

RE ### e-FILING REPORT COVER SHEET

REPORT NAME: 2012 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: 2012 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

April 30, 2013

Public Utility Commission of Oregon
Attn: Filing Center
550 Capitol Street, N.E., Suite 215
P.O. Box 2148
Salem, OR 97308-2148

RE: 2012 Annual Reliability Report

Pursuant to OAR 860-023-0151, PGE hereby submits via electronic only, the 2012 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@pgn.com

Sincerely,

A handwritten signature in blue ink that reads "Karla Wenzel". The signature is fluid and cursive, written in a professional style.

Karla Wenzel
Manager, Pricing

Enclosure

cc: Lori Koho, OPUC



Portland General Electric
2012 Annual Reliability Report



January 1, 2012 through December 31, 2012

Distribution Engineering

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SECTION I

REPORT SUMMARY

The 2012 Annual Reliability Report documents PGE service interruptions by cause and duration, and provides a summary of the overall reliability of the PGE electric distribution system. This report includes key reliability performance indices of System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI). For 2012, the SAIDI index is reported using the IEEE 1366 calculation method. Momentary Average Interruption Frequency Index (MAIFI) is also reported for those feeders that have momentary equipment installed. Outage data is also provided by cause and by associated equipment.

The Annual Reliability Report data is compiled from information generated by PGE's OUTAGE MANAGEMENT SYSTEM (OMS).

Corporate Annual Summary Without Major Events

Year	Reported Outages	SAIFI Outages per Customer Served	SAIDI Average Annual Outage Duration per Customer (min)	IEEE 1366/SAIDI Average Annual Outage Duration per Customer (min)	MAIFle Momentary Average Interruption Frequency Index
2012	5,093	0.55	72	72	1.1
2011	4,535	0.51	66	57	0.9
2010	5,454	0.65	77		1.1
2009	6,354	0.81	115		1.4

Corporate Annual Summary With Major Events

Major Events	Year	Reported Outages	SAIFI Outages per Customer Served	SAIDI Average Annual Outage Duration per Customer (min)	IEEE 1366/SAIDI Average Annual Outage Duration per Customer (min)	MAIFle Momentary Average Interruption Frequency Index
Yes	2012	6,051	0.72	136	136	1.1
Yes	2011	4,692	0.57	95	95	0.9
No	2010	5,454	0.65	77		1.1
Yes	2009	6,796	0.96	193		1.5

Note: IEEE 1366 rules were adopted by PGE effective 1/1/2012. Column labeled IEEE 1366/SAIDI were inserted for new rule. SAIDI numbers are rounded to the nearest whole number.

2012 Regional Annual Summary Without Major Events

Region	Reported Outages	SAIFI Outages per Customer Served	IEEE 1366/SAIDI Average Annual Outage Duration per Customer (min)	MAIFle Momentary Average Interruption Frequency Index
CENTRAL	919	0.41	51	1.7
EASTERN	1,289	0.81	112	1.6
SOUTHERN	1,497	0.53	78	0.6
WESTERN	1,388	0.51	61	0.7
PGE:	5,093	0.55	72	1.1

2012 Regional Annual Summary With Major Events

Region	Reported Outages	SAIFI Outages per Customer Served	IEEE 1366/SAIDI Average Annual Outage Duration per Customer (min)	MAIFle Momentary Average Interruption Frequency Index
CENTRAL	1,044	0.58	90	1.7
EASTERN	1,629	1.21	306	1.6
SOUTHERN	1,767	0.61	108	0.6
WESTERN	1,611	0.60	86	0.7
PGE:	6,051	0.72	136	1.1

Major Event = "Major Event" designates an event that exceeds the reasonable design and or operational limits of the electric power system. A "Major Event" includes at least one Major Event Day in which the daily SAIDI exceeds a threshold value, TMED.

NOTE: Major Event Days were: January 17th & 18th, March 22nd, November 19th and December 16th & 17th, 2012

SECTION II

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. All feeders are shown even with zero outages in 2010. The feeders are classified:

1. P/ R - Remote
2. R - Rural
3. U - Urban

The following are the underperforming indice thresholds for the reliability classifications. The feeders whose indices compute to values equal to or above any one of these thresholds are classified as under-performing and are shown with an X-mark in the left column.

<u>SAIDI</u>	<u>SAIFI</u>	<u>MAIFIe</u>
1. P/ R – Remote - 7 hr (420 min)	P/ R – Remote - 2.6 occurrences	15
2. R - Rural - 5 hr (300 min)	R- Rural - 2.6 occurrences	10
3. U - Urban - 2 hr (120 min)	U- Urban - 2.0 occurrences	5

Definition of Feeder Classifications

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:

- a. The load on a feeder is greater than 0.5 MVA per square mile.
- b. A feeder has more than 100 customers per square mile.
- c. A feeder is serving load inside an incorporated city.
- d. A feeder is directly adjacent to the UGB with feeder ties into the UGB.

A feeder is Remote if none of the conditions above apply.

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			52				3
2	<input checked="" type="checkbox"/>	6105023 Urban ABERN-ORE CITY	732	1,182	1,954	0.4	36	14	7
3	<input checked="" type="checkbox"/>	6105033 Urban ABERNETHY-TRANSIT	298	294	2,369	0.1	7	14	11
4	<input type="checkbox"/>	1118053 Urban ALDER CT-IRVING	151	239	1,776	0.1	8	5	4
5	<input type="checkbox"/>	1118033 Urban ALDER CT-STARK	195	371	5,327	0.0	4	11	4
6	<input type="checkbox"/>	1118073 Urban ALDER CT-YAMHILL	1	2	2,483	0.0	0	1	1
7	<input type="checkbox"/>	1125013 Urban ARLETA-52ND ST	728	785	3,203	0.2	15	17	0
8	<input type="checkbox"/>	1125033 Urban ARLETA-FOSTER	57	174	1,868	0.0	6	3	0
9	<input type="checkbox"/>	1125023 Urban ARLETA-HAROLD	630	783	3,187	0.2	15	15	0
10	<input type="checkbox"/>	1125043 Urban ARLETA-POWELL	224	426	3,313	0.1	8	9	0
11	<input type="checkbox"/>	1125053 Urban ARLETA-STEELE	295	494	3,453	0.1	9	6	1
12	<input type="checkbox"/>	1155023 Urban BELL-FLAVEL	19	65	2,430	0.0	2	2	1
13	<input type="checkbox"/>	1155013 Urban BELL-JOHNSEN CRK			3				1
14	<input type="checkbox"/>	1155053 Urban BELL-KENDALL	120	171	1,530	0.1	7	5	1
15	<input type="checkbox"/>	1155063 Urban BELL-KING	204	283	2,260	0.1	8	11	1
16	<input type="checkbox"/>	1155043 Urban BELL-SOUTHGATE	89	419	623	0.1	40	4	1
17	<input type="checkbox"/>	1155033 Urban BELL-WICHITA	1,551	3,931	1,980	0.8	119	7	2
18	<input type="checkbox"/>	1385011 Urban BELMONT 4KV			0	0.0	0		N/A
19	<input type="checkbox"/>	1385021 Urban BROOKLYN 4KV			0	0.0	0		N/A
20	<input type="checkbox"/>	1196013 Urban CANYON 13KV	405	947	1,587	0.3	36	17	0
21	<input type="checkbox"/>	1196113 Urban CANYON-13114			3				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"/>	1196123 Urban CANYON-13115			7				N/A
23	<input type="checkbox"/>	1196133 Urban CANYON-13116			3				N/A
24	<input type="checkbox"/>	1196143 Urban CANYON-13117			15				N/A
25	<input type="checkbox"/>	1196153 Urban CANYON-13118PSU			335				N/A
26	<input type="checkbox"/>	1196163 Urban CANYON-13119PSU			144				N/A
27	<input type="checkbox"/>	1196043 Urban CANYON-13120	174	220	1,585	0.1	8	1	N/A
28	<input type="checkbox"/>	1196453 Urban CANYON-13121			4				N/A
29	<input type="checkbox"/>	1196063 Urban CANYON-13122			517				N/A
30	<input type="checkbox"/>	1196073 Urban CANYON-13123			197				N/A
31	<input type="checkbox"/>	1196083 Urban CANYON-13124			126				N/A
32	<input type="checkbox"/>	1196093 Urban CANYON-13125			157				N/A
33	<input type="checkbox"/>	1196173 Urban CANYON-13133			92				N/A
34	<input type="checkbox"/>	1196183 Urban CANYON-13134	1	1	94	0.0	1	1	N/A
35	<input type="checkbox"/>	1196193 Urban CANYON-13135			18				N/A
36	<input type="checkbox"/>	1196203 Urban CANYON-13136			10				N/A
37	<input type="checkbox"/>	1196023 Urban CANYON-21ST AVE	189	234	2,859	0.1	5	4	1
38	<input type="checkbox"/>	1196103 Urban CANYON-23RD AVE	993	3,472	2,944	0.3	71	10	0
39	<input type="checkbox"/>	1196033 Urban CANYON-BURNSIDE	253	267	2,540	0.1	6	4	0
40	<input type="checkbox"/>	6205023 Urban CLACK-EVELYN	17	16	480	0.0	2	2	2
41	<input type="checkbox"/>	6205013 Urban CLACK-GLADSTONE	471	563	2,891	0.2	12	15	2
42	<input type="checkbox"/>	6205033 Urban CLACK-JENNIFER	16	52	585	0.0	5	3	1

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

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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	<input checked="" type="checkbox"/>	6205043 Urban CLACK-TOLBERT	114	479	1,279	0.1	22	8	5
44	<input type="checkbox"/>	1215021 Urban COLUMBIA PK 4KV			730				N/A
45	<input type="checkbox"/>	1212013 Urban CURTIS 13KV	2,154	3,184	1,889	1.1	101	8	1
46	<input type="checkbox"/>	1212012 Urban CURTIS-11077	278	232	257	1.1	54	2	1
47	<input type="checkbox"/>	1215011 Urban DANA 4KV	67	170	649	0.1	16	3	1
48	<input checked="" type="checkbox"/>	1221011 Urban DELAWARE #1 4KV	853	3,511	507	1.7	416	6	1
49	<input checked="" type="checkbox"/>	1221013 Urban DELAWARE-DENVER	3,128	6,827	3,314	0.9	124	8	2
50	<input type="checkbox"/>	1221023 Urban DELAWARE-INTER	126	102	753	0.2	8	2	1
51	<input type="checkbox"/>	1221033 Urban DELAWARE-LOMBRD	160	463	2,379	0.1	12	3	1
52	<input type="checkbox"/>	1385031 Urban E WATER 4KV	1	1	79	0.0	1	1	N/A
53	<input type="checkbox"/>	1225012 Urban E-11021			27				0
54	<input type="checkbox"/>	1225022 Urban E-11039			1				0
55	<input type="checkbox"/>	1225032 Urban E-11040	1	5	199	0.0	1	1	1
56	<input type="checkbox"/>	1225042 Urban E-11041	3	11	302	0.0	2	3	0
57	<input type="checkbox"/>	1225052 Urban E-11042	1	2	2	0.5	57	1	1
58	<input type="checkbox"/>	1225062 Urban E-11043	1	1	56	0.0	1	1	0
59	<input type="checkbox"/>	1225112 Urban E-11047			53				0
60	<input type="checkbox"/>	1225122 Urban E-11064			17				0
61	<input type="checkbox"/>	1225013 Urban E-13139			618				1
62	<input type="checkbox"/>	1225023 Urban E-13140	64	30	1,941	0.0	1	1	0
63	<input type="checkbox"/>	1225033 Urban E-13141	1	1	3,148	0.0	0	1	0

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

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MAIFIE Threshold: Remote = 15
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 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"/>	1225083 Urban E-13144	150	174	2,611	0.1	4	7	4
65	<input type="checkbox"/>	1225043 Urban E-13145	12	78	706	0.0	7	3	0
66	<input type="checkbox"/>	1225053 Urban E-13148			1,469				0
67	<input type="checkbox"/>	1225063 Urban E-13149			1,432				0
68	<input type="checkbox"/>	1225073 Urban E-13150	1	2	936	0.0	0	1	0
69	<input type="checkbox"/>	1231023 Urban EASTPORT-76TH	34	73	3,226	0.0	1	3	0
70	<input type="checkbox"/>	1231013 Urban EASTPORT-PLAZA	327	1,305	1,639	0.2	48	9	1
71	<input type="checkbox"/>	1277013 Urban GLENCOE-GLISAN	542	1,670	4,701	0.1	21	12	0
72	<input type="checkbox"/>	1277023 Urban GLENCOE-PROVID	30	31	1,028	0.0	2	2	0
73	<input type="checkbox"/>	1277033 Urban GLENCOE-SUNNY	159	317	3,024	0.1	6	8	0
74	<input type="checkbox"/>	1278013 Urban GLNCLN-BRIDLMIL	2,005	5,122	2,697	0.7	114	37	1
75	<input type="checkbox"/>	1278023 Urban GLNCLN-SUNSET	307	349	2,409	0.1	9	11	1
76	<input type="checkbox"/>	1385041 Urban GRAND AV 4KV			0	0.0	0		N/A
77	<input checked="" type="checkbox"/>	1310023 Rural HABRTN-BURLINTN	4,119	9,030	1,409	2.9	385	53	2
78	<input checked="" type="checkbox"/>	1310033 Urban HABRTN-LINNTON	148	443	425	0.3	63	8	6
79	<input type="checkbox"/>	1310013 Urban HARBORTON 13KV			13				3
80	<input type="checkbox"/>	1313013 Urban HARMONY 13KV	21	58	1,470	0.0	2	3	0
81	<input type="checkbox"/>	1313053 Urban HARMONY-INTERNATIONAL	71	645	1,028	0.1	38	2	1
82	<input type="checkbox"/>	6313033 Urban HARMONY-LAKE			687				0
83	<input type="checkbox"/>	1313033 Urban HARMONY-LINNWOD	2,480	3,853	2,240	1.1	103	8	3
84	<input checked="" type="checkbox"/>	1313023 Urban HARMONY-MILWAKI	4,049	4,497	1,743	2.3	155	15	1

SAIFI, SAIDI - See Appendix for Definitions Cust - Customers

Regional Feeder Performance Summary

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 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
85	<input type="checkbox"/>	1313043 Urban HARMONY-THIESEN	62	72	279	0.2	15	2	0
86	<input type="checkbox"/>	1312053 Urban HARRISON 13KV	14	69	1,387	0.0	3	2	1
87	<input type="checkbox"/>	1312043 Urban HARRISON-DAVIS	1	2	1,188	0.0	0	1	1
88	<input checked="" type="checkbox"/>	1312013 Urban HARRISON-IVON	3,035	570	2,957	1.0	12	7	5
89	<input type="checkbox"/>	1385051 Urban HAWTHORNE 4KV	22	112	310	0.1	22	4	N/A
90	<input type="checkbox"/>	1325033 Urban HOLGATE 13KV	4	24	2,984	0.0	0	4	2
91	<input type="checkbox"/>	1325043 Urban HOLGATE-BYBEE	109	139	2,504	0.0	3	7	1
92	<input type="checkbox"/>	1325013 Urban HOLGATE-GIDEON	48	75	1,083	0.0	4	2	0
93	<input checked="" type="checkbox"/>	1325053 Urban HOLGATE-KENLWOR	2,369	4,933	2,098	1.1	141	7	0
94	<input type="checkbox"/>	1325023 Urban HOLGATE-RHONE	148	175	2,336	0.1	5	8	1
95	<input checked="" type="checkbox"/>	1316033 Urban HYDN IS-MALAND	167	310	152	1.1	122	3	1
96	<input checked="" type="checkbox"/>	1316013 Urban HYDN IS-N SHORE	1,803	5,621	2,010	0.9	168	7	0
97	<input type="checkbox"/>	1316023 Urban HYDN IS-S SHORE			494				0
98	<input checked="" type="checkbox"/>	1345043 Urban ISLAND 13KV	2,579	8,789	2,516	1.0	210	4	3
99	<input type="checkbox"/>	1345033 Urban ISLAND-13180	199	283	954	0.2	18	5	3
100	<input type="checkbox"/>	1345023 Urban ISLAND-13187	738	1,456	3,029	0.2	29	14	4
101	<input type="checkbox"/>	1345013 Urban ISLAND-13188	134	420	2,690	0.0	9	14	3
102	<input checked="" type="checkbox"/>	6365023 Urban JEN LDG 13KV	194	384	2,592	0.1	9	14	5
103	<input type="checkbox"/>	6365033 Urban JEN LDG-MELDRUM	341	360	2,281	0.1	9	13	4
104	<input checked="" type="checkbox"/>	6365013 Urban JEN LDG-O GROVE	2,759	2,328	1,346	2.0	104	7	3
105	<input checked="" type="checkbox"/>	6365043 Urban JEN LDG-WEBSTER	4,044	4,373	3,644	1.1	72	18	6

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: 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
106	<input type="checkbox"/>	1367043 Urban KELLEY POINT-LEDBETTER			27				N/A
107	<input type="checkbox"/>	1367053 Urban KELLEY POINT-SOLAR1			1				N/A
108	<input type="checkbox"/>	1367063 Urban KELLEY POINT-SOLAR2			3				N/A
109	<input type="checkbox"/>	1367013 Urban KELLEY PT 13 KV			15				1
110	<input type="checkbox"/>	1367023 Urban KLY PT-MARINEDR			112				0
111	<input type="checkbox"/>	1367033 Urban KLY PT-SIMMONS			37				N/A
112	<input type="checkbox"/>	1420021 Urban LAURELHURST 4KV			0	0.0	0		N/A
113	<input type="checkbox"/>	6475023 Urban MT PLS-CLAIRMONT	234	385	2,984	0.1	8	9	0
114	<input type="checkbox"/>	6475043 Urban MT PLS-MT VIEW	136	210	1,876	0.1	7	4	0
115	<input type="checkbox"/>	6475053 Urban MT PLS-RIVRCRST	203	775	2,006	0.1	23	7	0
116	<input type="checkbox"/>	6475033 Urban MT PLS-SOUTHEND	467	1,195	3,561	0.1	20	20	3
117	<input type="checkbox"/>	1480063 Urban MULTNOMAH 13KV	605	2,985	3,636	0.2	49	10	2
118	<input type="checkbox"/>	1480023 Urban MULTNOMAH-13176	577	1,787	2,814	0.2	38	11	2
119	<input type="checkbox"/>	1480033 Urban MULTNOMAH-13177	218	436	3,431	0.1	8	7	3
120	<input type="checkbox"/>	1480013 Urban MULTNOMAH-13181	205	252	2,303	0.1	7	7	2
121	<input type="checkbox"/>	1495032 Urban NORTHERN-11009	47	63	1,117	0.0	3	5	N/A
122	<input type="checkbox"/>	1495042 Urban NORTHERN-11016	13	15	381	0.0	2	2	N/A
123	<input type="checkbox"/>	1495062 Urban NORTHERN-11071	2,334	2,612	1,960	1.2	80	8	N/A
124	<input type="checkbox"/>	1545021 Urban OCKLEY GRN 4KV	16	23	0	0.0	0	1	N/A
125	<input type="checkbox"/>	1558013 Urban PORTSMTH-CARB	2,948	4,586	2,800	1.1	98	8	1
126	<input type="checkbox"/>	1558053 Urban PORTSMTH-DISP			9				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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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"/>	1558033 Urban PORTSMTH-WILL	342	1,108	3,009	0.1	22	7	3
128	<input type="checkbox"/>	1598012 Urban RVRGATE-11010			20				2
129	<input type="checkbox"/>	1598022 Urban RVRGATE-11011	36	140	1,209	0.0	7	10	4
130	<input type="checkbox"/>	1598023 Urban RVRGATE-PEARCY			48				0
131	<input type="checkbox"/>	1598013 Urban RVRGATE-SWIFT	2	9	54	0.0	10	2	0
132	<input checked="" type="checkbox"/>	1600033 Urban RVRVIW-FULTON	2,812	5,278	2,410	1.2	131	6	4
133	<input type="checkbox"/>	1600023 Urban RVRVIW-MACADAM	793	1,303	685	1.2	114	3	2
134	<input type="checkbox"/>	1600013 Urban RVRVIW-TWILLIGR	182	803	1,090	0.2	44	11	2
135	<input type="checkbox"/>	1655033 Urban SELLWD 13KV	528	1,142	3,211	0.2	21	15	1
136	<input type="checkbox"/>	1655013 Urban SELLWD-KELOG PK	16	22	1,737	0.0	1	3	1
137	<input checked="" type="checkbox"/>	1655023 Urban SELLWD-WAVERLY	3,262	5,308	1,062	3.1	300	8	1
138	<input type="checkbox"/>	1385032 Urban STEPHN-11001			233				0
139	<input type="checkbox"/>	1385042 Urban STEPHN-11020			648				0
140	<input type="checkbox"/>	1385052 Urban STEPHN-11054			38				N/A
141	<input type="checkbox"/>	1385062 Urban STEPHN-11055			44				N/A
142	<input type="checkbox"/>	1385082 Urban STEPHN-11092			107				N/A
143	<input type="checkbox"/>	1385072 Urban STEPHN-11093			187				N/A
144	<input type="checkbox"/>	1385112 Urban STEPHN-11094			7				N/A
145	<input type="checkbox"/>	1385092 Urban STEPHN-11095			195				N/A
146	<input type="checkbox"/>	1385102 Urban STEPHN-11097			121				N/A
147	<input type="checkbox"/>	1385022 Urban STEPHN-11098			42				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
148	<input type="checkbox"/>	1385122 Urban STEPHN-11099			69				N/A
149	<input type="checkbox"/>	6675013 Urban SULL-ROBINWOOD	521	1,074	2,541	0.2	25	18	1
150	<input type="checkbox"/>	6675053 Urban SULL-SALAMO	336	1,019	1,929	0.2	32	11	1
151	<input checked="" type="checkbox"/>	6675033 Urban SULL-SUSSEX	2,164	11,830	2,901	0.7	245	26	1
152	<input checked="" type="checkbox"/>	6675043 Urban SULL-WILLAMETTE	2,026	4,119	1,485	1.4	166	18	2
153	<input type="checkbox"/>	6675023 Urban SULLIVAN-TANNER	202	366	2,074	0.1	11	5	1
154	<input type="checkbox"/>	1680073 Urban SWAN IS-BASIN	24	398	0	0.0	0	1	0
155	<input type="checkbox"/>	1680123 Urban SWAN IS-DOLPHIN			0	0.0	0		0
156	<input type="checkbox"/>	1680153 Urban SWAN IS-FREIGHTLINER			32				0
157	<input type="checkbox"/>	1680133 Urban SWAN IS-GOING	59	48	57	1.0	51	3	4
158	<input type="checkbox"/>	1680143 Urban SWAN IS-SHIPYRD	41	54	0	0.0	0	1	0
159	<input type="checkbox"/>	1685013 Urban SYLVAN-BARNES	3,303	4,662	2,685	1.2	104	15	1
160	<input type="checkbox"/>	1685023 Urban SYLVAN-PATTON	3,265	5,179	2,594	1.3	120	19	1
161	<input type="checkbox"/>	1690023 Urban TABOR 13KV	4,301	6,452	3,288	1.3	118	14	0
162	<input type="checkbox"/>	1690013 Urban TABOR-82ND AV	2,377	3,212	2,287	1.0	84	10	2
163	<input type="checkbox"/>	1690033 Urban TABOR-HOSPITAL	1,123	1,293	1,092	1.0	71	5	0
164	<input type="checkbox"/>	1707103 Urban TEMP-NORTH			16				N/A
165	<input type="checkbox"/>	1707113 Urban TEMP-SOUTH	11	153	283	0.0	32	1	N/A
166	<input type="checkbox"/>	6696023 Urban TNCTR-LAWNFIELD			1,776				0
167	<input checked="" type="checkbox"/>	6696053 Urban TNCTR-MONTEREY	4,057	8,278	2,735	1.5	182	7	4
168	<input type="checkbox"/>	6696073 Urban TNCTR-NORTH 13KV			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

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"/>	6696043 Urban TNCTR-PRECISION			3				0
170	<input type="checkbox"/>	6696013 Urban TNCTR-SOUTH 13KV	1	2	14	0.1	11	1	0
171	<input type="checkbox"/>	6696063 Urban TNCTR-SUNNYBROOK			1,057				0
172	<input type="checkbox"/>	6696033 Urban TNCTR-VALLEY VW			226				0
173	<input type="checkbox"/>	6699033 Rural TWILIGHT-BREMER	149	311	1,119	0.1	17	19	1
174	<input type="checkbox"/>	1707053 Urban URBAN-BARBUR	356	1,220	1,438	0.2	51	4	1
175	<input type="checkbox"/>	1707083 Urban URBAN-CAMPUS			34				1
176	<input checked="" type="checkbox"/>	1707013 Urban URBAN-CORBETT	3,068	16,011	1,107	2.8	868	7	1
177	<input checked="" type="checkbox"/>	1707063 Urban URBAN-GAINES	2,564	7,222	1,047	2.4	414	4	4
178	<input type="checkbox"/>	1707043 Urban URBAN-GIBBS	1,072	1,690	917	1.2	111	4	1
179	<input type="checkbox"/>	1707073 Urban URBAN-KELLY	1	1	534	0.0	0	1	1
180	<input type="checkbox"/>	1707023 Urban URBAN-LANDING	32	325	1,340	0.0	15	4	1
181	<input type="checkbox"/>	1707033 Urban URBAN-MEDICAL			122				2
182	<input type="checkbox"/>	1707093 Urban URBAN-OHSU			18				1
183	<input type="checkbox"/>	1743013 Urban WACKER			4				N/A
184	<input type="checkbox"/>	1741012 Urban WILLBRDG #1	5	9	122	0.0	4	2	0
185	<input type="checkbox"/>	1741042 Urban WILLBRDG #4			93				1

