	318	933	1,691	0.2	33	14	2
534	<input checked="" type="checkbox"/>	4670033 Urban SIX COR-CHAPMAN	6,219	15,898	2,937	2.1	325	15	3

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

WESTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
535	<input type="checkbox"/>	4670053 Urban SIX CORNER-13KV	49	102	1,492	0.0	4	4	2
536	<input type="checkbox"/>	4635043 Urban ST MARY 13KV			261				0
537	<input type="checkbox"/>	4635023 Urban ST MARY-BETHANY			783				0
538	<input type="checkbox"/>	4635053 Urban ST MARY-BUTNER	369	755	2,446	0.2	19	22	0
539	<input type="checkbox"/>	4635033 Urban ST MARY-ELMONIC	150	487	2,781	0.1	10	5	0
540	<input type="checkbox"/>	4635013 Urban ST MARY-JENKINS			38				0
541	<input type="checkbox"/>	4635063 Urban ST MARY-MILLIKN	130	237	1,837	0.1	8	4	0
542	<input checked="" type="checkbox"/>	4679313 Urban SUNSET-BLANCHET	206	446	23	9.0	1,164	2	N/A
543	<input type="checkbox"/>	4679453 Urban SUNSET-COLFAX			29				N/A
544	<input type="checkbox"/>	4679133 Urban SUNSET-CORNELL	1	0	1	1.0	9	1	N/A
545	<input type="checkbox"/>	4679114 Urban SUNSET-D1X1			1				N/A
546	<input type="checkbox"/>	4679123 Urban SUNSET-DORION	1	0	1	1.0	9	1	N/A
547	<input type="checkbox"/>	4679253 Urban SUNSET-IDTB			1				N/A
548	<input type="checkbox"/>	4679513 Urban SUNSET-INTEL D1B1			5				N/A
549	<input type="checkbox"/>	4679143 Urban SUNSET-KOMATSU #1	1	0	4	0.3	2	1	N/A
550	<input type="checkbox"/>	4679243 Urban SUNSET-KOMATSU #2			0	0.0	0		N/A
551	<input type="checkbox"/>	4679463 Urban SUNSET-KOMATSU #3			1				N/A
552	<input type="checkbox"/>	4679223 Urban SUNSET-LANE			10				N/A
553	<input type="checkbox"/>	4679433 Urban SUNSET-MCCALL			47				N/A
554	<input type="checkbox"/>	4679423 Urban SUNSET-MEEK	31	44	616	0.0	4	2	N/A
555	<input type="checkbox"/>	4679213 Urban SUNSET-PAULING			160				N/A

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
 SAIFI Threshold: Rural = 2.60
 SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
 SAIDI Threshold: Rural = 300 Minutes
 SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
 MAIFIE Threshold: Rural = 10
 MAIFIE Threshold: Urban = 5

WESTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
556	<input type="checkbox"/>	4679323 Urban SUNSET-SPALDING			24				N/A
557	<input type="checkbox"/>	4679233 Urban SUNSET-WHITMAN	37	64	42	0.9	92	1	N/A
558	<input type="checkbox"/>	4679113 Urban SUNSET-YOUNG	22	3	22	1.0	9	1	N/A
559	<input type="checkbox"/>	4693023 Urban TEK 13KV	144	338	310	0.5	65	2	0
560	<input type="checkbox"/>	4693063 Urban TEK-HOCKEN	486	115	480	1.0	14	4	0
561	<input type="checkbox"/>	4693053 Urban TEK-NORTH			11				0
562	<input type="checkbox"/>	4693033 Urban TEK-SHANNON	126	233	1,292	0.1	11	5	0
563	<input type="checkbox"/>	4693043 Urban TEK-SOUTH	253	525	3,125	0.1	10	4	0
564	<input type="checkbox"/>	4693013 Urban TEK-WEST			16				0
565	<input type="checkbox"/>	4695053 Urban TIGARD - 13 KV	971	1,554	2,072	0.5	45	12	1
566	<input type="checkbox"/>	4695013 Urban TIGARD-13336	1,199	267	1,162	1.0	14	6	2
567	<input type="checkbox"/>	4695043 Urban TIGARD-13337	251	262	986	0.3	16	3	1
568	<input type="checkbox"/>	4695023 Urban TIGARD-13361	217	516	862	0.3	36	2	1
569	<input type="checkbox"/>	4695033 Urban TIGARD-13362	190	724	2,619	0.1	17	6	1
570	<input type="checkbox"/>	4999013 Remote TROJAN PLNT E			11				N/A
571	<input type="checkbox"/>	4697033 Urban TUALATIN 13KV	3	6	130	0.0	3	3	0
572	<input type="checkbox"/>	4697023 Urban TUALATIN-AVERY	427	1,685	2,141	0.2	47	6	0
573	<input type="checkbox"/>	4697063 Urban TUALATIN-CIPOLE	2	8	236	0.0	2	2	0
574	<input type="checkbox"/>	4697043 Urban TUALATIN-HERMAN	12	70	182	0.1	23	1	0
575	<input type="checkbox"/>	4697013 Urban TUALATIN-IBACH	1,589	1,016	1,542	1.0	40	6	0
576	<input type="checkbox"/>	4697053 Urban TUALATIN-LEVETON			37				0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
SAIFI Threshold: Rural = 2.60
SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
SAIDI Threshold: Rural = 300 Minutes
SAIDI Threshold: Urban = 120 Minutes

MAIFIE Threshold: Remote = 15
MAIFIE Threshold: Rural = 10
MAIFIE Threshold: Urban = 5

WESTERN

Under-performing	Class	Feeder Name	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFIE
577	Urban	W PTLD 13KV	129	383	1,055	0.1	22	2	0
578	Urban	W PTLD-72ND	913	774	819	1.1	57	7	0
579	Urban	W PTLD-NORTH	336	569	2,653	0.1	13	11	0
580	Urban	W PTLD-PACIFIC	232	698	2,543	0.1	16	5	1
581	Urban	W UNION 13KV	594	1,716	2,573	0.2	40	13	1
582	Rural	W UNION-CORNELS	2,168	4,824	2,221	1.0	130	37	1
583	Rural	WILSV-BOECKMAN	122	260	1,140	0.1	14	6	1
584	Urban	WILSV-CHARBNEAU	269	758	2,408	0.1	19	9	0
585	Urban	WILSV-CITY	36	40	3,353	0.0	1	2	0
586	Urban	WILSV-MENTORTEK			23				0
587	Urban	WILSV-PARKWAY			836				0
588	Urban	WILSV-VILLEBOIS			0	0.0	0		0
589	Urban	WILSV-WEST	390	1,007	3,105	0.1	19	13	0

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
SAIFI Threshold: Rural = 2.60
SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
SAIDI Threshold: Rural = 300 Minutes
SAIDI Threshold: Urban = 120 Minutes

MAIFle Threshold: Remote = 15
MAIFle Threshold: Rural = 10
MAIFle Threshold: Urban = 5

WESTERN Totals:

Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFle
98,398	227,753	271,528			1,125	

Total Customer Momentary Events: 181,731

Total MAIFle Customers: 270,525

MAIFle Value:	0.67
SAIFI Value:	0.36
SAIDI Value:	50

Regional Feeder Performance Summary

SAIFI Threshold: Remote = 2.60
SAIFI Threshold: Rural = 2.60
SAIFI Threshold: Urban = 2.00

SAIDI Threshold: Remote = 420 Minutes
SAIDI Threshold: Rural = 300 Minutes
SAIDI Threshold: Urban = 120 Minutes

MAIFle Threshold: Remote = 15
MAIFle Threshold: Rural = 10
MAIFle Threshold: Urban = 5

	Nbr of Affected Cust's Out	Number of Customer Hours	Total Customers on Feeders	SAIFI	SAIDI (min)	Nbr of Outages	MAIFle
Grand Totals:	376,669	862,833	841,127	0.45	62	4,495	0.0

Total Customer Momentary Events: 748,529
Total MAIFle Customers: 822,750
MAIFI Value: 0.91

Note: SAIDI is rounded to the nearest whole number.

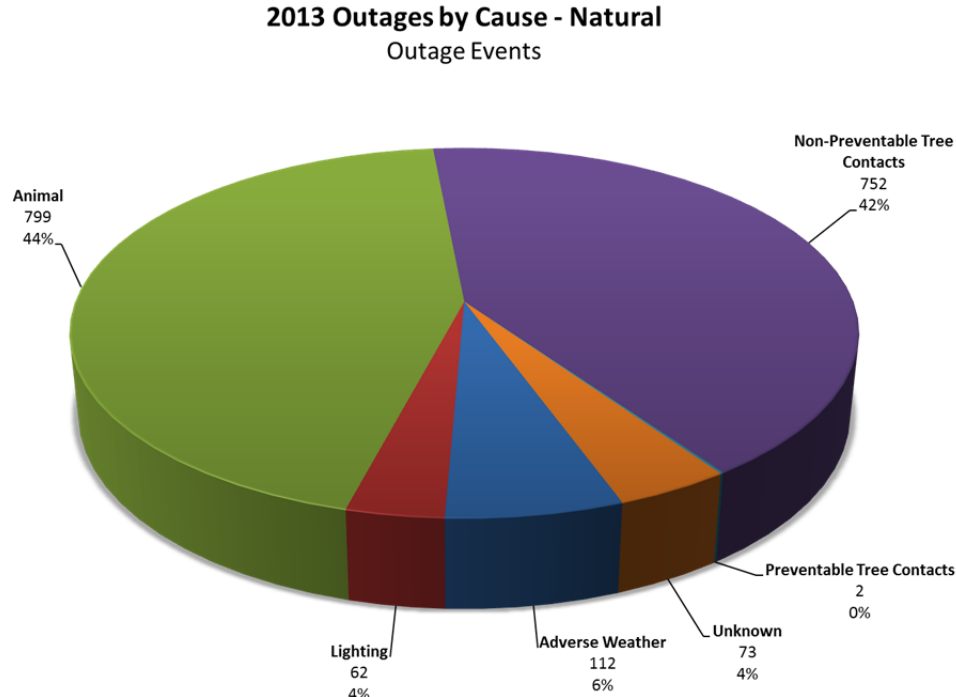
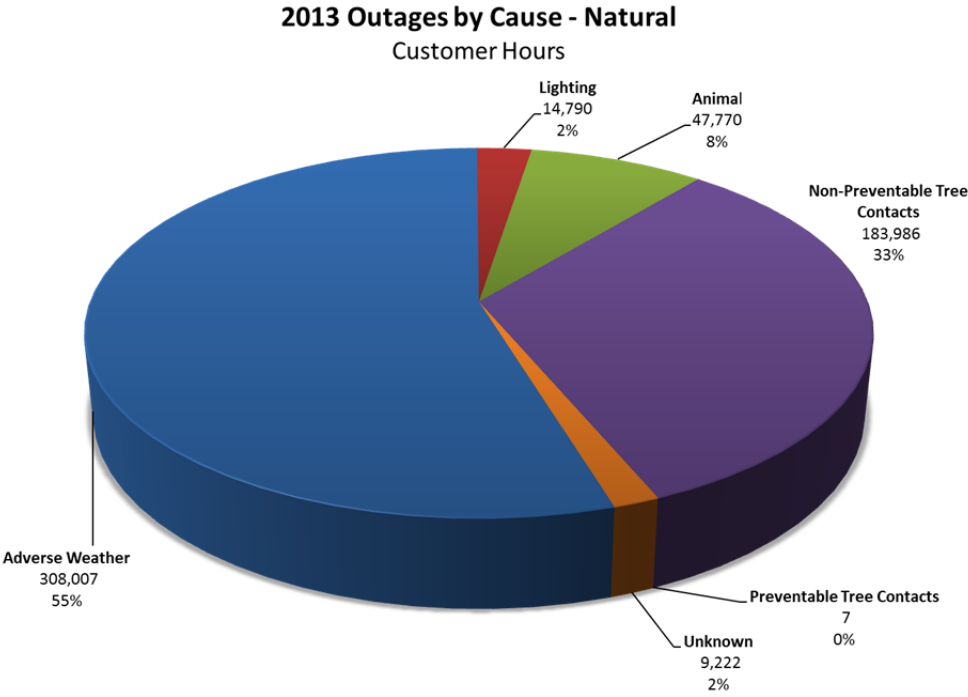
Section IV

Outages by Cause – Natural

This section provides the number of customer outages (frequency) and customer outage hours (duration) caused by natural events. The information is presented by feeder and attributed to one of the following causes:

- Adverse Weather
- Lighting
- Animals
- Tree Contacts (Preventable and Non-Preventable)
- Unknown

The graphs shown below indicate system performance for the causes within the natural events category :



2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
1 ABERN-CLACK HTS														
2 ABERN-ORE CITY	9	4,294	1	3,648			2	40	6	606				
3 ABERNETHY-TRANSIT	7	143					7	143						
4 ALDER CT-ANKENY	3	2,192					2	2	1	2,191				
5 ALDER CT-IRVING														
6 ALDER CT-LINCOLN	2	346					2	346						
7 ALDER CT-STARK														
8 ALDER CT-TAYLOR	4	52					4	52						
9 ALDER CT-YAMHILL														
10 AMITY 13KV	9	173			3	37	3	129	3	7				
11 AMITY-BELLEVUE	9	309					4	27	4	279			1	3
12 ARLETA-52ND ST	9	335	1	2			5	156	3	177				
13 ARLETA-FOSTER	2	11					2	11						
14 ARLETA-HAROLD	8	472					6	400			1	1	1	72
15 ARLETA-POWELL	5	355					5	355						
16 ARLETA-STEELE	6	332					6	332						
17 B LAKE-SUNDIAL														
18 B LAKE-TOYOTNSO														
19 BANKS 13KV	7	316					4	61	1	152			2	102
20 BANKS-CEDAR CYN	17	1,793					2	17	14	1,534			1	242
21 BARNES-BATTLCRK														
22 BARNES-BOONE														
23 BARNES-COMMERCL	2	22			2	22								
24 BARNES-SUNNYSID	1	158							1	158				
25 BELL-FLAVEL	5	158			1	10	4	148						
26 BELL-JOHNNSN CRK														
27 BELL-KENDALL	4	354							4	354				
28 BELL-KING	3	105					1	33	2	71				
29 BELL-SOUTHGATE														
30 BELL-WICHITA														
31 BELMONT 4KV														
32 BETHANY-BURTON	7	113	1	95			3	7	3	12				
33 BETHANY-GERMANTOWN	3	221	3	221										

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
34 BETHANY-KAISER	4	3,536					2	10	1	3,514			1	12
35 BETHANY-LAIDLAW	2	374							2	374				
36 BETHANY-SPRINGVILLE	8	3,134			2	19			6	3,114				
37 BETHANY-THOMPSON														
38 BETHEL-FRUTLAND	2	82					1	81	1	1				
39 BETHEL-GEER	7	610			2	276	3	161	2	172				
40 BETHEL-MCLAY	1	2					1	2						
41 BLUE LAKE 13 KV	3	102					3	102						
42 BOONS-GOODALL	2	49							2	49				
43 BOONS-KRUSEWAY	1	87					1	87						
44 BOONS-LK GROVE	7	959					5	399	2	561				
45 BOONS-MT PARK	1	22							1	22				
46 BOONS-WMBLY PK	8	716	1	3			1	53	6	660				
47 BORING-282ND AV	5	220					1	6	4	214				
48 BORING-CITY	7	1,504	1	1,245			2	30	4	229				
49 BORING-TELFORD	9	693	1	8	2	573	1	7	5	105				
50 BRIGHTWD 13KV	23	10,958	3	2,876			5	66	15	8,017				
51 BRIGHTWD-N BANK	9	853	3	568			1	3	5	282				
52 BROOKWOOD 13KV														
53 BROOKWOOD-BRWCK	2	2,255							2	2,255				
54 BROOKWOOD-SUNRS	2	2					2	2						
55 BVRTN-ALLEN	4	72					3	48	1	24				
56 BVRTN-JAMIESON	2	299					2	299						
57 BVRTN-NORTHWEST	2	391					1	288	1	103				
58 BVRTN-W SLOPE														
59 CANBY-13643	8	1,416			1	2	1	4	5	1,408			1	2
60 CANBY-13644	5	507					3	500	1	2			1	5
61 CANBY-BUTTEVLE	5	88					3	83	2	5				
62 CANYON 13KV	1	2					1	2						
63 CANYON-13114														
64 CANYON-13115														
65 CANYON-13116														
66 CANYON-13117														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse		Lightning		Animal		Non-Preventable		Preventable Tree		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Tree	Contacts*	Outs	Hrs	Outs	Hrs
67 CANYON-13118PSU														
68 CANYON-13119PSU														
69 CANYON-13120														
70 CANYON-13121														
71 CANYON-13122														
72 CANYON-13123														
73 CANYON-13124														
74 CANYON-13125														
75 CANYON-13133														
76 CANYON-13134														
77 CANYON-13135														
78 CANYON-13136														
79 CANYON-21ST AVE	2	1,380							2	1,380				
80 CANYON-23RD AVE	8	5,378	1	4,514			4	419	3	446				
81 CANYON-BURNSIDE														
82 CARVER 13 KV	12	906	1	551			9	154	2	200				
83 CARVER-ALMOND														
84 CARVER-NORTH	2	31					2	31						
85 CARVER-RIVRBEND														
86 CARVER-SOUTH														
87 CARVER-WOODS														
88 CEDAR HILLS 13KV														
89 CEDAR-LEAHY	11	1,442					4	391	6	1,050			1	1
90 CEDAR-SHOP CEN	5	125					2	51	2	71			1	3
91 CEDAR-SKYLINE	4	55					4	55						
92 CEDAR-ST VINCNT														
93 CEDAR-SYLVAN														
94 CLACK-EVELYN	1	24	1	24										
95 CLACK-GLADSTONE	5	124					3	52	2	72				
96 CLACK-JENNIFER														
97 CLACK-TOLBERT	3	22					2	20					1	1
98 CLAXTAR 13KV	1	1,084			1	1,084								
99 CLAXTAR-HAYSVIL	4	11					4	11						

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree
Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
100 CLAXTAR-RIDGE	3	26					1	3					2	23
101 CNTNNIL 13KV	9	635	2	191			6	262	1	181				
102 CNTNNIL-BARKER	2	170					2	170						
103 CNTNNIL-BRACRFT	7	834	1	273			4	138	2	424				
104 CNTNNIL-TREEAND	4	153	1	41			3	112						
105 COFFEE CREEK-FREEMAN														
106 COFFEE CREEK-HOLIDAY														
107 COLTON-DHOOGHE	3	159							3	159				
108 COLTON-GRAYS HL	4	466	1	150					3	316				
109 CORNELIUS 13KV	11	635	1	245			5	285	4	102			1	3
110 CORNELIUS-ADAIR	4	118					1	70	3	48				
111 CORNELIUS-VRBRT	8	122	1	2			5	41	2	79				
112 CULVER 13KV														
113 CULVER-GAFFIN														
114 CULVER-SANYO #1														
115 CULVER-SANYO #2														
116 CURTIS 13KV	4	52					1	5	3	47				
117 CURTIS-11077														
118 DAYTON-EAST	10	103					5	17	4	84			1	2
119 DAYTON-LAFAYETT	5	83					5	83						
120 DAYTON-S AND W	4	10					3	7					1	3
121 DELAWARE-DENVER	6	913	1	155			4	25	1	733				
122 DELAWARE-INTER	3	141					3	141						
123 DELAWARE-LOMBRD	4	371					4	371						
124 DENNY-EAST	5	525					1	80	3	384			1	62
125 DENNY-NORTH	2	16					2	16						
126 DENNY-SOUTH														
127 DENNY-WEST	5	4,420					4	184	1	4,236				
128 DILLEY-13KV	9	210					7	153	2	57				
129 DILLEY-SPRINGHL														
130 DUNNS C 13 KV	18	2,618	2	11			2	7	13	2,496			1	104
131 DUNNS C-KELSO	2	422							1	396			1	26
132 DURHAM 13KV														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
133	DURHAM-BONITA													
134	DURHAM-BRIDGEPORT	1	20					1	20					
135	DURHAM-SATTLER	4	195					2	22	2	174			
136	DURHAM-SOUTH													
137	E-11021													
138	E-11039													
139	E-11040													
140	E-11041													
141	E-11042													
142	E-11043													
143	E-11047													
144	E-11064													
145	E-13139													
146	E-13140	1	337							1	337			
147	E-13141													
148	E-13144	2	592							1	200		1	393
149	E-13145													
150	E-13148													
151	E-13149													
152	E-13150													
153	EAGLE CR-BARTON	3	183	1	17					2	167			
154	EAGLE CR-RIVRML	13	2,114	6	1,383					7	731			
155	EASTPORT-76TH	3	16					3	16					
156	EASTPORT-PLAZA	4	97					4	97					
157	ELMA 13KV	2	27					2	27					
158	ELMA-4 CORNERS	11	1,277	1	208	3	232	7	837					
159	ELMA-HUDSON	5	367			1	154			3	104		1	110
160	ELMA-STATE 13KV													
161	ESTACADA 13KV	4	682	2	598					1	3		1	81
162	ESTACADA-FARADY	19	4,189	1	219	2	34	1	49	15	3,888			
163	FAIRMT-CNDLARIA	9	870			2	606	5	63	1	31		1	170
164	FAIRMT-MISSION	11	200	1	3			3	85	6	70		1	42
165	FAIRVIEW 13 KV													

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
166 FAIRVIEW-CLRCK														
167 FAIRVIEW-K CLUB	6	178					3	83	3	95				
168 FAIRVIEW-TROUTD														
169 FAIRVIEW-W VILL	6	515	2	140	1	232	1	1	1	42			1	100
170 FARGO 13KV	3	4,971					1	4,669	1	268			1	34
171 G HOME-MCKAY	5	319			1	164	3	128	1	26				
172 G HOME-METZGER	5	315					3	246	2	69				
173 GALES CRK 13KV	13	1,426	2	113	1	729	2	258	8	327				
174 GLENCOE-GLISAN	7	356					7	356						
175 GLENCOE-PROVID														
176 GLENCOE-SUNNY	7	6,698	1	6,327			4	320	2	50				
177 GLISAN-FAB 2A														
178 GLISAN-UTIL 1B														
179 GLNCLN-BRIDLMIL	20	2,352					16	705	4	1,647				
180 GLNCLN-SUNSET	4	514					4	514						
181 GLNDOVEER-13596	4	56					2	14	2	42				
182 GLNDOVEER-13597														
183 GLNDOVEER-13598	5	262					2	55	2	196			1	12
184 GLNDOVEER-13599	3	128							3	128				
185 GLNDOVEER-CLFGT														
186 GLNDOVEER-NEAST														
187 GRAND AV 4KV														
188 GRND RND-AGENCY	3	561	1	1			1	1	1	559				
189 GRND RND-FORTHLL	8	418	1	22					4	316			3	80
190 HABRTN-BURLINTN	9	525				1	7	2	3	6	515			
191 HABRTN-LINNTON	5	938				1	332			4	607			
192 HARBORTON 13KV														
193 HARMONY 13KV	6	99					5	98	1	1				
194 HARMONY-INTERNATIONAL	2	34					2	34						
195 HARMONY-LAKE														
196 HARMONY-LINNWOD	1	2					1	2						
197 HARMONY-MILWAKI	11	5,649					5	315	6	5,335				
198 HARMONY-THIESEN														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse		Lightning		Animal		Non-Preventable		Preventable Tree		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Tree Outs	Contacts* Hrs	Contacts* Outs	Hrs	Outs	Hrs
199 HARRISON 13KV														
200 HARRISON-DAVIS														
201 HARRISON-IVON	1	2	1	2										
202 HEMLOCK 13KV	1	51							1	51				
203 HEMLOCK-FREMONT	2	260					2	260						
204 HEMLOCK-MASON														
205 HILLCREST 13KV														
206 HILLCREST-CASCADIA														
207 HILLCREST-REED														
208 HILLCREST-SOUTH														
209 HILLS-DAIRY CREEK	5	48					5	48						
210 HILLS-DENNIS														
211 HILLS-JACKSON	3	7					3	7						
212 HILLS-LAUREL	11	312					5	118	6	193				
213 HILLS-SCHOLLS														
214 HOGAN N 13KV	1	17							1	17				
215 HOGAN N-BRGDOON														
216 HOGAN N-LINKS	15	7,646	2	12			3	12	9	7,541			1	80
217 HOGAN N-SLQUIST	7	225					1	21	6	204				
218 HOGAN S-CLEVLND														
219 HOGAN S-LAWRNCE	4	266							3	50			1	216
220 HOGAN S-MAIN	1	1,155							1	1,155				
221 HOGAN S-PAROPA														
222 HOGAN S-WALLULA	3	134					3	134						
223 HOLGATE 13KV	5	147					5	147						
224 HOLGATE-BYBEE	5	9,656	1	977					4	8,679				
225 HOLGATE-GIDEON	1	161					1	161						
226 HOLGATE-KENLWOR	5	237					3	85	2	152				
227 HOLGATE-RHONE	1	30					1	30						
228 HUBER 13KV	2	48					2	48						
229 HUBER-BANY														
230 HUBER-FRMINGTON	2	34					2	34						
231 HUBER-KINNAMON	5	512			1	3	4	509						

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
232 HUBER-MARYVILLE	5	570					3	5	2	566				
233 HYDN IS-MALAND	4	494							4	494				
234 HYDN IS-N SHORE														
235 HYDN IS-S SHORE	1	29					1	29						
236 INDIAN-KEIZER	5	235	1	18			2	64	2	154				
237 INDIAN-LABISH	3	38							3	38				
238 INDIAN-NORTH	6	35	1	3			2	6	3	26				
239 INDIAN-STATION														
240 INDIAN-WEST	3	3,411	1	0			1	2	1	3,409				
241 ISLAND 13KV														
242 ISLAND-13180	2	26					1	1					1	25
243 ISLAND-13187	6	426					5	318	1	108				
244 ISLAND-13188														
245 JEN LDG 13KV	4	4,006					2	27	2	3,979				
246 JEN LDG-MELDRUM	2	59					2	59						
247 JEN LDG-O GROVE	3	125					3	125						
248 JEN LDG-WEBSTER	9	170					8	46	1	124				
249 KELLEY POINT-LEDBETTER														
250 KELLEY POINT-SOLAR1														
251 KELLEY POINT-SOLAR2														
252 KELLEY PT 13 KV	1	32					1	32						
253 KING CTY-BULL MT	2	80					2	80						
254 KING CTY-FISCHER	1	97					1	97						
255 KING CTY-HAZEL B	4	29					3	9	1	20				
256 KING CTY-NORTH	2	389	2	389										
257 KING CTY-SUMERFL														
258 KLY BU-BINNSMED	2	1					2	1						
259 KLY BU-FAIRLAWN	2	2,277					2	2,277						
260 KLY BU-MALL 205	3	3,924					3	3,924						
261 KLY BU-MC GREW	2	19					2	19						
262 KLY PT-MARINEDR														
263 KLY PT-SIMMONS														
264 LAKE LABISH 4KV														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
265 LELAND-BEAVERC	12	246	1	22			4	59	7	165				
266 LELAND-CARUS	23	14,024	4	6,993			3	3	15	6,808			1	219
267 LELAND-KELM	4	24					3	6	1	18				
268 LENTS-13101	5	124			1	22	4	102						
269 LENTS-HAPPY VAL														
270 LENTS-MT SCOTT	4	129					4	129						
271 LENTS-NORTH	1	1					1	1						
272 LIB-BROWNING														
273 LIB-LONE OAK	1	103					1	103						
274 LIB-MORNINGSIDE	8	554					7	325	1	228				
275 LIB-ROSEDALE	5	316	2	231			1	56	2	30				
276 LIB-VISTA	1	6					1	6						
277 LIBERAL 13KV	6	185	1	0			2	2	3	182				
278 LIBERAL-SAWMILL														
279 LIBERTY-SKYLINE	9	1,114					5	238	3	768			1	109
280 MAIN-AIRPORT	1	12					1	12						
281 MAIN-BENTLEY	2	193					2	193						
282 MAIN-EXPRESS	3	132					3	132						
283 MAIN-GRIFFIN														
284 MAIN-JFS1														
285 MAIN-JONES FARM														
286 MAIN-RVR RD	1	5							1	5				
287 MC CL-COTTAGE	2	35					2	35						
288 MC CL-FRONT ST	4	270			1	155	3	115						
289 MC CL-HOLLYWOOD	2	7					2	7						
290 MCGILL-LSIAIR1A														
291 MCMINNVILLE W AND L	1	80											1	80
292 MERIDIAN 13KV	4	65					4	65						
293 MERIDIAN-65TH														
294 MERIDIAN-BORLND	5	79							5	79				
295 MERIDIAN-CHILDS														
296 MERIDIAN-LAKEVIEW														
297 MERIDIAN-NYBERG														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
298	MERIDIAN-PLKNGTN	2	103					1	2	1	101			
299	MERIDIAN-SAGERT	1	119					1	119					
300	MIDGROVE-BROWN	5	420			1	368	2	30	1	14		1	8
301	MIDGROVE-CHEMEK	5	85					4	82	1	3			
302	MIDGROVE-CORDON													
303	MIDGROVE-SWEGLE													
304	MIDGROVE-WEST	2	62					2	62					
305	MIDWAY-DIVISION	4	35					1	19	2	6		1	11
306	MIDWAY-DOUGLAS	1	3							1	3			
307	MIDWAY-LYNCH	6	2,400					4	44	1	2,255		1	101
308	MIDWAY-POWELHST	3	176					1	2	2	175			
309	MILL CREEK 13KV													
310	MILL CREEK-EASTLAND	6	167	1	16			2	21	3	130			
311	MILL CREEK-KUEBLER													
312	MOLALLA-BUCKAROO	1	2							1	2			
313	MOLALLA-FOREST	6	264	1	148			1	21	4	95			
314	MOLALLA-MARQUAM	15	754	3	267			3	20	9	468			
315	MOLALLA-YODER	2	3					2	3					
316	MRKT ST-ENGLEWD	2	97					2	97					
317	MRKT ST-FAIRGND	2	23					1	22	1	1			
318	MRKT ST-HAWTHNE	6	282					4	248				2	34
319	MRKT ST-PARK	2	21					2	21					
320	MT ANGEL-EAST													
321	MT ANGEL-WEST	11	665	1	65	5	505	1	1	4	93			
322	MT PLS-CLAIRMONT	1	4					1	4					
323	MT PLS-MT VIEW													
324	MT PLS-RIVRCRST	3	155					2	35	1	121			
325	MT PLS-SOUTHEND	7	151					2	4	4	137		1	9
326	MULINO-NORTH	2	18					1	17	1	1			
327	MULINO-SOUTH	4	172					2	9	2	163			
328	MULTNOMAH 13KV	2	525	2	525									
329	MULTNOMAH-13176	4	48					2	11	2	37			
330	MULTNOMAH-13177	4	179					3	133				1	46