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:			95,022	193,917	229,208			919	

Total Customer Momentary Events: 373,375

Total MAIFle Customers: 220,185

MAIFle Value: 1.70
 SAIFI Value: 0.41
 SAIDI Value: 51

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
186	<input type="checkbox"/>	5156033 Urban B LAKE-SUNDIAL	3	25	505	0.0	3	3	0
187	<input type="checkbox"/>	5156023 Urban B LAKE-TOYOTNSO			20				N/A
188	<input type="checkbox"/>	5156013 Urban BLUE LAKE 13 KV	87	116	2,281	0.0	3	6	0
189	<input type="checkbox"/>	5177033 Rural BORING-282ND AV	168	397	2,306	0.1	10	17	0
190	<input type="checkbox"/>	5177023 Rural BORING-CITY	1,484	1,353	1,352	1.1	60	9	0
191	<input type="checkbox"/>	5177013 Rural BORING-TELFORD	372	1,387	1,406	0.3	59	19	4
192	<input checked="" type="checkbox"/>	5174013 Remote BRIGHTWD 13KV	2,243	5,262	983	2.3	321	24	23
193	<input checked="" type="checkbox"/>	5174023 Remote BRIGHTWD-N BANK	2,083	7,164	790	2.6	544	18	12
194	<input checked="" type="checkbox"/>	5198013 Urban CARVER 13 KV	2,729	4,580	2,019	1.4	136	17	0
195	<input checked="" type="checkbox"/>	5198033 Urban CARVER-ALMOND	4,099	2,989	1,956	2.1	92	4	0
196	<input checked="" type="checkbox"/>	5198053 Urban CARVER-NORTH	3,283	7,054	1,627	2.0	260	2	0
197	<input type="checkbox"/>	5198023 Urban CARVER-RIVRBEND	81	45	81	1.0	33	1	0
198	<input checked="" type="checkbox"/>	5198063 Urban CARVER-SOUTH	390	5,371	127	3.1	2,538	3	0
199	<input checked="" type="checkbox"/>	5198043 Urban CARVER-WOODS	3,677	14,687	2,958	1.2	298	10	1
200	<input checked="" type="checkbox"/>	5202033 Urban CNTNNIL 13KV	3,839	11,996	3,338	1.1	216	18	0
201	<input checked="" type="checkbox"/>	5202053 Urban CNTNNIL-BARKER	3,093	11,305	2,760	1.1	246	11	0
202	<input type="checkbox"/>	5202043 Urban CNTNNIL-BRACRFT	259	291	1,921	0.1	9	6	0
203	<input type="checkbox"/>	5202063 Urban CNTNNIL-TREEAND	4,515	5,124	3,302	1.4	93	11	0
204	<input checked="" type="checkbox"/>	5218013 Rural DUNNS C 13 KV	982	1,837	1,798	0.5	61	23	37
205	<input type="checkbox"/>	5218023 Rural DUNNS C-KELSO	367	877	341	1.1	154	4	3
206	<input type="checkbox"/>	5230013 Rural EAGLE CR-BARTON	334	1,606	866	0.4	111	17	5

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
207	<input type="checkbox"/>	5230023 Rural EAGLE CR-RIVRML	326	736	775	0.4	57	21	5
208	<input type="checkbox"/>	5237023 Rural ESTACADA 13KV	345	1,515	1,637	0.2	56	21	0
209	<input type="checkbox"/>	5237013 Rural ESTACADA-FARADY	3,644	9,035	3,363	1.1	161	79	1
210	<input type="checkbox"/>	5251053 Urban FAIRVIEW 13 KV	67	69	1,456	0.0	3	4	2
211	<input type="checkbox"/>	5251033 Urban FAIRVIEW-CLRCK			283				N/A
212	<input type="checkbox"/>	5251013 Urban FAIRVIEW-K CLUB	835	3,204	2,523	0.3	76	12	0
213	<input checked="" type="checkbox"/>	5251043 Urban FAIRVIEW-TROUTD	5,987	8,806	3,571	1.7	148	10	0
214	<input type="checkbox"/>	5251023 Urban FAIRVIEW-W VILL	2,090	1,804	1,902	1.1	57	8	3
215	<input type="checkbox"/>	5260013 Urban GLISAN-FAB 2A			1				N/A
216	<input type="checkbox"/>	5260083 Urban GLISAN-UTIL 1B			1				N/A
217	<input type="checkbox"/>	5280013 Urban GLNDOVEER-13596	130	415	882	0.1	28	12	0
218	<input type="checkbox"/>	5280023 Urban GLNDOVEER-13597	93	172	1,313	0.1	8	4	1
219	<input type="checkbox"/>	5280033 Urban GLNDOVEER-13598	116	175	1,955	0.1	5	9	0
220	<input type="checkbox"/>	5280043 Urban GLNDOVEER-13599	1,682	3,349	2,090	0.8	96	12	1
221	<input type="checkbox"/>	5280053 Urban GLNDOVEER-CLFGT	459	1,211	1,958	0.2	37	14	0
222	<input type="checkbox"/>	5280063 Urban GLNDOVEER-NEAST	77	210	1,560	0.0	8	2	0
223	<input type="checkbox"/>	5317013 Urban HEMLOCK 13KV	187	807	2,107	0.1	23	4	3
224	<input type="checkbox"/>	5317023 Urban HEMLOCK-FREMONT	179	886	1,482	0.1	36	1	1
225	<input type="checkbox"/>	5317033 Urban HEMLOCK-MASON			628				1
226	<input type="checkbox"/>	5323043 Rural HOGAN N 13KV	353	1,294	2,574	0.1	30	13	0
227	<input type="checkbox"/>	5323023 Rural HOGAN N-BRGDOON	2,911	4,356	2,823	1.0	93	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

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
228	<input checked="" type="checkbox"/>	5323033 Urban HOGAN N-LINKS	2,979	9,253	3,487	0.9	159	43	1
229	<input type="checkbox"/>	5323013 Rural HOGAN N-SLQUIST	3,935	4,048	2,892	1.4	84	9	0
230	<input type="checkbox"/>	5324013 Urban HOGAN S-CLEVLND	260	572	2,222	0.1	15	7	0
231	<input checked="" type="checkbox"/>	5324023 Urban HOGAN S-LAWRNCE	8,566	16,011	3,593	2.4	267	27	2
232	<input type="checkbox"/>	5324033 Urban HOGAN S-MAIN	234	802	2,528	0.1	19	5	1
233	<input type="checkbox"/>	5324043 Urban HOGAN S-PAROPA	435	1,396	2,947	0.1	28	12	0
234	<input type="checkbox"/>	5324053 Urban HOGAN S-WALLULA	403	966	2,982	0.1	19	9	0
235	<input type="checkbox"/>	1370023 Urban KLY BU-BINNSMED	1,424	1,609	3,186	0.4	30	14	4
236	<input type="checkbox"/>	1370033 Urban KLY BU-FAIRLAWN	2,417	2,603	1,397	1.7	112	8	1
237	<input type="checkbox"/>	1370043 Urban KLY BU-MALL 205	376	950	2,704	0.1	21	11	1
238	<input type="checkbox"/>	1370013 Urban KLY BU-MC GREW	2,753	3,119	2,623	1.0	71	8	1
239	<input type="checkbox"/>	6402013 Rural LELAND-BEAVERC	5,777	9,093	2,760	2.1	198	22	1
240	<input checked="" type="checkbox"/>	6402023 Rural LELAND-CARUS	6,918	26,243	2,256	3.1	698	71	0
241	<input type="checkbox"/>	6402033 Urban LELAND-KELM	1,824	2,730	1,710	1.1	96	5	0
242	<input type="checkbox"/>	1405013 Urban LENTS-13101	573	579	4,558	0.1	8	13	1
243	<input type="checkbox"/>	1405043 Urban LENTS-HAPPY VAL	44	181	2,966	0.0	4	10	1
244	<input checked="" type="checkbox"/>	1405023 Urban LENTS-MT SCOTT	112	105	1,487	0.1	4	5	9
245	<input type="checkbox"/>	1405033 Urban LENTS-NORTH	279	254	1,529	0.2	10	4	1
246	<input type="checkbox"/>	5440023 Urban MCGILL-LSIAIR1A			1				N/A
247	<input type="checkbox"/>	5455013 Urban MIDWAY-DIVISION	582	1,100	4,193	0.1	16	17	0
248	<input type="checkbox"/>	5455023 Urban MIDWAY-DOUGLAS	216	453	2,486	0.1	11	13	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
249	<input type="checkbox"/>	5455033 Urban MIDWAY-LYNCH	313	440	2,365	0.1	11	12	2
250	<input type="checkbox"/>	5455043 Urban MIDWAY-POWELHST	337	847	3,571	0.1	14	12	0
251	<input checked="" type="checkbox"/>	5515013 Remote OK GRV-LK HARRT	348	4,276	98	3.6	2,618	7	N/A
252	<input checked="" type="checkbox"/>	5515023 Remote OK GRV-WT WATER	81	733	27	3.0	1,629	4	N/A
253	<input type="checkbox"/>	1514913 Urban OREGON STEEL 13			2				N/A
254	<input checked="" type="checkbox"/>	5517013 Rural ORIENT 13KV	1,624	6,746	822	2.0	492	31	2
255	<input type="checkbox"/>	5517023 Rural ORIENT-BARLOW	3,657	3,776	1,453	2.5	156	27	6
256	<input type="checkbox"/>	1545011 PENIN PARK 4KV	6	8				1	N/A
257	<input checked="" type="checkbox"/>	5553013 Urban PLSNT VALY 13KV	692	3,243	891	0.8	218	14	9
258	<input type="checkbox"/>	5553023 Urban PLSNT VALY-BXTR	2,245	6,471	3,547	0.6	109	15	1
259	<input type="checkbox"/>	5553033 Urban PLSNT VALY-MOON	133	265	1,859	0.1	9	6	4
260	<input type="checkbox"/>	5553043 Urban PLSNT VALY-SUN	4,015	4,560	2,362	1.7	116	27	2
261	<input type="checkbox"/>	1557911 Urban PORTLAND GRD W PUMPING			2				N/A
262	<input type="checkbox"/>	5575033 Urban RAMAPO 13KV	1,217	1,293	2,911	0.4	27	17	0
263	<input type="checkbox"/>	5575013 Urban RAMAPO-GILBERT	564	1,755	3,176	0.2	33	17	0
264	<input type="checkbox"/>	6581013 Rural REDLAND 13KV	4,929	7,157	2,338	2.1	184	55	0
265	<input type="checkbox"/>	6581023 Rural REDLAND-HENRICI	3,133	4,035	1,835	1.7	132	38	0
266	<input type="checkbox"/>	5602013 Urban ROCKWD 13KV	314	1,130	3,390	0.1	20	13	1
267	<input type="checkbox"/>	5602053 Urban ROCKWD-AIRPT WY	8	9	7	1.1	79	2	N/A
268	<input type="checkbox"/>	5602063 Urban ROCKWD-BOEING			1				N/A
269	<input type="checkbox"/>	5602023 Urban ROCKWD-INDUSTRAL	29	38	133	0.2	17	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

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
270	<input type="checkbox"/>	5602033 Urban ROCKWD-REYNOLDS	66	97	1,652	0.0	4	3	0
271	<input type="checkbox"/>	5602043 Urban ROCKWD-WILKES	1	4	45	0.0	6	1	0
272	<input type="checkbox"/>	5610013 Urban RUBY-13502	87	275	2,676	0.0	6	6	N/A
273	<input type="checkbox"/>	5610023 Urban RUBY-13503	51	280	1,691	0.0	10	3	N/A
274	<input type="checkbox"/>	5640033 Remote SANDY 13KV	3,687	8,400	2,387	1.5	211	50	1
275	<input type="checkbox"/>	5640043 Urban SANDY-362ND	438	1,568	1,465	0.3	64	12	1
276	<input type="checkbox"/>	5640013 Urban SANDY-BLUFF	634	585	1,380	0.5	25	10	0
277	<input checked="" type="checkbox"/>	5640023 Rural SANDY-WILDCAT	9,342	38,770	2,579	3.6	902	50	1
278	<input type="checkbox"/>	1646912 Urban SCHNITZER 11KV			0	0.0	0		N/A
279	<input type="checkbox"/>	6671913 Urban SMURFIT-OC 13KV			1				N/A
280	<input type="checkbox"/>	1676913 Sulzer 115A			0	0.0	0		N/A
281	<input type="checkbox"/>	1676914 Urban SULZER 115B			2				N/A
282	<input type="checkbox"/>	1676912 Urban SULZER BINGHAM			0	0.0	0		N/A
283	<input type="checkbox"/>	5677023 Remote SUMMIT-GOVT CAMP			505				0
284	<input type="checkbox"/>	5677013 Remote SUMMIT-MEADOWS	2	9	15	0.1	37	2	0
285	<input type="checkbox"/>	5677033 Remote SUMMIT-SUMMIT	288	938	263	1.1	214	5	5
286	<input type="checkbox"/>	5727013 Remote WELCHES 13KV	2,835	4,948	1,800	1.6	165	30	2
287	<input checked="" type="checkbox"/>	5727023 Remote WELCHES-ZIG ZAG	3,321	11,943	1,457	2.3	492	52	2
288	<input type="checkbox"/>	6666912 Urban WEST LINN PAPER			0	0.0	0		N/A

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:			138,066	318,179	170,836			1,289	

Total Customer Momentary Events: 259,882

Total MAIFle Customers: 166,023

MAIFle Value: 1.57
 SAIFI Value: 0.81
 SAIDI Value: 112

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
289	<input type="checkbox"/>	2120013 Rural AMITY 13KV	68	323	1,292	0.1	15	16	0
290	<input type="checkbox"/>	2120023 Remote AMITY-BELLEVUE	1,402	1,188	1,011	1.4	71	23	0
291	<input type="checkbox"/>	2140043 Urban BARNES-BATTLCRK	38	154	489	0.1	19	1	0
292	<input type="checkbox"/>	2140013 Urban BARNES-BOONE	329	899	1,718	0.2	31	5	0
293	<input type="checkbox"/>	2140023 Rural BARNES-COMMERCL	92	459	3,194	0.0	9	9	0
294	<input type="checkbox"/>	2140033 Urban BARNES-SUNNYSID	501	1,339	3,211	0.2	25	9	0
295	<input type="checkbox"/>	2151023 Urban BETHEL-FRUTLAND	279	417	2,762	0.1	9	9	0
296	<input type="checkbox"/>	2151033 Rural BETHEL-GEER	152	325	1,507	0.1	13	20	0
297	<input type="checkbox"/>	2151013 Urban BETHEL-MCLAY	267	630	1,807	0.1	21	7	0
298	<input type="checkbox"/>	6190013 Rural CANBY-13643	320	1,687	1,491	0.2	68	18	1
299	<input type="checkbox"/>	6190023 Rural CANBY-13644	157	276	441	0.4	38	11	1
300	<input type="checkbox"/>	6190043 Rural CANBY-BUTTEVLE	46	71	1,159	0.0	4	8	1
301	<input checked="" type="checkbox"/>	2207013 Urban CLAXTAR 13KV	467	746	334	1.4	134	5	1
302	<input type="checkbox"/>	2207023 Urban CLAXTAR-HAYSVIL	753	1,308	1,955	0.4	40	5	0
303	<input type="checkbox"/>	2207033 Urban CLAXTAR-RIDGE	5	11	1,835	0.0	0	1	0
304	<input type="checkbox"/>	6208013 Remote COLTON-DHOOGHE	763	2,536	595	1.3	256	26	2
305	<input type="checkbox"/>	6208023 Remote COLTON-GRAYS HL	1,426	3,248	1,069	1.3	182	29	1
306	<input type="checkbox"/>	2211143 Urban CULVER 13KV			0	0.0	0		N/A
307	<input type="checkbox"/>	2211113 Urban CULVER-GAFFIN			0	0.0	0		N/A
308	<input type="checkbox"/>	2211123 Urban CULVER-SANYO #1			3				N/A
309	<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
310	<input type="checkbox"/>	4220013 Rural DAYTON-EAST	3,252	5,308	1,423	2.3	224	33	4
311	<input checked="" type="checkbox"/>	4220033 Rural DAYTON-LAFAYETT	3,944	29,158	1,795	2.2	975	24	11
312	<input checked="" type="checkbox"/>	4220023 Rural DAYTON-S AND W	704	3,192	435	1.6	440	13	1
313	<input type="checkbox"/>	2233013 Urban ELMA 13KV	138	279	1,299	0.1	13	4	0
314	<input type="checkbox"/>	2233023 Urban ELMA-4 CORNERS	551	611	2,596	0.2	14	7	0
315	<input type="checkbox"/>	2233043 Urban ELMA-HUDSON	165	265	2,158	0.1	7	6	0
316	<input type="checkbox"/>	2233033 Urban ELMA-STATE 13KV	29	32	346	0.1	6	2	0
317	<input type="checkbox"/>	2250013 Urban FAIRMT-CNDLARIA	183	591	2,869	0.1	12	6	1
318	<input type="checkbox"/>	2250023 Rural FAIRMT-MISSION	3,849	7,587	2,314	1.7	197	23	1
319	<input checked="" type="checkbox"/>	2253013 Rural FARGO 13KV	2,626	8,984	1,719	1.5	314	29	0
320	<input type="checkbox"/>	2285033 Rural GRND RND-AGENCY	170	709	509	0.3	84	9	N/A
321	<input type="checkbox"/>	2285023 Remote GRND RND-FORTHL	501	2,189	710	0.7	185	16	N/A
322	<input type="checkbox"/>	2318023 Urban HILLCREST 13KV	2	11	184	0.0	4	2	N/A
323	<input type="checkbox"/>	2318033 Urban HILLCREST-CASCADIA			7				N/A
324	<input type="checkbox"/>	2318043 Urban HILLCREST-REED	1,760	2,701	1,663	1.1	97	9	N/A
325	<input type="checkbox"/>	2318223 Urban HILLCREST-SOUTH			42				N/A
326	<input checked="" type="checkbox"/>	2188013 Rural HUGHES-ORC HTS	625	2,089	372	1.7	337	7	N/A
327	<input type="checkbox"/>	2340023 Urban INDIAN-KEIZER	30	66	1,988	0.0	2	3	0
328	<input type="checkbox"/>	2340013 Rural INDIAN-LABISH	2,769	2,680	2,130	1.3	75	16	0
329	<input type="checkbox"/>	2340043 Urban INDIAN-NORTH	2,734	3,539	3,089	0.9	69	13	0
330	<input type="checkbox"/>	2340033 Urban INDIAN-STATION	262	491	1,347	0.2	22	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

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
331	<input type="checkbox"/>	2340053 Urban INDIAN-WEST	479	795	3,469	0.1	14	16	0
332	<input type="checkbox"/>	2400911 Rural LAKE LABISH 4KV			1				N/A
333	<input checked="" type="checkbox"/>	2410013 Urban LIB-BROWNING	81	174	639	0.1	16	6	5
334	<input type="checkbox"/>	2410043 Urban LIB-LONE OAK	2,754	4,050	2,405	1.1	101	12	0
335	<input type="checkbox"/>	2410053 Urban LIB-MORNINGSIDE	275	765	2,290	0.1	20	14	0
336	<input checked="" type="checkbox"/>	2410023 Urban LIB-ROSEDALE	1,834	9,935	2,170	0.8	275	28	2
337	<input type="checkbox"/>	2410033 Urban LIB-VISTA	161	413	1,955	0.1	13	7	3
338	<input type="checkbox"/>	6464013 Rural LIBERAL 13KV	211	847	1,054	0.2	48	19	0
339	<input type="checkbox"/>	6464023 Rural LIBERAL-SAWMILL			1				0
340	<input type="checkbox"/>	2410063 Rural LIBERTY-SKYLINE	996	4,357	2,959	0.3	88	20	0
341	<input type="checkbox"/>	2435033 Urban MC CL-COTTAGE	144	135	1,512	0.1	5	3	0
342	<input type="checkbox"/>	2435013 Urban MC CL-FRONT ST	82	267	1,024	0.1	16	5	1
343	<input type="checkbox"/>	2435043 Urban MC CL-HOLLYWOOD	106	103	1,294	0.1	5	4	1
344	<input type="checkbox"/>	2900013 Rural MCMINNVILLE W AND L			52				N/A
345	<input type="checkbox"/>	2450023 Urban MIDGROVE-BROWN	28	44	2,125	0.0	1	2	1
346	<input type="checkbox"/>	2450043 Urban MIDGROVE-CHEMEK	223	891	1,109	0.2	48	5	0
347	<input type="checkbox"/>	2450033 Urban MIDGROVE-CORDON	354	1,976	2,727	0.1	43	12	0
348	<input type="checkbox"/>	2450013 Urban MIDGROVE-SWEGLE	353	440	2,032	0.2	13	8	1
349	<input type="checkbox"/>	2450053 Urban MIDGROVE-WEST	373	540	3,452	0.1	9	6	0
350	<input type="checkbox"/>	2540033 Rural MILL CREEK 13KV	10	54	512	0.0	6	3	0
351	<input checked="" type="checkbox"/>	2540013 Rural MILL CREEK-EASTLAND	2,722	6,626	1,208	2.3	329	16	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
352	<input type="checkbox"/>	2540023 Rural MILL CREEK-KUEBLER			559				0
353	<input type="checkbox"/>	6466023 Rural MOLALLA-BUCKAROO	111	209	2,500	0.0	5	5	0
354	<input type="checkbox"/>	6466043 Rural MOLALLA-FOREST	354	1,003	1,554	0.2	39	29	0
355	<input type="checkbox"/>	6466013 Remote MOLALLA-MARQUAM	922	4,392	1,434	0.6	184	42	0
356	<input type="checkbox"/>	6466033 Rural MOLALLA-YODER	1,107	2,769	1,527	0.7	109	16	0
357	<input type="checkbox"/>	2425013 Urban MRKT ST-ENGLEWD	247	990	1,349	0.2	44	12	1
358	<input type="checkbox"/>	2425033 Urban MRKT ST-FAIRGND	202	183	1,976	0.1	6	10	0
359	<input type="checkbox"/>	2425023 Urban MRKT ST-HAWTHNE	72	213	1,212	0.1	11	2	1
360	<input type="checkbox"/>	2425043 Urban MRKT ST-PARK	118	221	1,109	0.1	12	7	0
361	<input type="checkbox"/>	2470013 Rural MT ANGEL-EAST	57	159	579	0.1	16	6	0
362	<input type="checkbox"/>	2470023 Rural MT ANGEL-WEST	560	1,024	1,657	0.3	37	34	0
363	<input checked="" type="checkbox"/>	6478013 Rural MULINO-NORTH	44	84	5	8.8	1,013	3	1
364	<input type="checkbox"/>	6478023 Rural MULINO-SOUTH	506	3,201	1,298	0.4	148	23	4
365	<input type="checkbox"/>	2505033 Rural N MARION FRONT			527				0
366	<input type="checkbox"/>	2505043 Rural N MARION-CROSBY	1,366	2,387	2,087	0.7	69	8	0
367	<input type="checkbox"/>	2505013 Rural N MARION-HUBBRD	38	126	766	0.0	10	4	0
368	<input type="checkbox"/>	2505023 Rural N MARION-MCLARN	219	883	1,840	0.1	29	23	0
369	<input type="checkbox"/>	4485033 Rural NEWBERG-CHEHALM	4,041	4,178	3,119	1.3	80	35	1
370	<input type="checkbox"/>	4485043 Urban NEWBERG-COLLEGE	2,587	3,800	2,543	1.0	90	3	0
371	<input type="checkbox"/>	4485023 Rural NEWBERG-DUNDEE	549	1,678	2,413	0.2	42	12	0
372	<input type="checkbox"/>	4485053 Urban NEWBERG-HOOVR PK	90	181	1,586	0.1	7	4	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
373	<input type="checkbox"/>	2523043 Urban OXFORD 13KV	100	277	980	0.1	17	5	3
374	<input type="checkbox"/>	2523013 Urban OXFORD-FAIRVIEW	203	1,301	1,931	0.1	40	4	0
375	<input checked="" type="checkbox"/>	2523063 Urban OXFORD-LEE	1,847	1,034	852	2.2	73	9	0
376	<input type="checkbox"/>	2523033 Urban OXFORD-MADRONA	11	26	290	0.0	5	1	0
377	<input checked="" type="checkbox"/>	2523053 Urban OXFORD-RURAL	257	632	131	2.0	290	3	1
378	<input checked="" type="checkbox"/>	2523023 Urban OXFORD-SHELTON	1,587	844	740	2.1	68	4	0
379	<input type="checkbox"/>	2637013 Urban SALEM-13260			64				N/A
380	<input type="checkbox"/>	2637023 Urban SALEM-13261			81				N/A
381	<input type="checkbox"/>	2637033 Urban SALEM-13262			103				N/A
382	<input type="checkbox"/>	2637043 Urban SALEM-13263	1	2	216	0.0	1	1	N/A
383	<input type="checkbox"/>	2637063 Urban SALEM-13264			8				N/A
384	<input type="checkbox"/>	2637053 Urban SALEM-UNION			217				N/A
385	<input type="checkbox"/>	2652013 Remote SCOTSMILL 13KV	3,277	7,525	1,765	1.9	256	63	0
386	<input type="checkbox"/>	2660023 Rural SHERIDAN EAST	293	1,033	1,224	0.2	51	16	2
387	<input type="checkbox"/>	2660013 Rural SHERIDAN-KADELL	732	2,419	1,605	0.5	90	17	2
388	<input type="checkbox"/>	2665013 Rural SILVERTON-NORTH	158	384	2,802	0.1	8	11	1
389	<input type="checkbox"/>	2665023 Remote SILVERTON-SOUTH	2,522	2,823	2,237	1.1	76	24	1
390	<input type="checkbox"/>	2665033 Rural SILVERTON-WEST	1,154	1,908	1,784	0.6	64	56	1
391	<input type="checkbox"/>	4671913 Urban SMURFIT-NEWBERG			1				N/A
392	<input type="checkbox"/>	4672043 Urban SPRINGBK-FERNWD	731	437	1,625	0.4	16	11	2
393	<input type="checkbox"/>	4672023 Rural SPRINGBK-STPAUL	493	980	885	0.6	66	20	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
394	<input type="checkbox"/>	4672013 Urban SPRINGBK-VILLA	165	369	1,809	0.1	12	5	0
395	<input type="checkbox"/>	4672063 Urban SPRINGBK-ZIMRI	323	840	1,358	0.2	37	11	0
396	<input type="checkbox"/>	2630013 Rural ST LOUIS-EAST			1,798				0
397	<input type="checkbox"/>	2630033 Rural ST LOUIS-NORTH	202	538	765	0.3	42	16	5
398	<input type="checkbox"/>	2630023 Rural ST LOUIS-WEST	1,456	3,001	892	1.6	202	47	3
399	<input type="checkbox"/>	2698013 Rural TURNER 13KV	566	2,353	1,203	0.5	117	14	0
400	<input type="checkbox"/>	2698023 Rural TURNER-CASCADE	261	1,183	834	0.3	85	9	0
401	<input checked="" type="checkbox"/>	4700013 Rural UNIONVALE 13KV	4,742	9,267	1,324	3.6	420	60	0
402	<input type="checkbox"/>	2705013 Urban UNIVRSITY-MILL	18	18	415	0.0	3	1	0
403	<input type="checkbox"/>	2705023 Urban UNIVRSITY-TRADE	62	77	2,535	0.0	2	6	0
404	<input type="checkbox"/>	2720013 Rural WACONDA 13KV	1,205	2,259	1,945	0.6	70	20	2
405	<input type="checkbox"/>	2720033 Rural WACONDA-NORPAC			8				0
406	<input type="checkbox"/>	2720023 Rural WACONDA-RIVER RD	82	265	513	0.2	31	20	0
407	<input type="checkbox"/>	2725013 Rural WALLACE RD 13KV	3,737	6,397	1,763	2.1	218	20	0
408	<input type="checkbox"/>	2740033 Remote WILLAMINA-BRIDGE	1,707	7,934	1,278	1.3	372	17	1
409	<input checked="" type="checkbox"/>	2740023 Rural WILLAMINA-BUELL	886	6,329	631	1.4	602	9	1
410	<input checked="" type="checkbox"/>	2740013 Rural WILLAMINA-LUMBER	7	51	10	0.7	307	1	2
411	<input type="checkbox"/>	2753033 Urban WOODBURN-CANNERY	378	442	1,465	0.3	18	13	0
412	<input type="checkbox"/>	2753013 Rural WOODBURN-EAST	75	260	402	0.2	39	9	0
413	<input type="checkbox"/>	2753023 Urban WOODBURN-TOMLIN	103	207	1,607	0.1	8	9	0
414	<input type="checkbox"/>	2753043 Urban WOODBURN-WEST	222	371	2,179	0.1	10	4	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
415	<input type="checkbox"/>	4760013 Remote YAMHILL 13KV	547	1,607	1,707	0.3	56	32	0
416	<input type="checkbox"/>	4760023 Rural YAMHILL-CARLTON	2,572	8,002	1,916	1.3	251	35	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:			88,411	219,586	168,396			1,497	