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
331 MULTNOMAH-13181	4	1,284	1	941			1	152	2	191				
332 MURRAYHILL 13KV														
333 MURRAYHL-KINTON	1	116					1	116						
334 MURRAYHL-QUARRY														
335 MURRAYHL-REUSER														
336 MURRAYHL-TEAL	1	91											1	91
337 N MARION FRONT	1	1					1	1						
338 N MARION-CROSBY	1	9					1	9						
339 N MARION-HUBBRD	3	240							3	240				
340 N MARION-MCLARN	8	449					1	1	6	436			1	12
341 N PLAINS 13KV	5	102					1	1	4	101				
342 N PLAINS-M HILL	8	3,244	2	57					6	3,186				
343 NEWBERG-CHEHALM	15	1,172			1	42	4	54	8	1,045			2	30
344 NEWBERG-COLLEGE	3	8					3	8						
345 NEWBERG-DUNDEE	4	381					2	306	1	13			1	62
346 NEWBERG-HOOVR PK	2	56					1	53	1	3				
347 NORTHERN-11009	3	24					3	24						
348 NORTHERN-11016	2	15					1	10	1	5				
349 NORTHERN-11071	2	63					2	63						
350 OAK HILLS 13KV	7	1,096					5	648	1	96			1	353
351 OAK HILLS-5 OAK														
352 OAK HILLS-BRIER														
353 OAK HILLS-SMRST														
354 OAK HILLS-WLKRD														
355 OCKLEY GRN 4KV														
356 OK GRV-LK HART														
357 OK GRV-WT WATER														
358 ORENCO 13KV	1	4					1	4						
359 ORENCO PRIMATE	4	522			1	3	1	1	2	519				
360 ORENCO-231ST														
361 ORENCO-AMBRGLEN														
362 ORENCO-BASELINE	4	506					2	98					2	408
363 ORENCO-WILKINS														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
364	ORIENT 13KV	16	1,685	2	99			2	31	12	1,555			
365	ORIENT-BARLOW	13	6,913	1	81			2	8	10	6,824			
366	OSWEGO-IRON MTN	1	80							1	80			
367	OSWEGO-MARYLHST	2	167					1	140	1	26			
368	OSWEGO-PALATINE	11	1,127					2	92	9	1,035			
369	OSWEGO-STAFFORD	6	9,750					4	34	2	9,716			
370	OXFORD 13KV	5	72					4	54	1	18			
371	OXFORD-FAIRVIEW	1	23					1	23					
372	OXFORD-LEE	8	132					8	132					
373	OXFORD-MADRONA													
374	OXFORD-RURAL													
375	OXFORD-SHELTON													
376	PELTON-ROUND BUTTE													
377	PENIN PARK 4KV													
378	PLSNT VALY 13KV	9	1,188	1	1,158			1	5	7	25			
379	PLSNT VALY-BXTR	1	143							1	143			
380	PLSNT VALY-MOON	2	67					1	1	1	65			
381	PLSNT VALY-SUN	4	2,223			2	19			2	2,204			
382	PORTLAND GRD W PUMPING													
383	PORTSMTH-CARB	1	35	1	35									
384	PORTSMTH-DISP													
385	PORTSMTH-WILL	2	4,109					2	4,109					
386	PRGRS-GREENBURG	3	64					2	61				1	2
387	PRGRS-HALL	1	187					1	187					
388	PRGRS-ROBINSON	2	119					2	119					
389	PRGRS-SAWYER													
390	PRGRS-WSH SQ #1													
391	PRGRS-WSH SQ #2													
392	RAL H-DOGWOOD	4	834					1	2	2	110		1	722
393	RAL H-MONTCLAIR	2	1,822					1	90	1	1,732			
394	RAL H-OLESON RD	7	2,927	1	28			2	48	4	2,852			
395	RAMAPO 13KV	5	29					2	2	3	26			
396	RAMAPO-GILBERT	4	89					4	89					

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

	Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
397	REDLAND 13KV	12	906					5	315	7	591				
398	REDLAND-HENRICI	18	1,950	1	814			4	18	12	1,101			1	17
399	REED-BLANTON	3	166					3	166						
400	REED-HAZELDALE	4	93					2	42	2	51				
401	REED-INTEL #1														
402	REED-INTEL #2														
403	REED-INTEL #3														
404	REED-INTEL #4														
405	REED-TV HWY	1	16					1	16						
406	ROCKWD 13KV	2	13					2	13						
407	ROCKWD-AIRPT WY														
408	ROCKWD-BOEING														
409	ROCKWD-INDUSTR														
410	ROCKWD-REYNOLDS	5	495					4	143	1	352				
411	ROCKWD-WILKES														
412	ROSEWAY 13 KV	1	2					1	2						
413	ROSEWAY-ALEXNDR	1	26					1	26						
414	ROSEWAY-ESPLANA	2	7					2	7						
415	ROUND BUTTE SPILLWAY														
416	RUBY-13502	3	35	1	12			2	23						
417	RUBY-13503														
418	RVRGATE-11010														
419	RVRGATE-11011	2	24					2	24						
420	RVRGATE-PEARCY														
421	RVRGATE-SWIFT														
422	RVRVIW-FULTON	5	448					1	22	4	427				
423	RVRVIW-MACADAM														
424	RVRVIW-TWILLIGR	4	2,640							4	2,640				
425	SALEM-13260														
426	SALEM-13261														
427	SALEM-13262														
428	SALEM-13263														
429	SALEM-13264														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
430 SALEM-UNION														
431 SANDY 13KV	25	7,612	5	6,243			1	2	18	1,306			1	61
432 SANDY-362ND	9	450	2	249			1	3	6	198				
433 SANDY-BLUFF	2	870	1	40					1	829				
434 SANDY-WILDCAT	18	4,503	4	3,290			3	8	11	1,205				
435 SCHOLLS FERRY-KEMMER RD	3	29					3	29						
436 SCHOLLS FERRY-RAINBOW	13	471	1	76			4	317	8	78				
437 SCHOLLS FERRY-ROY ROGERS	1	85							1	85				
438 SCOGG-CHERRY G	5	78					3	71	2	8				
439 SCOGG-LAUREL W	14	304					6	67	7	210			1	27
440 SCOTSMILL 13KV	9	164					5	22	2	107			2	35
441 SELLD 13KV	5	3,296					3	2,729	2	567				
442 SELLD-KELOG PK	6	352					5	316	1	36				
443 SELLD-WAVERLY	4	7					3	5					1	2
444 SHERIDAN EAST	4	80					3	31	1	49				
445 SHERIDAN-KADELL	2	36					2	36						
446 SILVERTON-NORTH	10	1,025			1	172	4	70	5	783				
447 SILVERTON-SOUTH	6	663	3	652	1	2			2	10				
448 SILVERTON-WEST	16	4,745	3	18	6	397	2	9	3	4,221			2	101
449 SIX COR-13359	6	606					3	81	3	525				
450 SIX COR-13360														
451 SIX COR-BORCHER	7	319					3	72	4	247				
452 SIX COR-CHAPMAN	13	15,264					4	196	8	15,044			1	25
453 SIX CORNER-13KV	2	31					2	31						
454 SMURFIT-NEWBERG														
455 SPRINGBK-FERNWD	3	1,403					2	3	1	1,400				
456 SPRINGBK-STPAUL	10	928					1	2	8	920	1	6		
457 SPRINGBK-VILLA	2	14					2	14						
458 SPRINGBK-ZIMRI	1	7					1	7						
459 ST LOUIS-EAST														
460 ST LOUIS-NORTH	2	14							2	14				
461 ST LOUIS-WEST	2	6							2	6				
462 ST MARY 13KV														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse		Lightning		Animal		Non-Preventable		Preventable Tree		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Tree	Contacts*	Outs	Hrs	Outs	Hrs
463 ST MARY-BETHANY														
464 ST MARY-BUTNER	12	270					9	152	3	118				
465 ST MARY-ELMONIC														
466 ST MARY-JENKINS														
467 ST MARY-MILLIKN	1	11					1	11						
468 STEPHN-11001														
469 STEPHN-11020														
470 STEPHN-11054														
471 STEPHN-11055														
472 STEPHN-11092														
473 STEPHN-11093														
474 STEPHN-11094														
475 STEPHN-11095														
476 STEPHN-11097														
477 STEPHN-11098														
478 STEPHN-11099														
479 SULL-ROBINWOOD	13	565					10	435	2	102			1	28
480 SULL-SALAMO	4	96					2	23	2	73				
481 SULL-SUSSEX	3	346					1	14	2	332				
482 SULL-WILLAMETTE	4	268					1	7	3	261				
483 SULLIVAN-TANNER	1	12					1	12						
484 SULZER 115A														
485 SULZER 115B														
486 SULZER BINGHAM														
487 SUMMIT-GOVT CAMP	1	127	1	127										
488 SUMMIT-MEADOWS	1	42			1	42								
489 SUMMIT-SUMMIT	3	2,274	2	1,104					1	1,170				
490 SUNSET-BLANCHET														
491 SUNSET-COLFAX														
492 SUNSET-CORNELL														
493 SUNSET-D1X1														
494 SUNSET-DORION														
495 SUNSET-IDTB														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse		Lightning		Animal		Non-Preventable		Preventable Tree		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Tree Outs	Contacts* Hrs	Contacts* Outs	Hrs	Outs	Hrs
496	SUNSET-INTEL D1B1													
497	SUNSET-KOMATSU #1													
498	SUNSET-KOMATSU #2													
499	SUNSET-KOMATSU #3													
500	SUNSET-LANE													
501	SUNSET-MCCALL													
502	SUNSET-MEEK													
503	SUNSET-PAULING													
504	SUNSET-SPALDING													
505	SUNSET-WHITMAN													
506	SUNSET-YOUNG													
507	SWAN IS-BASIN													
508	SWAN IS-DOLPHIN													
509	SWAN IS-FREIGHTLINER													
510	SWAN IS-GOING													
511	SWAN IS-SHIPYRD													
512	SYLVAN-BARNES	13	2,008	1	76			2	5	10	1,927			
513	SYLVAN-PATTON	14	649					4	105	8	538		2	6
514	TABOR 13KV	2	153					2	153					
515	TABOR-82ND AV	3	1,890					1	16	1	51		1	1,824
516	TABOR-HOSPITAL													
517	TEK 13KV													
518	TEK-HOCKEN													
519	TEK-NORTH													
520	TEK-SHANNON	5	233					5	233					
521	TEK-SOUTH	2	276					2	276					
522	TEK-WEST													
523	TEMP-NORTH													
524	TEMP-SOUTH													
525	TIGARD - 13 KV	6	830					4	247	2	584			
526	TIGARD-13336	2	19							2	19			
527	TIGARD-13337	2	38					1	2	1	36			
528	TIGARD-13361	1	81					1	81					

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
529 TIGARD-13362	3	511					2	510	1	1				
530 TNCTR-LAWNFIELD														
531 TNCTR-MONTEREY	4	271					2	79	2	192				
532 TNCTR-NORTH 13KV														
533 TNCTR-PRECISION														
534 TNCTR-SOUTH 13KV														
535 TNCTR-SUNNYBROOK														
536 TNCTR-VALLEY VW														
537 TROJAN PLNT E														
538 TUALATIN 13KV	1	1					1	1						
539 TUALATIN-AVERY	1	1,294							1	1,294				
540 TUALATIN-CIPOLE														
541 TUALATIN-HERMAN														
542 TUALATIN-IBACH	3	6							3	6				
543 TUALATIN-LEVETON														
544 TURNER 13KV	3	83			1	3	1	16	1	63				
545 TURNER-CASCADE	4	1,063			1	4			3	1,059				
546 TWILIGHT-BREMER	4	44	1	16			2	24	1	4				
547 UNIONVALE 13KV	19	1,151	1	6	1	20	2	2	15	1,122				
548 UNIVRSITY-MILL	3	709			1	695	1	11					1	3
549 UNIVRSITY-TRADE	7	7,379			1	7,279	6	100						
550 URBAN-BARBUR	4	1,160					3	1,158	1	2				
551 URBAN-CAMPUS														
552 URBAN-CORBETT	2	3,582	2	3,582										
553 URBAN-GAINES	1	25					1	25						
554 URBAN-GIBBS	2	15					2	15						
555 URBAN-KELLY														
556 URBAN-LANDING														
557 URBAN-MEDICAL														
558 URBAN-OHSU														
559 W PTL D 13KV	2	383							2	383				
560 W PTL D-72ND	4	248					4	248						
561 W PTL D-NORTH	7	331					6	311	1	20				

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

2013 Outages by Cause Natural

Feeder Name	Total Nat		Adverse Envir		Lightning		Animal		Non-Preventable Tree Contacts*		Preventable Tree Contacts*		Unknown	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
562 W PTLD-PACIFIC	3	265					1	131	2	134				
563 W UNION 13KV														
564 W UNION-CORNELS	17	2,617					7	118	9	1,929			1	570
565 WACKER														
566 WACONDA 13KV	7	80			1	14	3	50	3	16				
567 WACONDA-NORPAC														
568 WACONDA-RIVER RD	5	417			3	82	1	1	1	334				
569 WALLACE RD 13KV	24	770			3	306	12	268	6	27			3	169
570 WELCHES 13KV	12	1,790					3	81	9	1,709				
571 WELCHES-ZIG ZAG	16	4,627					2	3	14	4,623				
572 WILLAMINA-BRIDGE	10	123	1	5			8	114	1	5				
573 WILLAMINA-BUELL	3	1,145					1	3	2	1,142				
574 WILLAMINA-LUMBER														
575 WILLBRDG #1														
576 WILLBRDG #4	2	968							2	968				
577 WILSV-BOECKMAN	3	171	1	3			1	137	1	31				
578 WILSV-CHARBNEAU	4	95					3	12	1	83				
579 WILSV-CITY	1	39					1	39						
580 WILSV-MENTORTEK														
581 WILSV-PARKWAY														
582 WILSV-VILLEBOIS														
583 WILSV-WEST	4	560					1	22	3	538				
584 WOODBURN-CANNERY														
585 WOODBURN-EAST	4	280							4	280				
586 WOODBURN-TOMLIN	6	2,258					2	98	3	110			1	2,050
587 WOODBURN-WEST	7	2,513			1	144	5	2,368					1	1
588 YAMHILL 13KV	16	2,544					11	104	5	2,441				
589 YAMHILL-CARLTON	5	436					2	20	3	416				
Grand Totals:	1,800	308,007	112	52,232	62	14,790	799	47,770	752	183,986	2	7	73	9,222

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

*For detailed Tree Contacts, see Outages by Tree Contacts report

Section V

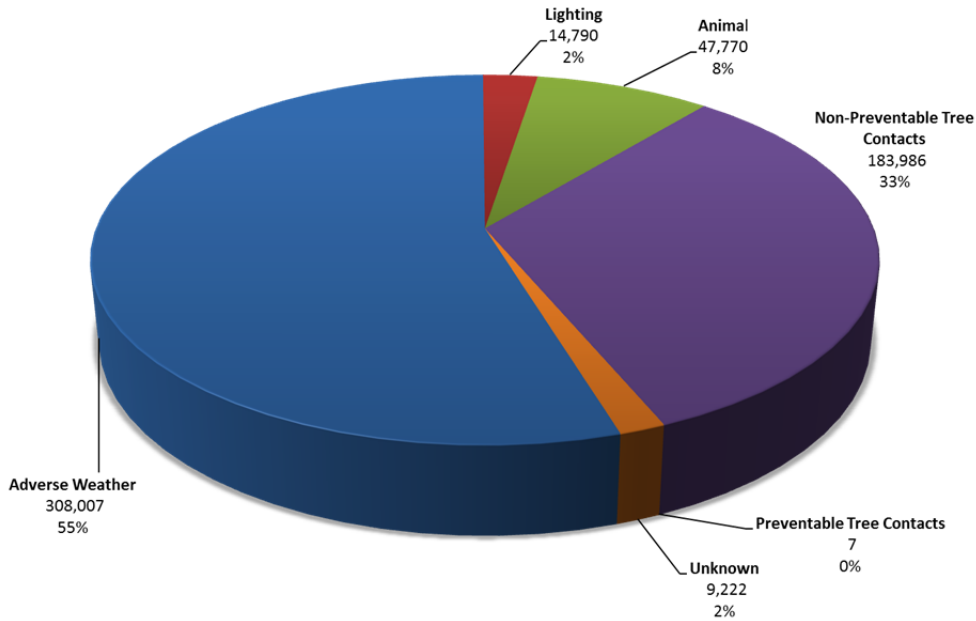
Outages by Cause – System

This section provides the number of customer outages (frequency) and customer outage hours (duration) caused by system (failure of equipment or loss of source) events. The information is presented by feeder and attributed to one of the following causes:

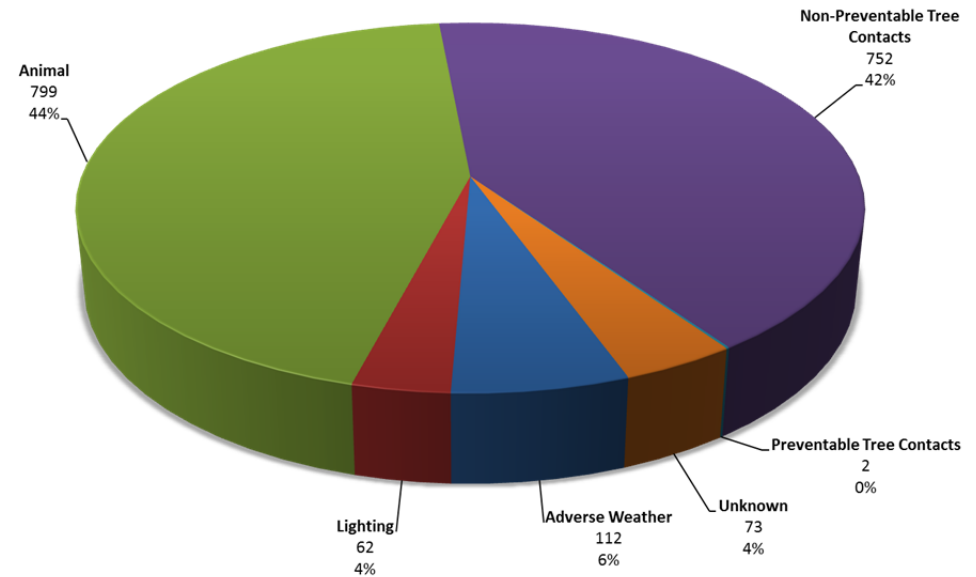
- PGE Equipment
- Cutout/Fuse/Arrestor Failure
- Loss of Substation
- Loss of Transmission
- Human Element
- Public
- Planned

The graphs shown below indicate system performance for the causes within the system events category:

2013 Outages by Cause - Natural
Customer Hours



2013 Outages by Cause - Natural
Outage Events



2013 Outages by Cause System

Feeder Name	Total System		Equipment				Loss of Substation	Loss of Transmission	Human Element	Public		Planned		
			PGE Equip *		Cutout/Fuse /Arrestor Failure									
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
1 ABERN-CLACK HTS														
2 ABERN-ORE CITY	7	3,404	5	131	1	1					3	4,283		
3 ABERNETHY-TRANSIT	7	202	5	190	2	12								
4 ALDER CT-ANKENY	3	460	1	151	1	18							1	291
5 ALDER CT-IRVING	5	72	1	2	2	2	1	2			1	14	1	55
6 ALDER CT-LINCOLN	2	2,611	1	2,586	1	26								
7 ALDER CT-STARK	6	235	1	126	5	109								
8 ALDER CT-TAYLOR	3	47	1	45			1	45					2	2
9 ALDER CT-YAMHILL														
10 AMITY 13KV	22	2,073	7	1,562	11	138					7	377		
11 AMITY-BELLEVUE	17	6,388	9	4,255	4	28					5	2,107		
12 ARLETA-52ND ST	2	7	1	6	1	1								
13 ARLETA-FOSTER	4	49	2	12	2	37								
14 ARLETA-HAROLD	2	119	2	119										
15 ARLETA-POWELL	2	410	2	410							1	6		
16 ARLETA-STEELE	2	67			2	67					2	259		
17 B LAKE-SUNDIAL	2	34	2	34										
18 B LAKE-TOYOTNSO														
19 BANKS 13KV	15	296	6	121	5	107					5	70		
20 BANKS-CEDAR CYN	8	77	4	22	2	34					1	8	1	13
21 BARNES-BATTLCKR	1	0									1	0		
22 BARNES-BOONE	1	5									2	23		
23 BARNES-COMMERCL	2	7	1	4	1	3								
24 BARNES-SUNNYSID	4	323	3	212									1	112
25 BELL-FLAVEL	2	18	1	6	1	11								
26 BELL-JOHNNSN CRK														
27 BELL-KENDALL	3	201	1	165	2	36								
28 BELL-KING	2	22			1	21					1	1		
29 BELL-SOUTHGATE														
30 BELL-WICHITA														
31 BELMONT 4KV														
32 BETHANY-BURTON	2	288	1	254	1	34					1	18		
33 BETHANY-GERMANTOWN	3	54			2	46					1	7		
34 BETHANY-KAISER	10	1,874	4	873	3	493					3	490	1	20
35 BETHANY-LAIDLAW	3	61	1	49							2	12		

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

2013 Outages by Cause System

Feeder Name	Total System		Equipment				Loss of Substation	Loss of Transmission	Human Element	Public		Planned	
	Outs	Hrs	PGE Equip *	Cutout/Fuse /Arrestor Failure	Outs	Hrs				Outs	Hrs	Outs	Hrs
36 BETHANY-SPRINGVILLE													
37 BETHANY-THOMPSON	7	560	6	558	1	2							
38 BETHEL-FRUTLAND	7	605	5	521	1	18				1	66		
39 BETHEL-GEER	10	478	6	52	2	16				3	413		
40 BETHEL-MCLAY	4	210	2	202						2	7		
41 BLUE LAKE 13 KV	2	2,636	2	2,636									
42 BOONS-GOODALL	9	2,055	7	1,846						2	209		
43 BOONS-KRUSEWAY	1	2			1	2							
44 BOONS-LK GROVE	6	557	1	5	4	464						1	88
45 BOONS-MT PARK	6	5,394	5	5,282	1	112							
46 BOONS-WMBLY PK	1	2			1	2				1	6		
47 BORING-282ND AV	6	189	4	186	2	3				3	39		
48 BORING-CITY	9	208	4	182	3	5				2	20	1	1
49 BORING-TELFORD	12	686	7	231	3	96				2	358		
50 BRIGHTWD 13KV	10	731	7	724	2	6				1	1		
51 BRIGHTWD-N BANK	7	631	4	596	1	3						2	32
52 BROOKWOOD 13KV													
53 BROOKWOOD-BRWCK	5	3,571	2	3,254						1	217	2	100
54 BROOKWOOD-SUNRS	2	117	2	117									
55 BVRTN-ALLEN	2	140	1	122	1	18							
56 BVRTN-JAMIESON													
57 BVRTN-NORTHWEST													
58 BVRTN-W SLOPE	3	6,716	2	6,646	1	70							
59 CANBY-13643	28	7,865	13	959	7	86				9	6,821	1	2
60 CANBY-13644	3	11	3	11						1	2		
61 CANBY-BUTTEVLE	6	53	4	27	2	26							
62 CANYON 13KV	5	2,548	3	1,807						1	9	2	740
63 CANYON-13114													
64 CANYON-13115													
65 CANYON-13116													
66 CANYON-13117													
67 CANYON-13118PSU													
68 CANYON-13119PSU													
69 CANYON-13120													
70 CANYON-13121													

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

2013 Outages by Cause System

Feeder Name	Total System Outs Hrs		Equipment				Loss of Substation Outs Hrs	Loss of Transmission Outs Hrs	Human Element Outs Hrs	Public Outs Hrs		Planned Outs Hrs	
			PGE Equip *		Cutout/Fuse /Arrestor Failure								
			Outs	Hrs	Outs	Hrs							
71 CANYON-13122													
72 CANYON-13123													
73 CANYON-13124													
74 CANYON-13125													
75 CANYON-13133													
76 CANYON-13134													
77 CANYON-13135													
78 CANYON-13136	1	11,268	1	11,268									
79 CANYON-21ST AVE	1	129										1	129
80 CANYON-23RD AVE	4	1,666	2	6	1	27				1	1,633		
81 CANYON-BURNSIDE	5	219	1	122	3	51				1	46		
82 CARVER 13 KV	17	2,676	10	1,728	3	82				5	868		
83 CARVER-ALMOND	3	196	2	31						1	166		
84 CARVER-NORTH	2	1,170	1	1,164						1	7		
85 CARVER-RIVRBEND													
86 CARVER-SOUTH													
87 CARVER-WOODS	1	151										1	151
88 CEDAR HILLS 13KV													
89 CEDAR-LEAHY	3	381	2	375	1	6				1	1		
90 CEDAR-SHOP CEN	10	1,560	6	1,086	3	436						1	38
91 CEDAR-SKYLINE	1	153								1	153		
92 CEDAR-ST VINCNT													
93 CEDAR-SYLVAN	2	13			2	13							
94 CLACK-EVELYN	1	0			1	0							
95 CLACK-GLADSTONE	11	1,312	8	1,014						1	211	2	87
96 CLACK-JENNIFER	1	2	1	2									
97 CLACK-TOLBERT	2	116	1	46								1	70
98 CLAXTAR 13KV	2	9	1	6	1	3							
99 CLAXTAR-HAYSVIL	4	584	1	4	1	3						2	577
100 CLAXTAR-RIDGE	3	278	2	263						1	14		
101 CNTNNIL 13KV	11	1,810	4	1,111	5	552				4	328	1	5
102 CNTNNIL-BARKER	4	300	2	284	2	16				2	2		
103 CNTNNIL-BRACRFT	3	1,987	1	1,985	2	2	1	1,985		1	7		
104 CNTNNIL-TREEAND	8	10,446	5	10,394	3	52	1	10,358		1	63		
105 COFFEE CREEK-FREEMAN													

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Outs = Outages

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2013 Outages by Cause System