Total Customer Momentary Events: 99,821

Total MAIFle Customers: 164,163

MAIFle Value: 0.61
SAIFI Value: 0.53
SAIDI Value: 78

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
419	<input type="checkbox"/>	4135013 Rural BANKS 13KV	117	560	614	0.2	55	16	3
420	<input type="checkbox"/>	4135023 Rural BANKS-CEDAR CYN	1,155	4,869	1,726	0.7	169	26	1
421	<input type="checkbox"/>	4146013 Rural BEAVER PLNT-B&P			1				N/A
422	<input type="checkbox"/>	4157043 Urban BETHANY-BURTON	12	83	2,857	0.0	2	1	0
423	<input checked="" type="checkbox"/>	4157013 Urban BETHANY-GERMANTOWN	4,717	8,395	3,294	1.4	153	15	0
424	<input type="checkbox"/>	4157023 Urban BETHANY-KAISER	317	670	4,086	0.1	10	5	0
425	<input type="checkbox"/>	4157053 Urban BETHANY-LIDLAW	92	296	2,463	0.0	7	6	0
426	<input type="checkbox"/>	4157063 Urban BETHANY-SPRINGVILLE	1,836	2,562	1,783	1.0	86	3	0
427	<input type="checkbox"/>	4157033 Urban BETHANY-THOMPSON	1	5	1,086	0.0	0	1	1
428	<input type="checkbox"/>	4160913 Urban BOISE CASC WR-1			2				N/A
429	<input checked="" type="checkbox"/>	1170043 Urban BOONS-GOODALL	1,775	4,161	1,697	1.0	147	4	0
430	<input type="checkbox"/>	1170013 Urban BOONS-KRUSEWAY	328	493	1,736	0.2	17	7	0
431	<input type="checkbox"/>	1170033 Urban BOONS-LK GROVE	3,051	1,461	2,243	1.4	39	12	1
432	<input type="checkbox"/>	1170053 Urban BOONS-MT PARK	107	587	2,538	0.0	14	4	0
433	<input type="checkbox"/>	1170023 Urban BOONS-WMBLY PK	395	1,981	1,510	0.3	79	9	0
434	<input checked="" type="checkbox"/>	4185013 Urban BROOKWOOD 13KV	1,020	1,957	907	1.1	129	2	1
435	<input type="checkbox"/>	4185023 Urban BROOKWOOD-BRWCK	68	133	2,573	0.0	3	1	1
436	<input type="checkbox"/>	4185033 Urban BROOKWOOD-SUNRS	49	115	1,925	0.0	4	5	3
437	<input type="checkbox"/>	4150013 Urban BVRTN-ALLEN	701	2,255	2,922	0.2	46	18	1
438	<input type="checkbox"/>	4150023 Urban BVRTN-JAMIESON	130	334	707	0.2	28	7	1
439	<input type="checkbox"/>	4150033 Urban BVRTN-NORTHWEST	262	925	1,295	0.2	43	12	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
440	<input type="checkbox"/>	4150053 Urban BVRTN-W SLOPE	335	637	2,176	0.2	18	9	0
441	<input type="checkbox"/>	4200033 Urban CEDAR HILLS 13KV			1				3
442	<input type="checkbox"/>	4200063 Urban CEDAR-LEAHY	575	1,248	2,621	0.2	29	19	2
443	<input type="checkbox"/>	4200013 Urban CEDAR-SHOP CEN	1,742	4,961	3,138	0.6	95	35	2
444	<input type="checkbox"/>	4200043 Urban CEDAR-SKYLINE	157	411	3,513	0.0	7	7	2
445	<input checked="" type="checkbox"/>	4200053 Urban CEDAR-ST VINCNT	90	455	120	0.8	227	1	2
446	<input type="checkbox"/>	4200023 Urban CEDAR-SYLVAN	1,868	2,795	2,576	0.7	65	12	2
447	<input type="checkbox"/>	4209023 Urban COFFEE CREEK-FREEMAN	25	73	184	0.1	24	1	0
448	<input type="checkbox"/>	4209013 Urban COFFEE CREEK-HOLIDAY	1	2	342	0.0	0	1	0
449	<input type="checkbox"/>	4210013 Rural CORNELIUS 13KV	1,242	4,045	2,680	0.5	91	23	0
450	<input type="checkbox"/>	4210033 Rural CORNELIUS-ADAIR	266	434	967	0.3	27	6	0
451	<input checked="" type="checkbox"/>	4210023 Rural CORNELIUS-VRBRT	5,209	18,871	1,615	3.2	701	19	1
452	<input type="checkbox"/>	9999023 Remote CRPUD-KASTER			13				N/A
453	<input type="checkbox"/>	9999013 Remote CRPUD-SAUVIE IS	4	25	16	0.3	94	4	N/A
454	<input checked="" type="checkbox"/>	4222043 Urban DENNY-EAST	4,600	2,942	1,644	2.8	107	9	0
455	<input type="checkbox"/>	4222013 Urban DENNY-NORTH	438	510	422	1.0	73	3	0
456	<input type="checkbox"/>	4222033 Urban DENNY-SOUTH	4,590	5,547	3,011	1.5	111	15	0
457	<input type="checkbox"/>	4222023 Urban DENNY-WEST	1,673	4,023	2,697	0.6	89	23	1
458	<input type="checkbox"/>	4223013 Rural DILLEY-13KV	869	2,610	609	1.4	257	12	1
459	<input type="checkbox"/>	4223023 Rural DILLEY-SPRINGHL			1				0
460	<input type="checkbox"/>	4224013 Urban DURHAM 13KV			394				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
461	<input type="checkbox"/>	4224913 Urban DURHAM POOPLANT			3				0
462	<input type="checkbox"/>	4224043 Urban DURHAM-BONITA			693				0
463	<input type="checkbox"/>	4224053 Urban DURHAM-BRIDGEPORT	58	121	1,147	0.1	6	2	0
464	<input type="checkbox"/>	4224023 Urban DURHAM-SATTTLER	300	887	2,331	0.1	23	6	0
465	<input type="checkbox"/>	4224033 Urban DURHAM-SOUTH	34	26	551	0.1	3	1	0
466	<input type="checkbox"/>	4255911 Remote FORESTEX 4 KV	1	2	4	0.3	32	1	N/A
467	<input type="checkbox"/>	4276023 Urban G HOME-MCKAY	405	988	2,705	0.1	22	12	1
468	<input type="checkbox"/>	4276013 Urban G HOME-METZGER	3,144	4,893	3,047	1.0	96	15	0
469	<input checked="" type="checkbox"/>	4275013 Rural GALES CRK 13KV	3,105	9,172	792	3.9	695	51	0
470	<input checked="" type="checkbox"/>	4320013 Rural HILLS-DAIRY CREEK	11,709	19,096	4,205	2.8	272	27	3
471	<input type="checkbox"/>	4320053 Rural HILLS-DENNIS	276	553	267	1.0	124	2	1
472	<input checked="" type="checkbox"/>	4320033 Urban HILLS-JACKSON	3,161	6,023	2,733	1.2	132	24	3
473	<input type="checkbox"/>	4320023 Rural HILLS-LAUREL	668	2,109	1,759	0.4	72	37	1
474	<input type="checkbox"/>	4320043 Urban HILLS-SCHOLLS	141	296	852	0.2	21	1	1
475	<input type="checkbox"/>	4330013 Urban HUBER 13KV	110	326	2,751	0.0	7	13	0
476	<input type="checkbox"/>	4330053 Urban HUBER-BANY	804	2,618	3,362	0.2	47	8	1
477	<input type="checkbox"/>	4330023 Urban HUBER-FRMINGTON	162	377	3,141	0.1	7	7	0
478	<input type="checkbox"/>	4330033 Urban HUBER-KINNAMON	715	1,228	2,267	0.3	32	16	0
479	<input type="checkbox"/>	4330043 Urban HUBER-MARYVILLE	1,546	4,228	4,572	0.3	55	19	0
480	<input type="checkbox"/>	4378023 Urban KING CTY-BULL MT	2,468	2,723	2,396	1.0	68	2	0
481	<input type="checkbox"/>	4378013 Urban KING CTY-FISCHER	3,241	3,093	2,799	1.2	66	9	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
482	<input type="checkbox"/>	4378043 Urban KING CTY-HAZEL B	96	156	1,798	0.1	5	4	0
483	<input type="checkbox"/>	4378053 Urban KING CTY-NORTH	84	222	2,126	0.0	6	2	0
484	<input type="checkbox"/>	4378033 Urban KING CTY-SUMERFL	482	2,767	2,556	0.2	65	2	0
485	<input type="checkbox"/>	4422023 Urban MAIN-AIRPORT	111	217	1,811	0.1	7	7	1
486	<input type="checkbox"/>	4422033 Urban MAIN-BENTLEY	111	440	2,112	0.1	13	7	1
487	<input type="checkbox"/>	4422053 Urban MAIN-EXPRESS	640	1,245	3,100	0.2	24	9	1
488	<input type="checkbox"/>	4422073 Urban MAIN-GRIFFIN			0	0.0	0		N/A
489	<input type="checkbox"/>	4422063 Urban MAIN-JFS1			1				1
490	<input type="checkbox"/>	4422043 Urban MAIN-JONES FARM			1				1
491	<input type="checkbox"/>	4422013 Rural MAIN-RVR RD	878	1,726	2,553	0.3	41	16	1
492	<input type="checkbox"/>	4430913 Rural MAXIM 13KV			4				N/A
493	<input type="checkbox"/>	4447013 Urban MERIDIAN 13KV	225	428	1,370	0.2	19	15	0
494	<input type="checkbox"/>	4447083 Urban MERIDIAN-65TH			1,067				0
495	<input type="checkbox"/>	4447053 Urban MERIDIAN-BORLND	632	1,339	1,292	0.5	62	14	0
496	<input type="checkbox"/>	4447093 Urban MERIDIAN-CHILDS	11	8	443	0.0	1	1	0
497	<input type="checkbox"/>	4447063 Urban MERIDIAN-LAKEVIEW	22	32	389	0.1	5	4	0
498	<input type="checkbox"/>	4447073 Urban MERIDIAN-NYBERG			147				0
499	<input type="checkbox"/>	4447043 Urban MERIDIAN-PLKNGTN	646	1,678	2,835	0.2	36	13	0
500	<input type="checkbox"/>	4447033 Urban MERIDIAN-SAGERT	135	499	2,748	0.0	11	5	0
501	<input checked="" type="checkbox"/>	4482013 Urban MURRAYHILL 13KV	4,368	7,683	3,773	1.2	122	3	0
502	<input type="checkbox"/>	4482033 Urban MURRAYHL-KINTON	181	406	3,825	0.0	6	5	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
503	<input type="checkbox"/>	4482053 Urban MURRAYHL-QUARRY			0	0.0	0		N/A
504	<input type="checkbox"/>	4482043 Urban MURRAYHL-REUSER	23	37	2,089	0.0	1	2	0
505	<input type="checkbox"/>	4482023 Urban MURRAYHL-TEAL	589	1,617	4,033	0.1	24	5	0
506	<input type="checkbox"/>	4510013 Rural N PLAINS 13KV	1,178	5,381	1,572	0.7	205	23	0
507	<input type="checkbox"/>	4510023 Rural N PLAINS-M HILL	697	2,170	1,256	0.6	104	36	1
508	<input type="checkbox"/>	4516013 Urban OAK HILLS 13KV	2,991	3,624	2,320	1.3	94	11	0
509	<input type="checkbox"/>	4516033 Urban OAK HILLS-5 OAK	70	477	1,924	0.0	15	2	0
510	<input type="checkbox"/>	4516053 Urban OAK HILLS-BRIER			479				0
511	<input type="checkbox"/>	4516023 Urban OAK HILLS-SMRST	419	484	1,587	0.3	18	3	0
512	<input type="checkbox"/>	4516043 Urban OAK HILLS-WLKRD	77	501	2,311	0.0	13	2	1
513	<input type="checkbox"/>	4518033 Urban ORENCO 13KV	8	6	507	0.0	1	2	0
514	<input type="checkbox"/>	4518023 Urban ORENCO PRIMATE	47	198	3,231	0.0	4	6	1
515	<input type="checkbox"/>	4518053 Urban ORENCO-231ST			441				0
516	<input checked="" type="checkbox"/>	4518043 Urban ORENCO-AMBRGLEN	4,326	11,053	4,202	1.0	158	4	0
517	<input type="checkbox"/>	4518013 Urban ORENCO-BASELINE	2,286	2,988	5,082	0.4	35	7	0
518	<input type="checkbox"/>	4518063 Urban ORENCO-WILKINS			1,468				0
519	<input type="checkbox"/>	1520013 Urban OSWEGO-IRON MTN	233	575	977	0.2	35	7	0
520	<input checked="" type="checkbox"/>	1520033 Urban OSWEGO-MARYLHST	2,086	5,628	1,677	1.2	201	13	1
521	<input type="checkbox"/>	1520043 Urban OSWEGO-PALATINE	258	979	1,728	0.1	34	13	0
522	<input type="checkbox"/>	1520023 Urban OSWEGO-STAFFORD	1,840	2,608	3,471	0.5	45	21	2
523	<input type="checkbox"/>	4565053 Urban PRGRS-GREENBURG	90	301	1,827	0.0	10	6	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
524	<input type="checkbox"/>	4565063 Urban PRGRS-HALL			179				0
525	<input type="checkbox"/>	4565013 Urban PRGRS-ROBINSON	140	145	2,209	0.1	4	4	2
526	<input type="checkbox"/>	4565023 Urban PRGRS-SAWYER	801	1,282	781	1.0	98	5	1
527	<input type="checkbox"/>	4565033 Urban PRGRS-WSH SQ #1			39				0
528	<input type="checkbox"/>	4565043 Urban PRGRS-WSH SQ #2			26				0
529	<input type="checkbox"/>	4570073 Urban RAL H-DOGWOOD	343	1,036	1,766	0.2	35	16	2
530	<input type="checkbox"/>	4570053 Urban RAL H-MONTCLAIR	481	1,049	1,548	0.3	41	11	2
531	<input type="checkbox"/>	4570063 Urban RAL H-OLESON RD	316	1,024	2,121	0.1	29	16	3
532	<input type="checkbox"/>	4583033 Urban REED-BLANTON	379	721	3,199	0.1	14	9	1
533	<input type="checkbox"/>	4583013 Urban REED-HAZELDALE	322	898	2,236	0.1	24	14	0
534	<input type="checkbox"/>	4583043 Urban REED-INTEL #1			0	0.0	0		0
535	<input type="checkbox"/>	4583053 Urban REED-INTEL #2			0	0.0	0		0
536	<input type="checkbox"/>	4583063 Urban REED-INTEL #3			0	0.0	0		0
537	<input type="checkbox"/>	4583073 Urban REED-INTEL #4			0	0.0	0		0
538	<input type="checkbox"/>	4583023 Urban REED-TV HWY	419	1,241	1,935	0.2	38	6	0
539	<input checked="" type="checkbox"/>	4605013 Urban ROSEWAY 13 KV	5,908	9,640	3,614	1.6	160	7	1
540	<input type="checkbox"/>	4605033 Urban ROSEWAY-ALEXNDR	1,021	631	955	1.1	40	2	0
541	<input type="checkbox"/>	4605023 Urban ROSEWAY-ESPLANA	2,504	2,397	2,135	1.2	67	5	0
542	<input type="checkbox"/>	4645113 Urban SCHOLLS FERRY-KEMMER RD	69	300	893	0.1	20	6	2
543	<input type="checkbox"/>	4645123 Rural SCHOLLS FERRY-RAINBOW	2,054	6,106	1,236	1.7	296	43	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

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
544	<input type="checkbox"/>	4645133 Urban SCHOLLS FERRY-ROY ROGERS	546	823	1,051	0.5	47	11	1
545	<input type="checkbox"/>	4650023 Rural SCOGG-CHERRY G	747	1,558	447	1.7	209	17	0
546	<input type="checkbox"/>	4650013 Rural SCOGG-LAUREL W	164	512	1,115	0.1	28	25	0
547	<input type="checkbox"/>	4670013 Rural SIX COR-13359	949	2,721	3,039	0.3	54	23	1
548	<input type="checkbox"/>	4670023 Rural SIX COR-13360	3	12	968	0.0	1	3	1
549	<input type="checkbox"/>	4670043 Urban SIX COR-BORCHER	481	1,550	1,677	0.3	55	19	3
550	<input type="checkbox"/>	4670033 Urban SIX COR-CHAPMAN	267	949	2,912	0.1	20	12	2
551	<input type="checkbox"/>	4670053 Urban SIX CORNER-13KV	62	134	1,481	0.0	5	13	2
552	<input type="checkbox"/>	4674911 Remote SPRING HILL 4 KV			1				N/A
553	<input type="checkbox"/>	4635043 Urban ST MARY 13KV	196	300	261	0.8	69	2	0
554	<input type="checkbox"/>	4635023 Urban ST MARY-BETHANY	3	11	792	0.0	1	2	2
555	<input checked="" type="checkbox"/>	4635053 Urban ST MARY-BUTNER	2,771	8,440	2,428	1.1	209	20	0
556	<input type="checkbox"/>	4635033 Urban ST MARY-ELMONIC	331	683	2,767	0.1	15	7	1
557	<input type="checkbox"/>	4635013 Urban ST MARY-JENKINS			36				0
558	<input type="checkbox"/>	4635063 Urban ST MARY-MILLIKN	54	198	1,836	0.0	6	2	0
559	<input type="checkbox"/>	4679313 Urban SUNSET-BLANCHET			20				N/A
560	<input type="checkbox"/>	4679453 Urban SUNSET-COLFAX			29				N/A
561	<input type="checkbox"/>	4679133 Urban SUNSET-CORNELL			1				N/A
562	<input type="checkbox"/>	4679513 Urban SUNSET-D1B1			5				N/A
563	<input type="checkbox"/>	1339484 Urban SUNSET-D1X1			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

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
564	<input type="checkbox"/>	4679123 Urban SUNSET-DORION			1				N/A
565	<input type="checkbox"/>	4679253 Urban SUNSET-IDTB			1				N/A
566	<input type="checkbox"/>	4679143 Urban SUNSET-KOMATSU			5				N/A
567	<input type="checkbox"/>	4679223 Urban SUNSET-LANE			10				N/A
568	<input type="checkbox"/>	4679433 Urban SUNSET-MCCALL			46				N/A
569	<input type="checkbox"/>	4679423 Urban SUNSET-MEEK			622				N/A
570	<input type="checkbox"/>	4679213 Urban SUNSET-PAULING			153				N/A
571	<input type="checkbox"/>	4679323 Urban SUNSET-SPALDING			24				N/A
572	<input type="checkbox"/>	4679233 Urban SUNSET-WHITMAN			43				N/A
573	<input type="checkbox"/>	4679113 Urban SUNSET-YOUNG			21				N/A
574	<input checked="" type="checkbox"/>	4693023 Urban TEK 13KV	410	728	308	1.3	142	2	0
575	<input type="checkbox"/>	4693063 Urban TEK-HOCKEN	25	75	479	0.1	9	5	0
576	<input type="checkbox"/>	4693053 Urban TEK-NORTH			14				0
577	<input type="checkbox"/>	4693033 Urban TEK-SHANNON	339	1,096	1,274	0.3	52	8	0
578	<input type="checkbox"/>	4693043 Urban TEK-SOUTH	4,281	5,780	3,109	1.4	112	14	1
579	<input type="checkbox"/>	4693013 Urban TEK-WEST			18				0
580	<input type="checkbox"/>	4695053 Urban TIGARD - 13 KV	757	1,905	2,075	0.4	55	12	1
581	<input type="checkbox"/>	4695013 Urban TIGARD-13336	220	447	1,162	0.2	23	10	1
582	<input type="checkbox"/>	4695043 Urban TIGARD-13337	126	183	980	0.1	11	5	0
583	<input type="checkbox"/>	4695023 Urban TIGARD-13361	275	562	835	0.3	40	4	0
584	<input type="checkbox"/>	4695033 Urban TIGARD-13362	430	1,880	2,597	0.2	43	10	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
585	<input type="checkbox"/>	4999023 Rural TROJAN PLANT W			0	0.0	0		N/A
586	<input type="checkbox"/>	4999013 Rural TROJAN PLNT E			11				N/A
587	<input type="checkbox"/>	4697033 Urban TUALATIN 13KV			125				0
588	<input type="checkbox"/>	4697023 Urban TUALATIN-AVERY	165	412	2,134	0.1	12	6	0
589	<input type="checkbox"/>	4697063 Urban TUALATIN-CIPOLE			231				0
590	<input type="checkbox"/>	1315221 Urban TUALATIN-HERMAN			0	0.0	0		0
591	<input type="checkbox"/>	4697013 Urban TUALATIN-IBACH	1,553	1,932	1,515	1.0	77	7	1
592	<input type="checkbox"/>	4697053 Urban TUALATIN-LEVETON			40				0
593	<input type="checkbox"/>	4735013 Urban W PTLD 13KV	85	108	1,049	0.1	6	3	0
594	<input type="checkbox"/>	4735033 Urban W PTLD-72ND	29	72	800	0.0	5	3	1
595	<input type="checkbox"/>	4735043 Urban W PTLD-NORTH	158	238	2,654	0.1	5	8	0
596	<input type="checkbox"/>	4735023 Urban W PTLD-PACIFIC	339	916	2,544	0.1	22	10	0
597	<input type="checkbox"/>	4737023 Urban W UNION 13KV	865	2,697	2,577	0.3	63	18	2
598	<input checked="" type="checkbox"/>	4737013 Rural W UNION-CORNELS	6,240	8,987	2,202	2.8	245	45	3
599	<input type="checkbox"/>	4745073 Urban WILSV-BOECKMAN	133	472	1,132	0.1	25	11	0
600	<input type="checkbox"/>	4745063 Urban WILSV-CHARBNEAU	466	1,355	2,406	0.2	34	13	0
601	<input type="checkbox"/>	4745013 Urban WILSV-CITY			3,124				0
602	<input type="checkbox"/>	4745033 Urban WILSV-DAMMASCH	1	1	0	0.0	0	1	N/A
603	<input type="checkbox"/>	4745053 Urban WILSV-HOLIDAY	857	3,642	0	0.0	0	10	N/A
604	<input type="checkbox"/>	4745043 Urban WILSV-MENTORTEK			23				0
605	<input type="checkbox"/>	4745023 Urban WILSV-PARKWAY	1	1	837	0.0	0	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

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
606 <input type="checkbox"/>	4745083	Urban WILSV-VILLEBOIS	7	32	1,212	0.0	2	1	0
607 <input type="checkbox"/>	4745093	Urban WILSV-WEST	305	444	1,942	0.2	14	5	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
137,103	275,988	271,288			1,388	

Total Customer Momentary Events: 181,323

Total MAIFle Customers: 270,255

MAIFle Value:	0.67
SAIFI Value:	0.51
SAIDI Value:	61

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:	458,602	1,007,670	839,728	0.55	72	5,093	0.0

Total Customer Momentary Events: 914,401

Total MAIFle Customers: 820,626

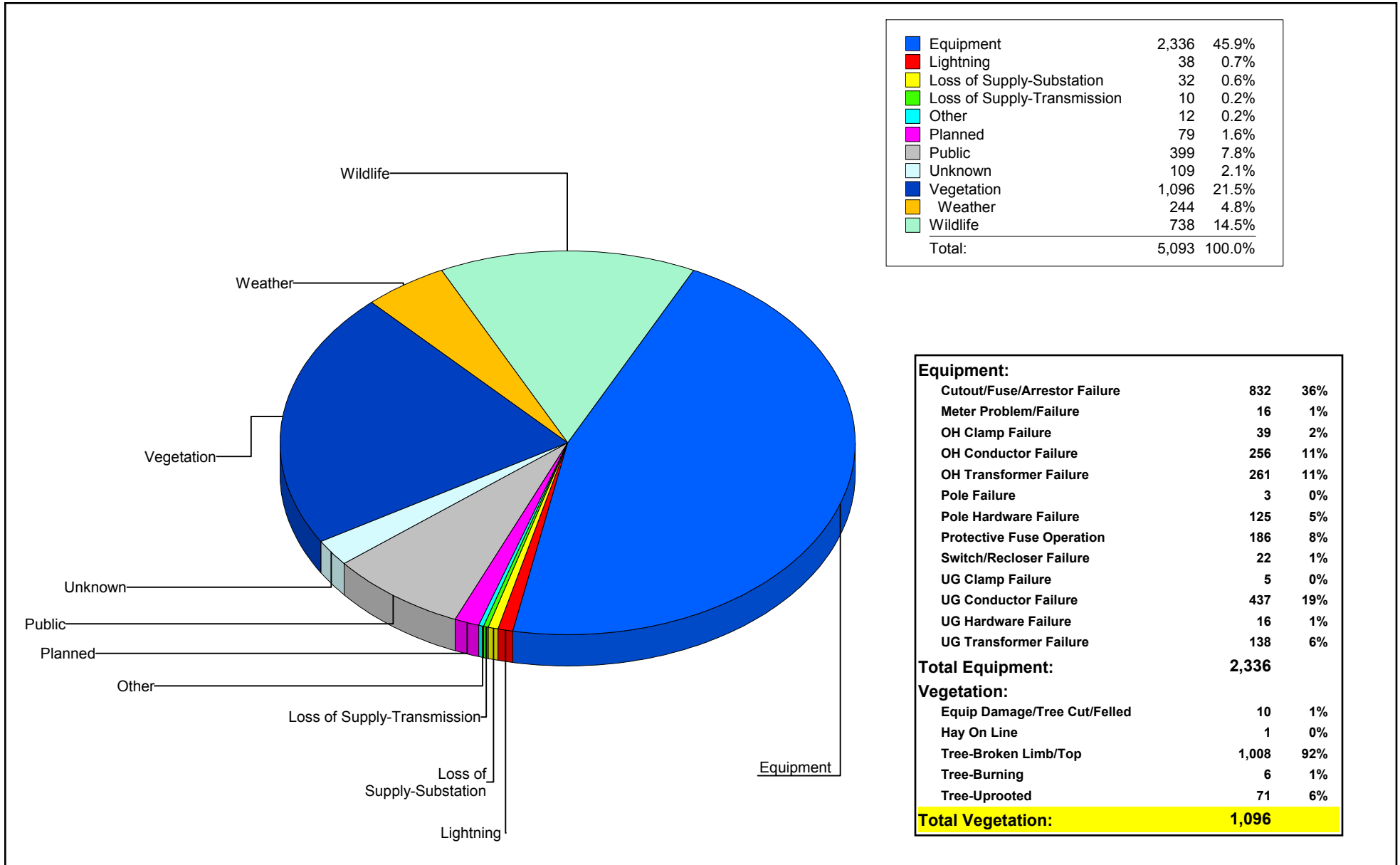
MAIFI Value: 1.11

Note: SAIDI is rounded to the nearest whole number.

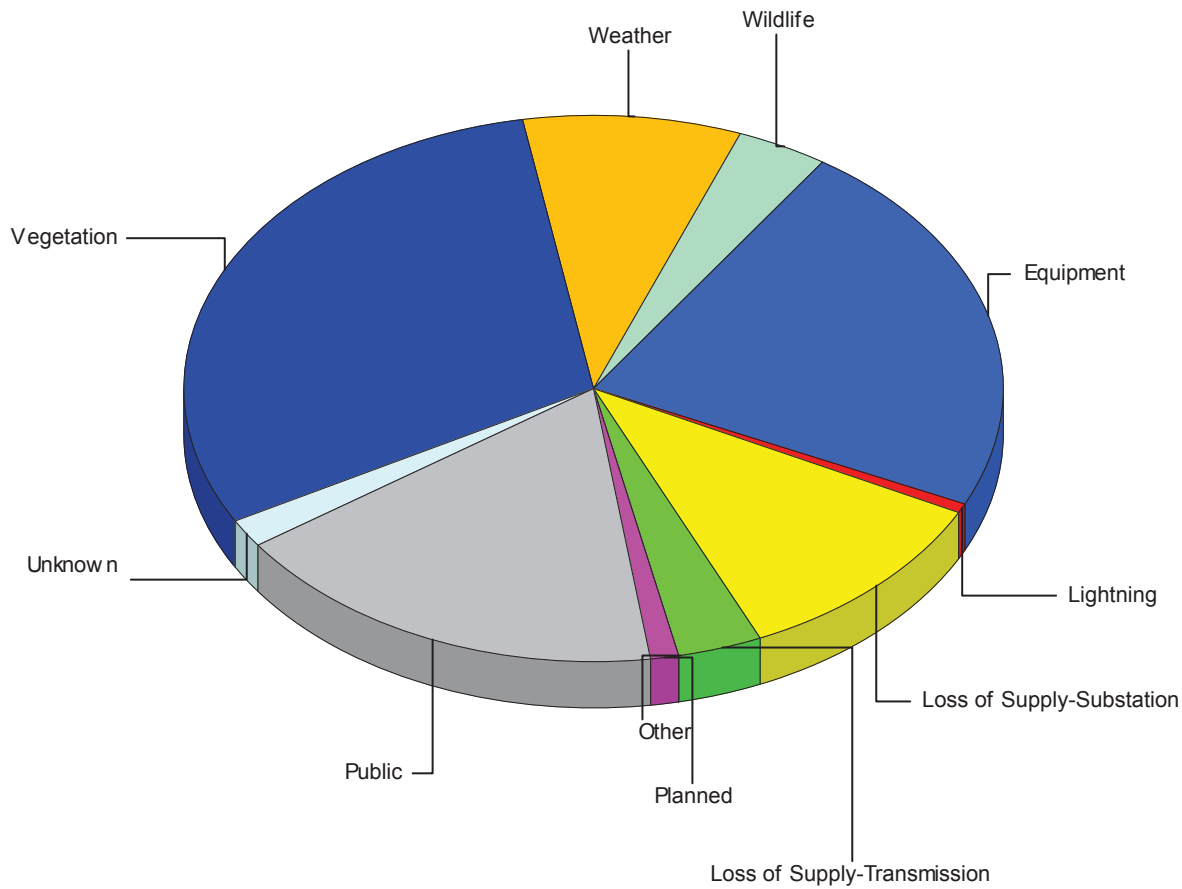
SECTION III

OUTAGE BY CAUSE SUMMARY (Charts)
For 2012

2012 Outages by Cause - Percent Customer-Outages



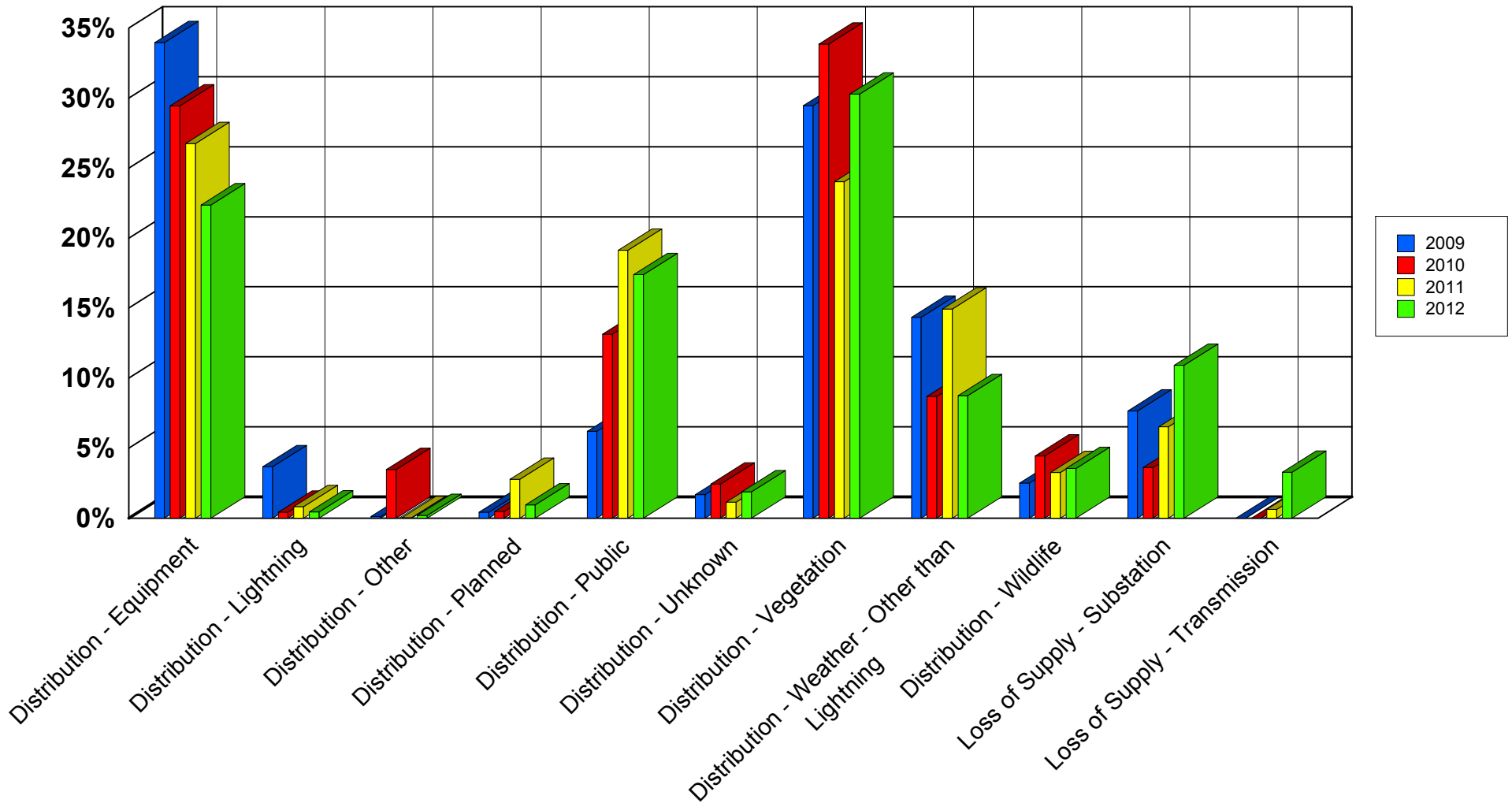
2012 Outages by Cause - Percent Customer-Hours



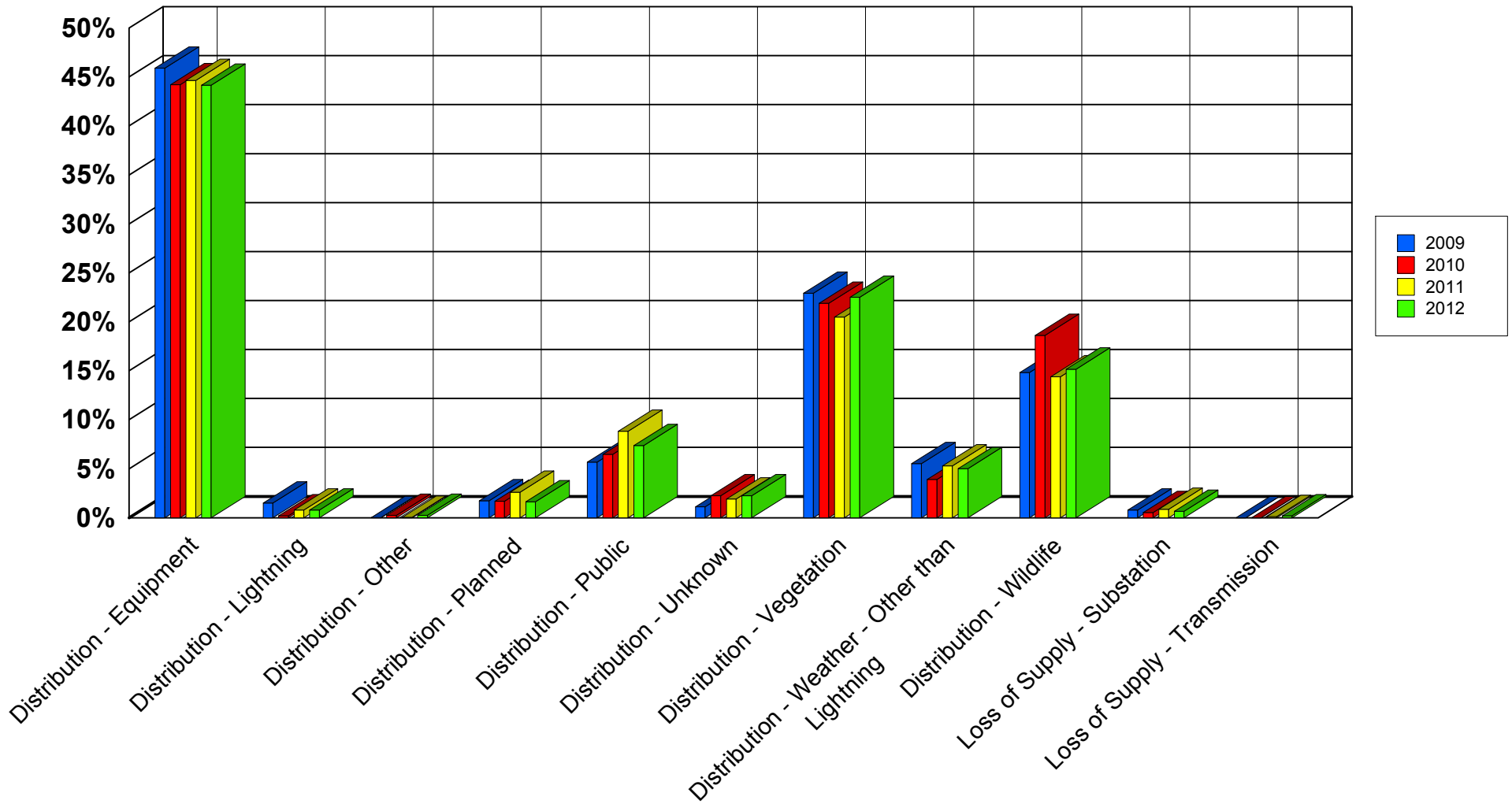
Equipment	226,984	22.5%
Lightning	4,428	0.4%
Loss of Supply-Substation	109,449	10.9%
Loss of Supply-Transmission	32,840	3.3%
Other	1,973	0.2%
Planned	9,539	0.9%
Public	176,437	17.5%
Unknown	18,904	1.9%
Vegetation	303,804	30.1%
Weather	87,787	8.7%
Wildlife	35,526	3.5%
Total:	1,007,670	100.0%

Equipment:		
Cutout/Fuse/Arrestor Failure	24,649	11%
Meter Problem/Failure	233	0%
OH Clamp Failure	6,167	3%
OH Conductor Failure	69,267	31%
OH Transformer Failure	12,408	5%
Pole Failure	173	0%
Pole Hardware Failure	15,938	7%
Protective Fuse Operation	2,331	1%
Switch/Recloser Failure	5,460	2%
UG Clamp Failure	211	0%
UG Conductor Failure	69,383	31%
UG Hardware Failure	2,426	1%
UG Transformer Failure	18,337	8%
Total Equipment:	226,984	
Vegetation:		
Equip Damage/Tree Cut/Felled	467	0%
Hay On Line	4	0%
Tree-Broken Limb/Top	272,060	90%
Tree-Burning	4,577	2%
Tree-Uprooted	26,695	9%
Total Vegetation:	303,804	

2012 Customer Outage Hours by Cause 4 Year Comparison



2012 Customer Outages by Cause 4 Year Comparison



SECTION IV

OUTAGES BY CAUSE --- NATURAL
For 2012

This section presents the number of customer outages (frequency) during 2012 and the customer hours out by feeder for each listed Natural Cause.

2012 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	5	954			1	256	1	1	3	697				
3 ABERNETHY-TRANSIT	6	154					3	129	1	1			2	24
4 ALDER CT-IRVING	2	54					2	54						
5 ALDER CT-STARK	1	11					1	11						
6 ALDER CT-YAMHILL	1	2											1	2
7 AMITY 13KV	4	71	1	4			1	18	2	49				
8 AMITY-BELLEVUE	8	1,036	1	227			4	127	3	682				
9 ARLETA-52ND ST	9	695					9	695						
10 ARLETA-FOSTER	1	9					1	9						
11 ARLETA-HAROLD	9	429					9	429						
12 ARLETA-POWELL	2	27					2	27						
13 ARLETA-STEELE	5	479					2	55	3	424				
14 B LAKE-SUNDIAL														
15 B LAKE-TOYOTNSO														
16 BANKS 13KV	5	78					4	38	1	40				
17 BANKS-CEDAR CYN	20	2,418	5	255			2	2	13	2,161				
18 BARNES-BATTLCRK														
19 BARNES-BOONE	3	887	1	755					2	132				
20 BARNES-COMMERCL	5	367					1	1	4	366				
21 BARNES-SUNNYSID														
22 BEAVER PLNT-B&P														
23 BELL-FLAVEL	1	32							1	32				
24 BELL-JOHNSEN CRK														
25 BELL-KENDALL	3	167					2	19	1	148				
26 BELL-KING	7	151					7	151						
27 BELL-SOUTHGATE														
28 BELL-WICHITA	5	3,700					2	129	2	529			1	3,042
29 BELMONT 4KV														
30 BETHANY-BURTON														
31 BETHANY-GERMANTOWN	11	2,753	2	895			1	5	7	1,794			1	59
32 BETHANY-KAISER	2	5					1	3					1	2
33 BETHANY-LAIDLAW	3	66					1	8	2	58				

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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-SPRINGVILLE	1	6					1	6						
35 BETHANY-THOMPSON														
36 BETHEL-FRUTLAND	7	401					6	395	1	6				
37 BETHEL-GEER	12	240					4	40	7	177			1	22
38 BETHEL-MCLAY	4	359	1	109					3	250				
39 BLUE LAKE 13 KV	3	67					3	67						
40 BOISE CASC WR-1														
41 BOONS-GOODALL	2	4,004							2	4,004				
42 BOONS-KRUSEWAY	3	285					3	285						
43 BOONS-LK GROVE	6	447					1	97	5	350				
44 BOONS-MT PARK														
45 BOONS-WMBLY PK	4	154	1	100			3	53						
46 BORING-282ND AV	2	60					1	1	1	59				
47 BORING-CITY	3	989			1	13	2	976						
48 BORING-TELFORD	8	504	2	207			1	1	5	295				
49 BRIGHTWD 13KV	19	2,023	6	970			1	5	12	1,048				
50 BRIGHTWD-N BANK	7	4,853	1	616					6	4,237				
51 BROOKLYN 4KV														
52 BROOKWOOD 13KV	1	1,953							1	1,953				
53 BROOKWOOD-BRWCK														
54 BROOKWOOD-SUNRS	2	51					1	1	1	51				
55 BVRTN-ALLEN	7	724			1	33	2	21	4	670				
56 BVRTN-JAMIESON	2	60					1	1	1	59				
57 BVRTN-NORTHWEST	1	17					1	17						
58 BVRTN-W SLOPE	2	78					1	37					1	41
59 CANBY-13643	8	1,390	2	1,141	1	1	1	3	4	244				
60 CANBY-13644	5	263					2	2	2	78			1	182
61 CANBY-BUTTEVLE	4	61							2	4			2	57
62 CANYON 13KV	10	674					3	314	7	360				
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

2012 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
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	1	108					1	108						
80 CANYON-23RD AVE	7	3,439							7	3,439				
81 CANYON-BURNSIDE														
82 CARVER 13 KV	2	339	2	339										
83 CARVER-ALMOND	3	1,907					2	324	1	1,583				
84 CARVER-NORTH	1	2,000							1	2,000				
85 CARVER-RIVRBEND														
86 CARVER-SOUTH														
87 CARVER-WOODS	2	17							2	17				
88 CEDAR HILLS 13KV														
89 CEDAR-LEAHY	12	727					10	494	1	220			1	13
90 CEDAR-SHOP CEN	21	2,099			2	125	6	951	12	996			1	27
91 CEDAR-SKYLINE	4	142					3	44	1	98				
92 CEDAR-ST VINCNT	1	455							1	455				
93 CEDAR-SYLVAN	3	480							3	480				
94 CLACK-EVELYN	1	15					1	15						
95 CLACK-GLADSTONE	7	303					4	162	3	142				
96 CLACK-JENNIFER	1	28					1	28						
97 CLACK-TOLBERT	3	45					3	45						
98 CLAXTAR 13KV	1	1					1	1						
99 CLAXTAR-HAYSVIL	1	48					1	48						

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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														
101 CNTNNIL 13KV	5	420	1	12			2	168	2	241				
102 CNTNNIL-BARKER	4	102	1	14	1	70	2	19						
103 CNTNNIL-BRACRFT	3	150					2	23					1	127
104 CNTNNIL-TREEAND	4	4,755					1	38	3	4,717				
105 COFFEE CREEK-FREEMAN	1	73	1	73										
106 COFFEE CREEK-HOLIDAY														
107 COLTON-DHOOGHE	18	2,277	4	622			4	13	10	1,642				
108 COLTON-GRAYS HL	17	3,173	5	186			1	46	11	2,941				
109 COLUMBIA PK 4KV														
110 CORNELIUS 13KV	9	2,594					3	46	6	2,548				
111 CORNELIUS-ADAIR	3	421					1	71	1	316			1	33
112 CORNELIUS-VRBRT	9	184					7	143	2	41				
113 CRPUD-KASTER														
114 CRPUD-SAUVIE IS														
115 CULVER 13KV														
116 CULVER-GAFFIN														
117 CULVER-SANYO #1														
118 CULVER-SANYO #2														
119 CURTIS 13KV	2	37					1	3	1	34				
120 CURTIS-11077														
121 DANA 4KV														
122 DAYTON-EAST	14	1,718					2	2	10	1,592			2	123
123 DAYTON-LAFAYETT	8	622	2	518					5	101			1	2
124 DAYTON-S AND W	6	231					2	3	4	229				
125 DELAWARE #1 4KV														
126 DELAWARE-DENVER	3	2,012	1	2,002					2	10				
127 DELAWARE-INTER	2	102					2	102						
128 DELAWARE-LOMBRD														
129 DENNY-EAST	4	297	1	141			1	15	2	140				
130 DENNY-NORTH	3	510					2	5	1	505				
131 DENNY-SOUTH	2	204							2	204				
132 DENNY-WEST	10	1,233					6	99	3	492	1	642		