Feeder Name	Equipment															
	Total System		PGE Equip *		Cutout/Fuse /Arrestor Failure		Loss of Substation		Loss of Transmission		Human Element		Public		Planned	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
106 COFFEE CREEK-HOLIDAY	1	4	1	4												
107 COLTON-DHOOGHE	4	57	1	6	1	1							1	3	2	49
108 COLTON-GRAYS HL	11	528	6	470	3	15							2	96	1	3
109 CORNELIUS 13KV	19	13,475	13	13,294	5	180	1	12,577					1	1		
110 CORNELIUS-ADAIR	3	4,189	2	4,186	1	2	1	4,183								
111 CORNELIUS-VRBRT	5	8,132	1	8,017	2	33	1	8,017					2	82		
112 CULVER 13KV																
113 CULVER-GAFFIN																
114 CULVER-SANYO #1																
115 CULVER-SANYO #2																
116 CURTIS 13KV	3	2,064	2	176									1	13	1	1,888
117 CURTIS-11077																
118 DAYTON-EAST	13	77	6	35	7	42							2	8		
119 DAYTON-LAFAYETT	13	561	3	11	9	31							2	543		
120 DAYTON-S AND W	6	25	4	22	1	1							3	6		
121 DELAWARE-DENVER	2	70	1	50	1	20										
122 DELAWARE-INTER																
123 DELAWARE-LOMBRD	2	4,117			1	1							1	4,116		
124 DENNY-EAST	8	812	7	786									3	51		
125 DENNY-NORTH	1	95													1	95
126 DENNY-SOUTH	4	64	2	10	1	25							1	12	1	29
127 DENNY-WEST	1	136	1	136												
128 DILLEY-13KV	7	2,535	3	2,522	3	11							1	2		
129 DILLEY-SPRINGHL																
130 DUNNS C 13 KV	17	1,259	8	957	6	37							3	265		
131 DUNNS C-KELSO																
132 DURHAM 13KV																
133 DURHAM-BONITA	3	4,487	2	4,486									1	1		
134 DURHAM-BRIDGEPORT	3	51	2	47									1	5		
135 DURHAM-SATTTLER	11	1,433	8	1,320	1	4							3	222		
136 DURHAM-SOUTH	1	6	1	6												
137 E-11021																
138 E-11039																
139 E-11040	1	11	1	11												
140 E-11041	1	13	1	13												

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2013 Outages by Cause System

Feeder Name	Total System		Equipment				Loss of Substation	Loss of Transmission	Human Element	Public		Planned		
			PGE Equip *		Cutout/Fuse /Arrestor Failure									
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
141 E-11042														
142 E-11043														
143 E-11047														
144 E-11064	1	1			1	1								
145 E-13139	2	7	2	7										
146 E-13140	2	7	1	5	1	1								
147 E-13141														
148 E-13144	4	105			2	14				2	91			
149 E-13145	3	75			3	75								
150 E-13148														
151 E-13149	2	23	2	23										
152 E-13150	2	1,643							1	0	2	1,752		
153 EAGLE CR-BARTON	5	172	3	170	1	1					2	4		
154 EAGLE CR-RIVRML	9	3,231	3	974							6	2,258		
155 EASTPORT-76TH	3	173	2	171	1	1								
156 EASTPORT-PLAZA	6	1,957	2	394	1	50					3	1,513		
157 ELMA 13KV	4	504	3	499	1	5								
158 ELMA-4 CORNERS	5	729	4	663	1	66					1	38		
159 ELMA-HUDSON	5	1,218	1	88	1	6					2	1,088	1	36
160 ELMA-STATE 13KV	1	10			1	10								
161 ESTACADA 13KV	5	1,397	3	1,391	1	2					2	84,124		
162 ESTACADA-FARADY	19	2,415	8	62	8	1,214					4	1,141		
163 FAIRMT-CNDLARIA	4	147			4	147					1	315		
164 FAIRMT-MISSION	6	244	1	7	3	90					2	147		
165 FAIRVIEW 13 KV	3	5,116	2	5,005			1	4,742			1	111		
166 FAIRVIEW-CLRCK														
167 FAIRVIEW-K CLUB	4	327	2	112							2	215		
168 FAIRVIEW-TROUTD	4	16,281	3	16,248			1	16,122			1	33		
169 FAIRVIEW-W VILL	8	6,875	7	6,871	1	5	1	6,696						
170 FARGO 13KV	22	427	10	395	9	28					4	71		
171 G HOME-MCKAY	6	830	2	395	3	15							1	420
172 G HOME-METZGER	6	161	3	152	3	9								
173 GALES CRK 13KV	7	114			3	28					3	74	1	12
174 GLENCOE-GLISAN	4	467	3	430	1	36					1	1		
175 GLENCOE-PROVID														

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2013 Outages by Cause System

Feeder Name	Total System		Equipment				Loss of Substation	Loss of Transmission	Human Element	Public		Planned	
			PGE Equip *		Cutout/Fuse /Arrestor Failure								
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs
176 GLENCOE-SUNNY	3	5,476	2	5,404								1	72
177 GLISAN-FAB 2A													
178 GLISAN-UTIL 1B													
179 GLNCLN-BRIDLMIL	7	1,388	2	94	2	3				4	1,296		
180 GLNCLN-SUNSET	3	158	3	158						1	45		
181 GLNDOVEER-13596	3	142	3	142									
182 GLNDOVEER-13597	3	334	2	330	1	4							
183 GLNDOVEER-13598	7	537	3	180						4	358		
184 GLNDOVEER-13599	1	13			1	13				1	52		
185 GLNDOVEER-CLFGT	6	900	4	861	1	37				2	252	1	1
186 GLNDOVEER-NEAST	2	36	2	36									
187 GRAND AV 4KV													
188 GRND RND-AGENCY	8	876	1	41	3	362				1	3	3	470
189 GRND RND-FORHTL	6	531	3	16	1	33				2	483		
190 HABRTN-BURLINTN	20	3,199	13	1,342	3	6				9	1,907		
191 HABRTN-LINNTON	8	115	6	93						2	22		
192 HARBORTON 13KV													
193 HARMONY 13KV													
194 HARMONY-INTERNATIONAL													
195 HARMONY-LAKE	4	1,134	3	1,133	1	1							
196 HARMONY-LINNWOD	6	5,515	4	5,120	1	9				1	0	1	386
197 HARMONY-MILWAKI	3	180	2	177	1	3				1	170		
198 HARMONY-THIESEN	2	9	1	4	1	5							
199 HARRISON 13KV	4	50	3	39						1	12		
200 HARRISON-DAVIS	4	71	2	6	1	64	1	2				1	1
201 HARRISON-IVON	3	41	1	2	2	39	1	2		1	35		
202 HEMLOCK 13KV	6	784	6	784									
203 HEMLOCK-FREMONT	1	304	1	304									
204 HEMLOCK-MASON										1	48		
205 HILLCREST 13KV	1	766	1	766									
206 HILLCREST-CASCADIA													
207 HILLCREST-REED	3	676	2	645						2	64	1	31
208 HILLCREST-SOUTH	4	132	3	130	1	2				1	2		
209 HILLS-DAIRY CREEK	8	2,273	4	1,483	2	3				1	604	1	183
210 HILLS-DENNIS	1	1			1	1							

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2013 Outages by Cause System

Feeder Name	Total System		Equipment				Loss of Substation	Loss of Transmission	Human Element	Public		Planned	
			PGE Equip *		Cutout/Fuse /Arrestor Failure								
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs
211 HILLS-JACKSON	2	33			2	33							
212 HILLS-LAUREL	19	74	7	23	9	28				3	23		
213 HILLS-SCHOLLS	3	71	1	70	2	2							
214 HOGAN N 13KV	9	1,002	6	772	1	96				2	134		
215 HOGAN N-BRGDOON	2	2,187	1	2,185	1	2				1	19		
216 HOGAN N-LINKS	20	5,035	14	1,369	2	19				5	3,649		
217 HOGAN N-SLQUIST	5	994	3	166	2	828							
218 HOGAN S-CLEVLND	5	10,891	4	7,229						1	3,662		
219 HOGAN S-LAWRNCE	10	1,793	6	1,646	2	138				1	1	1	8
220 HOGAN S-MAIN	3	417	3	417						1	15		
221 HOGAN S-PAROPA	5	5,686	5	5,686			1	3					
222 HOGAN S-WALLULA	4	7,465	2	163						3	7,319		
223 HOLGATE 13KV	3	143	3	143									
224 HOLGATE-BYBEE	6	915	5	909						1	6		
225 HOLGATE-GIDEON	3	234			3	234							
226 HOLGATE-KENLWOR	2	75	1	66	1	9							
227 HOLGATE-RHONE	3	39	2	27	1	12							
228 HUBER 13KV	7	971	5	966	2	5							
229 HUBER-BANY	9	601	6	583						2	3	1	15
230 HUBER-FRMINGTON	6	617	1	17	1	6				4	639	1	68
231 HUBER-KINNAMON	11	688	7	671	4	17							
232 HUBER-MARYVILLE	8	4,267	7	4,139	1	127							
233 HYDN IS-MALAND													
234 HYDN IS-N SHORE	3	20	2	12						1	8		
235 HYDN IS-S SHORE													
236 INDIAN-KEIZER	6	541	5	532						2	21		
237 INDIAN-LABISH	7	14			5	9				3	5		
238 INDIAN-NORTH	5	60	3	55	2	4				1	3		
239 INDIAN-STATION	3	129	3	129									
240 INDIAN-WEST	17	1,766	16	1,760	1	6				1	6		
241 ISLAND 13KV	1	417	1	417									
242 ISLAND-13180	8	276	2	146	4	35				2	72	1	33
243 ISLAND-13187	8	642	7	612						2	32		
244 ISLAND-13188	6	19,551	2	40	2	14				3	19,498		
245 JEN LDG 13KV	9	6,704	6	6,632	3	72	1	6,351					

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2013 Outages by Cause System

Feeder Name	Equipment															
	Total System		PGE Equip *		Cutout/Fuse /Arrestor Failure		Loss of Substation		Loss of Transmission		Human Element		Public		Planned	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
246 JEN LDG-MELDRUM	6	4,452	2	4,319	2	26	1	4,127					2	103	1	4
247 JEN LDG-O GROVE	2	166	2	166												
248 JEN LDG-WEBSTER	20	3,258	10	1,193	9	198							1	1,867		
249 KELLEY POINT-LEDBETTER	2	18	2	18												
250 KELLEY POINT-SOLAR1																
251 KELLEY POINT-SOLAR2																
252 KELLEY PT 13 KV	1	3											1	3		
253 KING CTY-BULL MT	3	4,351	2	4,291	1	60	1	3,775								
254 KING CTY-FISCHER	3	4,879	3	4,879			1	4,730								
255 KING CTY-HAZEL B	3	2,597	3	2,597			1	2,397								
256 KING CTY-NORTH	4	3,293	3	3,264	1	29	1	3,246								
257 KING CTY-SUMERFL	5	4,790	3	4,698			1	3,945					6	525		
258 KLY BU-BINNSMED	6	16,227	5	16,211	1	16	1	7,876								
259 KLY BU-FAIRLAWN	4	517	4	517									2	1		
260 KLY BU-MALL 205	8	6,924	5	6,873	3	51	1	6,489								
261 KLY BU-MC GREW	4	215	2	206	2	9							1	1		
262 KLY PT-MARINEDR																
263 KLY PT-SIMMONS																
264 LAKE LABISH 4KV																
265 LELAND-BEAVERC	10	416	5	237	4	20							3	162		
266 LELAND-CARUS	14	436	4	78	5	9							6	311	1	40
267 LELAND-KELM	1	60											1	7	1	60
268 LENTS-13101	10	519	4	446	3	40							3	34		
269 LENTS-HAPPY VAL	6	4,397	3	63	1	2							2	4,332		
270 LENTS-MT SCOTT	6	207			3	14							4	195		
271 LENTS-NORTH	2	186	1	40									1	146		
272 LIB-BROWNING	1	80			1	80										
273 LIB-LONE OAK	4	192	3	182	1	10										
274 LIB-MORNINGSIDE	2	43	2	43												
275 LIB-ROSEDALE	4	115	4	115												
276 LIB-VISTA	7	487	3	235	1	2							1	226	2	24
277 LIBERAL 13KV	5	15	1	8	3	5							1	2		
278 LIBERAL-SAWMILL																
279 LIBERTY-SKYLINE	14	1,038	9	635									5	403		
280 MAIN-AIRPORT	10	712	7	548	3	164										

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2013 Outages by Cause System

Feeder Name	Equipment															
	Total System		PGE Equip *		Cutout/Fuse /Arrestor Failure		Loss of Substation		Loss of Transmission		Human Element		Public		Planned	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
281 MAIN-BENTLEY	5	165	2	22	3	142										
282 MAIN-EXPRESS	6	906	4	210									2	695		
283 MAIN-GRIFFIN																
284 MAIN-JFS1																
285 MAIN-JONES FARM																
286 MAIN-RVR RD	13	3,541	9	2,741	4	800										
287 MC CL-COTTAGE	3	9			3	9										
288 MC CL-FRONT ST																
289 MC CL-HOLLYWOOD	1	213	1	213												
290 MCGILL-LSIAIR1A																
291 MCMINNVILLE W AND L													1	237		
292 MERIDIAN 13KV	5	282	3	192	1	2							1	88		
293 MERIDIAN-65TH	1	32											1	32		
294 MERIDIAN-BORLND	7	644	2	327									4	1,073	4	316
295 MERIDIAN-CHILDS													1	2		
296 MERIDIAN-LAKEVIEW																
297 MERIDIAN-NYBERG	4	99											4	99		
298 MERIDIAN-PLKNGTN	11	4,395	9	4,360	1	19									1	16
299 MERIDIAN-SAGERT													1	3		
300 MIDGROVE-BROWN	6	272	4	38											2	234
301 MIDGROVE-CHEMEK																
302 MIDGROVE-CORDON	8	294	5	286	2	6							2	530		
303 MIDGROVE-SWEGLE	1	10											1	10		
304 MIDGROVE-WEST	6	1,778	3	1,538	1	39							1	4	2	201
305 MIDWAY-DIVISION	6	15,046	1	20	1	15							5	15,250		
306 MIDWAY-DOUGLAS	1	240	1	240												
307 MIDWAY-LYNCH	5	109	2	45	2	22									1	43
308 MIDWAY-POWELHST	13	716	8	627	4	87							2	5		
309 MILL CREEK 13KV	6	440	2	253	2	100							1	3	1	83
310 MILL CREEK-EASTLAND	14	135	7	104	3	5							4	27		
311 MILL CREEK-KUEBLER																
312 MOLALLA-BUCKAROO	5	263	1	256	4	7										
313 MOLALLA-FOREST	6	607	2	170	2	25							3	413		
314 MOLALLA-MARQUAM	18	659	8	133	7	48							3	478		
315 MOLALLA-YODER	11	1,226	4	158	3	14							5	1,055		

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2013 Outages by Cause System

Feeder Name	Total System		Equipment				Loss of Substation	Loss of Transmission	Human Element	Public		Planned	
			PGE Equip *		Cutout/Fuse /Arrestor Failure								
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs
316 MRKT ST-ENGLEWD	2	225			1	20						1	206
317 MRKT ST-FAIRGND	4	296			4	296				1	13		
318 MRKT ST-HAWTHNE	1	46	1	46									
319 MRKT ST-PARK	2	1,199								2	1,199		
320 MT ANGEL-EAST	1	15			1	15				1	6		
321 MT ANGEL-WEST	18	314	5	286	11	22				4	14		
322 MT PLS-CLAIRMONT	6	1,087	3	92	2	305				1	691		
323 MT PLS-MT VIEW	1	168	1	168									
324 MT PLS-RIVRCRST	5	37	4	34	1	3							
325 MT PLS-SOUTHEND	13	148	10	141	3	7							
326 MULINO-NORTH	1	11	1	11						1	1		
327 MULINO-SOUTH	2	66	1	4	1	61							
328 MULTNOMAH 13KV	7	3,393	6	3,392	1	2				1	2		
329 MULTNOMAH-13176	5	449	4	430	1	19							
330 MULTNOMAH-13177	6	678	4	662	1	11				1	5		
331 MULTNOMAH-13181	1	2			1	2							
332 MURRAYHILL 13KV	1	995	1	995									
333 MURRAYHL-KINTON	1	21										1	21
334 MURRAYHL-QUARRY													
335 MURRAYHL-REUSER	2	158	2	158									
336 MURRAYHL-TEAL	2	88	1	59						1	29		
337 N MARION FRONT													
338 N MARION-CROSBY	13	2,955	6	2,762	4	129						3	63
339 N MARION-HUBBRD	1	5	1	5									
340 N MARION-MCLARN	7	239	2	227	3	4				2	8		
341 N PLAINS 13KV	3	66	1	60	1	3				3	6		
342 N PLAINS-M HILL	8	365	6	308	2	56				1	112		
343 NEWBERG-CHEHALM	19	1,720	5	499	7	90				6	985	1	146
344 NEWBERG-COLLEGE	4	221	3	220	1	1							
345 NEWBERG-DUNDEE	15	1,061	11	1,040	3	11				3	48		
346 NEWBERG-HOOVR PK	2	70	1	59	1	11				1	1		
347 NORTHERN-11009													
348 NORTHERN-11016													
349 NORTHERN-11071	1	25			1	25							
350 OAK HILLS 13KV	5	650	2	381	2	41						1	228

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

2013 Outages by Cause System

Feeder Name	Equipment																
	Total System		PGE Equip *		Cutout/Fuse /Arrestor Failure		Loss of Substation		Loss of Transmission		Human Element		Public		Planned		
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	
351 OAK HILLS-5 OAK	7	1,637	5	1,626										2	11		
352 OAK HILLS-BRIER	2	575	2	575										1	6		
353 OAK HILLS-SMRST	2	172	2	172													
354 OAK HILLS-WLKRD	5	173	4	170	1	4											
355 OCKLEY GRN 4KV	1	100	1	100										1	1		
356 OK GRV-LK HARRT	1	15												1	53	1	15
357 OK GRV-WT WATER																	
358 ORENCO 13KV																	
359 ORENCO PRIMATE	6	727	5	658										1	236	1	69
360 ORENCO-231ST	2	613	1	509										1	104		
361 ORENCO-AMBRGLEN	2	6,848	1	6,771										1	12	1	77
362 ORENCO-BASELINE	5	1,130	2	45										3	1,086		
363 ORENCO-WILKINS																	
364 ORIENT 13KV	15	2,699	11	2,179	3	9								1	511		
365 ORIENT-BARLOW	11	475	5	43	5	37								2	396		
366 OSWEGO-IRON MTN														1	3		
367 OSWEGO-MARYLHST	3	9			2	5								1	5		
368 OSWEGO-PALATINE	4	310	2	17	1	4								3	331		
369 OSWEGO-STAFFORD	7	167	4	83	2	83								1	1		
370 OXFORD 13KV	3	738	1	732	2	6											
371 OXFORD-FAIRVIEW	2	468	2	468													
372 OXFORD-LEE	1	103	1	103													
373 OXFORD-MADRONA	1	36	1	36										1	1		
374 OXFORD-RURAL																	
375 OXFORD-SHELTON	1	41			1	41											
376 PELTON-ROUND BUTTE																	
377 PENIN PARK 4KV																	
378 PLSNT VALY 13KV	3	788	1	38	1	1								2	763		
379 PLSNT VALY-BXTR	9	265	7	260										1	3	1	1
380 PLSNT VALY-MOON	4	2,879	2	2,874										2	4		
381 PLSNT VALY-SUN	12	2,556	3	94	2	19								8	2,661		
382 PORTLAND GRD W PUMPING																	
383 PORTSMTH-CARB	7	998	5	981	2	18								1	4		
384 PORTSMTH-DISP																	
385 PORTSMTH-WILL	4	131	2	121	1	9										1	1

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

2013 Outages by Cause System

Feeder Name	Total System		Equipment										Public		Planned	
			PGE Equip *		Cutout/Fuse /Arrestor Failure		Loss of Substation		Loss of Transmission		Human Element					
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
386 PRGRS-GREENBURG	3	450	3	450												
387 PRGRS-HALL																
388 PRGRS-ROBINSON	4	257	4	257												
389 PRGRS-SAWYER	1	19											1	19		
390 PRGRS-WSH SQ #1																
391 PRGRS-WSH SQ #2																
392 RAL H-DOGWOOD	4	219	3	125											1	94
393 RAL H-MONTCLAIR	5	434	3	360	1	29							1	45		
394 RAL H-OLESON RD	6	1,266	4	617	1	2							1	647		
395 RAMAPO 13KV	13	924	4	111	7	173							2	639		
396 RAMAPO-GILBERT	8	520	5	318	2	144							1	2	1	58
397 REDLAND 13KV	20	16,591	9	408	7	327							7	15,719	1	145
398 REDLAND-HENRICI	17	2,485	8	678	4	24							6	1,547	1	242
399 REED-BLANTON	6	8,572	2	6,504	1	96	1	6,477					2	1,972	1	0
400 REED-HAZELDALE	6	4,756	3	4,667	2	37	1	4,011					2	56		
401 REED-INTEL #1																
402 REED-INTEL #2																
403 REED-INTEL #3																
404 REED-INTEL #4																
405 REED-TV HWY	3	3,790	3	3,790			1	3,273								
406 ROCKWD 13KV	11	402	7	367	2	25							2	10		
407 ROCKWD-AIRPT WY																
408 ROCKWD-BOEING																
409 ROCKWD-INDUSTRAL																
410 ROCKWD-REYNOLDS	3	1,625	3	1,625									1	68		
411 ROCKWD-WILKES																
412 ROSEWAY 13 KV	1	6	1	6												
413 ROSEWAY-ALEXNDR																
414 ROSEWAY-ESPLANA	8	347	6	328			1	36					2	19		
415 ROUND BUTTE SPILLWAY																
416 RUBY-13502	12	676	10	661	2	15	1	31								
417 RUBY-13503	6	298	5	281	1	16										
418 RVRGATE-11010	1	6	1	6			1	6								
419 RVRGATE-11011	4	339	2	335	2	4	1	331					1	10		
420 RVRGATE-PEARCY	1	12	1	12			1	12								

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

2013 Outages by Cause System

Feeder Name	Equipment															
	Total System		PGE Equip *		Cutout/Fuse /Arrestor Failure		Loss of Substation		Loss of Transmission		Human Element		Public		Planned	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
421 RVRGATE-SWIFT	1	14	1	14			1	14								
422 RVRVIW-FULTON	5	774	4	687									1	87		
423 RVRVIW-MACADAM	2	1,000			1	32							1	969		
424 RVRVIW-TWILLIGR	2	13	1	5	1	8										
425 SALEM-13260																
426 SALEM-13261																
427 SALEM-13262																
428 SALEM-13263																
429 SALEM-13264																
430 SALEM-UNION	1	175	1	175												
431 SANDY 13KV	21	3,934	12	3,429	6	86							4	425		
432 SANDY-362ND	12	1,996	6	506	4	85							2	1,406		
433 SANDY-BLUFF	3	19	1	2	2	16										
434 SANDY-WILDCAT	14	8,021	8	7,017	3	10							2	987	1	6
435 SCHOLLS FERRY-KEMMER RD	1	14			1	14										
436 SCHOLLS FERRY-RAINBOW	8	221	4	163	3	57							2	6		
437 SCHOLLS FERRY-ROY ROGERS	4	137			4	137										
438 SCOGG-CHERRY G	7	221	4	159	3	62							1	4		
439 SCOGG-LAUREL W	13	735	3	491	3	7							5	235	3	6
440 SCOTSMILL 13KV	23	1,605	9	1,036	10	325							4	245		
441 SELLWD 13KV	2	11			2	11										
442 SELLWD-KELOG PK	7	6,582	3	6,497	4	85										
443 SELLWD-WAVERLY	1	17											1	17		
444 SHERIDAN EAST	7	588	3	198	1	86							3	305		
445 SHERIDAN-KADELL	6	129	1	11	4	116									1	2
446 SILVERTON-NORTH	8	45	5	42	2	2							1	1		
447 SILVERTON-SOUTH	10	2,942	5	2,195	3	11							2	736		
448 SILVERTON-WEST	21	2,190	9	222	8	15							6	1,983	1	68
449 SIX COR-13359	5	361	1	206	4	154										
450 SIX COR-13360	1	4	1	4												
451 SIX COR-BORCHER	3	77	1	3	2	74										
452 SIX COR-CHAPMAN	2	634	2	634									5	1,837		
453 SIX CORNER-13KV	2	71	1	68									1	3		
454 SMURFIT-NEWBERG																
455 SPRINGBK-FERNWD	4	7	1	2	1	1							2	3		

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

2013 Outages by Cause System

Feeder Name	Equipment															
	Total System		PGE Equip *		Cutout/Fuse /Arrestor Failure		Loss of Substation		Loss of Transmission		Human Element		Public		Planned	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
456 SPRINGBK-STPAUL	12	695	5	208	3	6							7	487		
457 SPRINGBK-VILLA	3	736	3	736												
458 SPRINGBK-ZIMRI	13	1,078	8	697	3	99						2	282			
459 ST LOUIS-EAST	3	10			1	2						2	8			
460 ST LOUIS-NORTH	7	36	4	30	2	5						2	3			
461 ST LOUIS-WEST	24	1,613	12	1,570	9	28	1	1,507				6	18			
462 ST MARY 13KV																
463 ST MARY-BETHANY																
464 ST MARY-BUTNER	10	485	3	118	3	89						1	8	3	270	
465 ST MARY-ELMONIC	5	487	5	487								1	11			
466 ST MARY-JENKINS																
467 ST MARY-MILLIKN	3	225	2	74	1	151										
468 STEPHN-11001	2	415	2	415			1	390								
469 STEPHN-11020	3	1,982	3	1,982			1	1,054								
470 STEPHN-11054	1	62	1	62			1	62								
471 STEPHN-11055	1	75	1	75			1	75								
472 STEPHN-11092	1	180	1	180			1	180								
473 STEPHN-11093	1	309	1	309			1	309								
474 STEPHN-11094	1	11	1	11			1	11								
475 STEPHN-11095	1	204	1	204			1	204								
476 STEPHN-11097	1	203	1	203			1	203								
477 STEPHN-11098	2	76	2	76			1	72								
478 STEPHN-11099	1	113	1	113			1	113								
479 SULL-ROBINWOOD	4	758	4	758												
480 SULL-SALAMO	1	357	1	357												
481 SULL-SUSSEX	3	261	3	261												
482 SULL-WILLAMETTE	6	250	2	174	2	69						2	8			
483 SULLIVAN-TANNER	4	110	2	109	2	1										
484 SULZER 115A																
485 SULZER 115B																
486 SULZER BINGHAM																
487 SUMMIT-GOVT CAMP	2	1,090	1	972			1	972	1	118		1	118			
488 SUMMIT-MEADOWS	2	37	1	29	1	9	1	29	1	4						
489 SUMMIT-SUMMIT	6	939	5	911			1	811	1	65		1	42	1	28	
490 SUNSET-BLANCHET	2	446	1	412								1	34			

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

2013 Outages by Cause System

Feeder Name	Equipment															
	Total System		PGE Equip *		Cutout/Fuse /Arrestor Failure		Loss of Substation		Loss of Transmission		Human Element		Public		Planned	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
526 TIGARD-13336	4	249	1	7	2	4					1	238				
527 TIGARD-13337	1	224			1	224										
528 TIGARD-13361	1	435	1	435												
529 TIGARD-13362	3	213	2	189											1	24
530 TNCTR-LAWNFIELD	2	2,118											4	2,345		
531 TNCTR-MONTEREY	3	314	2	293	1	21							1	1		
532 TNCTR-NORTH 13KV																
533 TNCTR-PRECISION																
534 TNCTR-SOUTH 13KV																
535 TNCTR-SUNNYBROOK	3	1,668			3	1,668										
536 TNCTR-VALLEY VW																
537 TROJAN PLNT E																
538 TUALATIN 13KV																
539 TUALATIN-AVERY	5	391	2	134									2	111	1	146
540 TUALATIN-CIPOLE	2	8			2	8										
541 TUALATIN-HERMAN	1	70	1	70									1	3		
542 TUALATIN-IBACH	3	1,009			1	1							2	1,008		
543 TUALATIN-LEVETON																
544 TURNER 13KV	8	279			4	7							4	124	1	155
545 TURNER-CASCADE	13	1,355	10	1,311	3	43										
546 TWILIGHT-BREMER	15	2,948	8	2,878	6	35	1	2,463					2	37		
547 UNIONVALE 13KV	27	248	11	64	12	31							1	7	3	146
548 UNIVRSITY-MILL	2	241	1	237	1	4	1	237								
549 UNIVRSITY-TRADE	3	15	1	6	2	9										
550 URBAN-BARBUR	2	3	1	2	1	1										
551 URBAN-CAMPUS																
552 URBAN-CORBETT																
553 URBAN-GAINES													1	3		
554 URBAN-GIBBS																
555 URBAN-KELLY	3	2,077			2	2,002									1	74
556 URBAN-LANDING																
557 URBAN-MEDICAL																
558 URBAN-OHSU																
559 W PTLD 13KV																
560 W PTLD-72ND	3	525	2	525									1	1		