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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	DILLEY-13KV	5	1,504	1	1			1	2	3	1,501				
134	DILLEY-SPRINGHL														
135	DUNNS C 13 KV	16	1,489	3	429			8	114	5	945				
136	DUNNS C-KELSO	2	866			1	839	1	28						
137	DURHAM 13KV														
138	DURHAM POOPLANT														
139	DURHAM-BONITA														
140	DURHAM-BRIDGEPORT	2	121					2	121						
141	DURHAM-SATTTLER	3	316					2	9	1	306				
142	DURHAM-SOUTH														
143	E WATER 4KV														
144	E-11021														
145	E-11039														
146	E-11040														
147	E-11041														
148	E-11042														
149	E-11043														
150	E-11047														
151	E-11064														
152	E-13139														
153	E-13140														
154	E-13141														
155	E-13144	2	35							2	35				
156	E-13145														
157	E-13148														
158	E-13149														
159	E-13150														
160	EAGLE CR-BARTON	5	459							3	444			2	15
161	EAGLE CR-RIVRML	7	614	1	25					5	214			1	375
162	EASTPORT-76TH	3	73					1	11	2	62				
163	EASTPORT-PLAZA	3	979	1	62					2	917				
164	ELMA 13KV	3	276					2	84	1	192				
165	ELMA-4 CORNERS	5	572					5	572						

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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	ELMA-HUDSON	3	94					3	94						
167	ELMA-STATE 13KV														
168	ESTACADA 13KV	8	527					1	1	7	526				
169	ESTACADA-FARADY	42	8,021	7	5,148			5	72	28	2,240			2	562
170	FAIRMT-CNDLARIA	4	119					3	106	1	13				
171	FAIRMT-MISSION	10	5,764	3	2,512			1	3	6	3,249				
172	FAIRVIEW 13 KV	1	37											1	37
173	FAIRVIEW-CLRCK														
174	FAIRVIEW-K CLUB	6	3,028	1	825	1	2	1	27	3	2,174				
175	FAIRVIEW-TROUTD	4	30					3	3					1	27
176	FAIRVIEW-W VILL	2	1,466							2	1,466				
177	FARGO 13KV	11	1,632					4	9	6	1,583			1	40
178	FORESTEX 4 KV	1	2					1	2						
179	G HOME-MCKAY	5	462			2	125			1	4			2	333
180	G HOME-METZGER	10	4,641	2	64			3	2,097	5	2,481				
181	GALES CRK 13KV	30	6,042	2	18			5	3,094	19	1,310			4	1,620
182	GLENCOE-GLISAN	8	1,610					6	138	2	1,472				
183	GLENCOE-PROVID	1	24					1	24						
184	GLENCOE-SUNNY	1	8					1	8						
185	GLISAN-FAB 2A														
186	GLISAN-UTIL 1B														
187	GLNCLN-BRIDLMIL	20	1,575					10	324	10	1,252				
188	GLNCLN-SUNSET	5	205					2	156	3	49				
189	GLNDOVEER-13596	4	242					1	21	1	103			2	117
190	GLNDOVEER-13597	2	107					1	1	1	107				
191	GLNDOVEER-13598	4	100					3	76	1	24				
192	GLNDOVEER-13599	4	70					2	44	1	3	1	23		
193	GLNDOVEER-CLFGT	3	66					3	66						
194	GLNDOVEER-NEAST	1	58							1	58				
195	GRAND AV 4KV														
196	GRND RND-AGENCY	4	679	2	350					2	329				
197	GRND RND-FORTHLL	11	1,489	2	188					7	736			2	566
198	HABRTN-BURLINTN	33	4,987					7	165	22	4,796			4	26

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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
199 HABRTN-LINNTON	4	427							4	427				
200 HARBORTON 13KV														
201 HARMONY 13KV														
202 HARMONY-INTERNATIONAL														
203 HARMONY-LAKE														
204 HARMONY-LINNWOD	4	3,063					3	19	1	3,044				
205 HARMONY-MILWAKI	11	4,099	1	129			5	258	5	3,712				
206 HARMONY-THIESEN	1	32					1	32						
207 HARRISON 13KV	1	1					1	1						
208 HARRISON-DAVIS														
209 HARRISON-IVON	6	563	1	492			5	71						
210 HAWTHORNE 4KV														
211 HEMLOCK 13KV	1	5			1	5								
212 HEMLOCK-FREMONT														
213 HEMLOCK-MASON														
214 HILLCREST 13KV														
215 HILLCREST-CASCADIA														
216 HILLCREST-REED	2	239							2	239				
217 HILLCREST-SOUTH														
218 HILLS-DAIRY CREEK	8	3,958	2	640			5	237	1	3,080				
219 HILLS-DENNIS														
220 HILLS-JACKSON	14	5,494					3	74	11	5,420				
221 HILLS-LAUREL	21	1,573	1	2	1	2	6	216	13	1,354				
222 HILLS-SCHOLLS	1	296					1	296						
223 HOGAN N 13KV	6	1,201					1	1	5	1,200				
224 HOGAN N-BRGDOON														
225 HOGAN N-LINKS	17	6,376	8	772			1	1	8	5,603				
226 HOGAN N-SLQUIST	3	2,905					1	2	2	2,903				
227 HOGAN S-CLEVLND	2	200			1	199	1	1						
228 HOGAN S-LAWRNCE	5	12,725	1	76					4	12,649				
229 HOGAN S-MAIN	2	129					2	129						
230 HOGAN S-PAROPA	3	77					2	42	1	35				
231 HOGAN S-WALLULA	2	245	2	245										

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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	HOLGATE 13KV													
233	HOLGATE-BYBEE	4	65				4	65						
234	HOLGATE-GIDEON	1	74				1	74						
235	HOLGATE-KENLWOR													
236	HOLGATE-RHONE	3	70				3	70						
237	HUBER 13KV	4	82				3	66	1	16				
238	HUBER-BANY													
239	HUBER-FRMINGTON	3	51				2	3					1	48
240	HUBER-KINNAMON	9	1,037				7	94	2	943				
241	HUBER-MARYVILLE	5	571				1	6	3	250			1	315
242	HUGHES-ORC HTS	3	1,839						1	1,614			2	225
243	HYDN IS-MALAND	1	305						1	305				
244	HYDN IS-N SHORE	1	679						1	679				
245	HYDN IS-S SHORE													
246	INDIAN-KEIZER	3	66				2	8	1	58				
247	INDIAN-LABISH	3	8				1	1	2	7				
248	INDIAN-NORTH	2	270				1	3	1	267				
249	INDIAN-STATION	1	3				1	3						
250	INDIAN-WEST	3	147				2	3	1	145				
251	ISLAND 13KV	2	8,776				1	7	1	8,769				
252	ISLAND-13180	3	228				1	10	2	218				
253	ISLAND-13187	10	1,221				6	670	3	408			1	143
254	ISLAND-13188	5	92						5	92				
255	JEN LDG 13KV	7	323				2	33	4	203			1	88
256	JEN LDG-MELDRUM	10	242				3	7	5	57			2	178
257	JEN LDG-O GROVE	5	2,188				2	194	3	1,994				
258	JEN LDG-WEBSTER	5	3,516				2	192	3	3,324				
259	KELLEY POINT-LEDBETTER													
260	KELLEY POINT-SOLAR1													
261	KELLEY POINT-SOLAR2													
262	KELLEY PT 13 KV													
263	KING CTY-BULL MT	1	16										1	16
264	KING CTY-FISCHER	4	2,105				3	35	1	2,070				

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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2012 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 KING CTY-HAZEL B														
266 KING CTY-NORTH	1	55							1	55				
267 KING CTY-SUMERFL														
268 KLY BU-BINNSMED	5	1,467					2	94					3	1,373
269 KLY BU-FAIRLAWN														
270 KLY BU-MALL 205	7	277					6	100					1	177
271 KLY BU-MC GREW	4	63					2	24	2	39				
272 KLY PT-MARINEDR														
273 KLY PT-SIMMONS														
274 LAKE LABISH 4KV														
275 LAURELHURST 4KV														
276 LELAND-BEAVERC	11	1,200					3	7	7	1,192			1	2
277 LELAND-CARUS	44	25,666	6	18,758			5	57	31	3,864			2	2,987
278 LELAND-KELM	2	2,726							2	2,726				
279 LENTS-13101	8	482					7	368	1	114				
280 LENTS-HAPPY VAL	3	7							3	7				
281 LENTS-MT SCOTT	1	1					1	1						
282 LENTS-NORTH	2	224					2	224						
283 LIB-BROWNING	1	7					1	7						
284 LIB-LONE OAK	4	3,158	1	3,006			3	153						
285 LIB-MORNINGSIDE	10	562	1	316			8	189	1	58				
286 LIB-ROSEDALE	9	5,275					1	1	8	5,273				
287 LIB-VISTA	2	51					1	17	1	34				
288 LIBERAL 13KV	9	440	2	248	2	3	1	1	4	189				
289 LIBERAL-SAWMILL														
290 LIBERTY-SKYLINE	12	2,126	2	1,351			5	253	5	522				
291 MAIN-AIRPORT	1	57					1	57						
292 MAIN-BENTLEY	2	8					1	4	1	5				
293 MAIN-EXPRESS	4	826					2	50	1	739			1	37
294 MAIN-GRIFFIN														
295 MAIN-JFS1														
296 MAIN-JONES FARM														
297 MAIN-RVR RD	3	100					2	49	1	51				

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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	MAXIM 13KV													
299	MC CL-COTTAGE	2	31					2	31					
300	MC CL-FRONT ST	2	93					2	93					
301	MC CL-HOLLYWOOD	2	85	1	73			1	12					
302	MCGILL-LSIAIR1A													
303	MCMINNVILLE W AND L													
304	MERIDIAN 13KV	5	315					1	4	4	311			
305	MERIDIAN-65TH													
306	MERIDIAN-BORLND	5	65					3	40	2	25			
307	MERIDIAN-CHILDS	1	8					1	8					
308	MERIDIAN-LAKEVIEW	2	16					1	13				1	3
309	MERIDIAN-NYBERG													
310	MERIDIAN-PLKNGTN	3	145					2	125				1	19
311	MERIDIAN-SAGERT	1	1					1	1					
312	MIDGROVE-BROWN	2	44					2	44					
313	MIDGROVE-CHEMEK	1	56										1	56
314	MIDGROVE-CORDON	4	64							3	62		1	2
315	MIDGROVE-SWEGLE	1	12					1	12					
316	MIDGROVE-WEST	2	186					1	16				1	169
317	MIDWAY-DIVISION	5	673					3	16	2	657			
318	MIDWAY-DOUGLAS	2	18					2	18					
319	MIDWAY-LYNCH	9	322			2	135	5	160	1	9		1	17
320	MIDWAY-POWELHST	2	126					1	41	1	85			
321	MILL CREEK 13KV													
322	MILL CREEK-EASTLAND	7	1,158	1	365			1	2	5	791			
323	MILL CREEK-KUEBLER													
324	MOLALLA-BUCKAROO	3	6					3	6					
325	MOLALLA-FOREST	19	552	3	352			2	4	14	195			
326	MOLALLA-MARQUAM	27	3,220	4	100	2	69	1	3	19	2,841		1	206
327	MOLALLA-YODER	2	33					1	13	1	20			
328	MRKT ST-ENGLEWD	7	779					4	16	3	763			
329	MRKT ST-FAIRGND	8	158					6	124				2	33
330	MRKT ST-HAWTHNE	1	39					1	39					

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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 MRKT ST-PARK	4	184					2	60	2	124				
332 MT ANGEL-EAST	3	9	1	3					2	7				
333 MT ANGEL-WEST	2	5							2	5				
334 MT PLS-CLAIRMONT	3	195					2	144	1	51				
335 MT PLS-MT VIEW	1	156							1	156				
336 MT PLS-RIVRCRST	3	445					1	1	2	444				
337 MT PLS-SOUTHEND	5	123					2	32	3	90				
338 MULINO-NORTH	2	32					2	32						
339 MULINO-SOUTH	16	3,029	4	1,128			4	46	6	1,821			2	34
340 MULTNOMAH 13KV	1	209					1	209						
341 MULTNOMAH-13176	7	1,755	1	120			5	262	1	1,373				
342 MULTNOMAH-13177	3	312					3	312						
343 MULTNOMAH-13181	5	240					3	198	2	42				
344 MURRAYHILL 13KV	1	7,097							1	7,097				
345 MURRAYHL-KINTON	2	7					1	2	1	5				
346 MURRAYHL-QUARRY														
347 MURRAYHL-REUSER	1	26											1	26
348 MURRAYHL-TEAL	2	457							1	433	1	24		
349 N MARION FRONT														
350 N MARION-CROSBY	4	1,266					3	355					1	911
351 N MARION-HUBBRD	1	88							1	88				
352 N MARION-MCLARN	8	145	1	70			4	6	3	70				
353 N PLAINS 13KV	14	3,617	3	3,346			1	1	8	265			2	5
354 N PLAINS-M HILL	18	1,664	6	471					11	1,109			1	84
355 NEWBERG-CHEHALM	8	926	2	7					5	874			1	46
356 NEWBERG-COLLEGE	1	3,781									1	3,781		
357 NEWBERG-DUNDEE	9	1,674	3	1,227					5	237			1	210
358 NEWBERG-HOOVR PK	3	179	3	179										
359 NORTHERN-11009	2	43					2	43						
360 NORTHERN-11016	1	14					1	14						
361 NORTHERN-11071	2	44					2	44						
362 OAK HILLS 13KV	6	736					3	500	3	236				
363 OAK HILLS-5 OAK														

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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 OAK HILLS-BRIER														
365 OAK HILLS-SMRST	1	280							1	280				
366 OAK HILLS-WLKRD														
367 OCKLEY GRN 4KV														
368 OK GRV-LK HARRT	4	2,735	2	2,699			1	2	1	34				
369 OK GRV-WT WATER	2	355	2	355										
370 OREGON STEEL 13														
371 ORENCO 13KV														
372 ORENCO PRIMATE	1	1							1	1				
373 ORENCO-231ST														
374 ORENCO-AMBRGLEN														
375 ORENCO-BASELINE	4	1,574			1	62	3	1,512						
376 ORENCO-WILKINS														
377 ORIENT 13KV	22	6,247	7	5,777			2	11	13	459				
378 ORIENT-BARLOW	16	3,611	2	403	1	431	4	250	9	2,528				
379 OSWEGO-IRON MTN	6	550					2	12	3	522			1	17
380 OSWEGO-MARYLHST	5	5,121	2	4,939			1	3	2	179				
381 OSWEGO-PALATINE	6	770	1	8					5	762				
382 OSWEGO-STAFFORD	4	111					4	111						
383 OXFORD 13KV	2	74					2	74						
384 OXFORD-FAIRVIEW	1	22					1	22						
385 OXFORD-LEE	1	21					1	21						
386 OXFORD-MADRONA	1	26	1	26										
387 OXFORD-RURAL														
388 OXFORD-SHELTON														
389 PELTON-ROUND BUTTE														
390 PENIN PARK 4KV														
391 PLSNT VALY 13KV	4	283	1	5					3	279				
392 PLSNT VALY-BXTR	8	626	1	7					7	620				
393 PLSNT VALY-MOON	1	3					1	3						
394 PLSNT VALY-SUN	15	1,761	1	1			6	42	8	1,718				
395 PORTLAND GRD W PUMPING														
396 PORTSMTH-CARB	1	3					1	3						

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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 PORTSMTH-DISP														
398 PORTSMTH-WILL	1	136							1	136				
399 PRGRS-GREENBURG	1	9					1	9						
400 PRGRS-HALL														
401 PRGRS-ROBINSON	1	101					1	101						
402 PRGRS-SAWYER	4	1,281	1	1,275					3	6				
403 PRGRS-WSH SQ #1														
404 PRGRS-WSH SQ #2														
405 RAL H-DOGWOOD	10	199					6	141	3	38			1	20
406 RAL H-MONTCLAIR	5	389	1	182			1	4	2	102			1	101
407 RAL H-OLESON RD	5	87	1	46			4	42						
408 RAMAPO 13KV	9	948					2	179	7	768				
409 RAMAPO-GILBERT	7	277					7	277						
410 REDLAND 13KV	30	5,522	1	452			6	68	22	4,910			1	92
411 REDLAND-HENRICI	25	2,851					4	7	18	2,787			3	57
412 REED-BLANTON	2	287					2	287						
413 REED-HAZELDALE	7	565	1	62			1	1	3	215			2	287
414 REED-INTEL #1														
415 REED-INTEL #2														
416 REED-INTEL #3														
417 REED-INTEL #4														
418 REED-TV HWY	1	9					1	9						
419 ROCKWD 13KV	4	51					1	24	3	27				
420 ROCKWD-AIRPT WY														
421 ROCKWD-BOEING														
422 ROCKWD-INDUSTR														
423 ROCKWD-REYNOLDS														
424 ROCKWD-WILKES														
425 ROSEWAY 13 KV	4	67					4	67						
426 ROSEWAY-ALEXNDR	1	2					1	2						
427 ROSEWAY-ESPLANA														
428 ROUND BUTTE SPILLWAY														
429 RUBY-13502	1	8					1	8						

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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 RUBY-13503	1	17					1	17						
431 RVRGATE-11010														
432 RVRGATE-11011	6	29					6	29						
433 RVRGATE-PEARCY														
434 RVRGATE-SWIFT														
435 RVRVIW-FULTON	3	4,561					1	1	2	4,560				
436 RVRVIW-MACADAM														
437 RVRVIW-TWILLIGR	5	426					1	12	3	361			1	54
438 SALEM-13260														
439 SALEM-13261														
440 SALEM-13262														
441 SALEM-13263														
442 SALEM-13264														
443 SALEM-UNION														
444 SANDY 13KV	30	3,143	11	1,975			3	37	15	1,101			1	30
445 SANDY-362ND	7	551			1	4	3	8	3	539				
446 SANDY-BLUFF	4	254					2	130	1	90			1	34
447 SANDY-WILDCAT	27	36,420	13	676	3	849	3	11	8	34,884				
448 SCHNITZER 11KV														
449 SCHOLLS FERRY-KEMMER RD	2	11					1	8	1	3				
450 SCHOLLS FERRY-RAINBOW	20	5,616	4	4,061	1	139	2	55	13	1,361				
451 SCHOLLS FERRY-ROY ROGERS	4	205					2	187	2	18				
452 SCOGG-CHERRY G	11	1,517	1	324			5	172	5	1,021				
453 SCOGG-LAUREL W	10	167	2	26			3	19	4	119			1	4
454 SCOTTMILL 13KV	38	6,409	5	603			4	6	25	5,305	1	41	3	455
455 SELLWD 13KV	6	207					3	115	3	92				
456 SELLWD-KELOG PK	1	5					1	5						
457 SELLWD-WAVERLY	5	5,264					2	26	3	5,238				
458 SHERIDAN EAST	2	3					1	1	1	2				
459 SHERIDAN-KADELL	8	1,911	1	111			1	4	5	1,641			1	154
460 SILVERTON-NORTH	5	111					5	111						
461 SILVERTON-SOUTH	14	2,701	3	340			1	3	10	2,358				
462 SILVERTON-WEST	19	1,529	3	382			3	28	12	1,118			1	1

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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
463 SIX COR-13359	14	2,689	1	695			6	56	7	1,938				
464 SIX COR-13360	3	12			3	12								
465 SIX COR-BORCHER	9	347	1	185			2	11	6	150				
466 SIX COR-CHAPMAN	6	225					2	3	3	154	1	67		
467 SIX CORNER-13KV	4	46					4	46						
468 SMURFIT-NEWBERG														
469 SMURFIT-OC 13KV														
470 SPRING HILL 4 KV														
471 SPRINGBK-FERNWD	2	189							2	189				
472 SPRINGBK-STPAUL	9	837					1	2	8	835				
473 SPRINGBK-VILLA														
474 SPRINGBK-ZIMRI	5	498							4	473			1	25
475 ST LOUIS-EAST														
476 ST LOUIS-NORTH	2	305	2	305										
477 ST LOUIS-WEST	13	80	3	15			2	7	8	59				
478 ST MARY 13KV	1	299											1	299
479 ST MARY-BETHANY														
480 ST MARY-BUTNER	10	504	1	197	2	104	3	39	3	131			1	32
481 ST MARY-ELMONIC	1	205					1	205						
482 ST MARY-JENKINS														
483 ST MARY-MILLIKN														
484 STEPHN-11001														
485 STEPHN-11020														
486 STEPHN-11054														
487 STEPHN-11055														
488 STEPHN-11092														
489 STEPHN-11093														
490 STEPHN-11094														
491 STEPHN-11095														
492 STEPHN-11097														
493 STEPHN-11098														
494 STEPHN-11099														
495 SULL-ROBINWOOD	9	236					6	125	2	54			1	57

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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
496 SULL-SALAMO	5	369					1	28	4	341				
497 SULL-SUSSEX	7	682	1	73					5	299			1	310
498 SULL-WILLAMETTE	12	3,987					5	268	7	3,720				
499 SULLIVAN-TANNER	2	108					1	15	1	94				
500 SULZER 115A														
501 SULZER 115B														
502 SULZER BINGHAM														
503 SUMMIT-GOVT CAMP														
504 SUMMIT-MEADOWS	2	9	1	7					1	2				
505 SUMMIT-SUMMIT	3	63	1	6					2	57				
506 SUNSET-BLANCHET														
507 SUNSET-COLFAX														
508 SUNSET-CORNELL														
509 SUNSET-D1B1														
510 SUNSET-D1X1														
511 SUNSET-DORION														
512 SUNSET-IDTB														
513 SUNSET-KOMATSU														
514 SUNSET-LANE														
515 SUNSET-MCCALL														
516 SUNSET-MEEK														
517 SUNSET-PAULING														
518 SUNSET-SPALDING														
519 SUNSET-WHITMAN														
520 SUNSET-YOUNG														
521 SWAN IS-BASIN														
522 SWAN IS-DOLPHIN														
523 SWAN IS-FREIGHTLINER														
524 SWAN IS-GOING	2	47							1	2			1	46
525 SWAN IS-SHIPYRD														
526 SYLVAN-BARNES	9	1,078					1	1	8	1,077				
527 SYLVAN-PATTON	9	4,626	1	8			5	560	3	4,057				
528 TABOR 13KV	2	165					2	165						

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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 TABOR-82ND AV	1	27					1	27						
530 TABOR-HOSPITAL														
531 TEK 13KV														
532 TEK-HOCKEN														
533 TEK-NORTH														
534 TEK-SHANNON	5	526					2	33	3	493				
535 TEK-SOUTH	2	198							2	198				
536 TEK-WEST														
537 TEMP-NORTH														
538 TEMP-SOUTH														
539 TIGARD - 13 KV	3	310			1	96	2	214						
540 TIGARD-13336	2	336					1	328					1	8
541 TIGARD-13337	2	152					1	1	1	152				
542 TIGARD-13361	4	562					2	108	2	454				
543 TIGARD-13362	4	17					3	7	1	10				
544 TNCTR-LAWNFIELD														
545 TNCTR-MONTEREY	1	55					1	55						
546 TNCTR-NORTH 13KV														
547 TNCTR-PRECISION														
548 TNCTR-SOUTH 13KV														
549 TNCTR-SUNNYBROOK														
550 TNCTR-VALLEY VW														
551 TROJAN PLANT W														
552 TROJAN PLNT E														
553 TUALATIN 13KV														
554 TUALATIN-AVERY	1	2					1	2						
555 TUALATIN-CIPOLE														
556 TUALATIN-HERMAN														
557 TUALATIN-IBACH	4	1,917					3	73	1	1,844				
558 TUALATIN-LEVETON														
559 TURNER 13KV	5	988					1	1	4	987				
560 TURNER-CASCADE	3	673							3	673				
561 TWILIGHT-BREMER	12	222	1	1			3	3	6	162			2	56

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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 UNIONVALE 13KV	23	2,243	7	1,718	3	6	1	5	12	514				
563 UNIVRSITY-MILL	1	18					1	18						
564 UNIVRSITY-TRADE	5	75					4	69	1	7				
565 URBAN-BARBUR	2	21					2	21						
566 URBAN-CAMPUS														
567 URBAN-CORBETT	2	45					2	45						
568 URBAN-GAINES	4	7,222							4	7,222				
569 URBAN-GIBBS	3	1,689					2	15					1	1,674
570 URBAN-KELLY														
571 URBAN-LANDING														
572 URBAN-MEDICAL														
573 URBAN-OHSU														
574 W PTLD 13KV	2	90							2	90				
575 W PTLD-72ND														
576 W PTLD-NORTH	4	102					4	102						
577 W PTLD-PACIFIC	4	332					1	110	2	121			1	101
578 W UNION 13KV	2	4					2	4						
579 W UNION-CORNELS	23	3,624	2	241			5	69	16	3,315				
580 WACKER														
581 WACONDA 13KV	1	11	1	11										
582 WACONDA-NORPAC														
583 WACONDA-RIVER RD	5	231	1	133					3	95			1	3
584 WALLACE RD 13KV	10	352	1	1			2	202	7	149				
585 WELCHES 13KV	18	4,143	2	98			3	95	13	3,950				
586 WELCHES-ZIG ZAG	37	10,799	8	4,520	1	849	3	59	25	5,371				
587 WEST LINN PAPER														
588 WILLAMINA-BRIDGE	6	1,417					1	95	4	1,244			1	79
589 WILLAMINA-BUELL	4	487	2	164					2	323				
590 WILLAMINA-LUMBER	1	51							1	51				
591 WILLBRDG #1														
592 WILLBRDG #4														
593 WILSV-BOECKMAN	3	101	1	35					2	66				
594 WILSV-CHARBNEAU	4	51					2	6	2	45				

Total Nat = Total Natural Caused Outages
Outs = Outages

Hrs - # of customers * duration hrs

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

2012 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
595 WILSV-CITY														
596 WILSV-DAMMASCH														
597 WILSV-HOLIDAY	7	3,590	2	1,646			1	19	4	1,926				
598 WILSV-MENTORTEK														
599 WILSV-PARKWAY	1	1			1	1								
600 WILSV-VILLEBOIS														
601 WILSV-WEST	1	252							1	252				
602 WOODBURN-CANNERY	4	232					4	232						
603 WOODBURN-EAST	1	2					1	2						
604 WOODBURN-TOMLIN	1	3					1	3						
605 WOODBURN-WEST	3	149					1	125	2	23				
606 YAMHILL 13KV	11	1,371					3	26	6	1,343			2	2
607 YAMHILL-CARLTON	13	7,466	1	66			1	6	10	7,369			1	25
Grand Totals:	2,202	444,749	236	87,140	38	4,428	723	30,473	1,090	299,227	6	4,577	109	18,904

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
For 2012

This section presents the number of customer outages (frequency) during 2012 and the customer hours out by feeder for each listed System Cause.