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

2013 Outages by Cause System

Feeder Name	Total System		Equipment				Loss of Substation	Loss of Transmission	Human Element	Public	Planned		
	Outs	Hrs	PGE Equip *		Cutout/Fuse /Arrestor Failure							Outs	Hrs
491 SUNSET-COLFAX													
492 SUNSET-CORNELL	1	0	1	0			1	0					
493 SUNSET-D1X1													
494 SUNSET-DORION	1	0	1	0			1	0					
495 SUNSET-IDTB													
496 SUNSET-INTEL D1B1													
497 SUNSET-KOMATSU #1	1	0	1	0			1	0					
498 SUNSET-KOMATSU #2													
499 SUNSET-KOMATSU #3													
500 SUNSET-LANE													
501 SUNSET-MCCALL													
502 SUNSET-MEEK	2	44								1	2	1	42
503 SUNSET-PAULING													
504 SUNSET-SPALDING													
505 SUNSET-WHITMAN	1	64	1	64						1	2		
506 SUNSET-YOUNG	1	3	1	3			1	3		1	5		
507 SWAN IS-BASIN													
508 SWAN IS-DOLPHIN													
509 SWAN IS-FREIGHTLINER													
510 SWAN IS-GOING													
511 SWAN IS-SHIPYRD													
512 SYLVAN-BARNES	4	677	2	12	1	600				3	344		
513 SYLVAN-PATTON	9	754	5	419	3	40				1	295		
514 TABOR 13KV	2	634	1	6						1	629		
515 TABOR-82ND AV	3	248	1	206	2	42							
516 TABOR-HOSPITAL	3	2	3	2									
517 TEK 13KV	2	338	2	338									
518 TEK-HOCKEN	4	115	2	89						2	26		
519 TEK-NORTH													
520 TEK-SHANNON													
521 TEK-SOUTH	2	249	2	249						1	1		
522 TEK-WEST													
523 TEMP-NORTH	1	41								1	41		
524 TEMP-SOUTH	1	430	1	430									
525 TIGARD - 13 KV	5	622	3	540	1	1						1	81

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

2013 Outages by Cause System

Feeder Name	Equipment															
	Total System		PGE Equip *		Cutout/Fuse /Arrestor Failure		Loss of Substation		Loss of Transmission		Human Element		Public		Planned	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
561 W PTLN-NORTH	4	238	4	238												
562 W PTLN-PACIFIC	2	433	2	433												
563 W UNION 13KV	13	1,716	10	1,503	1	90						2	122			
564 W UNION-CORNELS	20	2,207	10	1,098	6	142						5	967			
565 WACKER																
566 WACONDA 13KV	19	2,082	6	111	9	22						4	1,949			
567 WACONDA-NORPAC	1	15										1	15			
568 WACONDA-RIVER RD	8	37	2	23	5	10						1	4			
569 WALLACE RD 13KV	19	642	8	195	6	175						4	8	2	266	
570 WELCHES 13KV	10	864	5	189	1	204			1	429				4	471	
571 WELCHES-ZIG ZAG	7	620	3	27	1	127			1	349		5	778			
572 WILLAMINA-BRIDGE	2	8			1	2						1	5			
573 WILLAMINA-BUELL	6	63	3	14	2	45						2	8			
574 WILLAMINA-LUMBER																
575 WILLBRDG #1	1	5	1	5												
576 WILLBRDG #4	1	6	1	6												
577 WILSV-BOECKMAN	3	90	1	9	1	77						1	4			
578 WILSV-CHARBNEAU	4	608	3	607								2	2			
579 WILSV-CITY	1	1	1	1												
580 WILSV-MENTORTEK																
581 WILSV-PARKWAY																
582 WILSV-VILLEBOIS																
583 WILSV-WEST	9	447	5	322								4	125			
584 WOODBURN-CANNERY	2	3	2	3												
585 WOODBURN-EAST	8	1,904	3	31	2	5						3	1,868			
586 WOODBURN-TOMLIN	5	3,185	3	125	1	281						1	2,779			
587 WOODBURN-WEST	6	726	2	292	2	5						2	429			
588 YAMHILL 13KV	14	243	4	203	7	33								3	6	
589 YAMHILL-CARLTON	20	3,062	7	2,339	9	47						5	677			
Grand Total:	2,434	542,300	1,961	383,748	673	20,081	52	130,556	5	965	2	238	545	241,589	108	10,492

Equip - Equipment Failures
Hrs - # of customers * duration hrs

Outs = Outages

* For detailed PGE equipment, see Outage by PGE Equipment report

Section VI

Outages by Cause – PGE Equipment

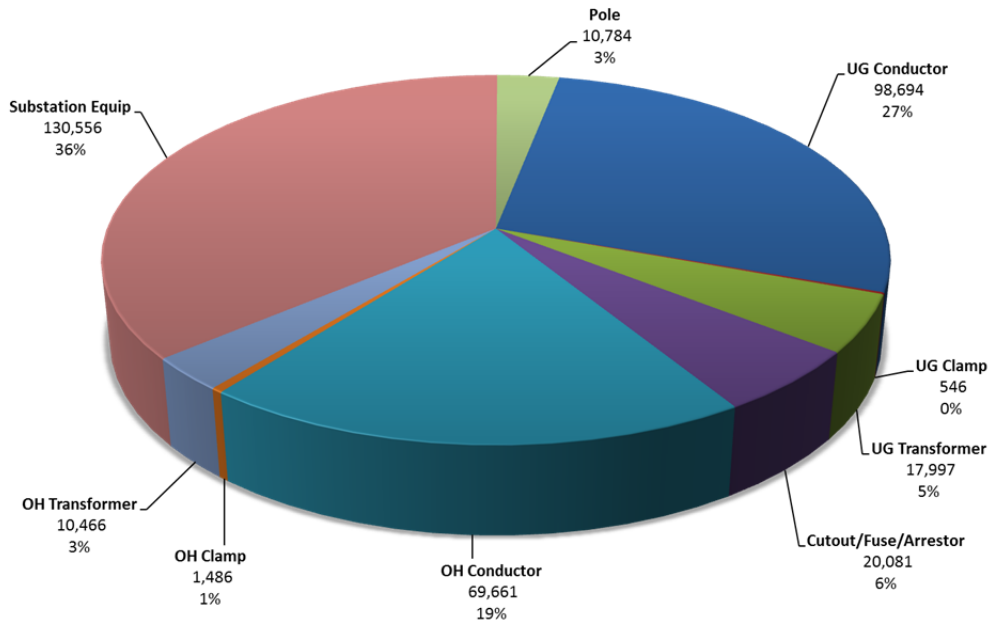
This section provides the number of customer outages (frequency) and customer outage hours (duration) caused by PGE equipment failure events. The information is presented by feeder and attributed to one of nine categories of equipment failure. Definitions for the outages caused categories are shown below:

- UG Cond: Failure of underground conductor (NOTE: This does not include failure of splices or terminations)
- UG Clamp: Failure of underground splice or termination
- UG Xfmr: Failure of underground or pad mounted transformer
- PGE Cutout/Fuse/Arrestor: Failure of fused cutout, fuse, or lightning arrestor
- OH Cond: Failure of overhead conductor (NOTE: This does not include failure of splices or terminations)
- OH Clamp: Failure of overhead splice or termination
- OH Xfmr: Failure of pole mounted transformer
- Sub: Failure of substation equipment
- Pole: Failure of pole

The graphs shown below indicate system performance for the causes within the PGE equipment events category:

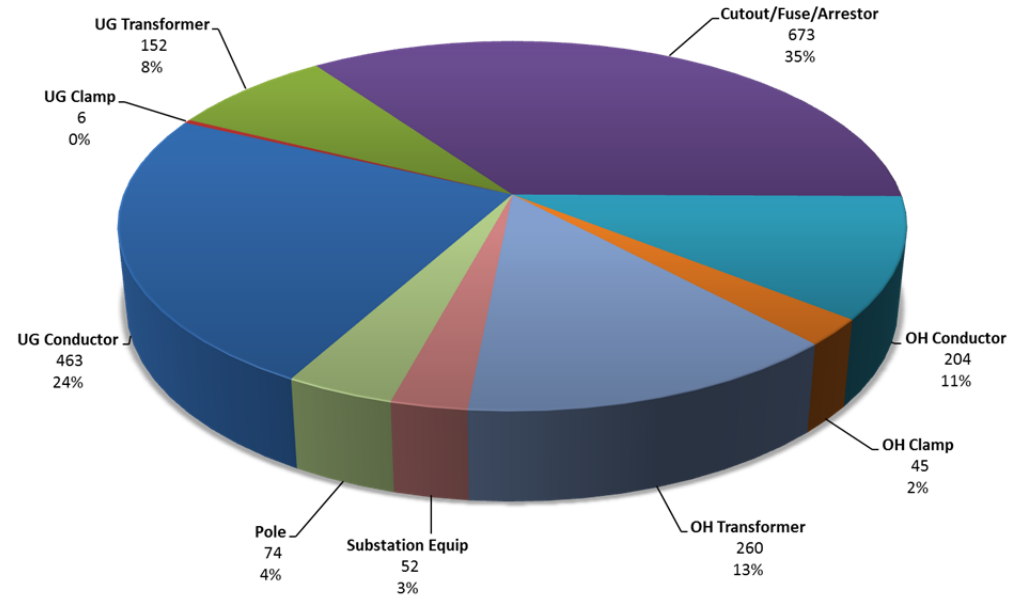
2013 Outages by Cause - PGE Equipment

Customer Hours



2013 Outages by Cause - PGE Equipment

Outage Events



2013 Outages by PGE Equipment

Feeder Name	<u>Equipment</u> * Sub-Total		<u>UG Cond</u>		<u>UG Clamp</u>		<u>UG Xfmr</u>		<u>PGE</u> <u>Cutout/Fuse</u> <u>/Arrestor</u> <u>Failure</u>		<u>OH Cond</u>		<u>OH Clamp</u>		<u>OH Xfmr</u>		<u>Sub</u>		<u>Pole</u>	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
1 ABERN-CLACK HTS																				
2 ABERN-ORE CITY	6	132	1	122					1	1	2	3			2	5				
3 ABERNETHY-TRANSIT	7	202	2	11					2	12	1	127			2	52				
4 ALDER CT-ANKENY	2	168							1	18	1	151								
5 ALDER CT-IRVING	3	4							2	2							1	2		
6 ALDER CT-LINCOLN	2	2,611							1	26									1	2,586
7 ALDER CT-STARK	6	235							5	109					1	126				
8 ALDER CT-TAYLOR	1	45															1	45		
9 ALDER CT-YAMHILL																				
10 AMITY 13KV	18	1,700	2	11					11	138	1	1,474			4	78				
11 AMITY-BELLEVUE	13	4,283	2	22					4	28	5	4,206			2	26				
12 ARLETA-52ND ST	2	7							1	1					1	6				
13 ARLETA-FOSTER	4	49							2	37					2	12				
14 ARLETA-HAROLD	2	119	1	92											1	27				
15 ARLETA-POWELL	2	410	1	220							1	190								
16 ARLETA-STEELE	2	67							2	67										
17 B LAKE-SUNDIAL	2	34	1	28							1	6								
18 B LAKE-TOYOTNSO																				
19 BANKS 13KV	11	228	1	69			1	19	5	107	1	3			2	17			1	13
20 BANKS-CEDAR CYN	6	56							2	34	2	13			2	9				
21 BARNES-BATTLCRK																				
22 BARNES-BOONE																				
23 BARNES-COMMERCL	2	7	1	4					1	3										
24 BARNES-SUNNYSID	3	212	2	211											1	1				
25 BELL-FLAVEL	2	18	1	6					1	11										
26 BELL-JOHNSEN CRK																				
27 BELL-KENDALL	3	201							2	36					1	165				
28 BELL-KING	1	21							1	21										
29 BELL-SOUTHGATE																				
30 BELL-WICHITA																				
31 BELMONT 4KV																				
32 BETHANY-BURTON	2	288					1	254	1	34										
33 BETHANY-GERMANTOWN	2	46							2	46										
34 BETHANY-KAISER	7	1,366	2	399			2	474	3	493										
35 BETHANY-LAIDLAW	1	49					1	49												

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2013 Outages by PGE Equipment

Feeder Name	<u>Equipment</u> * Sub-Total		<u>UG Cond</u>		<u>UG Clamp</u>		<u>UG Xfmr</u>		<u>PGE</u> <u>Cutout/Fuse</u> <u>/Arrestor</u> <u>Failure</u>		<u>OH Cond</u>		<u>OH Clamp</u>		<u>OH Xfmr</u>		<u>Sub</u>		<u>Pole</u>	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
36 BETHANY-SPRINGVILLE																				
37 BETHANY-THOMPSON	7	560	4	466			2	92	1	2										
38 BETHEL-FRUTLAND	6	539	4	509					1	18			1	12						
39 BETHEL-GEER	8	67	1	17					2	16	1	4			2	27			2	4
40 BETHEL-MCLAY	2	202					2	202												
41 BLUE LAKE 13 KV	1	7	1	7																
42 BOONS-GOODALL	7	1,846	6	1,836											1	11				
43 BOONS-KRUSEWAY	1	2							1	2										
44 BOONS-LK GROVE	5	469							4	464					1	5				
45 BOONS-MT PARK	5	5,369	2	5,132					1	112	1	4			1	122				
46 BOONS-WMBLY PK	1	2							1	2										
47 BORING-282ND AV	6	189	2	107					2	3					2	79				
48 BORING-CITY	6	183	2	88					3	5									1	90
49 BORING-TELFORD	10	327							3	96	1	163	1	9	3	41			2	18
50 BRIGHTWD 13KV	8	728	1	3			2	6	2	6	1	67			1	2			1	644
51 BRIGHTWD-N BANK	5	599	4	596					1	3										
52 BROOKWOOD 13KV																				
53 BROOKWOOD-BRWCK	2	3,254	1	3,246			1	8												
54 BROOKWOOD-SUNRS	2	117	2	117																
55 BVRTN-ALLEN	2	140					1	122	1	18										
56 BVRTN-JAMIESON																				
57 BVRTN-NORTHWEST																				
58 BVRTN-W SLOPE	3	6,716	1	6,644					1	70									1	2
59 CANBY-13643	20	1,045	3	110			1	11	7	86	5	652			2	9			2	177
60 CANBY-13644	2	10													2	10				
61 CANBY-BUTTEVLE	6	53							2	26	3	7			1	21				
62 CANYON 13KV	3	1,807	2	1,804									1	3						
63 CANYON-13114																				
64 CANYON-13115																				
65 CANYON-13116																				
66 CANYON-13117																				
67 CANYON-13118PSU																				
68 CANYON-13119PSU																				
69 CANYON-13120																				
70 CANYON-13121																				

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
71 CANYON-13122																				
72 CANYON-13123																				
73 CANYON-13124																				
74 CANYON-13125																				
75 CANYON-13133																				
76 CANYON-13134																				
77 CANYON-13135																				
78 CANYON-13136																				
79 CANYON-21ST AVE																				
80 CANYON-23RD AVE	3	33					1	4	1	27								1	2	
81 CANYON-BURNSIDE	4	173					1	122	3	51										
82 CARVER 13 KV	13	1,810	3	865			5	735	3	82					2	129				
83 CARVER-ALMOND	2	31	1	26											1	5				
84 CARVER-NORTH	1	1,164	1	1,164																
85 CARVER-RIVRBEND																				
86 CARVER-SOUTH																				
87 CARVER-WOODS																				
88 CEDAR HILLS 13KV																				
89 CEDAR-LEAHY	3	381	1	301					1	6					1	74				
90 CEDAR-SHOP CEN	9	1,522	2	527			1	53	3	436	1	345	1	33	1	130				
91 CEDAR-SKYLINE																				
92 CEDAR-ST VINCNT																				
93 CEDAR-SYLVAN	2	13							2	13										
94 CLACK-EVELYN	1	0							1	0										
95 CLACK-GLADSTONE	8	1,014	6	984			1	29					1	1						
96 CLACK-JENNIFER	1	2																	1	2
97 CLACK-TOLBERT	1	46													1	46				
98 CLAXTAR 13KV	2	9	1	6					1	3										
99 CLAXTAR-HAYSVIL	1	3							1	3										
100 CLAXTAR-RIDGE	2	263	2	263																
101 CNTNNIL 13KV	9	1,663	2	115					5	552	1	996			1	0				
102 CNTNNIL-BARKER	4	300							2	16					1	46			1	238
103 CNTNNIL-BRACRFT	3	1,987							2	2							1	1,985		
104 CNTNNIL-TREEAND	8	10,446	1	11					3	52			2	21	1	4	1	10,358		
105 COFFEE CREEK-FREEMAN																				

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
106 COFFEE CREEK-HOLIDAY	1	4													1	4				
107 COLTON-DHOOGHE	2	8							1	1					1	6				
108 COLTON-GRAYS HL	9	485	1	192	1	150			3	15	2	53	1	74	1	1				
109 CORNELIUS 13KV	18	13,474	6	533			1	6	5	180					5	179	1	12,577		
110 CORNELIUS-ADAIR	3	4,189							1	2							1	4,183	1	3
111 CORNELIUS-VRBRT	3	8,050							2	33							1	8,017		
112 CULVER 13KV																				
113 CULVER-GAFFIN																				
114 CULVER-SANYO #1																				
115 CULVER-SANYO #2																				
116 CURTIS 13KV	2	176													2	176				
117 CURTIS-11077																				
118 DAYTON-EAST	13	77					1	6	7	42					4	26			1	4
119 DAYTON-LAFAYETT	12	41					1	3	9	31	2	7								
120 DAYTON-S AND W	5	23	1	9					1	1					1	5			2	8
121 DELAWARE-DENVER	2	70							1	20					1	50				
122 DELAWARE-INTER																				
123 DELAWARE-LOMBRD	1	1							1	1										
124 DENNY-EAST	7	786	3	260			1	149			3	377								
125 DENNY-NORTH																				
126 DENNY-SOUTH	1	25							1	25										
127 DENNY-WEST	1	136																	1	136
128 DILLEY-13KV	6	2,534							3	11	2	2,517			1	5				
129 DILLEY-SPRINGHL																				
130 DUNNS C 13 KV	14	994	1	6					6	37	5	947	1	3					1	1
131 DUNNS C-KELSO																				
132 DURHAM 13KV																				
133 DURHAM-BONITA	2	4,486					1	100			1	4,386								
134 DURHAM-BRIDGEPORT	2	47	1	44			1	3												
135 DURHAM-SATTLER	9	1,324	7	1,256					1	4	1	64								
136 DURHAM-SOUTH	1	6									1	6								
137 E-11021																				
138 E-11039																				
139 E-11040	1	11													1	11				
140 E-11041	1	13													1	13				

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
141 E-11042																				
142 E-11043																				
143 E-11047																				
144 E-11064	1	1							1	1										
145 E-13139	2	7														2	7			
146 E-13140	2	7							1	1					1	5				
147 E-13141																				
148 E-13144	2	14							2	14										
149 E-13145	3	75							3	75										
150 E-13148																				
151 E-13149	2	23					2	23												
152 E-13150																				
153 EAGLE CR-BARTON	4	171							1	1	2	134	1	36						
154 EAGLE CR-RIVRML	3	974	1	65									1	190					1	719
155 EASTPORT-76TH	3	173	2	171					1	1										
156 EASTPORT-PLAZA	3	444	1	298					1	50					1	96				
157 ELMA 13KV	4	504	3	499					1	5										
158 ELMA-4 CORNERS	5	729	2	338			2	325	1	66										
159 ELMA-HUDSON	2	94	1	88					1	6										
160 ELMA-STATE 13KV	1	10							1	10										
161 ESTACADA 13KV	4	1,393	1	83					1	2	2	1,308								
162 ESTACADA-FARADY	15	1,274	1	5			2	24	8	1,214					4	31				
163 FAIRMT-CNDLARIA	4	147							4	147										
164 FAIRMT-MISSION	4	97							3	90					1	7				
165 FAIRVIEW 13 KV	2	5,005					1	263									1	4,742		
166 FAIRVIEW-CLRCK																				
167 FAIRVIEW-K CLUB	2	112	1	108									1	4						
168 FAIRVIEW-TROUTD	3	16,248	1	114											1	12	1	16,122		
169 FAIRVIEW-W VILL	8	6,875	4	103			1	48	1	5					1	23	1	6,696		
170 FARGO 13KV	19	422	5	370					9	28					5	25				
171 G HOME-MCKAY	5	410	1	74					3	15	1	321								
172 G HOME-METZGER	6	161	3	152					3	9										
173 GALES CRK 13KV	3	28							3	28										
174 GLENCOE-GLISAN	4	467							1	36	3	430								
175 GLENCOE-PROVID																				

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
176	GLENCOE-SUNNY	2	5,404								1	5,109			1	295				
177	GLISAN-FAB 2A																			
178	GLISAN-UTIL 1B																			
179	GLNCLN-BRIDLMIL	4	97	1	68			2	3					1	26					
180	GLNCLN-SUNSET	3	158	1	33					1	121			1	4					
181	GLNDOVEER-13596	3	142	2	111									1	30					
182	GLNDOVEER-13597	3	334	1	292			1	4			1	37							
183	GLNDOVEER-13598	3	180							1	131			2	49					
184	GLNDOVEER-13599	1	13					1	13											
185	GLNDOVEER-CLFGT	5	899	2	517			1	37	1	323			1	21					
186	GLNDOVEER-NEAST	2	36											1	35				1	1
187	GRAND AV 4KV																			
188	GRND RND-AGENCY	4	403					3	362										1	41
189	GRND RND-FORTHIL	4	48					1	33					3	16					
190	HABRTN-BURLINTN	16	1,349	4	27			3	6	3	1,066	1	3	3	20				2	226
191	HABRTN-LINNTON	6	93							1	51			5	42					
192	HARBORTON 13KV																			
193	HARMONY 13KV																			
194	HARMONY-INTERNATIONA L																			
195	HARMONY-LAKE	4	1,134	2	47			1	1	1	1,087									
196	HARMONY-LINNWOD	5	5,128	1	2			1	9	1	5,102			2	16					
197	HARMONY-MILWAKI	3	180	1	174			1	3	1	4									
198	HARMONY-THIESEN	2	9					1	5					1	4					
199	HARRISON 13KV	3	39											1	6				2	32
200	HARRISON-DAVIS	3	70					1	64									1	2	4
201	HARRISON-IVON	3	41					2	39									1	2	
202	HEMLOCK 13KV	6	784	5	614		1	170												
203	HEMLOCK-FREMONT	1	304				1	304												
204	HEMLOCK-MASON																			
205	HILLCREST 13KV																			
206	HILLCREST-CASCADIA																			
207	HILLCREST-REED	2	645	2	645															
208	HILLCREST-SOUTH	1	2					1	2											
209	HILLS-DAIRY CREEK	6	1,486	4	1,483			2	3											
210	HILLS-DENNIS	1	1					1	1											

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
211 HILLS-JACKSON	2	33							2	33										
212 HILLS-LAUREL	16	51					1	6	9	28	4	14	2	4						
213 HILLS-SCHOLLS	3	71	1	70					2	2										
214 HOGAN N 13KV	7	868					2	119	1	96	3	641			1	12				
215 HOGAN N-BRGDOON	2	2,187					1	2,185	1	2										
216 HOGAN N-LINKS	16	1,388	12	1,360					2	19	2	9								
217 HOGAN N-SLQUIST	5	994	1	104			2	63	2	828										
218 HOGAN S-CLEVLND	4	7,229	4	7,229																
219 HOGAN S-LAWRNCE	8	1,785	4	1,245			1	152	2	138									1	249
220 HOGAN S-MAIN	3	417	3	417																
221 HOGAN S-PAROPA	5	5,686	2	5,641											1	34	1	3	1	9
222 HOGAN S-WALLULA	2	163	1	160											1	3				
223 HOLGATE 13KV	3	143											1	138	2	5				
224 HOLGATE-BYBEE	5	909	2	858							1	7			2	43				
225 HOLGATE-GIDEON	3	234							3	234										
226 HOLGATE-KENLWOR	2	75							1	9									1	66
227 HOLGATE-RHONE	3	39							1	12									2	27
228 HUBER 13KV	7	971	1	921					2	5	4	45								
229 HUBER-BANY	6	583	6	583																
230 HUBER-FRMINGTON	2	23							1	6					1	17				
231 HUBER-KINNAMON	11	688	4	516			2	139	4	17					1	16				
232 HUBER-MARYVILLE	8	4,267	5	945					1	127	2	3,195								
233 HYDN IS-MALAND																				
234 HYDN IS-N SHORE	2	12	1	8	1	5														
235 HYDN IS-S SHORE																				
236 INDIAN-KEIZER	4	371	2	136			2	234												
237 INDIAN-LABISH	5	9							5	9										
238 INDIAN-NORTH	5	60	1	8			1	42	2	4	1	5								
239 INDIAN-STATION	3	129	3	129																
240 INDIAN-WEST	17	1,766	9	1,079			2	118	1	6	2	421			3	142				
241 ISLAND 13KV	1	417									1	417								
242 ISLAND-13180	6	181	1	135					4	35			1	11						
243 ISLAND-13187	7	612	4	107							3	505								
244 ISLAND-13188	4	54							2	14	1	39	1	1						
245 JEN LDG 13KV	9	6,704	2	68			1	81	3	72	1	86			1	47	1	6,351		

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	
246 JEN LDG-MELDRUM	4	4,345					1	192	2	26							1	4,127			
247 JEN LDG-O GROVE	2	166					1	105											1	61	
248 JEN LDG-WEBSTER	18	1,391	5	1,159	2	1			9	198					2	33					
249 KELLEY POINT-LEDBETTER	2	18	1	7			1	11													
250 KELLEY POINT-SOLAR1																					
251 KELLEY POINT-SOLAR2																					
252 KELLEY PT 13 KV																					
253 KING CTY-BULL MT	3	4,351	1	516					1	60							1	3,775			
254 KING CTY-FISCHER	2	4,873	1	143													1	4,730			
255 KING CTY-HAZEL B	3	2,597	2	200													1	2,397			
256 KING CTY-NORTH	4	3,293	2	18					1	29							1	3,246			
257 KING CTY-SUMERFL	3	4,698	1	748												1	5	1	3,945		
258 KLY BU-BINNSMED	6	16,227	1	8,272			1	4	1	16						1	23	1	7,876	1	36
259 KLY BU-FAIRLAWN	3	508	1	390												2	118				
260 KLY BU-MALL 205	8	6,924	2	149					3	51		1	89	1	146		1	6,489			
261 KLY BU-MC GREW	4	215							2	9		1	55	1	151						
262 KLY PT-MARINEDR																					
263 KLY PT-SIMMONS																					
264 LAKE LABISH 4KV																					
265 LELAND-BEAVERC	9	257	1	138			1	78	4	20						3	20				
266 LELAND-CARUS	8	84	1	62					5	9	1	5				1	7				
267 LELAND-KELM																					
268 LENTS-13101	7	486	1	159					3	40	1	228				2	58				
269 LENTS-HAPPY VAL	4	65	1	43					1	2			1	6		1	14				
270 LENTS-MT SCOTT	3	14							3	14											
271 LENTS-NORTH	1	40														1	40				
272 LIB-BROWNING	1	80							1	80											
273 LIB-LONE OAK	4	192	3	182					1	10											
274 LIB-MORNINGSIDE	2	43	1	30													1	13			
275 LIB-ROSEDALE	4	115	1	8			2	74								1	34				
276 LIB-VISTA	4	237	2	234					1	2	1	1									
277 LIBERAL 13KV	4	13	1	8					3	5											
278 LIBERAL-SAWMILL																					
279 LIBERTY-SKYLINE	9	635	7	626							1	1				1	8				
280 MAIN-AIRPORT	10	712	6	460					3	164									1	87	

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2013 Outages by PGE Equipment

Feeder Name	<u>Equipment</u> <u>* Sub-Total</u>		<u>UG Cond</u>		<u>UG Clamp</u>		<u>UG Xfmr</u>		<u>PGE</u> <u>Cutout/Fuse</u> <u>/Arrestor</u> <u>Failure</u>		<u>OH Cond</u>		<u>OH Clamp</u>		<u>OH Xfmr</u>		<u>Sub</u>		<u>Pole</u>		
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	
281 MAIN-BENTLEY	5	165	2	22					3	142											
282 MAIN-EXPRESS	4	210	4	210																	
283 MAIN-GRIFFIN																					
284 MAIN-JFS1																					
285 MAIN-JONES FARM																					
286 MAIN-RVR RD	13	3,541	7	765			1	118	4	800	1	1,858									
287 MC CL-COTTAGE	3	9							3	9											
288 MC CL-FRONT ST																					
289 MC CL-HOLLYWOOD	1	213	1	213																	
290 MCGILL-LSIAIR1A																					
291 MCMINNVILLE W AND L																					
292 MERIDIAN 13KV	4	194	2	175					1	2	1	17									
293 MERIDIAN-65TH																					
294 MERIDIAN-BORLND	2	327	1	320									1	7							
295 MERIDIAN-CHILDS																					
296 MERIDIAN-LAKEVIEW																					
297 MERIDIAN-NYBERG																					
298 MERIDIAN-PLKNGTN	9	3,859	5	473			2	131	1	19						1	3,236				
299 MERIDIAN-SAGERT																					
300 MIDGROVE-BROWN	4	38					1	20					1	0	2	18					
301 MIDGROVE-CHEMEK																					
302 MIDGROVE-CORDON	7	292	2	146			1	43	2	6	2	98									
303 MIDGROVE-SWEGLE																					
304 MIDGROVE-WEST	4	1,577			1	369	2	1,169	1	39											
305 MIDWAY-DIVISION	1	15							1	15											
306 MIDWAY-DOUGLAS	1	240	1	240																	
307 MIDWAY-LYNCH	4	67					1	43	2	22						1	2				
308 MIDWAY-POWELHST	12	714	1	119					4	87	2	339				4	164			1	4
309 MILL CREEK 13KV	4	354	1	116			1	137	2	100											
310 MILL CREEK-EASTLAND	10	108	4	97					3	5			1	2	2	5					
311 MILL CREEK-KUEBLER																					
312 MOLALLA-BUCKAROO	5	263	1	256					4	7											
313 MOLALLA-FOREST	4	195	1	164					2	25						1	6				
314 MOLALLA-MARQUAM	14	176							7	48			1	2	4	12				2	114
315 MOLALLA-YODER	7	172					3	155	3	14										1	3

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2013 Outages by PGE Equipment

Feeder Name	Equipment * Sub-Total		UG Cond		UG Clamp		UG Xfmr		PGE Cutout/Fuse /Arrestor Failure		OH Cond		OH Clamp		OH Xfmr		Sub		Pole	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
316 MRKT ST-ENGLEWD	1	20							1	20										
317 MRKT ST-FAIRGND	4	296							4	296										
318 MRKT ST-HAWTHNE	1	46									1	46								
319 MRKT ST-PARK																				
320 MT ANGEL-EAST	1	15							1	15										
321 MT ANGEL-WEST	16	307	2	255					11	22	1	21			1	6			1	3
322 MT PLS-CLAIRMONT	5	396	1	8			1	3	2	305					1	82				
323 MT PLS-MT VIEW	1	168	1	168																
324 MT PLS-RIVRCRST	5	37					1	1	1	3		1	29		1	2			1	2
325 MT PLS-SOUTHEND	13	148	8	137					3	7		2	4							
326 MULINO-NORTH	1	11									1	11								
327 MULINO-SOUTH	2	66					1	4	1	61										
328 MULTNOMAH 13KV	7	3,393	5	2,793					1	2	1	599								
329 MULTNOMAH-13176	5	449							1	19	2	276			2	154				
330 MULTNOMAH-13177	5	673	3	655					1	11					1	7				
331 MULTNOMAH-13181	1	2							1	2										
332 MURRAYHILL 13KV	1	995	1	995																
333 MURRAYHL-KINTON																				
334 MURRAYHL-QUARRY																				
335 MURRAYHL-REUSER	2	158	1	121			1	38												
336 MURRAYHL-TEAL	1	59					1	59												
337 N MARION FRONT																				
338 N MARION-CROSBY	10	2,892	5	2,761					4	129	1	2								
339 N MARION-HUBBRD	1	5					1	5												
340 N MARION-MCLARN	5	230							3	4	2	227								
341 N PLAINS 13KV	2	63							1	3	1	60								
342 N PLAINS-M HILL	8	365	1	18					2	56	2	145			1	7			2	138
343 NEWBERG-CHEHALM	12	589	1	24					7	90	2	219	1	253	1	3				
344 NEWBERG-COLLEGE	4	221					3	220	1	1										
345 NEWBERG-DUNDEE	14	1,051	4	171			1	18	3	11	2	151			4	700				
346 NEWBERG-HOOVR PK	2	70							1	11					1	59				
347 NORTHERN-11009																				
348 NORTHERN-11016																				
349 NORTHERN-11071	1	25							1	25										
350 OAK HILLS 13KV	4	422	1	16					2	41									1	365

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Feeder Name	<u>Equipment</u> * Sub-Total		<u>UG Cond</u>		<u>UG Clamp</u>		<u>UG Xfmr</u>		<u>PGE</u> <u>Cutout/Fuse</u> <u>/Arrestor</u> <u>Failure</u>		<u>OH Cond</u>		<u>OH Clamp</u>		<u>OH Xfmr</u>		<u>Sub</u>		<u>Pole</u>	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
351 OAK HILLS-5 OAK	4	1,367	1	14			3	1,353												
352 OAK HILLS-BRIER	2	575					2	575												
353 OAK HILLS-SMRST	2	172	1	70							1	102								
354 OAK HILLS-WLKRD	5	173					4	170	1	4										
355 OCKLEY GRN 4KV	1	100													1	100				
356 OK GRV-LK HARRT																				
357 OK GRV-WT WATER																				
358 ORENCO 13KV																				
359 ORENCO PRIMATE	5	658	4	529											1	129				
360 ORENCO-231ST	1	509	1	509																
361 ORENCO-AMBRGLEN																				
362 ORENCO-BASELINE	2	45					1	42							1	3				
363 ORENCO-WILKINS																				
364 ORIENT 13KV	14	2,188	1	1,418			1	22	3	9	7	615			1	14			1	111
365 ORIENT-BARLOW	10	79	1	2			1	1	5	37	1	17			2	23				
366 OSWEGO-IRON MTN																				
367 OSWEGO-MARYLHST	2	5							2	5										
368 OSWEGO-PALATINE	3	20							1	4	2	17								
369 OSWEGO-STAFFORD	6	166	1	47					2	83	2	7							1	29
370 OXFORD 13KV	3	738							2	6	1	732								
371 OXFORD-FAIRVIEW	2	468	1	215			1	253												
372 OXFORD-LEE	1	103					1	103												
373 OXFORD-MADRONA	1	36	1	36																
374 OXFORD-RURAL																				
375 OXFORD-SHELTON	1	41							1	41										
376 PELTON-ROUND BUTTE																				
377 PENIN PARK 4KV																				
378 PLSNT VALY 13KV	2	40	1	38					1	1										
379 PLSNT VALY-BXTR	7	260					4	245							3	15				
380 PLSNT VALY-MOON	2	2,874	1	493															1	2,381
381 PLSNT VALY-SUN	5	113	1	85			1	5	2	19					1	4				
382 PORTLAND GRD W PUMPING																				
383 PORTSMTH-CARB	7	998	1	298			1	638	2	18	2	12			1	33				
384 PORTSMTH-DISP																				
385 PORTSMTH-WILL	3	130					2	121	1	9										

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Feeder Name	<u>Equipment</u> * Sub-Total		<u>UG Cond</u>		<u>UG Clamp</u>		<u>UG Xfmr</u>		<u>PGE</u> <u>Cutout/Fuse</u> <u>/Arrestor</u> <u>Failure</u>		<u>OH Cond</u>		<u>OH Clamp</u>		<u>OH Xfmr</u>		<u>Sub</u>		<u>Pole</u>	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
386 PRGRS-GREENBURG	3	450	1	109			1	6											1	336
387 PRGRS-HALL																				
388 PRGRS-ROBINSON	4	257					4	257												
389 PRGRS-SAWYER																				
390 PRGRS-WSH SQ #1																				
391 PRGRS-WSH SQ #2																				
392 RAL H-DOGWOOD	3	125									1	114			2	11				
393 RAL H-MONTCLAIR	4	389	1	302					1	29	1	34	1	24						
394 RAL H-OLESON RD	5	619	1	29					1	2					2	98			1	490
395 RAMAPO 13KV	11	284	1	10			1	82	7	173	1	13			1	6				
396 RAMAPO-GILBERT	7	462	1	142					2	144	1	28			3	149				
397 REDLAND 13KV	16	736	3	164					7	327	2	218	1	3	2	20			1	4
398 REDLAND-HENRICI	12	702	4	657			1	16	4	24					2	3			1	2
399 REED-BLANTON	3	6,600	1	27					1	96								1	6,477	
400 REED-HAZELDALE	5	4,705	2	656					2	37								1	4,011	
401 REED-INTEL #1																				
402 REED-INTEL #2																				
403 REED-INTEL #3																				
404 REED-INTEL #4																				
405 REED-TV HWY	3	3,790	1	215			1	302										1	3,273	
406 ROCKWD 13KV	9	392	4	194			1	57	2	25			1	58	1	59				
407 ROCKWD-AIRPT WY																				
408 ROCKWD-BOEING																				
409 ROCKWD-INDUSTRL																				
410 ROCKWD-REYNOLDS	3	1,625	2	1,288			1	337												
411 ROCKWD-WILKES																				
412 ROSEWAY 13 KV	1	6													1	6				
413 ROSEWAY-ALEXNDR																				
414 ROSEWAY-ESPLANA	6	328	3	182			2	111										1	36	
415 ROUND BUTTE SPILLWAY																				
416 RUBY-13502	12	676	4	318			3	285	2	15	1	18			1	9		1	31	
417 RUBY-13503	6	298	5	281					1	16										
418 RVRGATE-11010	1	6																1	6	
419 RVRGATE-11011	4	339							2	4			1	4				1	331	
420 RVRGATE-PEARCY	1	12																1	12	

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
421 RVRGATE-SWIFT	1	14															1	14		
422 RVRVIW-FULTON	4	687	4	687																
423 RVRVIW-MACADAM	1	32							1	32										
424 RVRVIW-TWILLIGR	2	13							1	8			1	5						
425 SALEM-13260																				
426 SALEM-13261																				
427 SALEM-13262																				
428 SALEM-13263																				
429 SALEM-13264																				
430 SALEM-UNION	1	175					1	175												
431 SANDY 13KV	18	3,515	4	176			1	39	6	86	4	3,076	1	119	2	19				
432 SANDY-362ND	10	590	2	122					4	85	4	384								
433 SANDY-BLUFF	3	19							2	16					1	2				
434 SANDY-WILDCAT	11	7,027					1	224	3	10	5	6,784			2	10				
435 SCHOLLS FERRY-KEMMER RD	1	14							1	14										
436 SCHOLLS FERRY-RAINBOW	7	221	1	7					3	57					1	4			2	153
437 SCHOLLS FERRY-ROY ROGERS	4	137							4	137										
438 SCOGG-CHERRY G	7	221	1	5					3	62					3	154				
439 SCOGG-LAUREL W	6	498							3	7					2	488			1	4
440 SCOTSMILL 13KV	19	1,360	1	8			1	5	10	325	4	1,000			1	4			2	20
441 SELLWD 13KV	2	11							2	11										
442 SELLWD-KELOG PK	7	6,582							4	85	1	6,488			2	10				
443 SELLWD-WAVERLY																				
444 SHERIDAN EAST	4	283					1	32	1	86	2	166								
445 SHERIDAN-KADELL	5	127	1	11					4	116										
446 SILVERTON-NORTH	7	44	1	18					2	2	1	9	1	1	2	14				
447 SILVERTON-SOUTH	8	2,206	1	162					3	11	3	1,934							1	100
448 SILVERTON-WEST	17	237					2	42	8	15	2	159			4	18			1	3
449 SIX COR-13359	5	361							4	154	1	206								
450 SIX COR-13360	1	4									1	4								
451 SIX COR-BORCHER	3	77							2	74									1	3
452 SIX COR-CHAPMAN	2	634					1	619							1	15				
453 SIX CORNER-13KV	1	68					1	68												
454 SMURFIT-NEWBERG																				

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	
455 SPRINGBK-FERNWD	2	3							1	1									1	2	
456 SPRINGBK-STPAUL	8	214	2	190					3	6					2	16			1	3	
457 SPRINGBK-VILLA	3	736	2	507							1	229									
458 SPRINGBK-ZIMRI	11	797	6	694					3	99									2	3	
459 ST LOUIS-EAST	1	2							1	2											
460 ST LOUIS-NORTH	6	35							2	5	1	13	1	6	2	12					
461 ST LOUIS-WEST	21	1,598	2	16					9	28	2	20	2	4	2	14	1	1,507	3	10	
462 ST MARY 13KV																					
463 ST MARY-BETHANY																					
464 ST MARY-BUTNER	6	206	1	56					3	89	1	47			1	14					
465 ST MARY-ELMONIC	5	487	2	202			2	281							1	3					
466 ST MARY-JENKINS																					
467 ST MARY-MILLIKN	3	225	2	74					1	151											
468 STEPHN-11001	2	415											1	25			1	390			
469 STEPHN-11020	3	1,982														1	9	1	1,054	1	919
470 STEPHN-11054	1	62																1	62		
471 STEPHN-11055	1	75																1	75		
472 STEPHN-11092	1	180																1	180		
473 STEPHN-11093	1	309																1	309		
474 STEPHN-11094	1	11																1	11		
475 STEPHN-11095	1	204																1	204		
476 STEPHN-11097	1	203																1	203		
477 STEPHN-11098	2	76									1	4						1	72		
478 STEPHN-11099	1	113																1	113		
479 SULL-ROBINWOOD	4	758	2	206			1	468			1	83									
480 SULL-SALAMO	1	357	1	357																	
481 SULL-SUSSEX	3	261	2	255			1	7													
482 SULL-WILLAMETTE	4	243	1	128					2	69					1	47					
483 SULLIVAN-TANNER	3	91	1	90					2	1											
484 SULZER 115A																					
485 SULZER 115B																					
486 SULZER BINGHAM																					
487 SUMMIT-GOVT CAMP	1	972																1	972		
488 SUMMIT-MEADOWS	2	37							1	9								1	29		
489 SUMMIT-SUMMIT	4	909					1	14			2	83						1	811		

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
490 SUNSET-BLANCHET																				
491 SUNSET-COLFAX																				
492 SUNSET-CORNELL	1	0															1	0		
493 SUNSET-D1X1																				
494 SUNSET-DORION	1	0															1	0		
495 SUNSET-IDTB																				
496 SUNSET-INTEL D1B1																				
497 SUNSET-KOMATSU #1	1	0															1	0		
498 SUNSET-KOMATSU #2																				
499 SUNSET-KOMATSU #3																				
500 SUNSET-LANE																				
501 SUNSET-MCCALL																				
502 SUNSET-MEEK																				
503 SUNSET-PAULING																				
504 SUNSET-SPALDING																				
505 SUNSET-WHITMAN	1	64	1	64																
506 SUNSET-YOUNG	1	3															1	3		
507 SWAN IS-BASIN																				
508 SWAN IS-DOLPHIN																				
509 SWAN IS-FREIGHTLINER																				
510 SWAN IS-GOING																				
511 SWAN IS-SHIPYRD																				
512 SYLVAN-BARNES	3	612							1	600	1	8			1	4				
513 SYLVAN-PATTON	8	459	2	220	1	22			3	40	2	177								
514 TABOR 13KV	1	6													1	6				
515 TABOR-82ND AV	3	248							2	42	1	206								
516 TABOR-HOSPITAL	1	1	1	1																
517 TEK 13KV	2	338	1	148			1	190												
518 TEK-HOCKEN	2	89	2	89																
519 TEK-NORTH																				
520 TEK-SHANNON																				
521 TEK-SOUTH	2	249	2	249																
522 TEK-WEST																				
523 TEMP-NORTH																				
524 TEMP-SOUTH																				

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	
525 TIGARD - 13 KV	4	541	3	540					1	1											
526 TIGARD-13336	3	11							2	4	1	7									
527 TIGARD-13337	1	224							1	224											
528 TIGARD-13361	1	435	1	435																	
529 TIGARD-13362	2	189	2	189																	
530 TNCTR-LAWNFIELD																					
531 TNCTR-MONTEREY	3	314					1	258	1	21			1	34							
532 TNCTR-NORTH 13KV																					
533 TNCTR-PRECISION																					
534 TNCTR-SOUTH 13KV																					
535 TNCTR-SUNNYBROOK	3	1,668							3	1,668											
536 TNCTR-VALLEY VW																					
537 TROJAN PLNT E																					
538 TUALATIN 13KV																					
539 TUALATIN-AVERY	2	134	1	40			1	94													
540 TUALATIN-CIPOLE	2	8							2	8											
541 TUALATIN-HERMAN	1	70					1	70													
542 TUALATIN-IBACH	1	1							1	1											
543 TUALATIN-LEVETON																					
544 TURNER 13KV	4	7							4	7											
545 TURNER-CASCADE	13	1,355					2	4	3	43	4	985	1	194	3	129					
546 TWILIGHT-BREMER	14	2,913	3	401					6	35	1	2	1	1	2	11	1	2,463			
547 UNIONVALE 13KV	23	95	3	20			1	6	12	31	4	20	1	7	2	12					
548 UNIVRSITY-MILL	2	241							1	4							1	237			
549 UNIVRSITY-TRADE	3	15							2	9											
550 URBAN-BARBUR	2	3							1	1					1	2				1	6
551 URBAN-CAMPUS																					
552 URBAN-CORBETT																					
553 URBAN-GAINES																					
554 URBAN-GIBBS																					
555 URBAN-KELLY	2	2,002								2,002											
556 URBAN-LANDING																					
557 URBAN-MEDICAL																					
558 URBAN-OHSU																					
559 W PTLTD 13KV																					

Hrs - # of customers * duration hrs
Outs = Outages

UG = Underground
OH = Overhead

Xfmr = Transformer
Sub = Substation Equipment

Cond = Conductor
* Sub-Total Equipment - is sub-total of equipment identified by component type

2013 Outages by PGE Equipment

Feeder Name	Equipment * Sub-Total		UG Cond		UG Clamp		UG Xfmr		PGE Cutout/Fuse /Arrestor Failure		OH Cond		OH Clamp		OH Xfmr		Sub		Pole	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
560 W PTLD-72ND	2	525	1	4							1	520								
561 W PTLD-NORTH	4	238	1	24							1	106			2	108				
562 W PTLD-PACIFIC	2	433	1	83											1	350				
563 W UNION 13KV	11	1,593	8	1,229			1	190	1	90					1	84				
564 W UNION-CORNELS	16	1,240	2	13			2	101	6	142	1	935	1	9	4	39				
565 WACKER																				
566 WACONDA 13KV	15	133	4	25					9	22	1	81			1	6				
567 WACONDA-NORPAC																				
568 WACONDA-RIVER RD	7	33	1	13			1	10	5	10										
569 WALLACE RD 13KV	14	369							6	175	2	148	1	2	5	45				
570 WELCHES 13KV	6	393					4	147	1	204					1	42				
571 WELCHES-ZIG ZAG	4	154							1	127	2	20			1	7				
572 WILLAMINA-BRIDGE	1	2							1	2										
573 WILLAMINA-BUELL	5	59							2	45	1	3			2	11				
574 WILLAMINA-LUMBER																				
575 WILLBRDG #1	1	5													1	5				
576 WILLBRDG #4	1	6													1	6				
577 WILSV-BOECKMAN	2	86							1	77					1	9				
578 WILSV-CHARBNEAU	3	607	1	243			1	361							1	3				
579 WILSV-CITY	1	1	1	1																
580 WILSV-MENTORTEK																				
581 WILSV-PARKWAY																				
582 WILSV-VILLEBOIS																				
583 WILSV-WEST	4	318	4	318																
584 WOODBURN-CANNERY	2	3																	2	3
585 WOODBURN-EAST	4	15							2	5	1	3			1	7				
586 WOODBURN-TOMLIN	4	405	1	110					1	281					2	14				
587 WOODBURN-WEST	4	297	1	279					2	5									1	13
588 YAMHILL 13KV	11	236					1	9	7	33	1	115			1	7			1	73
589 YAMHILL-CARLTON	16	2,387	1	26			1	233	9	47	3	2,069			1	7			1	5
Grand Total:	1,929	360,262	463	98,684	6	546	152	17,997	673	20,081	204	69,661	45	1,486	260	10,466	52	130,556	74	10,784

Hrs - # of customers * duration hrs
Outs = Outages

UG = Underground
OH = Overhead

Xfmr = Transformer
Sub = Substation Equipment

Cond = Conductor
* Sub-Total Equipment - is sub-total of equipment identified by component type

Section VII

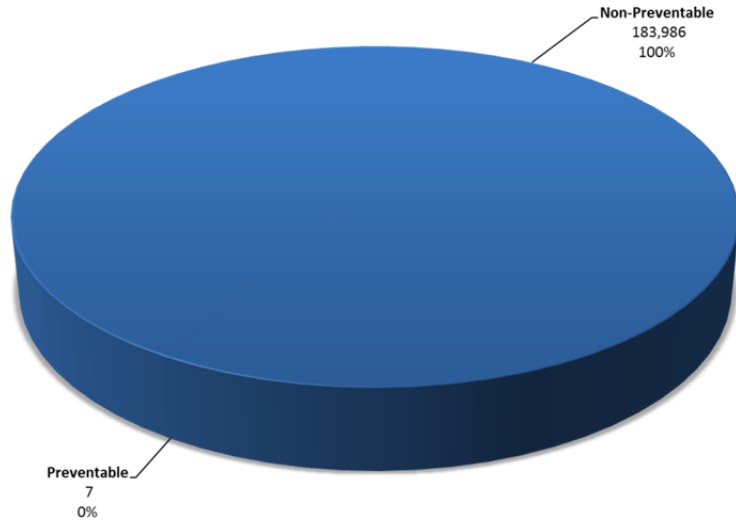
Outages by Cause – Vegetation

This section provides the number of customer outages (frequency) and customer outage hours (duration) caused by vegetation events. The information is presented by feeder and attributed to one of three primary categories and one of three subcategories, if applicable, of vegetation related events. Definitions for the primary and sub-categories are shown below:

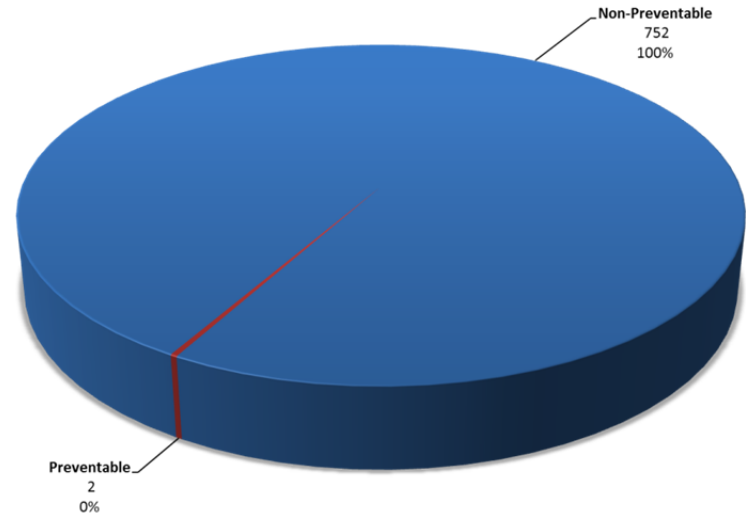
- **Total Trees:** Total number of vegetation (i.e. tree) related outages. This category is the sum of Non-Preventable and Preventable outages.
- **Total Non-Preventable:** Total number uprooted trees, tree limbs, and broken/felled trees that resulted in an outage.
 - **Uprooted:** Outages caused by the whole tree uprooting. This does not include broken tree parts (e.g. limb or tree top).
 - **Limb:** Outages caused by broken tree tops or limbs
 - **Tree Broken or Felled Into:** Outages caused by a member of the public falling a tree or working in a tree. The type of event is considered negligence and is addressed through PGE's safety campaign (in lieu of the PGE tree trimming program).
- **Total Preventable (Tree Contact):** Total number of outages caused by a tree growing into the conductor. This also includes tree burning events.