2012 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
1 ABERN-CLACK HTS																
2 ABERN-ORE CITY	9	228	6	42	1	1					1	157	2	30		
3 ABERNETHY-TRANSIT	8	140	3	95	5	45							1	15		
4 ALDER CT-IRVING	3	184	1	8	2	176										
5 ALDER CT-STARK	10	361	8	338	1	23							1	1		
6 ALDER CT-YAMHILL																
7 AMITY 13KV	11	251	5	106	3	18							4	277	1	1
8 AMITY-BELLEVUE	14	151	2	14	10	133							2	3		
9 ARLETA-52ND ST	7	87	5	28	2	59										
10 ARLETA-FOSTER	2	165			1	10							1	155		
11 ARLETA-HAROLD	6	354	1	21	3	158							2	25	1	151
12 ARLETA-POWELL	7	398	5	211	2	188										
13 ARLETA-STEELE	1	15	1	15												
14 B LAKE-SUNDIAL	3	25	1	19	2	6							1	129		
15 B LAKE-TOYOTNSO																
16 BANKS 13KV	9	480	4	468	4	9							1	3		
17 BANKS-CEDAR CYN	6	2,451	1	74	4	16							1	2,361		
18 BARNES-BATTLCRK	1	154	1	154												
19 BARNES-BOONE	2	12	2	12									1	1		
20 BARNES-COMMERCL	3	89											4	91		
21 BARNES-SUNNYSID	8	1,337	6	1,062	1	39							1	237		
22 BEAVER PLNT-B&P																
23 BELL-FLAVEL	1	33	1	33												
24 BELL-JOHNSEN CRK																
25 BELL-KENDALL	2	4	1	3									1	2		
26 BELL-KING	2	71	1	61	1	10							1	53		
27 BELL-SOUTHGATE	4	419	3	410	1	9										
28 BELL-WICHITA	2	231	2	231									1	4		
29 BELMONT 4KV																
30 BETHANY-BURTON	1	83	1	83												
31 BETHANY-GERMANTOWN	4	5,642	1	3	1	12							2	5,626		
32 BETHANY-KAISER	3	665	3	665												
33 BETHANY-LAIDLAW	3	231	1	228	1	1							2	10		
34 BETHANY-SPRINGVILLE	2	2,556			1	2							1	2,554		
35 BETHANY-THOMPSON	1	5											1	5		

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

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2012 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
36 BETHEL-FRUTLAND	2	16	1	4									2	12	1	11
37 BETHEL-GEER	8	86	4	21	3	2							2	63		
38 BETHEL-MCLAY	2	269	1	262									1	7		
39 BLUE LAKE 13 KV	3	49	1	5									2	44		
40 BOISE CASC WR-1																
41 BOONS-GOODALL	2	156	1	51									1	106		
42 BOONS-KRUSEWAY	4	208	3	171	1	37										
43 BOONS-LK GROVE	5	261	2	198	3	63										
44 BOONS-MT PARK	4	587	4	587												
45 BOONS-WMBLY PK	5	1,827	4	1,825	1	1							1	18		
46 BORING-282ND AV	14	336	11	328	2	4							1	5		
47 BORING-CITY	5	321	1	13	4	308										
48 BORING-TELFORD	10	882	6	503	3	9							1	369		
49 BRIGHTWD 13KV	5	3,240	4	3,238	1	2	1	2,121					1	14		
50 BRIGHTWD-N BANK	11	2,311	6	2,227	2	81	1	1,677					3	1,208	1	1
51 BROOKLYN 4KV																
52 BROOKWOOD 13KV	1	4	1	4												
53 BROOKWOOD-BRWCK	1	133	1	133												
54 BROOKWOOD-SUNRS	3	64	3	64												
55 BVRTN-ALLEN	11	1,531	4	245	6	248							1	1,038		
56 BVRTN-JAMIESON	5	274	5	274									1	1		
57 BVRTN-NORTHWEST	11	908	4	647	3	6							4	256		
58 BVRTN-W SLOPE	4	555	2	483	2	72										
59 CANBY-13643	10	297	4	147	5	8									1	142
60 CANBY-13644	5	11	2	6	3	5										
61 CANBY-BUTTEVLE	4	10			3	6							5	39		
62 CANYON 13KV	7	273	3	140	4	132										
63 CANYON-13114																
64 CANYON-13115																
65 CANYON-13116																
66 CANYON-13117																
67 CANYON-13118PSU																
68 CANYON-13119PSU																
69 CANYON-13120	1	220											1	220		
70 CANYON-13121																

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2012 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
71 CANYON-13122													
72 CANYON-13123													
73 CANYON-13124													
74 CANYON-13125													
75 CANYON-13133													
76 CANYON-13134	1	1	1	1									
77 CANYON-13135													
78 CANYON-13136													
79 CANYON-21ST AVE	3	126	1	6	1	74				1	46		
80 CANYON-23RD AVE	3	33			3	33				1	34		
81 CANYON-BURNSIDE	4	267			3	158						1	109
82 CARVER 13 KV	15	4,241	9	4,028	4	206	1	1,064		3	92		
83 CARVER-ALMOND	1	1,082	1	1,082			1	1,082					
84 CARVER-NORTH	1	5,054	1	5,054			1	5,054					
85 CARVER-RIVRBEND	1	45	1	45			1	45					
86 CARVER-SOUTH	3	5,371	3	5,371			1	403					
87 CARVER-WOODS	8	14,670	6	14,581			1	14,248		4	20	1	87
88 CEDAR HILLS 13KV													
89 CEDAR-LEAHY	7	522	5	489	2	32							
90 CEDAR-SHOP CEN	14	2,862	10	2,815	4	46				1	0		
91 CEDAR-SKYLINE	3	269	3	269									
92 CEDAR-ST VINCNT													
93 CEDAR-SYLVAN	9	2,315	6	2,306	3	8							
94 CLACK-EVELYN	1	1			1	1				1	19		
95 CLACK-GLADSTONE	7	258	4	182	3	75							
96 CLACK-JENNIFER	2	24	2	24									
97 CLACK-TOLBERT	5	434	2	206	1	1				3	309		
98 CLAXTAR 13KV	4	745	2	601	1	28						1	116
99 CLAXTAR-HAYSVIL	4	1,260	1	813	1	14						2	434
100 CLAXTAR-RIDGE	1	11	1	11									
101 CNTNNIL 13KV	13	11,576	7	11,250	2	87	1	10,785		5	160	2	84
102 CNTNNIL-BARKER	7	11,202	5	11,060	1	1	1	10,532		1	142		
103 CNTNNIL-BRACRFT	2	89	1	87	1	2							
104 CNTNNIL-TREEAND	7	370	5	118	1	244				1	7		
105 COFFEE CREEK-FREEMAN										1	1		

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2012 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	2			1	2										
107 COLTON-DHOOGHE	8	259	2	28	3	27						1	202	2	3	
108 COLTON-GRAYS HL	10	72	4	23	4	35						2	9	1	7	
109 COLUMBIA PK 4KV												1	4,717			
110 CORNELIUS 13KV	14	1,451	6	1,275	6	32						3	147			
111 CORNELIUS-ADAIR	2	3			2	3										
112 CORNELIUS-VRBRT	10	18,687	4	23	1	2						5	18,662			
113 CRPUD-KASTER																
114 CRPUD-SAUVIE IS	3	23	3	23												
115 CULVER 13KV																
116 CULVER-GAFFIN																
117 CULVER-SANYO #1																
118 CULVER-SANYO #2																
119 CURTIS 13KV	6	3,147	3	3,039	3	107	1	2,838				2	77			
120 CURTIS-11077	1	214	1	214			1	214								
121 DANA 4KV	3	170	1	6								1	1	2	165	
122 DAYTON-EAST	17	3,496	7	3,383	9	109	1	3,351				1	4			
123 DAYTON-LAFAYETT	16	28,536	9	25,651	4	116	1	25,553				4	2,818			
124 DAYTON-S AND W	6	2,956	4	1,776	1	1	1	1,759				3	1,183			
125 DELAWARE #1 4KV	6	3,511	3	3,284								1	2,804	3	228	
126 DELAWARE-DENVER	5	4,815	3	4,790	2	25										
127 DELAWARE-INTER																
128 DELAWARE-LOMBRD	3	463	3	463								1	52			
129 DENNY-EAST	5	2,645	2	1,847	1	108					1	586	1	83	1	104
130 DENNY-NORTH																
131 DENNY-SOUTH	13	5,343	11	5,233	1	83						2	6,766	1	27	
132 DENNY-WEST	13	2,790	12	2,703	1	88						1	1			
133 DILLEY-13KV	7	1,106	2	417	2	4						3	685			
134 DILLEY-SPRINGHL																
135 DUNNS C 13 KV	7	348	3	206	2	89						3	55			
136 DUNNS C-KELSO	2	11	2	11												
137 DURHAM 13KV																
138 DURHAM POOPLANT																
139 DURHAM-BONITA																
140 DURHAM-BRIDGEPORT																

Equip - Equipment Failures
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2012 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
141 DURHAM-SATTLER	3	572	3	572												
142 DURHAM-SOUTH	1	26											1	26		
143 E WATER 4KV	1	1													1	1
144 E-11021																
145 E-11039																
146 E-11040	1	5	1	5												
147 E-11041	3	11	1	1	1	1							1	9		
148 E-11042																
149 E-11043																
150 E-11047																
151 E-11064																
152 E-13139																
153 E-13140	1	30											1	30		
154 E-13141	1	1			1	1							1	40		
155 E-13144	3	99	1	15	2	84										
156 E-13145	3	78	1	75	1	1							1	1		
157 E-13148																
158 E-13149													1	146		
159 E-13150	1	2			1	2										
160 EAGLE CR-BARTON	12	1,148	6	189	3	21							3	938		
161 EAGLE CR-RIVRML	13	116	9	96	3	16							1	4		
162 EASTPORT-76TH																
163 EASTPORT-PLAZA	6	326	5	307	1	19										
164 ELMA 13KV																
165 ELMA-4 CORNERS	2	39			1	34							1	5		
166 ELMA-HUDSON	3	171	2	170	1	1										
167 ELMA-STATE 13KV	2	32	1	16									1	16		
168 ESTACADA 13KV	9	954	8	951	1	3							1	104		
169 ESTACADA-FARADY	33	1,001	11	639	18	321							6	8	1	36
170 FAIRMT-CNDLARIA	2	472	2	472												
171 FAIRMT-MISSION	10	1,441	4	226	2	72							5	1,143		
172 FAIRVIEW 13 KV	3	31	2	24	1	8										
173 FAIRVIEW-CLRCK																
174 FAIRVIEW-K CLUB	6	176	2	129	2	30							2	17		
175 FAIRVIEW-TROUTD	6	8,776	3	388	1	2							3	8,415		

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2012 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
176 FAIRVIEW-W VILL	6	338	6	338									1	1		
177 FARGO 13KV	15	1,684	6	1,176	7	147			1	5,665			3	445		
178 FORESTEX 4 KV																
179 G HOME-MCKAY	7	526	3	415	2	104							2	7		
180 G HOME-METZGER	4	251	4	251									2	38		
181 GALES CRK 13KV	18	2,142	8	677	5	28			1	670			8	1,446		
182 GLENCOE-GLISAN	3	59	1	13	2	46							1	33		
183 GLENCOE-PROVID	1	7			1	7										
184 GLENCOE-SUNNY	4	294	3	291	1	3							3	16		
185 GLISAN-FAB 2A																
186 GLISAN-UTIL 1B																
187 GLNCLN-BRIDLMIL	17	3,547	7	2,799	6	439							4	187	1	127
188 GLNCLN-SUNSET	5	141	1	6	1	2							2	130	1	4
189 GLNDOVEER-13596	7	162	4	128	3	34										
190 GLNDOVEER-13597	2	64			2	64							2	16		
191 GLNDOVEER-13598	4	59			3	20							2	40		
192 GLNDOVEER-13599	8	3,279	2	157	4	95							3	3,031		
193 GLNDOVEER-CLFGT	10	1,022	7	893	2	128									1	1
194 GLNDOVEER-NEAST	1	152			1	152										
195 GRAND AV 4KV																
196 GRND RND-AGENCY	5	30	3	24	1	2							1	3		
197 GRND RND-FORTHL	5	699	2	551	3	149										
198 HABRTN-BURLINTN	18	4,032	7	1,479	5	57					3	401	2	1,995	1	101
199 HABRTN-LINNTON	4	16	3	14	1	2										
200 HARBORTON 13KV																
201 HARMONY 13KV	3	58	1	56	2	2										
202 HARMONY-INTERNATIONAL	2	645	2	645												
203 HARMONY-LAKE																
204 HARMONY-LINNWOD	4	790	2	199	1	49							2	17	1	543
205 HARMONY-MILWAKI	3	325	2	321	1	5										
206 HARMONY-THIESEN	1	40	1	40												
207 HARRISON 13KV	1	68	1	68									1	8		
208 HARRISON-DAVIS	1	2	1	2												
209 HARRISON-IVON	1	8			1	8										
210 HAWTHORNE 4KV	4	112													4	112

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2012 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 HEMLOCK 13KV	2	794	1	162	1	633				2	174		
212 HEMLOCK-FREMONT	1	886								1	886		
213 HEMLOCK-MASON													
214 HILLCREST 13KV	2	11			1	5				1	7		
215 HILLCREST-CASCADIA													
216 HILLCREST-REED	7	2,463	3	181	2	2,241				2	41		
217 HILLCREST-SOUTH													
218 HILLS-DAIRY CREEK	19	15,138	6	393	3	8				10	14,738		
219 HILLS-DENNIS	1	550	1	550			1	550					
220 HILLS-JACKSON	9	493	5	456	2	14				2	23		
221 HILLS-LAUREL	14	496	7	387	3	92				7	85		
222 HILLS-SCHOLLS													
223 HOGAN N 13KV	7	93	5	85	1	2				1	6		
224 HOGAN N-BRGDOON	4	4,356	4	4,356									
225 HOGAN N-LINKS	26	2,878	15	2,785	7	50				5	44		
226 HOGAN N-SLQUIST	6	1,143	3	93	2	637				1	414		
227 HOGAN S-CLEVLND	5	372	1	80	4	292							
228 HOGAN S-LAWRNCE	22	3,287	17	3,028	2	185				3	75		
229 HOGAN S-MAIN	3	673	2	668						1	5		
230 HOGAN S-PAROPA	9	1,319	8	1,318	1	2							
231 HOGAN S-WALLULA	7	722	5	718	1	1				2	15		
232 HOLGATE 13KV	4	24	4	24									
233 HOLGATE-BYBEE	2	73	2	73						3	39		
234 HOLGATE-GIDEON	1	1			1	1				1	9		
235 HOLGATE-KENLWOR	4	223	2	174	2	49							
236 HOLGATE-RHONE	5	105	2	97	3	8							
237 HUBER 13KV	9	244	7	237	1	5				1	2		
238 HUBER-BANY	8	2,618	5	744	1	18				2	1,856		
239 HUBER-FRMINGTON	4	326	4	326									
240 HUBER-KINNAMON	7	190	4	178	2	12				1	1		
241 HUBER-MARYVILLE	14	3,657	9	3,091	3	24				2	241	1	327
242 HUGHES-ORC HTS	4	250	2	117	2	133							
243 HYDN IS-MALAND	2	4			2	4							
244 HYDN IS-N SHORE	6	4,942	3	764	1	317				2	3,861		
245 HYDN IS-S SHORE													

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2012 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
246 INDIAN-KEIZER													
247 INDIAN-LABISH	8	2,621	2	1,487	4	160				4	939	1	39
248 INDIAN-NORTH	11	3,269	5	19	3	5				3	3,246		
249 INDIAN-STATION	4	478	4	478									
250 INDIAN-WEST	11	644	7	533	1	1				2	46	2	67
251 ISLAND 13KV	1	12			1	12				1	1		
252 ISLAND-13180	2	55	2	55									
253 ISLAND-13187	4	235	4	235									
254 ISLAND-13188	9	329	5	287	2	8				3	36		
255 JEN LDG 13KV	6	49	3	37	2	7				1	5		
256 JEN LDG-MELDRUM										3	52		
257 JEN LDG-O GROVE	2	141	2	141									
258 JEN LDG-WEBSTER	12	775	8	730	2	17				2	29		
259 KELLEY POINT-LEDBETTER													
260 KELLEY POINT-SOLAR1													
261 KELLEY POINT-SOLAR2													
262 KELLEY PT 13 KV													
263 KING CTY-BULL MT	1	2,707	1	2,707						1	67		
264 KING CTY-FISCHER	4	884	2	582						1	263	1	39
265 KING CTY-HAZEL B	4	156	3	154	1	2							
266 KING CTY-NORTH	1	167	1	167									
267 KING CTY-SUMERFL	2	2,767	2	2,767									
268 KLY BU-BINNSMED	6	114	1	10	3	62				1	1	1	42
269 KLY BU-FAIRLAWN	6	1,526	4	65	1	12				3	2,517		
270 KLY BU-MALL 205	3	672	3	672						1	28		
271 KLY BU-MC GREW	4	3,056	1	36	1	16				2	3,004		
272 KLY PT-MARINEDR													
273 KLY PT-SIMMONS													
274 LAKE LABISH 4KV													
275 LAURELHURST 4KV													
276 LELAND-BEAVERC	10	7,892	8	2,567	1	2				1	5,322		
277 LELAND-CARUS	24	568	11	37	6	109				7	394	1	29
278 LELAND-KELM	1	1			1	1							
279 LENTS-13101	5	97	1	4	3	38				2	65		
280 LENTS-HAPPY VAL	7	173	5	131	1	41				1	2		

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2012 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	Outs	Hrs
281 LENTS-MT SCOTT	2	87					2	87							1	21		
282 LENTS-NORTH	2	30	1	21	1	9												
283 LIB-BROWNING	5	167	2	119	3	49												
284 LIB-LONE OAK	8	892	5	666	3	226												
285 LIB-MORNINGSIDE	4	203	1	184	2	18											1	1
286 LIB-ROSEDALE	19	4,661	6	1,151	5	257								8	3,717	1	4	
287 LIB-VISTA	5	362	2	190	1	47											2	125
288 LIBERAL 13KV	9	405	3	14	4	6								3	395			
289 LIBERAL-SAWMILL																		
290 LIBERTY-SKYLINE	8	2,231	1	2,129	5	55								3	52			
291 MAIN-AIRPORT	4	145	2	140	1	2								1	19	1	4	
292 MAIN-BENTLEY	3	423	3	423														
293 MAIN-EXPRESS	5	419	4	418	1	1												
294 MAIN-GRIFFIN																		
295 MAIN-JFS1																		
296 MAIN-JONES FARM																		
297 MAIN-RVR RD	13	1,626	6	421	6	1,195								1	10			
298 MAXIM 13KV																		
299 MC CL-COTTAGE	1	103			1	103												
300 MC CL-FRONT ST	3	174	1	6	1	3								1	166			
301 MC CL-HOLLYWOOD	2	18			2	18												
302 MCGILL-LSIAIR1A																		
303 MCMINNVILLE W AND L																		
304 MERIDIAN 13KV	10	113	2	13	3	32								4	12	1	56	
305 MERIDIAN-65TH																		
306 MERIDIAN-BORLND	8	1,273	6	330										2	942			
307 MERIDIAN-CHILDS																		
308 MERIDIAN-LAKEVIEW	2	16												2	16			
309 MERIDIAN-NYBERG																		
310 MERIDIAN-PLKNGTN	10	1,533	6	1,169	4	364												
311 MERIDIAN-SAGERT	4	498	3	475	1	23												
312 MIDGROVE-BROWN																		
313 MIDGROVE-CHEMEK	4	835	4	835														
314 MIDGROVE-CORDON	8	1,912	1	261	5	8								4	1,649			
315 MIDGROVE-SWEGLE	7	428	3	196	3	223								2	28			

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

Outs = Outages

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

2012 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
316 MIDGROVE-WEST	4	355	4	355									2	51		
317 MIDWAY-DIVISION	10	422	5	238	4	176							3	38		
318 MIDWAY-DOUGLAS	9	433	4	255	4	159							1	18		
319 MIDWAY-LYNCH	3	119	1	4	2	115										
320 MIDWAY-POWELHST	10	721	6	672	3	48				1	1		2	4		
321 MILL CREEK 13KV	3	54	1	48									2	6		
322 MILL CREEK-EASTLAND	8	5,466	2	17	3	6							3	5,443		
323 MILL CREEK-KUEBLER																
324 MOLALLA-BUCKAROO	2	203	2	203												
325 MOLALLA-FOREST	8	422	1	343	2	8							5	71	1	2
326 MOLALLA-MARQUAM	13	1,146	4	13	3	5							7	969	1	161
327 MOLALLA-YODER	13	2,728	6	105	4	14							3	2,608		
328 MRKT ST-ENGLEWD	5	211	4	159									2	53		
329 MRKT ST-FAIRGND	2	26	1	3											1	22
330 MRKT ST-HAWTHNE	1	173	1	173									1	11		
331 MRKT ST-PARK	3	37	1	6	1	5							1	26		
332 MT ANGEL-EAST	3	150	1	1	1	0							1	149		
333 MT ANGEL-WEST	25	983	12	811	12	45							5	130		
334 MT PLS-CLAIRMONT	5	187	3	185	1	1							3	6		
335 MT PLS-MT VIEW	3	54	1	21	1	11							1	8	1	23
336 MT PLS-RIVRCRST	4	330	1	97	2	20							1	212		
337 MT PLS-SOUTHEND	13	1,071	10	1,048	3	23							1	17		
338 MULINO-NORTH	1	52			1	52										
339 MULINO-SOUTH	6	170	3	116	2	54							1	0		
340 MULTNOMAH 13KV	9	2,775	8	2,763	1	13							1	61		
341 MULTNOMAH-13176	2	15			2	15							1	8		
342 MULTNOMAH-13177	4	124	1	25	2	42							1	57		
343 MULTNOMAH-13181	1	6	1	6												
344 MURRAYHILL 13KV	2	586											3	789		
345 MURRAYHL-KINTON	3	399			1	2							1	0	1	397
346 MURRAYHL-QUARRY																
347 MURRAYHL-REUSER																
348 MURRAYHL-TEAL	3	1,160	3	1,160												
349 N MARION FRONT																
350 N MARION-CROSBY	4	1,121	3	1,071	1	49										