The graphs shown below indicate system performance for the primary and sub-cause categories within the Vegetation events category:

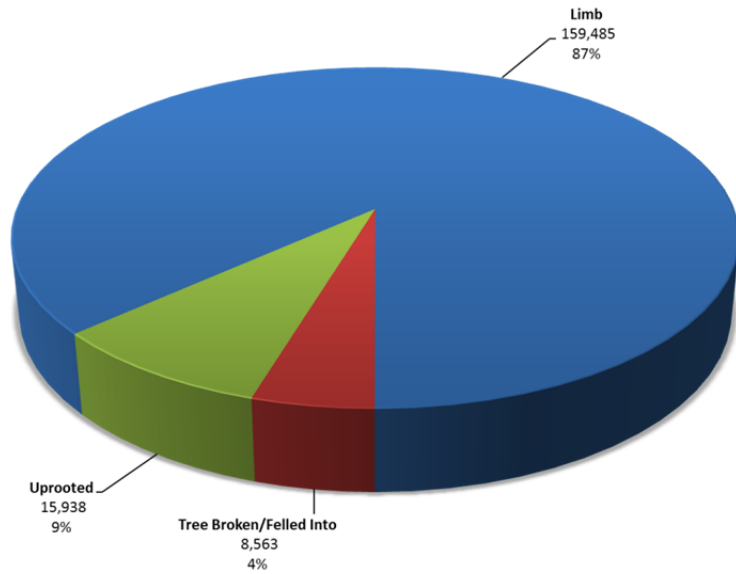
2013 Outages by Cause - Vegetation
Customer Hours



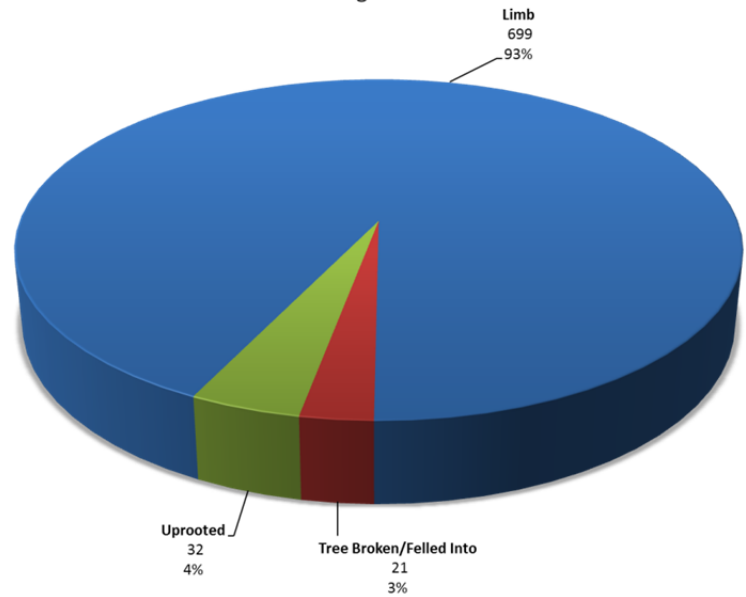
2013 Outages by Cause - Vegetation
Outage Events



2013 Outages by Cause - Non-Preventable Vegetation Events
Customer Hours



2013 Outages by Cause - Non-Preventable Vegetation Events
Outage Events



2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
1	ABERN-CLACK HTS												
2	ABERN-ORE CITY	6	606	6	606			6	606				
3	ABERNETHY-TRANSIT												
4	ALDER CT-ANKENY	1	2,191	1	2,191					1	2,191		
5	ALDER CT-IRVING												
6	ALDER CT-LINCOLN												
7	ALDER CT-STARK												
8	ALDER CT-TAYLOR												
9	ALDER CT-YAMHILL												
10	AMITY 13KV	3	7	3	7			3	7				
11	AMITY-BELLEVUE	4	279	4	279			4	279				
12	ARLETA-52ND ST	3	177	3	177			3	177				
13	ARLETA-FOSTER												
14	ARLETA-HAROLD	1	1									1	1
15	ARLETA-POWELL												
16	ARLETA-STEELE												
17	B LAKE-SUNDIAL												
18	B LAKE-TOYOTNSO												
19	BANKS 13KV	1	152	1	152			1	152				
20	BANKS-CEDAR CYN	14	1,534	14	1,534	3	218	11	1,316				
21	BARNES-BATTLCKR												
22	BARNES-BOONE												
23	BARNES-COMMERCL												
24	BARNES-SUNNYSID	1	158	1	158			1	158				
25	BELL-FLAVEL												
26	BELL-JOHNNSN CRK												
27	BELL-KENDALL	4	354	4	354			4	354				
28	BELL-KING	2	71	2	71			2	71				
29	BELL-SOUTHGATE												
30	BELL-WICHITA												
31	BELMONT 4KV												
32	BETHANY-BURTON	3	12	3	12	1	7	2	6				
33	BETHANY-GERMANTOWN												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
34	BETHANY-KAISER	1	3,514	1	3,514			1	3,514				
35	BETHANY-LAIDLAW	2	374	2	374			2	374				
36	BETHANY-SPRINGVILLE	6	3,114	6	3,114			6	3,114				
37	BETHANY-THOMPSON												
38	BETHEL-FRUTLAND	1	1	1	1			1	1				
39	BETHEL-GEER	2	172	2	172			1	54	1	118		
40	BETHEL-MCLAY												
41	BLUE LAKE 13 KV												
42	BOONS-GOODALL	2	49	2	49			2	49				
43	BOONS-KRUSEWAY												
44	BOONS-LK GROVE	2	561	2	561			2	561				
45	BOONS-MT PARK	1	22	1	22			1	22				
46	BOONS-WMBLY PK	6	660	6	660			6	660				
47	BORING-282ND AV	4	214	4	214			4	214				
48	BORING-CITY	4	229	4	229			4	229				
49	BORING-TELFORD	5	105	5	105			5	105				
50	BRIGHTWD 13KV	15	8,017	15	8,017	1	3,751	13	4,262	1	4		
51	BRIGHTWD-N BANK	5	282	5	282			5	282				
52	BROOKWOOD 13KV												
53	BROOKWOOD-BRWCK	2	2,255	2	2,255			2	2,255				
54	BROOKWOOD-SUNRS												
55	BVRTN-ALLEN	1	24	1	24			1	24				
56	BVRTN-JAMIESON												
57	BVRTN-NORTHWEST	1	103	1	103			1	103				
58	BVRTN-W SLOPE												
59	CANBY-13643	5	1,408	5	1,408			5	1,408				
60	CANBY-13644	1	2	1	2			1	2				
61	CANBY-BUTTEVLE	2	5	2	5			2	5				
62	CANYON 13KV												
63	CANYON-13114												
64	CANYON-13115												
65	CANYON-13116												
66	CANYON-13117												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

Feeder Name	<u>Total Trees</u>		<u>Total Non-Preventable</u>		<u>Uprooted</u>		<u>Limb</u>		<u>Tree Broken or Felled into</u>		<u>Total Preventable (Tree Contact)</u>	
	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>
67	CANYON-13118PSU											
68	CANYON-13119PSU											
69	CANYON-13120											
70	CANYON-13121											
71	CANYON-13122											
72	CANYON-13123											
73	CANYON-13124											
74	CANYON-13125											
75	CANYON-13133											
76	CANYON-13134											
77	CANYON-13135											
78	CANYON-13136											
79	CANYON-21ST AVE	2	1,380	2	1,380			2	1,380			
80	CANYON-23RD AVE	3	446	3	446			3	446			
81	CANYON-BURNSIDE											
82	CARVER 13 KV	2	200	2	200			2	200			
83	CARVER-ALMOND											
84	CARVER-NORTH											
85	CARVER-RIVRBEND											
86	CARVER-SOUTH											
87	CARVER-WOODS											
88	CEDAR HILLS 13KV											
89	CEDAR-LEAHY	6	1,050	6	1,050	1	998	5	52			
90	CEDAR-SHOP CEN	2	71	2	71			2	71			
91	CEDAR-SKYLINE											
92	CEDAR-ST VINCNT											
93	CEDAR-SYLVAN											
94	CLACK-EVELYN											
95	CLACK-GLADSTONE	2	72	2	72			2	72			
96	CLACK-JENNIFER											
97	CLACK-TOLBERT											
98	CLAXTAR 13KV											
99	CLAXTAR-HAYSVIL											

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

Feeder Name	<u>Total Trees</u>		<u>Total Non-Preventable</u>		<u>Uprooted</u>		<u>Limb</u>		<u>Tree Broken or Felled into</u>		<u>Total Preventable (Tree Contact)</u>	
	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>
100 CLAXTAR-RIDGE												
101 CNTNNIL 13KV	1	181	1	181			1	181				
102 CNTNNIL-BARKER												
103 CNTNNIL-BRACRFT	2	424	2	424			2	424				
104 CNTNNIL-TREEAND												
105 COFFEE CREEK-FREEMAN												
106 COFFEE CREEK-HOLIDAY												
107 COLTON-DHOOGHE	3	159	3	159			3	159				
108 COLTON-GRAYS HL	3	316	3	316			3	316				
109 CORNELIUS 13KV	4	102	4	102			4	102				
110 CORNELIUS-ADAIR	3	48	3	48			3	48				
111 CORNELIUS-VRBRT	2	79	2	79	1	34	1	45				
112 CULVER 13KV												
113 CULVER-GAFFIN												
114 CULVER-SANYO #1												
115 CULVER-SANYO #2												
116 CURTIS 13KV	3	47	3	47			3	47				
117 CURTIS-11077												
118 DAYTON-EAST	4	84	4	84			4	84				
119 DAYTON-LAFAYETT												
120 DAYTON-S AND W												
121 DELAWARE-DENVER	1	733	1	733			1	733				
122 DELAWARE-INTER												
123 DELAWARE-LOMBRD												
124 DENNY-EAST	3	384	3	384			3	384				
125 DENNY-NORTH												
126 DENNY-SOUTH												
127 DENNY-WEST	1	4,236	1	4,236			1	4,236				
128 DILLEY-13KV	2	57	2	57			2	57				
129 DILLEY-SPRINGHL												
130 DUNNS C 13 KV	13	2,496	13	2,496			13	2,496				
131 DUNNS C-KELSO	1	396	1	396			1	396				
132 DURHAM 13KV												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
133	DURHAM-BONITA												
134	DURHAM-BRIDGEPORT												
135	DURHAM-SATTLER	2	174	2	174			2	174				
136	DURHAM-SOUTH												
137	E-11021												
138	E-11039												
139	E-11040												
140	E-11041												
141	E-11042												
142	E-11043												
143	E-11047												
144	E-11064												
145	E-13139												
146	E-13140	1	337	1	337			1	337				
147	E-13141												
148	E-13144	1	200	1	200			1	200				
149	E-13145												
150	E-13148												
151	E-13149												
152	E-13150												
153	EAGLE CR-BARTON	2	167	2	167			2	167				
154	EAGLE CR-RIVRML	7	731	7	731	1	364	5	112	1	255		
155	EASTPORT-76TH												
156	EASTPORT-PLAZA												
157	ELMA 13KV												
158	ELMA-4 CORNERS												
159	ELMA-HUDSON	3	104	3	104					3	104		
160	ELMA-STATE 13KV												
161	ESTACADA 13KV	1	3	1	3			1	3				
162	ESTACADA-FARADY	15	3,888	15	3,888			14	3,679	1	209		
163	FAIRMT-CNDLARIA	1	31	1	31			1	31				
164	FAIRMT-MISSION	6	70	6	70	1	1	5	69				
165	FAIRVIEW 13 KV												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
166	FAIRVIEW-CLRCK												
167	FAIRVIEW-K CLUB	3	95	3	95			3	95				
168	FAIRVIEW-TROUTD												
169	FAIRVIEW-W VILL	1	42	1	42			1	42				
170	FARGO 13KV	1	268	1	268			1	268				
171	G HOME-MCKAY	1	26	1	26			1	26				
172	G HOME-METZGER	2	69	2	69	1	27	1	42				
173	GALES CRK 13KV	8	327	8	327			8	327				
174	GLENCOE-GLISAN												
175	GLENCOE-PROVID												
176	GLENCOE-SUNNY	2	50	2	50			2	50				
177	GLISAN-FAB 2A												
178	GLISAN-UTIL 1B												
179	GLNCLN-BRIDLMIL	4	1,647	4	1,647			4	1,647				
180	GLNCLN-SUNSET												
181	GLNDOVEER-13596	2	42	2	42			2	42				
182	GLNDOVEER-13597												
183	GLNDOVEER-13598	2	196	2	196			2	196				
184	GLNDOVEER-13599	3	128	3	128			3	128				
185	GLNDOVEER-CLFGT												
186	GLNDOVEER-NEAST												
187	GRAND AV 4KV												
188	GRND RND-AGENCY	1	559	1	559	1	559						
189	GRND RND-FORTHL	4	316	4	316			4	316				
190	HABRTN-BURLINTN	6	515	6	515			6	515				
191	HABRTN-LINNTON	4	607	4	607			4	607				
192	HARBORTON 13KV												
193	HARMONY 13KV	1	1	1	1			1	1				
194	HARMONY-INTERNATIONAL												
195	HARMONY-LAKE												
196	HARMONY-LINNWOD												
197	HARMONY-MILWAKI	6	5,335	6	5,335			6	5,335				
198	HARMONY-THIESEN												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

Feeder Name	<u>Total Trees</u>		<u>Total Non-Preventable</u>		<u>Uprooted</u>		<u>Limb</u>		<u>Tree Broken or Felled into</u>		<u>Total Preventable (Tree Contact)</u>	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
199	HARRISON 13KV											
200	HARRISON-DAVIS											
201	HARRISON-IVON											
202	HEMLOCK 13KV	1	51	1	51			1	51			
203	HEMLOCK-FREMONT											
204	HEMLOCK-MASON											
205	HILLCREST 13KV											
206	HILLCREST-CASCADIA											
207	HILLCREST-REED											
208	HILLCREST-SOUTH											
209	HILLS-DAIRY CREEK											
210	HILLS-DENNIS											
211	HILLS-JACKSON											
212	HILLS-LAUREL	6	193	6	193			6	193			
213	HILLS-SCHOLLS											
214	HOGAN N 13KV	1	17	1	17			1	17			
215	HOGAN N-BRGDOON											
216	HOGAN N-LINKS	9	7,541	9	7,541	1	10	8	7,531			
217	HOGAN N-SLQUIST	6	204	6	204			6	204			
218	HOGAN S-CLEVLND											
219	HOGAN S-LAWRNCE	3	50	3	50			3	50			
220	HOGAN S-MAIN	1	1,155	1	1,155			1	1,155			
221	HOGAN S-PAROPA											
222	HOGAN S-WALLULA											
223	HOLGATE 13KV											
224	HOLGATE-BYBEE	4	8,679	4	8,679	1	41	3	8,638			
225	HOLGATE-GIDEON											
226	HOLGATE-KENLWOR	2	152	2	152			2	152			
227	HOLGATE-RHONE											
228	HUBER 13KV											
229	HUBER-BANY											
230	HUBER-FRMINGTON											
231	HUBER-KINNAMON											

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
232 HUBER-MARYVILLE	2	566	2	566	1	4			1	561		
233 HYDN IS-MALAND	4	494	4	494	1	475	3	19				
234 HYDN IS-N SHORE												
235 HYDN IS-S SHORE												
236 INDIAN-KEIZER	2	154	2	154			2	154				
237 INDIAN-LABISH	3	38	3	38			3	38				
238 INDIAN-NORTH	3	26	3	26			3	26				
239 INDIAN-STATION												
240 INDIAN-WEST	1	3,409	1	3,409			1	3,409				
241 ISLAND 13KV												
242 ISLAND-13180												
243 ISLAND-13187	1	108	1	108			1	108				
244 ISLAND-13188												
245 JEN LDG 13KV	2	3,979	2	3,979			1	3,948	1	31		
246 JEN LDG-MELDRUM												
247 JEN LDG-O GROVE												
248 JEN LDG-WEBSTER	1	124	1	124			1	124				
249 KELLEY POINT-LEDBETTER												
250 KELLEY POINT-SOLAR1												
251 KELLEY POINT-SOLAR2												
252 KELLEY PT 13 KV												
253 KING CTY-BULL MT												
254 KING CTY-FISCHER												
255 KING CTY-HAZEL B	1	20	1	20			1	20				
256 KING CTY-NORTH												
257 KING CTY-SUMERFL												
258 KLY BU-BINNSMED												
259 KLY BU-FAIRLAWN												
260 KLY BU-MALL 205												
261 KLY BU-MC GREW												
262 KLY PT-MARINEDR												
263 KLY PT-SIMMONS												
264 LAKE LABISH 4KV												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
265	LELAND-BEAVERC	7	165	7	165			7	165				
266	LELAND-CARUS	15	6,808	15	6,808	1	3,050	14	3,758				
267	LELAND-KELM	1	18	1	18					1	18		
268	LENTS-13101												
269	LENTS-HAPPY VAL												
270	LENTS-MT SCOTT												
271	LENTS-NORTH												
272	LIB-BROWNING												
273	LIB-LONE OAK												
274	LIB-MORNINGSIDE	1	228	1	228			1	228				
275	LIB-ROSEDALE	2	30	2	30			1	27	1	3		
276	LIB-VISTA												
277	LIBERAL 13KV	3	182	3	182			3	182				
278	LIBERAL-SAWMILL												
279	LIBERTY-SKYLINE	3	768	3	768			3	768				
280	MAIN-AIRPORT												
281	MAIN-BENTLEY												
282	MAIN-EXPRESS												
283	MAIN-GRIFFIN												
284	MAIN-JFS1												
285	MAIN-JONES FARM												
286	MAIN-RVR RD	1	5	1	5			1	5				
287	MC CL-COTTAGE												
288	MC CL-FRONT ST												
289	MC CL-HOLLYWOOD												
290	MCGILL-LSIAIR1A												
291	MCMINNVILLE W AND L												
292	MERIDIAN 13KV												
293	MERIDIAN-65TH												
294	MERIDIAN-BORLND	5	79	5	79	1	15	4	64				
295	MERIDIAN-CHILDS												
296	MERIDIAN-LAKEVIEW												
297	MERIDIAN-NYBERG												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
298	MERIDIAN-PLKNGTN	1	101	1	101			1	101				
299	MERIDIAN-SAGERT												
300	MIDGROVE-BROWN	1	14	1	14			1	14				
301	MIDGROVE-CHEMEK	1	3	1	3			1	3				
302	MIDGROVE-CORDON												
303	MIDGROVE-SWEGLE												
304	MIDGROVE-WEST												
305	MIDWAY-DIVISION	2	6	2	6			2	6				
306	MIDWAY-DOUGLAS	1	3	1	3	1	3						
307	MIDWAY-LYNCH	1	2,255	1	2,255			1	2,255				
308	MIDWAY-POWELHST	2	175	2	175			2	175				
309	MILL CREEK 13KV												
310	MILL CREEK-EASTLAND	3	130	3	130			3	130				
311	MILL CREEK-KUEBLER												
312	MOLALLA-BUCKAROO	1	2	1	2			1	2				
313	MOLALLA-FOREST	4	95	4	95			4	95				
314	MOLALLA-MARQUAM	9	468	9	468			9	468				
315	MOLALLA-YODER												
316	MRKT ST-ENGLEWD												
317	MRKT ST-FAIRGND	1	1	1	1			1	1				
318	MRKT ST-HAWTHNE												
319	MRKT ST-PARK												
320	MT ANGEL-EAST												
321	MT ANGEL-WEST	4	93	4	93			4	93				
322	MT PLS-CLAIRMONT												
323	MT PLS-MT VIEW												
324	MT PLS-RIVRCRST	1	121	1	121			1	121				
325	MT PLS-SOUTHEND	4	137	4	137			3	127	1	10		
326	MULINO-NORTH	1	1	1	1			1	1				
327	MULINO-SOUTH	2	163	2	163			2	163				
328	MULTNOMAH 13KV												
329	MULTNOMAH-13176	2	37	2	37			2	37				
330	MULTNOMAH-13177												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

Feeder Name	<u>Total Trees</u>		<u>Total Non-Preventable</u>		<u>Uprooted</u>		<u>Limb</u>		<u>Tree Broken or Felled into</u>		<u>Total Preventable (Tree Contact)</u>	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
331 MULTNOMAH-13181	2	191	2	191			1	79	1	113		
332 MURRAYHILL 13KV												
333 MURRAYHL-KINTON												
334 MURRAYHL-QUARRY												
335 MURRAYHL-REUSER												
336 MURRAYHL-TEAL												
337 N MARION FRONT												
338 N MARION-CROSBY												
339 N MARION-HUBBRD	3	240	3	240			3	240				
340 N MARION-MCLARN	6	436	6	436			6	436				
341 N PLAINS 13KV	4	101	4	101	1	2	3	99				
342 N PLAINS-M HILL	6	3,186	6	3,186	1	2,910	5	276				
343 NEWBERG-CHEHALM	8	1,045	8	1,045			8	1,045				
344 NEWBERG-COLLEGE												
345 NEWBERG-DUNDEE	1	13	1	13			1	13				
346 NEWBERG-HOOVR PK	1	3	1	3			1	3				
347 NORTHERN-11009												
348 NORTHERN-11016	1	5	1	5			1	5				
349 NORTHERN-11071												
350 OAK HILLS 13KV	1	96	1	96			1	96				
351 OAK HILLS-5 OAK												
352 OAK HILLS-BRIER												
353 OAK HILLS-SMRST												
354 OAK HILLS-WLKRD												
355 OCKLEY GRN 4KV												
356 OK GRV-LK HARRT												
357 OK GRV-WT WATER												
358 ORENCO 13KV												
359 ORENCO PRIMATE	2	519	2	519			2	519				
360 ORENCO-231ST												
361 ORENCO-AMBRGLEN												
362 ORENCO-BASELINE												
363 ORENCO-WILKINS												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
364	ORIENT 13KV	12	1,555	12	1,555			12	1,555			
365	ORIENT-BARLOW	10	6,824	10	6,824			10	6,824			
366	OSWEGO-IRON MTN	1	80	1	80			1	80			
367	OSWEGO-MARYLHST	1	26	1	26			1	26			
368	OSWEGO-PALATINE	9	1,035	9	1,035			9	1,035			
369	OSWEGO-STAFFORD	2	9,716	2	9,716			2	9,716			
370	OXFORD 13KV	1	18	1	18			1	18			
371	OXFORD-FAIRVIEW											
372	OXFORD-LEE											
373	OXFORD-MADRONA											
374	OXFORD-RURAL											
375	OXFORD-SHELTON											
376	PELTON-ROUND BUTTE											
377	PENIN PARK 4KV											
378	PLSNT VALY 13KV	7	25	7	25	1	4	6	21			
379	PLSNT VALY-BXTR	1	143	1	143			1	143			
380	PLSNT VALY-MOON	1	65	1	65			1	65			
381	PLSNT VALY-SUN	2	2,204	2	2,204			1	2,199	1	5	
382	PORTLAND GRD W PUMPING											
383	PORTSMTH-CARB											
384	PORTSMTH-DISP											
385	PORTSMTH-WILL											
386	PRGRS-GREENBURG											
387	PRGRS-HALL											
388	PRGRS-ROBINSON											
389	PRGRS-SAWYER											
390	PRGRS-WSH SQ #1											
391	PRGRS-WSH SQ #2											
392	RAL H-DOGWOOD	2	110	2	110			2	110			
393	RAL H-MONTCLAIR	1	1,732	1	1,732			1	1,732			
394	RAL H-OLESON RD	4	2,852	4	2,852			4	2,852			
395	RAMAPO 13KV	3	26	3	26			3	26			
396	RAMAPO-GILBERT											

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
397	REDLAND 13KV	7	591	7	591			7	591				
398	REDLAND-HENRICI	12	1,101	12	1,101	1	2	11	1,099				
399	REED-BLANTON												
400	REED-HAZELDALE	2	51	2	51			2	51				
401	REED-INTEL #1												
402	REED-INTEL #2												
403	REED-INTEL #3												
404	REED-INTEL #4												
405	REED-TV HWY												
406	ROCKWD 13KV												
407	ROCKWD-AIRPT WY												
408	ROCKWD-BOEING												
409	ROCKWD-INDUSTR												
410	ROCKWD-REYNOLDS	1	352	1	352			1	352				
411	ROCKWD-WILKES												
412	ROSEWAY 13 KV												
413	ROSEWAY-ALEXNDR												
414	ROSEWAY-ESPLANA												
415	ROUND BUTTE SPILLWAY												
416	RUBY-13502												
417	RUBY-13503												
418	RVRGATE-11010												
419	RVRGATE-11011												
420	RVRGATE-PEARCY												
421	RVRGATE-SWIFT												
422	RVRVIW-FULTON	4	427	4	427			4	427				
423	RVRVIW-MACADAM												
424	RVRVIW-TWILLIGR	4	2,640	4	2,640	1	842	3	1,798				
425	SALEM-13260												
426	SALEM-13261												
427	SALEM-13262												
428	SALEM-13263												
429	SALEM-13264												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
430	SALEM-UNION												
431	SANDY 13KV	18	1,306	18	1,306	1	186	17	1,120				
432	SANDY-362ND	6	198	6	198			5	63	1	135		
433	SANDY-BLUFF	1	829	1	829			1	829				
434	SANDY-WILDCAT	11	1,205	11	1,205			11	1,205				
435	SCHOLLS FERRY-KEMMER RD												
436	SCHOLLS FERRY-RAINBOW	8	78	8	78			8	78				
437	SCHOLLS FERRY-ROY ROGERS	1	85	1	85			1	85				
438	SCOGG-CHERRY G	2	8	2	8			2	8				
439	SCOGG-LAUREL W	7	210	7	210			6	208	1	2		
440	SCOTSMILL 13KV	2	107	2	107			2	107				
441	SELLWD 13KV	2	567	2	567			2	567				
442	SELLWD-KELOG PK	1	36	1	36			1	36				
443	SELLWD-WAVERLY												
444	SHERIDAN EAST	1	49	1	49			1	49				
445	SHERIDAN-KADELL												
446	SILVERTON-NORTH	5	783	5	783			5	783				
447	SILVERTON-SOUTH	2	10	2	10			2	10				
448	SILVERTON-WEST	3	4,221	3	4,221			2	42	1	4,179		
449	SIX COR-13359	3	525	3	525			3	525				
450	SIX COR-13360												
451	SIX COR-BORCHER	4	247	4	247			4	247				
452	SIX COR-CHAPMAN	8	15,044	8	15,044			8	15,044				
453	SIX CORNER-13KV												
454	SMURFIT-NEWBERG												
455	SPRINGBK-FERNWD	1	1,400	1	1,400	1	1,400						
456	SPRINGBK-STPAUL	9	926	8	920	1	7	7	914			1	6
457	SPRINGBK-VILLA												
458	SPRINGBK-ZIMRI												
459	ST LOUIS-EAST												
460	ST LOUIS-NORTH	2	14	2	14			2	14				
461	ST LOUIS-WEST	2	6	2	6			2	6				
462	ST MARY 13KV												

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

Feeder Name	<u>Total Trees</u>		<u>Total Non-Preventable</u>		<u>Uprooted</u>		<u>Limb</u>		<u>Tree Broken or Felled into</u>		<u>Total Preventable (Tree Contact)</u>	
	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>	<u>Outs</u>	<u>Hrs</u>
463	ST MARY-BETHANY											
464	ST MARY-BUTNER	3	118	3	118			3	118			
465	ST MARY-ELMONIC											
466	ST MARY-JENKINS											
467	ST MARY-MILLIKN											
468	STEPHN-11001											
469	STEPHN-11020											
470	STEPHN-11054											
471	STEPHN-11055											
472	STEPHN-11092											
473	STEPHN-11093											
474	STEPHN-11094											
475	STEPHN-11095											
476	STEPHN-11097											
477	STEPHN-11098											
478	STEPHN-11099											
479	SULL-ROBINWOOD	2	102	2	102			2	102			
480	SULL-SALAMO	2	73	2	73			2	73			
481	SULL-SUSSEX	2	332	2	332			2	332			
482	SULL-WILLAMETTE	3	261	3	261			3	261			
483	SULLIVAN-TANNER											
484	SULZER 115A											
485	SULZER 115B											
486	SULZER BINGHAM											
487	SUMMIT-GOVT CAMP											
488	SUMMIT-MEADOWS											
489	SUMMIT-SUMMIT	1	1,170	1	1,170			1	1,170			
490	SUNSET-BLANCHET											
491	SUNSET-COLFAX											
492	SUNSET-CORNELL											
493	SUNSET-D1X1											
494	SUNSET-DORION											
495	SUNSET-IDTB											

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

Feeder Name	<u>Total Trees</u>		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
496	SUNSET-INTEL D1B1											
497	SUNSET-KOMATSU #1											
498	SUNSET-KOMATSU #2											
499	SUNSET-KOMATSU #3											
500	SUNSET-LANE											
501	SUNSET-MCCALL											
502	SUNSET-MEEK											
503	SUNSET-PAULING											
504	SUNSET-SPALDING											
505	SUNSET-WHITMAN											
506	SUNSET-YOUNG											
507	SWAN IS-BASIN											
508	SWAN IS-DOLPHIN											
509	SWAN IS-FREIGHTLINER											
510	SWAN IS-GOING											
511	SWAN IS-SHIPYRD											
512	SYLVAN-BARNES	10	1,927	10	1,927			9	1,923	1	4	
513	SYLVAN-PATTON	8	538	8	538			8	538			
514	TABOR 13KV											
515	TABOR-82ND AV	1	51	1	51			1	51			
516	TABOR-HOSPITAL											
517	TEK 13KV											
518	TEK-HOCKEN											
519	TEK-NORTH											
520	TEK-SHANNON											
521	TEK-SOUTH											
522	TEK-WEST											
523	TEMP-NORTH											
524	TEMP-SOUTH											
525	TIGARD - 13 KV	2	584	2	584			2	584			
526	TIGARD-13336	2	19	2	19			2	19			
527	TIGARD-13337	1	36	1	36			1	36			
528	TIGARD-13361											

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
529	TIGARD-13362	1	1	1	1			1	1				
530	TNCTR-LAWNFIELD												
531	TNCTR-MONTEREY	2	192	2	192	1	1	1	191				
532	TNCTR-NORTH 13KV												
533	TNCTR-PRECISION												
534	TNCTR-SOUTH 13KV												
535	TNCTR-SUNNYBROOK												
536	TNCTR-VALLEY VW												
537	TROJAN PLNT E												
538	TUALATIN 13KV												
539	TUALATIN-AVERY	1	1,294	1	1,294			1	1,294				
540	TUALATIN-CIPOLE												
541	TUALATIN-HERMAN												
542	TUALATIN-IBACH	3	6	3	6			3	6				
543	TUALATIN-LEVETON												
544	TURNER 13KV	1	63	1	63			1	63				
545	TURNER-CASCADE	3	1,059	3	1,059			3	1,059				
546	TWILIGHT-BREMER	1	4	1	4			1	4				
547	UNIONVALE 13KV	15	1,122	15	1,122			15	1,122				
548	UNIVRSITY-MILL												
549	UNIVRSITY-TRADE												
550	URBAN-BARBUR	1	2	1	2			1	2				
551	URBAN-CAMPUS												
552	URBAN-CORBETT												
553	URBAN-GAINES												
554	URBAN-GIBBS												
555	URBAN-KELLY												
556	URBAN-LANDING												
557	URBAN-MEDICAL												
558	URBAN-OHSU												
559	W PTL D 13KV	2	383	2	383			2	383				
560	W PTL D-72ND												
561	W PTL D-NORTH	1	20	1	20			1	20				

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

	Feeder Name	Total Trees		Total Non-Preventable		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
		Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
562	W PTLD-PACIFIC	2	134	2	134			2	134				
563	W UNION 13KV												
564	W UNION-CORNELS	9	1,929	9	1,929	1	46	8	1,883				
565	WACKER												
566	WACONDA 13KV	3	16	3	16			3	16				
567	WACONDA-NORPAC												
568	WACONDA-RIVER RD	1	334	1	334			1	334				
569	WALLACE RD 13KV	6	27	6	27	1	12	5	15				
570	WELCHES 13KV	9	1,709	9	1,709			9	1,709				
571	WELCHES-ZIG ZAG	14	4,623	14	4,623			14	4,623				
572	WILLAMINA-BRIDGE	1	5	1	5			1	5				
573	WILLAMINA-BUELL	2	1,142	2	1,142			2	1,142				
574	WILLAMINA-LUMBER												
575	WILLBRDG #1												
576	WILLBRDG #4	2	968	2	968	2	968						
577	WILSV-BOECKMAN	1	31	1	31			1	31				
578	WILSV-CHARBNEAU	1	83	1	83					1	83		
579	WILSV-CITY												
580	WILSV-MENTORTEK												
581	WILSV-PARKWAY												
582	WILSV-VILLEBOIS												
583	WILSV-WEST	3	538	3	538			3	538				
584	WOODBURN-CANNERY												
585	WOODBURN-EAST	4	280	4	280			4	280				
586	WOODBURN-TOMLIN	3	110	3	110			3	110				
587	WOODBURN-WEST												
588	YAMHILL 13KV	5	2,441	5	2,441	1	2	3	1,899	1	539		
589	YAMHILL-CARLTON	3	416	3	416			3	416				