Equip - Equipment Failures
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2012 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 N MARION-HUBBRD	3	38	2	35										1	2		
352 N MARION-MCLARN	15	738	7	595	7	110								2	33		
353 N PLAINS 13KV	8	1,762	6	1,739	2	23								1	2		
354 N PLAINS-M HILL	17	504	9	193	6	171								2	140		
355 NEWBERG-CHEHALM	24	3,246	8	308	10	96								5	2,807	1	35
356 NEWBERG-COLLEGE	1	16			1	16											
357 NEWBERG-DUNDEE	1	2			1	2								2	635		
358 NEWBERG-HOOVR PK														1	2		
359 NORTHERN-11009	2	17	1	14	1	3											
360 NORTHERN-11016	1	1												1	1		
361 NORTHERN-11071	6	2,568	2	2,513	4	54								1	7		
362 OAK HILLS 13KV	4	2,887	2	2,830										2	57		
363 OAK HILLS-5 OAK	2	477	1	463										2	134		
364 OAK HILLS-BRIER																	
365 OAK HILLS-SMRST	2	204	2	204													
366 OAK HILLS-WLKRD	2	501	1	200	1	301											
367 OCKLEY GRN 4KV	1	23	1	23										1	111		
368 OK GRV-LK HARRT	2	583	1	571	1	13	1	571	1	958							
369 OK GRV-WT WATER	1	145	1	145			1	145	1	233							
370 OREGON STEEL 13																	
371 ORENCO 13KV	2	6												1	5	2	1
372 ORENCO PRIMATE	5	198	3	183										2	15		
373 ORENCO-231ST																	
374 ORENCO-AMBRGLEN	3	60								1	0,993			3	53	1	29
375 ORENCO-BASELINE	2	1,335	1	1,325	1	11											
376 ORENCO-WILKINS																	
377 ORIENT 13KV	8	376	3	139	2	5								4	355		
378 ORIENT-BARLOW	10	163	6	55	1	9								5	104		
379 OSWEGO-IRON MTN	1	25			1	25								1	26		
380 OSWEGO-MARYLHST	8	507	2	51	5	416								1	40		
381 OSWEGO-PALATINE	6	198	3	191	2	5								1	1	1	2
382 OSWEGO-STAFFORD	16	2,495	11	2,410	5	85								1	747		
383 OXFORD 13KV	3	203	2	62										1	141		
384 OXFORD-FAIRVIEW	3	1,279	3	1,279													
385 OXFORD-LEE	7	1,011	7	1,011			2	864						1			

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

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2012 Outages by Cause System

Feeder Name	Total System		Equipment				Loss of Substation		Loss of Transmission		Human Element		Public		Planned	
	Outs	Hrs	PGE Equip * Outs	Hrs	Cutout/Fuse /Arrestor Failure Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
386 OXFORD-MADRONA																
387 OXFORD-RURAL	2	629	2	629			2	629								
388 OXFORD-SHELTON	4	844	2	796	2	47	2	796								
389 PELTON-ROUND BUTTE																
390 PENIN PARK 4KV	1	8			1	8										
391 PLSNT VALY 13KV	9	2,958	6	2,954	3	4										
392 PLSNT VALY-BXTR	6	5,843			3	186						6	5,684			
393 PLSNT VALY-MOON	4	204	3	204	1	1										
394 PLSNT VALY-SUN	12	2,799	3	94	6	396						3	2,310			
395 PORTLAND GRD W PUMPING																
396 PORTSMTH-CARB	7	4,583	3	4,535	3	23									1	25
397 PORTSMTH-DISP																
398 PORTSMTH-WILL	6	971	6	971									1	5		
399 PRGRS-GREENBURG	5	291	4	276	1	15							1	4		
400 PRGRS-HALL													1	1		
401 PRGRS-ROBINSON	3	44	2	14	1	30										
402 PRGRS-SAWYER	1	1	1	1												
403 PRGRS-WSH SQ #1																
404 PRGRS-WSH SQ #2																
405 RAL H-DOGWOOD	6	837	1	1	5	835										
406 RAL H-MONTCLAIR	6	661	3	571	3	89										
407 RAL H-OLESON RD	10	928	7	797	3	130										
408 RAMAPO 13KV	8	346	2	8	2	142						4	196			
409 RAMAPO-GILBERT	9	1,477	5	217	1	4						4	1,257			
410 REDLAND 13KV	25	1,635	8	362	11	144						5	1,130	2	2	
411 REDLAND-HENRICI	13	1,184	7	1,084	5	100						2	1			
412 REED-BLANTON	7	434	7	434												
413 REED-HAZELDALE	6	333	4	258	1	67						3	11			
414 REED-INTEL #1																
415 REED-INTEL #2																
416 REED-INTEL #3																
417 REED-INTEL #4																
418 REED-TV HWY	5	1,232	1	937	2	22							2	273		
419 ROCKWD 13KV	9	1,079	6	496									4	682		
420 ROCKWD-AIRPT WY	2	9	1	8							1	1				

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2012 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
421 ROCKWD-BOEING																
422 ROCKWD-INDUSTR	1	38			1	38										
423 ROCKWD-REYNOLDS	1	18	1	18									1	66		
424 ROCKWD-WILKES	1	4	1	4												
425 ROSEWAY 13 KV	3	9,573	1	882	1	55							1	8,636		
426 ROSEWAY-ALEXNDR	1	629	1	629												
427 ROSEWAY-ESPLANA	4	2,396	4	2,396												
428 ROUND BUTTE SPILLWAY																
429 RUBY-13502	4	247	3	241	1	6										
430 RUBY-13503	2	263	2	263												
431 RVRGATE-11010																
432 RVRGATE-11011	4	111	1	105	3	7							1	8		
433 RVRGATE-PEARCY																
434 RVRGATE-SWIFT	2	9	2	9												
435 RVRVIW-FULTON	3	717	1	57									1	18	1	642
436 RVRVIW-MACADAM	3	1,303	3	1,303			1	813								
437 RVRVIW-TWILLIGR	6	377	4	158									2	219		
438 SALEM-13260																
439 SALEM-13261																
440 SALEM-13262																
441 SALEM-13263	1	2	1	2												
442 SALEM-13264																
443 SALEM-UNION																
444 SANDY 13KV	19	5,256	11	505	7	22							1	4,730		
445 SANDY-362ND	5	1,017	2	621	3	396										
446 SANDY-BLUFF	6	331	2	89	4	241										
447 SANDY-WILDCAT	22	2,285	9	759	5	65							11	1,578		
448 SCHNITZER 11KV																
449 SCHOLLS FERRY-KEMMER RD	4	289	1	51	2	78							1	160		
450 SCHOLLS FERRY-RAINBOW	21	484	9	401	9	72							3	9	1	4
451 SCHOLLS FERRY-ROY ROGERS	6	616	1	4	1	1					1	65	2	544	1	2
452 SCOGG-CHERRY G	4	35	2	11	2	24							1	10		
453 SCOGG-LAUREL W	13	337	7	208	5	69							1	60		
454 SCOTSMILL 13KV	21	1,041	9	783	8	197							6	283		
455 SELLWD 13KV	6	860	2	555	2	13							3	304		

Equip - Equipment Failures
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2012 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 SELLWD-KELOG PK	2	17	1	9	1	8										
457 SELLWD-WAVERLY	3	44	1	7	1	1						2	89			
458 SHERIDAN EAST	13	1,026	8	870	4	75						3	86			
459 SHERIDAN-KADELL	8	502	5	484	2	16						3	7			
460 SILVERTON-NORTH	5	271	3	269	1	2						1	1			
461 SILVERTON-SOUTH	8	110	3	99	4	8						2	61	1	3	
462 SILVERTON-WEST	32	294	11	201	17	86						5	8			
463 SIX COR-13359	8	31	4	27	3	3						2	19			
464 SIX COR-13360																
465 SIX COR-BORCHER	10	1,204	5	291	4	120						1	792			
466 SIX COR-CHAPMAN	5	723	2	457	3	265										
467 SIX CORNER-13KV	7	83	2	12	1	6						4	65			
468 SMURFIT-NEWBERG																
469 SMURFIT-OC 13KV																
470 SPRING HILL 4 KV																
471 SPRINGBK-FERNWD	9	248	3	17	4	22						1	1	1	209	
472 SPRINGBK-STPAUL	11	144	5	125	6	19										
473 SPRINGBK-VILLA	5	369	2	216	1	1									2	152
474 SPRINGBK-ZIMRI	5	341	2	178	1	3						5	33	1	153	
475 ST LOUIS-EAST																
476 ST LOUIS-NORTH	11	225	3	7	7	10						1	209			
477 ST LOUIS-WEST	32	2,918	14	663	14	27						5	2,230			
478 ST MARY 13KV	1	1										1	1			
479 ST MARY-BETHANY	2	11	2	11												
480 ST MARY-BUTNER	10	7,936	7	344	2	86						1	7,506			
481 ST MARY-ELMONIC	6	478	4	282	1	189						1	7			
482 ST MARY-JENKINS																
483 ST MARY-MILLIKN	2	198	1	52	1	146										
484 STEPHN-11001																
485 STEPHN-11020																
486 STEPHN-11054																
487 STEPHN-11055																
488 STEPHN-11092																
489 STEPHN-11093																
490 STEPHN-11094																

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

Outs = Outages

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2012 Outages by Cause System

Feeder Name	Total System		Equipment				Loss of Substation		Loss of Transmission		Human Element		Public		Planned	
	Outs	Hrs	PGE Equip * Outs	Hrs	Cutout/Fuse /Arrestor Failure Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
491 STEPHN-11095																
492 STEPHN-11097													1	0		
493 STEPHN-11098																
494 STEPHN-11099																
495 SULL-ROBINWOOD	8	822	5	786	2	6							1	30		
496 SULL-SALAMO	6	650	6	650												
497 SULL-SUSSEX	17	11,146	12	9,160	3	781							1	785	1	420
498 SULL-WILLAMETTE	6	132	3	107									4	27		
499 SULLIVAN-TANNER	3	258	1	240	1	2							1	16		
500 SULZER 115A																
501 SULZER 115B																
502 SULZER BINGHAM																
503 SUMMIT-GOVT CAMP																
504 SUMMIT-MEADOWS																
505 SUMMIT-SUMMIT	2	876	1	869			1	869					2	10		
506 SUNSET-BLANCHET																
507 SUNSET-COLFAX																
508 SUNSET-CORNELL																
509 SUNSET-D1B1																
510 SUNSET-D1X1																
511 SUNSET-DORION																
512 SUNSET-IDTB																
513 SUNSET-KOMATSU																
514 SUNSET-LANE																
515 SUNSET-MCCALL																
516 SUNSET-MEEK																
517 SUNSET-PAULING																
518 SUNSET-SPALDING																
519 SUNSET-WHITMAN																
520 SUNSET-YOUNG																
521 SWAN IS-BASIN	1	398	1	398												
522 SWAN IS-DOLPHIN																
523 SWAN IS-FREIGHTLINER																
524 SWAN IS-GOING																
525 SWAN IS-SHIPYRD	1	54											1	54		

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2012 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 SYLVAN-BARNES	6	3,583	1	18	1	14							4	87	1	3,482
527 SYLVAN-PATTON	10	554	6	277	4	276							3	57		
528 TABOR 13KV	12	6,287	6	6,147	5	127	1	5,038					2	21		
529 TABOR-82ND AV	8	3,185	7	3,167			1	3,055					1	18		
530 TABOR-HOSPITAL	5	1,293	1	1,262	4	31	1	1,262								
531 TEK 13KV	1	241	1	241									1	487		
532 TEK-HOCKEN	5	75	1	40									4	35		
533 TEK-NORTH																
534 TEK-SHANNON	3	570	1	193	1	6							1	24	1	371
535 TEK-SOUTH	11	5,576	7	1,989	3	249							1	3,338		
536 TEK-WEST																
537 TEMP-NORTH																
538 TEMP-SOUTH	1	153											1	153		
539 TIGARD - 13 KV	8	1,593	6	1,570	2	23										
540 TIGARD-13336	7	107	4	35	3	72										
541 TIGARD-13337	3	31			3	31										
542 TIGARD-13361													2	150		
543 TIGARD-13362	5	1,598	4	1,379	1	219										
544 TNCTR-LAWNFIELD																
545 TNCTR-MONTEREY	6	8,223	3	8,190	2	3							2	90		
546 TNCTR-NORTH 13KV													1	0		
547 TNCTR-PRECISION																
548 TNCTR-SOUTH 13KV	1	2	1	2												
549 TNCTR-SUNNYBROOK																
550 TNCTR-VALLEY VW																
551 TROJAN PLANT W																
552 TROJAN PLNT E													1	4		
553 TUALATIN 13KV																
554 TUALATIN-AVERY	5	410	4	396									1	13		
555 TUALATIN-CIPOLE																
556 TUALATIN-HERMAN																
557 TUALATIN-IBACH	3	15	2	13	1	2										
558 TUALATIN-LEVETON																
559 TURNER 13KV	8	1,156	3	264	2	4							4	889		
560 TURNER-CASCADE	6	510	3	506	3	4							1	7		

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2012 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 TWILIGHT-BREMER	7	89	2	10	5	79								2	4		
562 UNIONVALE 13KV	30	2,119	13	1,145	13	50			2	4,893				7	927		
563 UNIVRSITY-MILL																	
564 UNIVRSITY-TRADE	1	2	1	2													
565 URBAN-BARBUR	2	1,200			1	15								1	1,185		
566 URBAN-CAMPUS																	
567 URBAN-CORBETT	5	15,966	2	1,897	1	240	1	1,889						1	13,827	1	2
568 URBAN-GAINES																	
569 URBAN-GIBBS	1	1			1	1											
570 URBAN-KELLY	1	1			1	1											
571 URBAN-LANDING	2	323			1	1								1	322		
572 URBAN-MEDICAL																	
573 URBAN-OHSU																	
574 W PTL D 13KV	1	18			1	18											
575 W PTL D-72ND	3	72	1	68	2	4											
576 W PTL D-NORTH	4	135	2	82	1	11								1	42		
577 W PTL D-PACIFIC	6	584	4	556	2	29											
578 W UNION 13KV	16	2,693	12	2,665							1	2	3	26			
579 W UNION-CORNELS	21	1,790	14	867	6	106			1	3,573			2	819			
580 WACKER																	
581 WACONDA 13KV	16	2,242	4	2,221	11	19								5	37		
582 WACONDA-NORPAC																	
583 WACONDA-RIVER RD	13	30	2	6	7	14								5	11		
584 WALLACE RD 13KV	6	185	1	6	4	44			2	5,856			3	137			
585 WELCHES 13KV	12	805	4	189	6	504								2	113		
586 WELCHES-ZIG ZAG	13	1,003	8	926	1	4								8	243	2	23
587 WEST LINN PAPER																	
588 WILLAMINA-BRIDGE	10	6,513	5	6,465	3	42	1	6,411						2	5		
589 WILLAMINA-BUELL	4	5,840	1	5,832	3	8	1	5,832						2	15		
590 WILLAMINA-LUMBER																	
591 WILLBRDG #1	2	9	1	6	1	3											
592 WILLBRDG #4																	
593 WILSV-BOECKMAN	8	371	5	350	2	15								2	13		
594 WILSV-CHARBNEAU	9	1,304	5	525	3	690								2	96		
595 WILSV-CITY		0												1	55		

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2012 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
596 WILSV-DAMMASCH	1	1													1	1
597 WILSV-HOLIDAY	3	51	2	8	1	43							2	3		
598 WILSV-MENTORTEK																
599 WILSV-PARKWAY																
600 WILSV-VILLEBOIS	1	32											1	32		
601 WILSV-WEST	4	192	2	188	2	5							1	1		
602 WOODBURN-CANNERY	8	138	2	89	1	3							1	326	5	46
603 WOODBURN-EAST	6	252	2	4	1	2							4	246		
604 WOODBURN-TOMLIN	6	200	2	193	3	6									1	1
605 WOODBURN-WEST	1	222	1	222												
606 YAMHILL 13KV	20	222	6	52	11	148							3	22		
607 YAMHILL-CARLTON	20	531	10	510	6	15							10	1,026	1	3
Grand Total:	2,652	519,497	2,182	334,101	832	24,649	32	109,449	10	32,840	10	1,218	621	199,219	79	9,539

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

Outs = Outages

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

SECTION VI

OUTAGES BY PGE EQUIPMENT

For 2012

This section is a summary of all outages by feeder tabulated according to the component of the system affected. For each system component, the number of failures is given as well as the total customer hours for each outage category.

2012 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
1 ABERN-CLACK HTS																				
2 ABERN-ORE CITY	7	43	2	15					1	1	1	3			3	23				
3 ABERNETHY-TRANSIT	8	140	2	20					5	45	1	75								
4 ALDER CT-IRVING	2	176							2	176										
5 ALDER CT-STARK	9	360					1	69	1	23	1	10			5	217			1	41
6 ALDER CT-YAMHILL																				
7 AMITY 13KV	7	122			1	2	1	92	3	18	2	10								
8 AMITY-BELLEVUE	11	139					1	6	10	133										
9 ARLETA-52ND ST	7	87							2	59	3	6			2	23				
10 ARLETA-FOSTER	1	10							1	10										
11 ARLETA-HAROLD	4	179							3	158					1	21				
12 ARLETA-POWELL	7	398	1	87					2	188	1	29	1	4	2	90				
13 ARLETA-STEELE	1	15	1	15																
14 B LAKE-SUNDIAL	3	25	1	19					2	6										
15 B LAKE-TOYOTNSO																				
16 BANKS 13KV	8	478							4	9	2	463							2	6
17 BANKS-CEDAR CYN	5	90							4	16	1	74								
18 BARNES-BATTLCRK	1	154	1	154																
19 BARNES-BOONE	2	12																	2	12
20 BARNES-COMMERCL																				
21 BARNES-SUNNYSID	7	1,100	4	1,050					1	39	1	7	1	5						
22 BEAVER PLNT-B&P																				
23 BELL-FLAVEL	1	33									1	33								
24 BELL-JOHNSEN CRK																				
25 BELL-KENDALL	1	3					1	3												
26 BELL-KING	2	71							1	10	1	61								
27 BELL-SOUTHGATE	4	419	3	410					1	9										
28 BELL-WICHITA	2	231	1	194											1	37				
29 BELMONT 4KV																				
30 BETHANY-BURTON	1	83					1	83												
31 BETHANY-GERMANTOWN	2	15							1	12					1	3				
32 BETHANY-KAISER	3	665	2	441															1	224
33 BETHANY-LAIDLAW	2	230							1	1	1	228								
34 BETHANY-SPRINGVILLE	1	2							1	2										
35 BETHANY-THOMPSON																				

Hrs - # of customers * duration hrs
Outs = Outages

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OH = Overhead

Xfmr = Transformer
Sub = Substation Equipment

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

2012 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 BETHEL-FRUTLAND	1	4	1	4																
37 BETHEL-GEER	7	24	1	2			1	9	3	2					1	10			1	1
38 BETHEL-MCLAY	1	262	1	262																
39 BLUE LAKE 13 KV	1	5					1	5												
40 BOISE CASC WR-1																				
41 BOONS-GOODALL	1	51									1	51								
42 BOONS-KRUSEWAY	4	208					2	166	1	37	1	5								
43 BOONS-LK GROVE	5	261	1	190					3	63					1	7				
44 BOONS-MT PARK	4	587	4	587																
45 BOONS-WMBLY PK	5	1,827	1	69					1	1	3	1,756								
46 BORING-282ND AV	13	332	1	82			1	2	2	4	2	147			6	86			1	11
47 BORING-CITY	5	321							4	308									1	13
48 BORING-TELFORD	9	513	3	380					3	9	2	95			1	28				
49 BRIGHTWD 13KV	5	3,240							1	2	1	1,100			2	17	1	2,121		
50 BRIGHTWD-N BANK	7	2,100					2	7	2	81	2	335					1	1,677		
51 BROOKLYN 4KV																				
52 BROOKWOOD 13KV	1	4			1	4														
53 BROOKWOOD-BRWCK	1	133	1	133																
54 BROOKWOOD-SUNRS	1	54	1	54																
55 BVRTN-ALLEN	10	493	1	24			2	200	6	248				1	21					
56 BVRTN-JAMIESON	5	274	5	274																
57 BVRTN-NORTHWEST	7	652	2	551					3	6				2	96					
58 BVRTN-W SLOPE	4	555	1	145			1	338	2	72										
59 CANBY-13643	9	155	1	120					5	8	1	21			1	2			1	4
60 CANBY-13644	5	11					1	4	3	5									1	2
61 CANBY-BUTTEVLE	3	6							3	6										
62 CANYON 13KV	7	273	1	105					4	132				1	5				1	31
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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2012 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
71 CANYON-13122																				
72 CANYON-13123																				
73 CANYON-13124																				
74 CANYON-13125																				
75 CANYON-13133																				
76 CANYON-13134	1	1			1	1														
77 CANYON-13135																				
78 CANYON-13136																				
79 CANYON-21ST AVE	2	80							1	74					1	6				
80 CANYON-23RD AVE	3	33							3	33										
81 CANYON-BURNSIDE	3	158							3	158										
82 CARVER 13 KV	13	4,234	4	2,734					4	206					3	228	1	1,064	1	2
83 CARVER-ALMOND	1	1,082															1	1,082		
84 CARVER-NORTH	1	5,054															1	5,054		
85 CARVER-RIVRBEND	1	45															1	45		
86 CARVER-SOUTH	3	5,371													2	4,968	1	403		
87 CARVER-WOODS	5	14,352	2	100											1	2	1	14,248	1	2
88 CEDAR HILLS 13KV																				
89 CEDAR-LEAHY	7	522	4	478					2	32			1	11						
90 CEDAR-SHOP CEN	13	2,812	7	2,526			1	231	4	46	1	9								
91 CEDAR-SKYLINE	3	269	2	132															1	137
92 CEDAR-ST VINCNT																				
93 CEDAR-SYLVAN	9	2,315	3	634					3	8	3	1,673								
94 CLACK-EVELYN	1	1							1	1										
95 CLACK-GLADSTONE	7	258							3	75	1	112	1	20	1	46			1	5
96 CLACK-JENNIFER	2	24	2	24																
97 CLACK-TOLBERT	3	207	2	206					1	1										
98 CLAXTAR 13KV	3	629	1	227					1	28	1	374								
99 CLAXTAR-HAYSVIL	2	827							1	14	1	813								
100 CLAXTAR-RIDGE	1	11																	1	11
101 CNTNNIL 13KV	9	11,337	4	378					2	87							1	10,785	2	88
102 CNTNNIL-BARKER	6	11,060	2	14					1	1	1	41	1	472			1	10,532		
103 CNTNNIL-BRACRFT	2	89							1	2									1	87
104 CNTNNIL-TREEAND	6	362	1	102					1	244	4	17								
105 COFFEE CREEK-FREEMAN																				

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2012 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	
106 COFFEE CREEK-HOLIDAY	1	2							1	2											
107 COLTON-DHOOGHE	5	54							3	27					2	28					
108 COLTON-GRAYS HL	7	55							4	35					3	19					
109 COLUMBIA PK 4KV																					
110 CORNELIUS 13KV	12	1,306	4	974			1	127	6	32			1	174							
111 CORNELIUS-ADAIR	2	3							2	3											
112 CORNELIUS-VRBRT	5	25							1	2	1	3			2	18			1	2	
113 CRPUD-KASTER																					
114 CRPUD-SAUVIE IS	3	23	3	23																	
115 CULVER 13KV																					
116 CULVER-GAFFIN																					
117 CULVER-SANYO #1																					
118 CULVER-SANYO #2																					
119 CURTIS 13KV	6	3,147							3	107	1	180					1	2,838	1	21	
120 CURTIS-11077	1	214															1	214			
121 DANA 4KV	1	6									1	6									
122 DAYTON-EAST	16	3,492	1	9					9	109	3	19	1	3			1	3,351	1	2	
123 DAYTON-LAFAYETT	13	25,767	2	52					4	116	1	1	3	7	2	38	1	25,553			
124 DAYTON-S AND W	5	1,776	2	14					1	1							1	1,759	1	2	
125 DELAWARE #1 4KV	3	3,284									2	2,894								1	390
126 DELAWARE-DENVER	5	4,815							2	25	1	4,719			2	71					
127 DELAWARE-INTER																					
128 DELAWARE-LOMBRD	3	463									2	454								1	9
129 DENNY-EAST	3	1,955	1	94					1	108			1	1,754							
130 DENNY-NORTH																					
131 DENNY-SOUTH	12	5,316	9	4,801			1	403	1	83	1	29									
132 DENNY-WEST	13	2,790	9	939					1	88	1	742			1	117				1	905
133 DILLEY-13KV	4	421							2	4	2	417									
134 DILLEY-SPRINGHL																					
135 DUNNS C 13 KV	5	296			1	191			2	89	1	1			1	14					
136 DUNNS C-KELSO	2	11													2	11					
137 DURHAM 13KV																					
138 DURHAM POOPLANT																					
139 DURHAM-BONITA																					
140 DURHAM-BRIDGEPORT																					

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2012 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
141 DURHAM-SATTLER	3	572	1	170			2	402												
142 DURHAM-SOUTH																				
143 E WATER 4KV																				
144 E-11021																				
145 E-11039																				
146 E-11040	1	5														1	5			
147 E-11041	2	2							1	1					1	1				
148 E-11042																				
149 E-11043																				
150 E-11047																				
151 E-11064																				
152 E-13139																				
153 E-13140																				
154 E-13141	1	1							1	1										
155 E-13144	3	99							2	84					1	15				
156 E-13145	2	77							1	1					1	75				
157 E-13148																				
158 E-13149																				
159 E-13150	1	2							1	2										
160 EAGLE CR-BARTON	9	210	1	6			2	41	3	21	2	137			1	4				
161 EAGLE CR-RIVRML	12	112	1	3			1	5	3	16					6	26			1	62
162 EASTPORT-76TH																				
163 EASTPORT-PLAZA	6	326	3	306					1	19										
164 ELMA 13KV																				
165 ELMA-4 CORNERS	1	34							1	34										
166 ELMA-HUDSON	3	171	2	170					1	1										
167 ELMA-STATE 13KV	1	16					1	16												
168 ESTACADA 13KV	8	953							1	3	7	951								
169 ESTACADA-FARADY	29	960	1	117					18	321	3	308	1	152	4	58			2	5
170 FAIRMT-CNDLARIA	2	472	1	463			1	9												
171 FAIRMT-MISSION	6	298	1	6					2	72					2	49			1	170
172 FAIRVIEW 13 KV	3	31							1	8					2	24				
173 FAIRVIEW-CLRCK																				
174 FAIRVIEW-K CLUB	3	130	1	100					2	30										
175 FAIRVIEW-TROUTD	4	389	2	356					1	2									1	31