Hrs - # of customers * duration hrs Outs = Outages

2013 Outages by Vegetation

Feeder Name	<u>Total Trees</u>		Total		Uprooted		Limb		Tree Broken or Felled into		Total Preventable (Tree Contact)	
	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
Grand Total:	<u>754</u>	<u>183,992</u>	<u>752</u>	<u>183,986</u>	<u>32</u>	<u>15,938</u>	<u>699</u>	<u>159,485</u>	<u>21</u>	<u>8,563</u>	<u>2</u>	<u>7</u>

Section VIII

Appendix

- 2013 Feeder List with Customer Counts and Feeder Classifications⁴
- Reliability Measure Definitions
- Cause Code Categories
- PGE Service Territory Map

⁴ New feeders energized in 2013 and details regarding PGE's network feeders can be found on page 16 of 16

2013 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
1	6105013	ABERN-CLACK HTS	CENTRAL	54	Urban	2013
2	6105023	ABERN-ORE CITY	CENTRAL	1,964	Urban	2013
3	6105033	ABERNETHY-TRANSIT	CENTRAL	2,383	Urban	2013
4	1118013	ALDER CT-ANKENY	CENTRAL	1,012	Urban	2013
5	1118053	ALDER CT-IRVING	CENTRAL	4,260	Urban	2013
6	1118043	ALDER CT-LINCOLN	CENTRAL	3,480	Urban	2013
7	1118033	ALDER CT-STARK	CENTRAL	0	Urban	2013
8	1118063	ALDER CT-TAYLOR	CENTRAL	275	Urban	2013
9	1118073	ALDER CT-YAMHILL	CENTRAL	404	Urban	2013
10	2120013	AMITY 13KV	SOUTHERN	1,287	Rural	2013
11	2120023	AMITY-BELLEVUE	SOUTHERN	1,017	Remote	2013
12	1125013	ARLETA-52ND ST	CENTRAL	4,643	Urban	2013
13	1125033	ARLETA-FOSTER	CENTRAL	1,878	Urban	2013
14	1125023	ARLETA-HAROLD	CENTRAL	3,205	Urban	2013
15	1125043	ARLETA-POWELL	CENTRAL	3,324	Urban	2013
16	1125053	ARLETA-STEELE	CENTRAL	3,497	Urban	2013
17	5156033	B LAKE-SUNDIAL	EASTERN	500	Urban	2013
18	5156023	B LAKE-TOYOTNSO	EASTERN	20	Urban	2013
19	4135013	BANKS 13KV	WESTERN	620	Rural	2013
20	4135023	BANKS-CEDAR CYN	WESTERN	1,738	Rural	2013
21	2140043	BARNES-BATTLCRK	SOUTHERN	491	Urban	2013
22	2140013	BARNES-BOONE	SOUTHERN	1,714	Urban	2013
23	2140023	BARNES-COMMERCL	SOUTHERN	3,212	Urban	2013
24	2140033	BARNES-SUNNYSID	SOUTHERN	3,240	Urban	2013
25	1155023	BELL-FLAVEL	CENTRAL	2,001	Urban	2013
26	1155013	BELL-JOHNSEN CRK	CENTRAL	10	Urban	2013
27	1155053	BELL-KENDALL	CENTRAL	1,532	Urban	2013
28	1155063	BELL-KING	CENTRAL	2,264	Urban	2013
29	1155043	BELL-SOUTHGATE	CENTRAL	0	Urban	2013
30	1155033	BELL-WICHITA	CENTRAL	0	Urban	2013
31	1385011	BELMONT 4KV	CENTRAL	0	Urban	2013
32	4157043	BETHANY-BURTON	WESTERN	2,888	Urban	2013
33	4157013	BETHANY-GERMANTOWN	WESTERN	3,340	Urban	2013
34	4157023	BETHANY-KAISER	WESTERN	4,117	Urban	2013
35	4157053	BETHANY-LAIDLAW	WESTERN	2,523	Urban	2013
36	4157063	BETHANY-SPRINGVILLE	WESTERN	1,866	Urban	2013
37	4157033	BETHANY-THOMPSON	WESTERN	1,086	Urban	2013
38	2151023	BETHEL-FRUTLAND	SOUTHERN	2,766	Urban	2013

2013 Feeder List with January Customer Counts

Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year	
39	2151033	BETHEL-GEER	SOUTHERN	1,513	Rural	2013
40	2151013	BETHEL-MCLAY	SOUTHERN	1,802	Urban	2013
41	5156013	BLUE LAKE 13 KV	EASTERN	2,295	Urban	2013
42	1170043	BOONS-GOODALL	WESTERN	1,694	Urban	2013
43	1170013	BOONS-KRUSEWAY	WESTERN	1,737	Urban	2013
44	1170033	BOONS-LK GROVE	WESTERN	2,354	Urban	2013
45	1170053	BOONS-MT PARK	WESTERN	2,538	Urban	2013
46	1170023	BOONS-WMBLY PK	WESTERN	1,528	Urban	2013
47	5177033	BORING-282ND AV	EASTERN	2,350	Rural	2013
48	5177023	BORING-CITY	EASTERN	1,368	Remote	2013
49	5177013	BORING-TELFORD	EASTERN	1,411	Rural	2013
50	5174013	BRIGHTWD 13KV	EASTERN	986	Remote	2013
51	5174023	BRIGHTWD-N BANK	EASTERN	790	Remote	2013
52	4185013	BROOKWOOD 13KV	WESTERN	1,009	Urban	2013
53	4185023	BROOKWOOD-BRWCK	WESTERN	2,583	Urban	2013
54	4185033	BROOKWOOD-SUNRS	WESTERN	1,946	Urban	2013
55	4150013	BVRTN-ALLEN	WESTERN	2,924	Urban	2013
56	4150023	BVRTN-JAMIESON	WESTERN	713	Urban	2013
57	4150033	BVRTN-NORTHWEST	WESTERN	1,276	Urban	2013
58	4150053	BVRTN-W SLOPE	WESTERN	2,182	Urban	2013
59	6190013	CANBY-13643	SOUTHERN	1,495	Remote	2013
60	6190023	CANBY-13644	SOUTHERN	441	Remote	2013
61	6190043	CANBY-BUTTEVLE	SOUTHERN	1,165	Remote	2013
62	1196013	CANYON 13KV	CENTRAL	1,590	Urban	2013
63	1196113	CANYON-13114	CENTRAL	5	Urban	2013
64	1196123	CANYON-13115	CENTRAL	8	Urban	2013
65	1196133	CANYON-13116	CENTRAL	3	Urban	2013
66	1196143	CANYON-13117	CENTRAL	15	Urban	2013
67	1196153	CANYON-13118PSU	CENTRAL	336	Urban	2013
68	1196163	CANYON-13119PSU	CENTRAL	146	Urban	2013
69	1196043	CANYON-13120	CENTRAL	1,579	Urban	2013
70	1196453	CANYON-13121	CENTRAL	5	Urban	2013
71	1196063	CANYON-13122	CENTRAL	524	Urban	2013
72	1196073	CANYON-13123	CENTRAL	192	Urban	2013
73	1196083	CANYON-13124	CENTRAL	128	Urban	2013
74	1196093	CANYON-13125	CENTRAL	198	Urban	2013
75	1196173	CANYON-13133	CENTRAL	94	Urban	2013
76	1196183	CANYON-13134	CENTRAL	94	Urban	2013

2013 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
77	1196193	CANYON-13135	CENTRAL	18	Urban	2013
78	1196203	CANYON-13136	CENTRAL	10	Urban	2013
79	1196023	CANYON-21ST AVE	CENTRAL	2,856	Urban	2013
80	1196103	CANYON-23RD AVE	CENTRAL	2,956	Urban	2013
81	1196033	CANYON-BURNSIDE	CENTRAL	2,538	Urban	2013
82	5198013	CARVER 13 KV	EASTERN	2,036	Urban	2013
83	5198033	CARVER-ALMOND	EASTERN	1,962	Urban	2013
84	5198053	CARVER-NORTH	EASTERN	1,644	Urban	2013
85	5198023	CARVER-RIVRBEND	EASTERN	84	Urban	2013
86	5198063	CARVER-SOUTH	EASTERN	127	Urban	2013
87	5198043	CARVER-WOODS	EASTERN	2,454	Urban	2013
88	4200033	CEDAR HILLS 13KV	WESTERN	1	Urban	2013
89	4200063	CEDAR-LEAHY	WESTERN	2,664	Urban	2013
90	4200013	CEDAR-SHOP CEN	WESTERN	3,138	Urban	2013
91	4200043	CEDAR-SKYLINE	WESTERN	3,626	Urban	2013
92	4200053	CEDAR-ST VINCNT	WESTERN	124	Urban	2013
93	4200023	CEDAR-SYLVAN	WESTERN	2,583	Urban	2013
94	6205023	CLACK-EVELYN	CENTRAL	487	Urban	2013
95	6205013	CLACK-GLADSTONE	CENTRAL	2,223	Urban	2013
96	6205033	CLACK-JENNIFER	CENTRAL	579	Urban	2013
97	6205043	CLACK-TOLBERT	CENTRAL	1,277	Urban	2013
98	2207013	CLAXTAR 13KV	SOUTHERN	338	Urban	2013
99	2207023	CLAXTAR-HAYSVIL	SOUTHERN	1,970	Urban	2013
100	2207033	CLAXTAR-RIDGE	SOUTHERN	1,879	Urban	2013
101	5202033	CNTNNIL 13KV	EASTERN	3,298	Urban	2013
102	5202053	CNTNNIL-BARKER	EASTERN	2,757	Urban	2013
103	5202043	CNTNNIL-BRACRFT	EASTERN	1,928	Urban	2013
104	5202063	CNTNNIL-TREEAND	EASTERN	3,304	Urban	2013
105	4209023	COFFEE CREEK-FREEMAN	WESTERN	190	Urban	2013
106	4209013	COFFEE CREEK-HOLIDAY	WESTERN	345	Urban	2013
107	6208013	COLTON-DHOOGHE	SOUTHERN	589	Remote	2013
108	6208023	COLTON-GRAYS HL	SOUTHERN	1,072	Remote	2013
109	4210013	CORNELIUS 13KV	WESTERN	2,663	Urban	2013
110	4210033	CORNELIUS-ADAIR	WESTERN	973	Urban	2013
111	4210023	CORNELIUS-VRBRT	WESTERN	1,625	Urban	2013
112	2211143	CULVER 13KV	SOUTHERN	0	Remote	2013
113	2211113	CULVER-GAFFIN	SOUTHERN	0	Remote	2013
114	2211123	CULVER-SANYO #1	SOUTHERN	3	Urban	2013

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Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
115	2211133 CULVER-SANYO #2	SOUTHERN	0	Urban	2013
116	1212013 CURTIS 13KV	CENTRAL	1,962	Urban	2013
117	1212012 CURTIS-11077	CENTRAL	260	Urban	2013
118	4220013 DAYTON-EAST	SOUTHERN	1,452	Rural	2013
119	4220033 DAYTON-LAFAYETT	SOUTHERN	1,808	Rural	2013
120	4220023 DAYTON-S AND W	SOUTHERN	439	Rural	2013
121	1221013 DELAWARE-DENVER	CENTRAL	3,494	Urban	2013
122	1221023 DELAWARE-INTER	CENTRAL	648	Urban	2013
123	1221033 DELAWARE-LOMBRD	CENTRAL	3,905	Urban	2013
124	4222043 DENNY-EAST	WESTERN	1,656	Urban	2013
125	4222013 DENNY-NORTH	WESTERN	425	Urban	2013
126	4222033 DENNY-SOUTH	WESTERN	3,163	Urban	2013
127	4222023 DENNY-WEST	WESTERN	2,708	Urban	2013
128	4223013 DILLEY-13KV	WESTERN	617	Remote	2013
129	4223023 DILLEY-SPRINGHL	WESTERN	1	Remote	2013
130	5218013 DUNNS C 13 KV	EASTERN	1,817	Remote	2013
131	5218023 DUNNS C-KELSO	EASTERN	338	Rural	2013
132	4224013 DURHAM 13KV	WESTERN	395	Urban	2013
133	4224043 DURHAM-BONITA	WESTERN	693	Urban	2013
134	4224053 DURHAM-BRIDGEPORT	WESTERN	1,160	Urban	2013
135	4224023 DURHAM-SATTLER	WESTERN	2,337	Urban	2013
136	4224033 DURHAM-SOUTH	WESTERN	552	Urban	2013
137	1225012 E-11021	CENTRAL	27	Urban	2013
138	1225022 E-11039	CENTRAL	1	Urban	2013
139	1225032 E-11040	CENTRAL	199	Urban	2013
140	1225042 E-11041	CENTRAL	298	Urban	2013
141	1225052 E-11042	CENTRAL	2	Urban	2013
142	1225062 E-11043	CENTRAL	53	Urban	2013
143	1225112 E-11047	CENTRAL	53	Urban	2013
144	1225122 E-11064	CENTRAL	20	Urban	2013
145	1225013 E-13139	CENTRAL	711	Urban	2013
146	1225023 E-13140	CENTRAL	1,949	Urban	2013
147	1225033 E-13141	CENTRAL	3,205	Urban	2013
148	1225083 E-13144	CENTRAL	2,625	Urban	2013
149	1225043 E-13145	CENTRAL	702	Urban	2013
150	1225053 E-13148	CENTRAL	1,462	Urban	2013
151	1225063 E-13149	CENTRAL	1,491	Urban	2013
152	1225073 E-13150	CENTRAL	947	Urban	2013

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
153	5230013	EAGLE CR-BARTON	EASTERN	868	Remote	2013
154	5230023	EAGLE CR-RIVRML	EASTERN	775	Remote	2013
155	1231023	EASTPORT-76TH	CENTRAL	3,245	Urban	2013
156	1231013	EASTPORT-PLAZA	CENTRAL	1,649	Urban	2013
157	2233013	ELMA 13KV	SOUTHERN	1,300	Urban	2013
158	2233023	ELMA-4 CORNERS	SOUTHERN	2,596	Urban	2013
159	2233043	ELMA-HUDSON	SOUTHERN	2,156	Urban	2013
160	2233033	ELMA-STATE 13KV	SOUTHERN	346	Urban	2013
161	5237023	ESTACADA 13KV	EASTERN	1,628	Rural	2013
162	5237013	ESTACADA-FARADY	EASTERN	3,412	Rural	2013
163	2250013	FAIRMT-CNDLARIA	SOUTHERN	2,868	Urban	2013
164	2250023	FAIRMT-MISSION	SOUTHERN	2,355	Urban	2013
165	5251053	FAIRVIEW 13 KV	EASTERN	1,468	Urban	2013
166	5251033	FAIRVIEW-CLRCK	EASTERN	273	Urban	2013
167	5251013	FAIRVIEW-K CLUB	EASTERN	2,526	Urban	2013
168	5251043	FAIRVIEW-TROUTD	EASTERN	3,572	Urban	2013
169	5251023	FAIRVIEW-W VILL	EASTERN	1,910	Urban	2013
170	2253013	FARGO 13KV	SOUTHERN	1,709	Rural	2013
171	4276023	G HOME-MCKAY	WESTERN	2,716	Urban	2013
172	4276013	G HOME-METZGER	WESTERN	3,071	Urban	2013
173	4275013	GALES CRK 13KV	WESTERN	797	Remote	2013
174	1277013	GLENCOE-GLISAN	CENTRAL	3,148	Urban	2013
175	1277023	GLENCOE-PROVID	CENTRAL	1,091	Urban	2013
176	1277033	GLENCOE-SUNNY	CENTRAL	3,042	Urban	2013
177	5260013	GLISAN-FAB 2A	EASTERN	1	Urban	2013
178	5260083	GLISAN-UTIL 1B	EASTERN	1	Urban	2013
179	1278013	GLNCLN-BRIDLMIL	CENTRAL	2,483	Urban	2013
180	1278023	GLNCLN-SUNSET	CENTRAL	2,407	Urban	2013
181	5280013	GLNDOVEER-13596	EASTERN	885	Urban	2013
182	5280023	GLNDOVEER-13597	EASTERN	1,322	Urban	2013
183	5280033	GLNDOVEER-13598	EASTERN	1,950	Urban	2013
184	5280043	GLNDOVEER-13599	EASTERN	2,070	Urban	2013
185	5280053	GLNDOVEER-CLFGT	EASTERN	2,006	Urban	2013
186	5280063	GLNDOVEER-NEAST	EASTERN	1,558	Urban	2013
187	1385041	GRAND AV 4KV	CENTRAL	0	Urban	2013
188	2285033	GRND RND-AGENCY	SOUTHERN	579	Remote	2013
189	2285023	GRND RND-FORHTL	SOUTHERN	709	Remote	2013
190	1310023	HABRTN-BURLINTN	CENTRAL	1,406	Rural	2013

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Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year	
191	1310033	HABRTN-LINNTON	CENTRAL	425	Urban	2013
192	1310013	HARBORTON 13KV	CENTRAL	13	Urban	2013
193	1313013	HARMONY 13KV	CENTRAL	1,475	Urban	2013
194	1313053	HARMONY-INTERNATIONAL	CENTRAL	1,035	Urban	2013
195	6313033	HARMONY-LAKE	CENTRAL	688	Urban	2013
196	1313033	HARMONY-LINNWOD	CENTRAL	2,269	Urban	2013
197	1313023	HARMONY-MILWAKI	CENTRAL	1,755	Urban	2013
198	1313043	HARMONY-THIESEN	CENTRAL	955	Urban	2013
199	1312053	HARRISON 13KV	CENTRAL	1,173	Urban	2013
200	1312043	HARRISON-DAVIS	CENTRAL	1,269	Urban	2013
201	1312013	HARRISON-IVON	CENTRAL	1,649	Urban	2013
202	5317013	HEMLOCK 13KV	EASTERN	2,064	Urban	2013
203	5317023	HEMLOCK-FREMONT	EASTERN	1,489	Urban	2013
204	5317033	HEMLOCK-MASON	EASTERN	634	Urban	2013
205	2318023	HILLCREST 13KV	SOUTHERN	188	Urban	2013
206	2318033	HILLCREST-CASCADIA	SOUTHERN	10	Urban	2013
207	2318043	HILLCREST-REED	SOUTHERN	1,666	Urban	2013
208	2318223	HILLCREST-SOUTH	SOUTHERN	43	Urban	2013
209	4320013	HILLS-DAIRY CREEK	WESTERN	4,236	Urban	2013
210	4320053	HILLS-DENNIS	WESTERN	260	Urban	2013
211	4320033	HILLS-JACKSON	WESTERN	2,753	Urban	2013
212	4320023	HILLS-LAUREL	WESTERN	1,781	Rural	2013
213	4320043	HILLS-SCHOLLS	WESTERN	850	Urban	2013
214	5323043	HOGAN N 13KV	EASTERN	2,596	Urban	2013
215	5323023	HOGAN N-BRGDOON	EASTERN	2,824	Urban	2013
216	5323033	HOGAN N-LINKS	EASTERN	3,503	Urban	2013
217	5323013	HOGAN N-SLQUIST	EASTERN	2,909	Urban	2013
218	5324013	HOGAN S-CLEVLND	EASTERN	2,237	Urban	2013
219	5324023	HOGAN S-LAWRNCE	EASTERN	3,631	Urban	2013
220	5324033	HOGAN S-MAIN	EASTERN	2,533	Urban	2013
221	5324043	HOGAN S-PAROPA	EASTERN	2,978	Urban	2013
222	5324053	HOGAN S-WALLULA	EASTERN	2,981	Urban	2013
223	1325033	HOLGATE 13KV	CENTRAL	3,031	Urban	2013
224	1325043	HOLGATE-BYBEE	CENTRAL	2,515	Urban	2013
225	1325013	HOLGATE-GIDEON	CENTRAL	1,075	Urban	2013
226	1325053	HOLGATE-KENLWOR	CENTRAL	2,099	Urban	2013
227	1325023	HOLGATE-RHONE	CENTRAL	2,326	Urban	2013
228	4330013	HUBER 13KV	WESTERN	4,425	Urban	2013

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
229	4330053	HUBER-BANY	WESTERN	3,397	Urban	2013
230	4330023	HUBER-FRMINGTON	WESTERN	3,153	Urban	2013
231	4330033	HUBER-KINNAMON	WESTERN	2,292	Urban	2013
232	4330043	HUBER-MARYVILLE	WESTERN	4,594	Urban	2013
233	1316033	HYDN IS-MALAND	CENTRAL	152	Urban	2013
234	1316013	HYDN IS-N SHORE	CENTRAL	1,958	Urban	2013
235	1316023	HYDN IS-S SHORE	CENTRAL	456	Urban	2013
236	2340023	INDIAN-KEIZER	SOUTHERN	1,993	Rural	2013
237	2340013	INDIAN-LABISH	SOUTHERN	2,126	Urban	2013
238	2340043	INDIAN-NORTH	SOUTHERN	3,102	Urban	2013
239	2340033	INDIAN-STATION	SOUTHERN	1,349	Urban	2013
240	2340053	INDIAN-WEST	SOUTHERN	3,476	Urban	2013
241	1345043	ISLAND 13KV	CENTRAL	370	Urban	2013
242	1345033	ISLAND-13180	CENTRAL	3,078	Urban	2013
243	1345023	ISLAND-13187	CENTRAL	3,037	Urban	2013
244	1345013	ISLAND-13188	CENTRAL	2,695	Urban	2013
245	6365023	JEN LDG 13KV	CENTRAL	2,628	Urban	2013
246	6365033	JEN LDG-MELDRUM	CENTRAL	2,288	Urban	2013
247	6365013	JEN LDG-O GROVE	CENTRAL	1,348	Urban	2013
248	6365043	JEN LDG-WEBSTER	CENTRAL	3,672	Urban	2013
249	1367043	KELLEY POINT-LEDBETTER	CENTRAL	135	Urban	2013
250	1367053	KELLEY POINT-SOLAR1	CENTRAL	1	Urban	2013
251	1367063	KELLEY POINT-SOLAR2	CENTRAL	3	Urban	2013
252	1367013	KELLEY PT 13 KV	CENTRAL	15	Urban	2013
253	4378023	KING CTY-BULL MT	WESTERN	2,432	Urban	2013
254	4378013	KING CTY-FISCHER	WESTERN	2,911	Urban	2013
255	4378043	KING CTY-HAZEL B	WESTERN	1,618	Urban	2013
256	4378053	KING CTY-NORTH	WESTERN	2,139	Urban	2013
257	4378033	KING CTY-SUMERFL	WESTERN	2,560	Urban	2013
258	1370023	KLY BU-BINNSMED	EASTERN	3,210	Urban	2013
259	1370033	KLY BU-FAIRLAWN	EASTERN	1,401	Urban	2013
260	1370043	KLY BU-MALL 205	EASTERN	2,699	Urban	2013
261	1370013	KLY BU-MC GREW	EASTERN	2,633	Urban	2013
262	1367023	KLY PT-MARINEDR	CENTRAL	6	Urban	2013
263	1367033	KLY PT-SIMMONS	CENTRAL	38	Urban	2013
264	2400911	LAKE LABISH 4KV	SOUTHERN	1	Rural	2013
265	6402013	LELAND-BEAVERC	EASTERN	2,862	Rural	2013
266	6402023	LELAND-CARUS	EASTERN	2,275	Remote	2013

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Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year	
267	6402033	LELAND-KELM	EASTERN	1,802	Urban	2013
268	1405013	LENTS-13101	EASTERN	4,564	Urban	2013
269	1405043	LENTS-HAPPY VAL	EASTERN	2,980	Urban	2013
270	1405023	LENTS-MT SCOTT	EASTERN	1,496	Urban	2013
271	1405033	LENTS-NORTH	EASTERN	1,533	Urban	2013
272	2410013	LIB-BROWNING	SOUTHERN	637	Urban	2013
273	2410043	LIB-LONE OAK	SOUTHERN	2,420	Urban	2013
274	2410053	LIB-MORNINGSIDE	SOUTHERN	2,287	Urban	2013
275	2410023	LIB-ROSEDALE	SOUTHERN	2,227	Urban	2013
276	2410033	LIB-VISTA	SOUTHERN	1,961	Urban	2013
277	6464013	LIBERAL 13KV	SOUTHERN	1,066	Remote	2013
278	6464023	LIBERAL-SAWMILL	SOUTHERN	1	Remote	2013
279	2410063	LIBERTY-SKYLINE	SOUTHERN	2,967	Urban	2013
280	4422023	MAIN-AIRPORT	WESTERN	1,814	Urban	2013
281	4422033	MAIN-BENTLEY	WESTERN	2,122	Urban	2013
282	4422053	MAIN-EXPRESS	WESTERN	3,079	Urban	2013
283	4422073	MAIN-GRIFFIN	WESTERN	0	Urban	2013
284	4422063	MAIN-JFS1	WESTERN	1	Urban	2013
285	4422043	MAIN-JONES FARM	WESTERN	1	Urban	2013
286	4422013	MAIN-RVR RD	WESTERN	2,564	Urban	2013
287	2435033	MC CL-COTTAGE	SOUTHERN	1,506	Urban	2013
288	2435013	MC CL-FRONT ST	SOUTHERN	1,010	Urban	2013
289	2435043	MC CL-HOLLYWOOD	SOUTHERN	1,283	Urban	2013
290	5440023	MCGILL-LSIAIR1A	EASTERN	1	Urban	2013
291	2900013	MCMINNVILLE W AND L	SOUTHERN	51	Rural	2013
292	4447013	MERIDIAN 13KV	WESTERN	1,371	Rural	2013
293	4447083	MERIDIAN-65TH	WESTERN	1,067	Urban	2013
294	4447053	MERIDIAN-BORLND	WESTERN	1,294	Urban	2013
295	4447093	MERIDIAN-CHILDS	WESTERN	443	Urban	2013
296	4447063	MERIDIAN-LAKEVIEW	WESTERN	395	Urban	2013
297	4447073	MERIDIAN-NYBERG	WESTERN	147	Urban	2013
298	4447043	MERIDIAN-PLKNGTN	WESTERN	2,853	Urban	2013
299	4447033	MERIDIAN-SAGERT	WESTERN	2,750	Urban	2013
300	2450023	MIDGROVE-BROWN	SOUTHERN	2,051	Urban	2013
301	2450043	MIDGROVE-CHEMEK	SOUTHERN	1,076	Urban	2013
302	2450033	MIDGROVE-CORDON	SOUTHERN	2,764	Urban	2013
303	2450013	MIDGROVE-SWEGLE	SOUTHERN	2,122	Urban	2013
304	2450053	MIDGROVE-WEST	SOUTHERN	3,462	Urban	2013

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
305	5455013	MIDWAY-DIVISION	EASTERN	4,203	Urban	2013
306	5455023	MIDWAY-DOUGLAS	EASTERN	2,515	Urban	2013
307	5455033	MIDWAY-LYNCH	EASTERN	2,347	Urban	2013
308	5455043	MIDWAY-POWELHST	EASTERN	3,595	Urban	2013
309	2540033	MILL CREEK 13KV	SOUTHERN	513	Urban	2013
310	2540013	MILL CREEK-EASTLAND	SOUTHERN	1,209	Rural	2013
311	2540023	MILL CREEK-KUEBLER	SOUTHERN	554	Urban	2013
312	6466023	MOLALLA-BUCKAROO	SOUTHERN	2,506	Rural	2013
313	6466043	MOLALLA-FOREST	SOUTHERN	1,553	Rural	2013
314	6466013	MOLALLA-MARQUAM	SOUTHERN	1,424	Remote	2013
315	6466033	MOLALLA-YODER	SOUTHERN	1,538	Rural	2013
316	2425013	MRKT ST-ENGLEWD	SOUTHERN	1,328	Urban	2013
317	2425033	MRKT ST-FAIRGND	SOUTHERN	1,970	Urban	2013
318	2425023	MRKT ST-HAWTHNE	SOUTHERN	1,203	Urban	2013
319	2425043	MRKT ST-PARK	SOUTHERN	1,112	Urban	2013
320	2470013	MT ANGEL-EAST	SOUTHERN	588	Rural	2013
321	2470023	MT ANGEL-WEST	SOUTHERN	1,651	Rural	2013
322	6475023	MT PLS-CLAIRMONT	CENTRAL	3,023	Urban	2013
323	6475043	MT PLS-MT VIEW	CENTRAL	1,921	Urban	2013
324	6475053	MT PLS-RIVRCRST	CENTRAL	2,003	Urban	2013
325	6475033	MT PLS-SOUTHEND	CENTRAL	3,588	Urban	2013
326	6478013	MULINO-NORTH	SOUTHERN	384	Remote	2013
327	6478023	MULINO-SOUTH	SOUTHERN	911	Remote	2013
328	1480063	MULTNOMAH 13KV	CENTRAL	3,648	Urban	2013
329	1480023	MULTNOMAH-13176	CENTRAL	2,816	Urban	2013
330	1480033	MULTNOMAH-13177	CENTRAL	3,373	Urban	2013
331	1480013	MULTNOMAH-13181	CENTRAL	2,326	Urban	2013
332	4482013	MURRAYHILL 13KV	WESTERN	3,803	Urban	2013
333	4482033	MURRAYHL-KINTON	WESTERN	3,871	Urban	2013
334	4482053	MURRAYHL-QUARRY	WESTERN	0	Urban	2013
335	4482043	MURRAYHL-REUSER	WESTERN	2,095	Urban	2013
336	4482023	MURRAYHL-TEAL	WESTERN	3,910	Urban	2013
337	2505033	N MARION FRONT	SOUTHERN	524	Urban	2013
338	2505043	N MARION-CROSBY	SOUTHERN	2,091	Urban	2013
339	2505013	N MARION-HUBBRD	SOUTHERN	765	Rural	2013
340	2505023	N MARION-MCLARN	SOUTHERN	1,844	Urban	2013
341	4510013	N PLAINS 13KV	WESTERN	1,579	Rural	2013
342	4510023	N PLAINS-M HILL	WESTERN	1,257	Rural	2013

2013 Feeder List with January Customer Counts

Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
343	4485033 NEWBERG-CHEHALM	SOUTHERN	3,131	Rural	2013
344	4485043 NEWBERG-COLLEGE	SOUTHERN	2,552	Urban	2013
345	4485023 NEWBERG-DUNDEE	SOUTHERN	2,416	Rural	2013
346	4485053 NEWBERG-HOOVR PK	SOUTHERN	1,577	Urban	2013
347	1495032 NORTHERN-11009	CENTRAL	1,423	Urban	2013
348	1495042 NORTHERN-11016	CENTRAL	376	Urban	2013
349	1495062 NORTHERN-11071	CENTRAL	1,937	Urban	2013
350	4516013 OAK HILLS 13KV	WESTERN	2,343	Urban	2013
351	4516033 OAK HILLS-5 OAK	WESTERN	1,926	Urban	2013
352	4516053 OAK HILLS-BRIER	WESTERN	479	Urban	2013
353	4516023 OAK HILLS-SMRST	WESTERN	1,595	Urban	2013
354	4516043 OAK HILLS-WLKRD	WESTERN	2,317	Urban	2013
355	1545021 OCKLEY GRN 4KV	CENTRAL	711	Urban	2013
356	5515013 OK GRV-LK HARRT	EASTERN	97	Remote	2013
357	5515023 OK GRV-WT WATER	EASTERN	27	Remote	2013
358	4518033 ORENCO 13KV	WESTERN	590	Urban	2013
359	4518023 ORENCO PRIMATE	WESTERN	3,443	Urban	2013
360	4518053 ORENCO-231ST	WESTERN	2,208	Urban	2013
361	4518043 ORENCO-AMBRGLEN	WESTERN	2,911	Urban	2013
362	4518013 ORENCO-BASELINE	WESTERN	4,194	Urban	2013
363	4518063 ORENCO-WILKINS	WESTERN	1,033	Urban	2013
364	5517013 ORIENT 13KV	EASTERN	834	Rural	2013
365	5517023 ORIENT-BARLOW	EASTERN	1,459	Rural	2013
366	1520013 OSWEGO-IRON MTN	WESTERN	974	Urban	2013
367	1520033 OSWEGO-MARYLHST	WESTERN	1,693	Urban	2013
368	1520043 OSWEGO-PALATINE	WESTERN	1,725	Urban	2013
369	1520023 OSWEGO-STAFFORD	WESTERN	3,480	Urban	2013
370	2523043 OXFORD 13KV	SOUTHERN	974	Urban	2013
371	2523013 OXFORD-FAIRVIEW	SOUTHERN	1,922	Urban	2013
372	2523063 OXFORD-LEE	SOUTHERN	858	Urban	2013
373	2523033 OXFORD-MADRONA	SOUTHERN	289	Urban	2013
374	2523053 OXFORD-RURAL	SOUTHERN	130	Urban	2013
375	2523023 OXFORD-SHELTON	SOUTHERN	729	Urban	2013
376	1545011 PENIN PARK 4KV	EASTERN	968	Urban	2013
377	5553013 PLSNT VALY 13KV	EASTERN	901	Urban	2013
378	5553023 PLSNT VALY-BXTR	EASTERN	3,823	Urban	2013
379	5553033 PLSNT VALY-MOON	EASTERN	1,879	Urban	2013
380	5553043 PLSNT VALY-SUN	EASTERN	2,455	Urban	2013

2013 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
381	1557911	PORTLAND GRD W PUMPING	EASTERN	4	Urban	2013
382	1558013	PORTSMTH-CARB	CENTRAL	2,799	Urban	2013
383	1558053	PORTSMTH-DISP	CENTRAL	9	Urban	2013
384	1558033	PORTSMTH-WILL	CENTRAL	3,064	Urban	2013
385	4565053	PRGRS-GREENBURG	WESTERN	1,831	Urban	2013
386	4565063	PRGRS-HALL	WESTERN	182	Urban	2013
387	4565013	PRGRS-ROBINSON	WESTERN	2,204	Urban	2013
388	4565023	PRGRS-SAWYER	WESTERN	787	Urban	2013
389	4565033	PRGRS-WSH SQ #1	WESTERN	39	Urban	2013
390	4565043	PRGRS-WSH SQ #2	WESTERN	26	Urban	2013
391	4570073	RAL H-DOGWOOD	WESTERN	1,776	Urban	2013
392	4570053	RAL H-MONTCLAIR	WESTERN	1,548	Urban	2013
393	4570063	RAL H-OLESON RD	WESTERN	2,130	Urban	2013
394	5575033	RAMAPO 13KV	EASTERN	2,955	Urban	2013
395	5575013	RAMAPO-GILBERT	EASTERN	3,204	Urban	2013
396	6581013	REDLAND 13KV	EASTERN	2,923	Remote	2013
397	6581023	REDLAND-HENRICI	EASTERN	1,842	Rural	2013
398	4583033	REED-BLANTON	WESTERN	2,586	Urban	2013
399	4583013	REED-HAZELDALE	WESTERN	2,239	Urban	2013
400	4583043	REED-INTEL #1	WESTERN	0	Urban	2013
401	4583053	REED-INTEL #2	WESTERN	0	Urban	2013
402	4583063	REED-INTEL #3	WESTERN	5	Urban	2013
403	4583073	REED-INTEL #4	WESTERN	0	Urban	2013
404	4583023	REED-TV HWY	WESTERN	1,935	Urban	2013
405	5602013	ROCKWD 13KV	EASTERN	3,424	Urban	2013
406	5602053	ROCKWD-AIRPT WY	EASTERN	7	Urban	2013
407	5602063	ROCKWD-BOEING	EASTERN	1	Urban	2013
408	5602023	ROCKWD-INDUSTR	EASTERN	136	Urban	2013
409	5602033	ROCKWD-REYNOLDS	EASTERN	1,645	Urban	2013
410	5602043	ROCKWD-WILKES	EASTERN	44	Urban	2013
411	4605013	ROSEWAY 13 KV	WESTERN	1,459	Urban	2013
412	4605033	ROSEWAY-ALEXNDR	WESTERN	1,025	Urban	2013
413	4605023	ROSEWAY-ESPLANA	WESTERN	2,142	Urban	2013
414	5610013	RUBY-13502	EASTERN	2,646	Urban	2013
415	5610023	RUBY-13503	EASTERN	1,686	Urban	2013
416	1598012	RVRGATE-11010	CENTRAL	23	Urban	2013
417	1598022	RVRGATE-11011	CENTRAL	1,206	Urban	2013
418	1598023	RVRGATE-PEARCY	CENTRAL	46	Urban	2013

2013 Feeder List with January Customer Counts

Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
419	1598013 RVRGATE-SWIFT	CENTRAL	53	Urban	2013
420	1600033 RVRVIW-FULTON	CENTRAL	2,410	Urban	2013
421	1600023 RVRVIW-MACADAM	CENTRAL	682	Urban	2013
422	1600013 RVRVIW-TWILLIGR	CENTRAL	1,094	Urban	2013
423	2637013 SALEM-13260	SOUTHERN	65	Urban	2013
424	2637023 SALEM-13261	SOUTHERN	81	Urban	2013
425	2637033 SALEM-13262	SOUTHERN	104	Urban	2013
426	2637043 SALEM-13263	SOUTHERN	218	Urban	2013
427	2637063 SALEM-13264	SOUTHERN	9	Urban	2013
428	2637053 SALEM-UNION	SOUTHERN	238	Urban	2013
429	5640033 SANDY 13KV	EASTERN	2,415	Rural	2013
430	5640043 SANDY-362ND	EASTERN	1,481	Rural	2013
431	5640013 SANDY-BLUFF	EASTERN	1,213	Rural	2013
432	5640023 SANDY-WILDCAT	EASTERN	2,758	Rural	2013
433	4645113 SCHOLLS FERRY-KEMMER RD	WESTERN	920	Urban	2013
434	4645123 SCHOLLS FERRY-RAINBOW	WESTERN	1,216	Rural	2013
435	4645133 SCHOLLS FERRY-ROY ROGERS	WESTERN	1,066	Rural	2013
436	4650023 SCOGG-CHERRY G	WESTERN	450	Rural	2013
437	4650013 SCOGG-LAUREL W	WESTERN	1,116	Rural	2013
438	2652013 SCOTSMILL 13KV	SOUTHERN	1,764	Remote	2013
439	1655033 SELLWD 13KV	CENTRAL	3,107	Urban	2013
440	1655013 SELLWD-KELOG PK	CENTRAL	2,316	Urban	2013
441	1655023 SELLWD-WAVERLY	CENTRAL	1,187	Urban	2013
442	2660023 SHERIDAN EAST	SOUTHERN	1,227	Urban	2013
443	2660013 SHERIDAN-KADELL	SOUTHERN	1,600	Urban	2013
444	2665013 SILVERTON-NORTH	SOUTHERN	2,803	Rural	2013
445	2665023 SILVERTON-SOUTH	SOUTHERN	2,247	Rural	2013
446	2665033 SILVERTON-WEST	SOUTHERN	1,787	Rural	2013
447	4670013 SIX COR-13359	WESTERN	3,059	Urban	2013
448	4670023 SIX COR-13360	WESTERN	978	Urban	2013
449	4670043 SIX COR-BORCHER	WESTERN	1,691	Rural	2013
450	4670033 SIX COR-CHAPMAN	WESTERN	2,937	Urban	2013
451	4670053 SIX CORNER-13KV	WESTERN	1,492	Urban	2013
452	4671913 SMURFIT-NEWBERG	SOUTHERN	1	Urban	2013
453	4672043 SPRINGBK-FERNWD	SOUTHERN	1,625	Urban	2013
454	4672023 SPRINGBK-STPAUL	SOUTHERN	893	Rural	2013
455	4672013 SPRINGBK-VILLA	SOUTHERN	1,853	Urban	2013
456	4672063 SPRINGBK-ZIMRI	SOUTHERN	1,363	Urban	2013

2013 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
457	2630013	ST LOUIS-EAST	SOUTHERN	1,796	Urban	2013
458	2630033	ST LOUIS-NORTH	SOUTHERN	770	Rural	2013
459	2630023	ST LOUIS-WEST	SOUTHERN	894	Rural	2013
460	4635043	ST MARY 13KV	WESTERN	261	Urban	2013
461	4635023	ST MARY-BETHANY	WESTERN	783	Urban	2013
462	4635053	ST MARY-BUTNER	WESTERN	2,446	Urban	2013
463	4635033	ST MARY-ELMONIC	WESTERN	2,781	Urban	2013
464	4635013	ST MARY-JENKINS	WESTERN	38	Urban	2013
465	4635063	ST MARY-MILLIKN	WESTERN	1,837	Urban	2013
466	1385032	STEPHN-11001	CENTRAL	229	Urban	2013
467	1385042	STEPHN-11020	CENTRAL	630	Urban	2013
468	1385052	STEPHN-11054	CENTRAL	38	Urban	2013
469	1385062	STEPHN-11055	CENTRAL	43	Urban	2013
470	1385082	STEPHN-11092	CENTRAL	108	Urban	2013
471	1385072	STEPHN-11093	CENTRAL	187	Urban	2013
472	1385112	STEPHN-11094	CENTRAL	7	Urban	2013
473	1385092	STEPHN-11095	CENTRAL	188	Urban	2013
474	1385102	STEPHN-11097	CENTRAL	121	Urban	2013
475	1385022	STEPHN-11098	CENTRAL	42	Urban	2013
476	1385122	STEPHN-11099	CENTRAL	68	Urban	2013
477	6675013	SULL-ROBINWOOD	CENTRAL	2,553	Urban	2013
478	6675053	SULL-SALAMO	CENTRAL	1,931	Urban	2013
479	6675033	SULL-SUSSEX	CENTRAL	2,945	Urban	2013
480	6675043	SULL-WILLAMETTE	CENTRAL	1,514	Rural	2013
481	6675023	SULLIVAN-TANNER	CENTRAL	2,118	Urban	2013
482	1676913	SULZER 115A	EASTERN	0	Urban	2013
483	1676914	SULZER 115B	EASTERN	2	Urban	2013
484	1676912	SULZER BINGHAM	EASTERN	0	Urban	2013
485	5677023	SUMMIT-GOVT CAMP	EASTERN	501	Remote	2013
486	5677013	SUMMIT-MEADOWS	EASTERN	15	Remote	2013
487	5677033	SUMMIT-SUMMIT	EASTERN	270	Remote	2013
488	4679313	SUNSET-BLANCHET	WESTERN	23	Urban	2013
489	4679453	SUNSET-COLFAX	WESTERN	29	Urban	2013
490	4679133	SUNSET-CORNELL	WESTERN	1	Urban	2013
491	4679114	SUNSET-D1X1	WESTERN	1	Urban	2013
492	4679123	SUNSET-DORION	WESTERN	1	Urban	2013
493	4679253	SUNSET-IDTB	WESTERN	1	Urban	2013
494	4679513	SUNSET-INTEL D1B1	WESTERN	5	Urban	2013

2013 Feeder List with January Customer Counts

Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year	
495	4679143	SUNSET-KOMATSU #1	WESTERN	4	Urban	2013
496	4679243	SUNSET-KOMATSU #2	WESTERN	0	Urban	2013
497	4679463	SUNSET-KOMATSU #3	WESTERN	1	Urban	2013
498	4679223	SUNSET-LANE	WESTERN	10	Urban	2013
499	4679433	SUNSET-MCCALL	WESTERN	47	Urban	2013
500	4679423	SUNSET-MEEK	WESTERN	616	Urban	2013
501	4679213	SUNSET-PAULING	WESTERN	160	Urban	2013
502	4679323	SUNSET-SPALDING	WESTERN	24	Urban	2013
503	4679233	SUNSET-WHITMAN	WESTERN	42	Urban	2013
504	4679113	SUNSET-YOUNG	WESTERN	22	Urban	2013
505	1680073	SWAN IS-BASIN	CENTRAL	0	Urban	2013
506	1680123	SWAN IS-DOLPHIN	CENTRAL	0	Urban	2013
507	1680153	SWAN IS-FREIGHTLINER	CENTRAL	32	Urban	2013
508	1680133	SWAN IS-GOING	CENTRAL	57	Urban	2013
509	1680143	SWAN IS-SHIPYRD	CENTRAL	0	Urban	2013
510	1685013	SYLVAN-BARNES	CENTRAL	2,695	Urban	2013
511	1685023	SYLVAN-PATTON	CENTRAL	2,593	Urban	2013
512	1690023	TABOR 13KV	CENTRAL	3,301	Urban	2013
513	1690013	TABOR-82ND AV	CENTRAL	2,307	Urban	2013
514	1690033	TABOR-HOSPITAL	CENTRAL	1,094	Urban	2013
515	4693023	TEK 13KV	WESTERN	310	Urban	2013
516	4693063	TEK-HOCKEN	WESTERN	480	Urban	2013
517	4693053	TEK-NORTH	WESTERN	11	Urban	2013
518	4693033	TEK-SHANNON	WESTERN	1,292	Urban	2013
519	4693043	TEK-SOUTH	WESTERN	3,125	Urban	2013
520	4693013	TEK-WEST	WESTERN	16	Urban	2013
521	1707103	TEMP-NORTH	CENTRAL	15	Urban	2013
522	1707113	TEMP-SOUTH	CENTRAL	289	Urban	2013
523	4695053	TIGARD - 13 KV	WESTERN	2,072	Urban	2013
524	4695013	TIGARD-13336	WESTERN	1,162	Urban	2013
525	4695043	TIGARD-13337	WESTERN	986	Urban	2013
526	4695023	TIGARD-13361	WESTERN	862	Urban	2013
527	4695033	TIGARD-13362	WESTERN	2,619	Urban	2013
528	6696023	TNCTR-LAWNFIELD	CENTRAL	1,773	Urban	2013
529	6696053	TNCTR-MONTEREY	CENTRAL	3,877	Urban	2013
530	6696073	TNCTR-NORTH 13KV	CENTRAL	8	Urban	2013
531	6696043	TNCTR-PRECISION	CENTRAL	3	Urban	2013
532	6696013	TNCTR-SOUTH 13KV	CENTRAL	14	Urban	2013

2013 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
533	6696063	TNCTR-SUNNYBROOK	CENTRAL	1,067	Urban	2013
534	6696033	TNCTR-VALLEY VW	CENTRAL	225	Urban	2013
535	4999013	TROJAN PLNT E	WESTERN	11	Remote	2013
536	4697033	TUALATIN 13KV	WESTERN	130	Urban	2013
537	4697023	TUALATIN-AVERY	WESTERN	2,141	Urban	2013
538	4697063	TUALATIN-CIPOLE	WESTERN	236	Urban	2013
539	4697043	TUALATIN-HERMAN	WESTERN	182	Urban	2013
540	4697013	TUALATIN-IBACH	WESTERN	1,542	Urban	2013
541	4697053	TUALATIN-LEVETON	WESTERN	37	Urban	2013
542	2698013	TURNER 13KV	SOUTHERN	1,215	Rural	2013
543	2698023	TURNER-CASCADE	SOUTHERN	841	Rural	2013
544	6699033	TWILIGHT-BREMER	CENTRAL	1,129	Rural	2013
545	4700013	UNIONVALE 13KV	SOUTHERN	1,324	Remote	2013
546	2705013	UNIVRSITY-MILL	SOUTHERN	412	Urban	2013
547	2705023	UNIVRSITY-TRADE	SOUTHERN	2,509	Urban	2013
548	1707053	URBAN-BARBUR	CENTRAL	1,331	Urban	2013
549	1707083	URBAN-CAMPUS	CENTRAL	34	Urban	2013
550	1707013	URBAN-CORBETT	CENTRAL	1,329	Urban	2013
551	1707063	URBAN-GAINES	CENTRAL	1,057	Urban	2013
552	1707043	URBAN-GIBBS	CENTRAL	819	Urban	2013
553	1707073	URBAN-KELLY	CENTRAL	1,281	Urban	2013
554	1707023	URBAN-LANDING	CENTRAL	1,346	Urban	2013
555	1707033	URBAN-MEDICAL	CENTRAL	122	Urban	2013
556	1707093	URBAN-OHSU	CENTRAL	18	Urban	2013
557	4735013	W PTLD 13KV	WESTERN	1,055	Urban	2013
558	4735033	W PTLD-72ND	WESTERN	819	Urban	2013
559	4735043	W PTLD-NORTH	WESTERN	2,653	Urban	2013
560	4735023	W PTLD-PACIFIC	WESTERN	2,543	Urban	2013
561	4737023	W UNION 13KV	WESTERN	2,573	Urban	2013
562	4737013	W UNION-CORNELS	WESTERN	2,221	Rural	2013
563	1743013	WACKER	CENTRAL	4	Urban	2013
564	2720013	WACONDA 13KV	SOUTHERN	1,946	Rural	2013
565	2720033	WACONDA-NORPAC	SOUTHERN	14	Remote	2013
566	2720023	WACONDA-RIVER RD	SOUTHERN	513	Remote	2013
567	2725013	WALLACE RD 13KV	SOUTHERN	1,783	Rural	2013
568	5727013	WELCHES 13KV	EASTERN	1,795	Remote	2013
569	5727023	WELCHES-ZIG ZAG	EASTERN	1,458	Remote	2013
570	2740033	WILLAMINA-BRIDGE	SOUTHERN	1,270	Rural	2013

2013 Feeder List with January Customer Counts

Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
571	2740023 WILLAMINA-BUELL	SOUTHERN	639	Rural	2013
572	2740013 WILLAMINA-LUMBER	SOUTHERN	10	Rural	2013
573	1741012 WILLBRDG #1	CENTRAL	120	Urban	2013
574	1741042 WILLBRDG #4	CENTRAL	94	Urban	2013
575	4745073 WILSV-BOECKMAN	WESTERN	1,140	Rural	2013
576	4745063 WILSV-CHARBNEAU	WESTERN	2,408	Urban	2013
577	4745013 WILSV-CITY	WESTERN	3,353	Urban	2013
578	4745043 WILSV-MENTORTEK	WESTERN	23	Urban	2013
579	4745023 WILSV-PARKWAY	WESTERN	836	Urban	2013
580	4745083 WILSV-VILLEBOIS	WESTERN	0	Urban	2013
581	4745093 WILSV-WEST	WESTERN	3,105	Urban	2013
582	2753033 WOODBURN-CANNERY	SOUTHERN	1,468	Urban	2013
583	2753013 WOODBURN-EAST	SOUTHERN	402	Rural	2013
584	2753023 WOODBURN-TOMLIN	SOUTHERN	1,602	Urban	2013
585	2753043 WOODBURN-WEST	SOUTHERN	2,176	Urban	2013
586	4760013 YAMHILL 13KV	SOUTHERN	1,714	Rural	2013
587	4760023 YAMHILL-CARLTON	SOUTHERN	1,903	Rural	2013

Total Customers: 841,127

New Feeders energized in 2013: Ramapo-Emerald and Wallace-Willow Lake

*PGE's system contains 4 networks, listed below. These networks consist of feeders that serve several customers simultaneously to ensure reliable service. To obtain the customer count for each network, please sum the customer counts for each feeder in the network.

Canyon Network #1: Canyon-13114, Canyon-13115, Canyon-13116, Canyon-13117

Canyon Network #2: Canyon-13122, Canyon-13123, Canyon-13124, Canyon-13125

Canyon Network #3: Canyon-13133, Canyon-13134, Canyon-13135, Canyon-13136

Stephens Network: Stephens-11054, Stephens-11055, Stephens-11092, Stephens-11093, Stephens-11094, Stephens-11095, Stephens-11097, Stephens-11099

Reliability Measure Definitions

1. Reliability The degree to which electric service is supplied without interruptions.
2. SAIDI The system average interruption duration index. This is the sustained interruption duration time (in minutes) that an average customer experiences during the year. It is determined by dividing the annual sum of all customer sustained interruption durations by the total number of customers served.
$$\text{SAIDI} = \frac{\text{Sum of customer sustained interruption durations}}{\text{Total number of PGE customers served}}$$
3. SAIFI The system average sustained interruption frequency index. This index is the number of times that an average customer experiences a sustained interruption during a year. It is determined by dividing the total annual number of customer sustained interruptions by the total number of customers served.
$$\text{SAIFI} = \frac{\text{Total number of customer sustained interruptions}}{\text{Total number of PGE customers served}}$$
4. MAIFle Momentary average interruption frequency index of events for the system. This index is the number of times that an average customer experiences momentary interruption events during a year. It is determined by dividing the total annual number of customer momentary interruption events by the total number of customers served. Note that this index does not include the events immediately preceding a sustained interruption.
$$\text{MAIFle} = \frac{\text{Total number of customer momentary interruption events}}{\text{Total number of PGE customers served on Feeders with MV90 or SCADA}}$$
5. Major Event Designates a catastrophic event which:
 - exceeds the design limits of the electric power system;
 - Includes at least one Major Event Day (MED)

Cause Code Categories - 2013

The following table can be used as a guide in determining which cause codes in OMS contributed to the outages via IEEE 2.5 Beta Method in the Annual Reliability Report

Cause Code	Cause Codes Removed from Reliability Numbers	Cause Code	Distribution - Weather - Other than Lightning
1001-1005	Telco Wire, Cable TV Wire, Verizon Equipment, Qwest Equipment, Comcast Equipment	4	Weather-Normal Conditions
10	Non-Outage Crew Responded	401	Weather-Heavy Snow
Cause Code	Distribution - Equipment	402	Weather-High Winds
101	OH Conductor Failure	405	Flooding
102	UG Conductor Failure	403	Weather-Ice/Freezing Rain
103	Switch/Recloser Failure	Cause Code	Distribution - Lightning
105	OH Transformer Failure	404	Lightning
106	UG Transformer Failure	Cause Code	Distribution - Wildlife
109	OH Clamp Failure	6	Bird/Animal/Squirrel
110	Pole Failure	601	Bird/Reportable
111	Pole Hardware Failure	Cause Code	Distribution -Vegetation
112	UG Hardware Failure	701	Tree Contact
113	UG Clamp Failure	702	Tree-Uprooted
115	AMI Meter Install Failure	703	Tree-Broken Limb/Top
114	Meter Problem/Failure	704	Hay on Line
104	Cutout/Fuse/Arrestor	506	Tree Cut/Felled into Line
902	Protective Fuse Operation	Cause Code	Distribution - Unknown
Cause Code	Loss of Supply Substation	9	Unknown/Investigating Cause
107	Substation Transformer	90	Unknown/No Cause Found
108	Other Substation Equipment	Cause Code	Distribution - Other
Cause Code	Loss of Supply - Transmission	3	Operations-Switching Error
117	Transmission Failure	802	Crew Caused/Not Planned
Cause Code	Distribution - Public	9999	Loss of Supply
200	House Fire	Cause Code	Distribution - Planned
2	Customer Equipment Problem/Non-Billing	8	Planned Outage
201	Customer Equipment Problem/Billing	801	Planned Outage - Load Curtailment
202	Customer Problem/Dispatcher Resolve	Cause Code	Distribution - Weather - Other than Lightning
203	Dispatcher Resolved - Pinged	4	Weather-Normal Conditions
5	Equip Damage/Misc Public Accident	401	Weather-Heavy Snow
501	Equip Damage/Vandalism	402	Weather-High Winds
502	Equip Damage/Car Hit Pole	405	Flooding
503	Equip Damage/UG Wire Dig In	403	Weather-Ice/Freezing Rain
504	Equip Damage/Pad Transformer	Cause Code	Distribution - Lightning
505	Equip Damage/OH Wire Contact	404	Lightning
507	Balloons	Cause Code	Distribution - Wildlife
503	Equip Damage/UG Wire Dig In	6	Bird/Animal/Squirrel
504	Equip Damage/Pad Transformer	601	Bird/Reportable
505	Equip Damage/OH Wire Contact	Cause Code	Distribution -Vegetation
507	Balloons	701	Tree Contact
Cause Code	Distribution - Planned	702	Tree-Uprooted
8	Planned Outage	703	Tree-Broken Limb/Top
801	Planned Outage - Load Curtailment	704	Hay on Line
Cause Code	Distribution - Other	506	Tree Cut/Felled into Line
3	Operations-Switching Error	Cause Code	Distribution - Unknown
802	Crew Caused/Not Planned	9	Unknown/Investigating Cause
9999	Loss of Supply	90	Unknown/No Cause Found

PGE SERVICE TERRITORY

Including Regional Boundaries

REVISED: 2/24/2012

Legend

- SERVICE TERRITORY BOUNDARY
 - EASTERN
 - SOUTHERN
 - WESTERN
- © PORTLAND GENERAL ELECTRIC