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2012 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
176 FAIRVIEW-W VILL	6	338	3	143			2	195											1	1
177 FARGO 13KV	13	1,323	2	746					7	147	2	427			2	3				
178 FORESTEX 4 KV																				
179 G HOME-MCKAY	4	512	2	408					2	104										
180 G HOME-METZGER	4	251	2	96			1	130			1	24								
181 GALES CRK 13KV	13	705					1	7	5	28	4	658			3	12				
182 GLENCOE-GLISAN	3	59							2	46								1	13	
183 GLENCOE-PROVID	1	7							1	7										
184 GLENCOE-SUNNY	4	294							1	3			1	20	2	271				
185 GLISAN-FAB 2A																				
186 GLISAN-UTIL 1B																				
187 GLNCLN-BRIDLMIL	13	3,238	4	839					6	439	2	1,952						1	7	
188 GLNCLN-SUNSET	2	7							1	2					1	6				
189 GLNDOVEER-13596	7	162	1	52			1	13	3	34					1	5			1	58
190 GLNDOVEER-13597	2	64							2	64										
191 GLNDOVEER-13598	3	20							3	20										
192 GLNDOVEER-13599	6	252	2	157					4	95										
193 GLNDOVEER-CLFGT	9	1,020	2	418					2	128	1	38			4	436				
194 GLNDOVEER-NEAST	1	152							1	152										
195 GRAND AV 4KV																				
196 GRND RND-AGENCY	4	26	2	17					1	2					1	7				
197 GRND RND-FORTHLL	5	699							3	149	1	545							1	6
198 HABRTN-BURLINTN	12	1,536	1	9					5	57	2	835			1	5			3	630
199 HABRTN-LINNTON	4	16							1	2	2	9			1	5				
200 HARBORTON 13KV																				
201 HARMONY 13KV	3	58	1	56					2	2										
202 HARMONY-INTERNATIONA L	2	645	1	9			1	636												
203 HARMONY-LAKE																				
204 HARMONY-LINNWOD	3	248	1	196					1	49	1	3								
205 HARMONY-MILWAKI	3	325	2	321					1	5										
206 HARMONY-THIESEN	1	40	1	40																
207 HARRISON 13KV	1	68													1	68				
208 HARRISON-DAVIS	1	2																	1	2
209 HARRISON-IVON	1	8							1	8										
210 HAWTHORNE 4KV																				

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2012 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
211 HEMLOCK 13KV	2	794	1	162					1	633										
212 HEMLOCK-FREMONT																				
213 HEMLOCK-MASON																				
214 HILLCREST 13KV	1	5							1	5										
215 HILLCREST-CASCADIA																				
216 HILLCREST-REED	5	2,421	2	176					22	241			1	5						
217 HILLCREST-SOUTH																				
218 HILLS-DAIRY CREEK	9	400					1	31	3	8	1	187			1	37			3	137
219 HILLS-DENNIS	1	550															1	550		
220 HILLS-JACKSON	6	404	1	132			2	184	2	14					1	73				
221 HILLS-LAUREL	10	479							3	92	4	176			2	42			1	170
222 HILLS-SCHOLLS																				
223 HOGAN N 13KV	6	87	1	35			1	3	1	2					3	47				
224 HOGAN N-BRGDOON	4	4,356	1	140			2	175											1	4,042
225 HOGAN N-LINKS	22	2,835	7	805			2	72	7	50	4	79	1	1,800	1	29				
226 HOGAN N-SLQUIST	5	729					1	60	2	637					2	32				
227 HOGAN S-CLEVLND	5	372	1	80					4	292										
228 HOGAN S-LAWRNCE	19	3,212	9	1,383			3	93	2	185	3	1,460							2	91
229 HOGAN S-MAIN	2	668	1	141			1	527												
230 HOGAN S-PAROPA	9	1,319	7	1,241			1	77	1	2										
231 HOGAN S-WALLULA	6	719	3	670					1	1	1	7							1	42
232 HOLGATE 13KV	4	24	2	20							2	4								
233 HOLGATE-BYBEE	2	73	1	27											1	46				
234 HOLGATE-GIDEON	1	1							1	1										
235 HOLGATE-KENLWOR	4	223							2	49					1	173			1	1
236 HOLGATE-RHONE	5	105	1	85					3	8									1	12
237 HUBER 13KV	8	242	1	186			3	47	1	5			3	4						
238 HUBER-BANY	6	762	3	207			1	122	1	18					1	415				
239 HUBER-FRMINGTON	4	326			1	12	3	314												
240 HUBER-KINNAMON	6	189	1	50			2	125	2	12			1	3						
241 HUBER-MARYVILLE	12	3,114	4	961			3	1,798	3	24	1	204							1	128
242 HUGHES-ORC HTS	4	250	2	117					2	133										
243 HYDN IS-MALAND	2	4							2	4										
244 HYDN IS-N SHORE	4	1,081	3	764					1	317										
245 HYDN IS-S SHORE																				

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2012 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
246 INDIAN-KEIZER																				
247 INDIAN-LABISH	6	1,647							4	160	1	1,486							1	1
248 INDIAN-NORTH	8	24	1	7			2	8	3	5					2	4				
249 INDIAN-STATION	4	478	4	478																
250 INDIAN-WEST	7	532	4	438			1	91	1	1	1	3								
251 ISLAND 13KV	1	12							1	12										
252 ISLAND-13180	2	55									1	54	1	0						
253 ISLAND-13187	4	235	2	216											1	6			1	12
254 ISLAND-13188	7	294	2	5					2	8	1	253			2	29				
255 JEN LDG 13KV	5	44	1	13					2	7					1	14			1	10
256 JEN LDG-MELDRUM																				
257 JEN LDG-O GROVE	2	141	2	141																
258 JEN LDG-WEBSTER	10	747	2	250			3	440	2	17					2	39			1	2
259 KELLEY POINT-LEDBETTER																				
260 KELLEY POINT-SOLAR1																				
261 KELLEY POINT-SOLAR2																				
262 KELLEY PT 13 KV																				
263 KING CTY-BULL MT	1	2,707									1	2,707								
264 KING CTY-FISCHER	2	582									1	567			1	15				
265 KING CTY-HAZEL B	4	156	1	75					1	2	1	74			1	5				
266 KING CTY-NORTH																				
267 KING CTY-SUMERFL	2	2,767					2	2,767												
268 KLY BU-BINNSMED	4	72							3	62					1	10				
269 KLY BU-FAIRLAWN	5	77	2	38					1	12			1	1	1	26				
270 KLY BU-MALL 205	3	672	1	644											1	27			1	1
271 KLY BU-MC GREW	2	52					1	36	1	16										
272 KLY PT-MARINEDR																				
273 KLY PT-SIMMONS																				
274 LAKE LABISH 4KV																				
275 LAURELHURST 4KV																				
276 LELAND-BEAVERC	9	2,569	3	19					1	2	4	2,538			1	10				
277 LELAND-CARUS	17	146					2	9	6	109	5	14			3	10			1	4
278 LELAND-KELM	1	1							1	1										
279 LENTS-13101	3	38							3	38										
280 LENTS-HAPPY VAL	6	171	2	49			1	56	1	41					1	18			1	8

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2012 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
281 LENTS-MT SCOTT	2	87							2	87										
282 LENTS-NORTH	2	30							1	9					1	21				
283 LIB-BROWNING	5	167							3	49	1	61							1	58
284 LIB-LONE OAK	8	892	4	478			1	188	3	226										
285 LIB-MORNINGSIDE	3	203	1	184					2	18										
286 LIB-ROSEDALE	11	1,408	3	574					5	257	2	393							1	185
287 LIB-VISTA	3	237	1	72					1	47									1	118
288 LIBERAL 13KV	7	19	1	10					4	6									2	4
289 LIBERAL-SAWMILL																				
290 LIBERTY-SKYLINE	6	2,184							5	55	1	2,129								
291 MAIN-AIRPORT	3	142	2	140					1	2										
292 MAIN-BENTLEY	3	423	1	61			1	121			1	241								
293 MAIN-EXPRESS	5	419	3	358			1	60	1	1										
294 MAIN-GRIFFIN																				
295 MAIN-JFS1																				
296 MAIN-JONES FARM																				
297 MAIN-RVR RD	12	1,616	5	418					6	1,195					1	3				
298 MAXIM 13KV																				
299 MC CL-COTTAGE	1	103							1	103										
300 MC CL-FRONT ST	2	9	1	6					1	3										
301 MC CL-HOLLYWOOD	2	18							2	18										
302 MCGILL-LSIAIR1A																				
303 MCMINNVILLE W AND L																				
304 MERIDIAN 13KV	5	45	2	13					3	32										
305 MERIDIAN-65TH																				
306 MERIDIAN-BORLND	6	330									4	326							2	4
307 MERIDIAN-CHILDS																				
308 MERIDIAN-LAKEVIEW																				
309 MERIDIAN-NYBERG																				
310 MERIDIAN-PLKNGTN	10	1,533	1	146			2	507	4	364	2	487							1	29
311 MERIDIAN-SAGERT	4	498	3	475					1	23										
312 MIDGROVE-BROWN																				
313 MIDGROVE-CHEMEK	4	835	1	45			3	790												
314 MIDGROVE-CORDON	6	270	1	261					5	8										
315 MIDGROVE-SWEGLE	6	420	1	5			1	6	3	223	1	186								

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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
316 MIDGROVE-WEST	1	170	1	170																
317 MIDWAY-DIVISION	9	413	1	123					4	176	1	89			3	25				
318 MIDWAY-DOUGLAS	8	415	2	217					4	159					2	38				
319 MIDWAY-LYNCH	3	119							2	115					1	4				
320 MIDWAY-POWELHST	9	720	2	562					3	48	1	75			3	35				
321 MILL CREEK 13KV	1	48					1	48												
322 MILL CREEK-EASTLAND	5	23					2	17	3	6										
323 MILL CREEK-KUEBLER																				
324 MOLALLA-BUCKAROO	2	203	1	114			1	89												
325 MOLALLA-FOREST	3	351							2	8	1	343								
326 MOLALLA-MARQUAM	7	19							3	5	1	3	1	3	1	6			1	1
327 MOLALLA-YODER	10	120	1	7			2	11	4	14					2	85			1	2
328 MRKT ST-ENGLEWD	4	159	1	128							1	1	2	30						
329 MRKT ST-FAIRGND	1	3																	1	3
330 MRKT ST-HAWTHNE	1	173	1	173																
331 MRKT ST-PARK	2	11							1	5									1	6
332 MT ANGEL-EAST	2	1							1	0			1	1						
333 MT ANGEL-WEST	23	506	6	56					12	45			2	397	2	5			1	2
334 MT PLS-CLAIRMONT	4	186	2	92			1	93	1	1										
335 MT PLS-MT VIEW	2	32					1	21	1	11										
336 MT PLS-RIVRCRST	3	118							2	20					1	97				
337 MT PLS-SOUTHEND	13	1,071	4	612			1	82	3	23	4	349			1	4				
338 MULINO-NORTH	1	52							1	52										
339 MULINO-SOUTH	5	170	1	17					2	54	1	97							1	2
340 MULTNOMAH 13KV	9	2,775	2	2,248					1	13	3	284			1	5			2	225
341 MULTNOMAH-13176	2	15							2	15										
342 MULTNOMAH-13177	2	42							2	42										
343 MULTNOMAH-13181	1	6													1	6				
344 MURRAYHILL 13KV																				
345 MURRAYHL-KINTON	1	2							1	2										
346 MURRAYHL-QUARRY																				
347 MURRAYHL-REUSER																				
348 MURRAYHL-TEAL	2	356	1	324			1	32												
349 N MARION FRONT																				
350 N MARION-CROSBY	3	1,120							1	49	2	1,070								

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs
351 N MARION-HUBBRD	2	35	1	5											1	31				
352 N MARION-MCLARN	14	705	4	559					7	110	1	28							2	9
353 N PLAINS 13KV	8	1,762							2	23	3	1,589			2	148			1	2
354 N PLAINS-M HILL	15	364	1	6			2	10	6	171	1	46			4	130			1	2
355 NEWBERG-CHEHALM	16	398	1	7					10	96	2	285			2	7			1	2
356 NEWBERG-COLLEGE	1	16							1	16										
357 NEWBERG-DUNDEE	1	2							1	2										
358 NEWBERG-HOOVR PK																				
359 NORTHERN-11009	2	17							1	3					1	14				
360 NORTHERN-11016																				
361 NORTHERN-11071	6	2,568							4	54	1	2,132			1	381				
362 OAK HILLS 13KV	2	2,830	1	2,593							1	238								
363 OAK HILLS-5 OAK	1	463	1	463																
364 OAK HILLS-BRIER																				
365 OAK HILLS-SMRST	2	204	2	204																
366 OAK HILLS-WLKRD	2	501	1	200					1	301										
367 OCKLEY GRN 4KV	1	23									1	23								
368 OK GRV-LK HARRT	2	583							1	13							1	571		
369 OK GRV-WT WATER	1	145															1	145		
370 OREGON STEEL 13																				
371 ORENCO 13KV																				
372 ORENCO PRIMATE	3	183	2	175											1	8				
373 ORENCO-231ST																				
374 ORENCO-AMBRGLEN																				
375 ORENCO-BASELINE	2	1,335							1	11									1	1,325
376 ORENCO-WILKINS																				
377 ORIENT 13KV	4	133							2	5					1	5			1	123
378 ORIENT-BARLOW	7	64	2	14					1	9	3	5							1	36
379 OSWEGO-IRON MTN	1	25							1	25										
380 OSWEGO-MARYLHST	6	465	1	49					5	416										
381 OSWEGO-PALATINE	5	195	1	132					2	5					2	58				
382 OSWEGO-STAFFORD	15	1,890	4	123			1	147	5	85	4	1,524			1	10				
383 OXFORD 13KV	2	62	1	2							1	60								
384 OXFORD-FAIRVIEW	3	1,279	2	1,274			1	6												
385 OXFORD-LEE	7	1,011															2	864	5	146

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	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	Outs	Hrs	
386 OXFORD-MADRONA																					
387 OXFORD-RURAL	2	629															2	629			
388 OXFORD-SHELTON	4	844							2	47							2	796			
389 PELTON-ROUND BUTTE																					
390 PENIN PARK 4KV	1	8							1	8											
391 PLSNT VALY 13KV	9	2,958	1	24					3	4	3	2,922			1	4				1	4
392 PLSNT VALY-BXTR	3	186							3	186											
393 PLSNT VALY-MOON	2	160	1	159					1	1											
394 PLSNT VALY-SUN	9	490					1	58	6	396					2	35					
395 PORTLAND GRD W PUMPING																					
396 PORTSMTH-CARB	6	4,558	1	3					3	23	1	4,485								1	47
397 PORTSMTH-DISP																					
398 PORTSMTH-WILL	6	971	2	347			1	65			2	37			1	522					
399 PRGRS-GREENBURG	5	291	3	271					1	15					1	5					
400 PRGRS-HALL																					
401 PRGRS-ROBINSON	3	44					2	14	1	30											
402 PRGRS-SAWYER	1	1																		1	1
403 PRGRS-WSH SQ #1																					
404 PRGRS-WSH SQ #2																					
405 RAL H-DOGWOOD	6	837							5	835										1	1
406 RAL H-MONTCLAIR	6	661	2	465			1	106	3	89											
407 RAL H-OLESON RD	10	928	3	298			3	425	3	130	1	74									
408 RAMAPO 13KV	4	150							2	142			1	2						1	5
409 RAMAPO-GILBERT	6	221	1	53					1	4			1	31	3	133					
410 REDLAND 13KV	19	506	2	111			1	219	11	144	2	22	1	1	2	8					
411 REDLAND-HENRICI	11	144	2	12					5	100					2	11				2	21
412 REED-BLANTON	7	434	4	293							1	21			1	7				1	114
413 REED-HAZELDALE	5	325	1	104			1	5	1	67	2	150									
414 REED-INTEL #1																					
415 REED-INTEL #2																					
416 REED-INTEL #3																					
417 REED-INTEL #4																					
418 REED-TV HWY	3	959							2	22	1	937									
419 ROCKWD 13KV	6	496	3	461											3	36					
420 ROCKWD-AIRPT WY																					

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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 ROCKWD-BOEING																				
422 ROCKWD-INDUSTRL	1	38							1	38										
423 ROCKWD-REYNOLDS																				
424 ROCKWD-WILKES	1	4					1	4												
425 ROSEWAY 13 KV	1	55							1	55										
426 ROSEWAY-ALEXNDR																				
427 ROSEWAY-ESPLANA	3	1,130					3	1,130												
428 ROUND BUTTE SPILLWAY																				
429 RUBY-13502	4	247	1	152					1	6	1	83			1	5				
430 RUBY-13503	2	263					1	263			1	0								
431 RVRGATE-11010																				
432 RVRGATE-11011	4	111							3	7	1	105								
433 RVRGATE-PEARCY																				
434 RVRGATE-SWIFT	2	9																	2	9
435 RVRVIW-FULTON	1	57									1	57								
436 RVRVIW-MACADAM	2	818									1	5					1	813		
437 RVRVIW-TWILLIGR	4	158														4	158			
438 SALEM-13260																				
439 SALEM-13261																				
440 SALEM-13262																				
441 SALEM-13263	1	2					1	2												
442 SALEM-13264																				
443 SALEM-UNION																				
444 SANDY 13KV	18	526	2	47			1	10	7	22	3	395			5	52				
445 SANDY-362ND	4	427					1	31	3	396										
446 SANDY-BLUFF	6	331	2	89					4	241										
447 SANDY-WILDCAT	14	824	1	337			1	8	5	65	2	396	2	7	2	9			1	2
448 SCHNITZER 11KV																				
449 SCHOLLS FERRY-KEMMER RD	3	129							2	78	1	51								
450 SCHOLLS FERRY-RAINBOW	18	473	2	41					9	72	1	5			5	350			1	5
451 SCHOLLS FERRY-ROY ROGERS	2	5							1	1			1	4						
452 SCOGG-CHERRY G	4	35							2	24					2	11				
453 SCOGG-LAUREL W	12	277	2	12					5	69	1	123	1	58	2	13			1	3
454 SCOTSMILL 13KV	17	980							8	197	4	766			3	14			2	3

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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 SELLWD 13KV	4	568							2	13	1	306							1	250
456 SELLWD-KELOG PK	2	17							1	8					1	9				
457 SELLWD-WAVERLY	2	8					1	7	1	1										
458 SHERIDAN EAST	12	946	1	41					4	75	2	477			4	351			1	2
459 SHERIDAN-KADELL	7	500	2	203					2	16	2	279			1	2				
460 SILVERTON-NORTH	4	270	3	269					1	2										
461 SILVERTON-SOUTH	7	107							4	8	1	94	1	2	1	3				
462 SILVERTON-WEST	26	280	4	20					17	86	2	164			2	8			1	1
463 SIX COR-13359	7	31							3	3					1	5			3	22
464 SIX COR-13360																				
465 SIX COR-BORCHER	9	411							4	120			1	1	2	12			2	278
466 SIX COR-CHAPMAN	5	723							3	265	1	146							1	311
467 SIX CORNER-13KV	3	18							1	6					2	12				
468 SMURFIT-NEWBERG																				
469 SMURFIT-OC 13KV																				
470 SPRING HILL 4 KV																				
471 SPRINGBK-FERNWD	7	38					2	10	4	22					1	7				
472 SPRINGBK-STPAUL	11	144	1	7					6	19	2	108			2	10				
473 SPRINGBK-VILLA	2	207	1	206					1	1										
474 SPRINGBK-ZIMRI	3	181					2	178	1	3										
475 ST LOUIS-EAST																				
476 ST LOUIS-NORTH	10	17	1	4					7	10	1	2							1	2
477 ST LOUIS-WEST	25	684	3	14					14	27	3	90			3	16			2	537
478 ST MARY 13KV																				
479 ST MARY-BETHANY	1	1	1	1																
480 ST MARY-BUTNER	9	430	1	30			1	80	2	86	2	172			3	63				
481 ST MARY-ELMONIC	5	471	4	282					1	189										
482 ST MARY-JENKINS																				
483 ST MARY-MILLIKN	2	198	1	52					1	146										
484 STEPHN-11001																				
485 STEPHN-11020																				
486 STEPHN-11054																				
487 STEPHN-11055																				
488 STEPHN-11092																				
489 STEPHN-11093																				

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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 STEPHN-11094																				
491 STEPHN-11095																				
492 STEPHN-11097																				
493 STEPHN-11098																				
494 STEPHN-11099																				
495 SULL-ROBINWOOD	7	792	2	259			2	437	2	6	1	89								
496 SULL-SALAMO	6	650	1	559			2	4			2	77			1	9				
497 SULL-SUSSEX	15	9,941	7	5,314			2	184	3	781	1	186							2	3,476
498 SULL-WILLAMETTE	3	107	1	5							2	101								
499 SULLIVAN-TANNER	2	242							1	2	1	240								
500 SULZER 115A																				
501 SULZER 115B																				
502 SULZER BINGHAM																				
503 SUMMIT-GOVT CAMP																				
504 SUMMIT-MEADOWS																				
505 SUMMIT-SUMMIT	1	869															1	869		
506 SUNSET-BLANCHET																				
507 SUNSET-COLFAX																				
508 SUNSET-CORNELL																				
509 SUNSET-D1B1																				
510 SUNSET-D1X1																				
511 SUNSET-DORION																				
512 SUNSET-IDTB																				
513 SUNSET-KOMATSU																				
514 SUNSET-LANE																				
515 SUNSET-MCCALL																				
516 SUNSET-MEEK																				
517 SUNSET-PAULING																				
518 SUNSET-SPALDING																				
519 SUNSET-WHITMAN																				
520 SUNSET-YOUNG																				
521 SWAN IS-BASIN	1	398	1	398																
522 SWAN IS-DOLPHIN																				
523 SWAN IS-FREIGHTLINER																				
524 SWAN IS-GOING																				

Hrs - # of customers * duration hrs
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Xfmr = Transformer
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Cond = Conductor
* Sub-Total Equipment - is sub-total of equipment identified by component type

2012 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
525 SWAN IS-SHIPYRD																				
526 SYLVAN-BARNES	2	32							1	14	1	18								
527 SYLVAN-PATTON	10	554	2	223					4	276					2	11			2	43
528 TABOR 13KV	11	6,273							5	127	1	3	1	801	3	305	1	5,038		
529 TABOR-82ND AV	7	3,167													6	112	1	3,055		
530 TABOR-HOSPITAL	5	1,293							4	31							1	1,262		
531 TEK 13KV	1	241	1	241																
532 TEK-HOCKEN	1	40	1	40																
533 TEK-NORTH																				
534 TEK-SHANNON	2	199							1	6	1	193								
535 TEK-SOUTH	10	2,238	4	864			2	1,122	3	249					1	3				
536 TEK-WEST																				
537 TEMP-NORTH																				
538 TEMP-SOUTH																				
539 TIGARD - 13 KV	8	1,593	4	1,409			1	121	2	23					1	40				
540 TIGARD-13336	7	107	2	27					3	72					2	8				
541 TIGARD-13337	3	31							3	31										
542 TIGARD-13361																				
543 TIGARD-13362	5	1,598	1	435			2	808	1	219					1	136				
544 TNCTR-LAWNFIELD																				
545 TNCTR-MONTEREY	4	8,171							2	3	2	8,168								
546 TNCTR-NORTH 13KV																				
547 TNCTR-PRECISION																				
548 TNCTR-SOUTH 13KV	1	2									1	2								
549 TNCTR-SUNNYBROOK																				
550 TNCTR-VALLEY VW																				
551 TROJAN PLANT W																				
552 TROJAN PLNT E																				
553 TUALATIN 13KV																				
554 TUALATIN-AVERY	4	396	4	396																
555 TUALATIN-CIPOLE																				
556 TUALATIN-HERMAN																				
557 TUALATIN-IBACH	3	15	1	10					1	2	1	2								
558 TUALATIN-LEVETON																				
559 TURNER 13KV	5	268							2	4	1	232	1	29					1	3

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2012 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
560 TURNER-CASCADE	6	510	1	5					3	4	1	2							1	499
561 TWILIGHT-BREMER	7	89	1	9					5	79									1	1
562 UNIONVALE 13KV	26	1,194	2	246					13	50	7	881			3	15			1	3
563 UNIVRSITY-MILL																				
564 UNIVRSITY-TRADE	1	2												1	2					
565 URBAN-BARBUR	1	15							1	15										
566 URBAN-CAMPUS																				
567 URBAN-CORBETT	3	2,136							1	240					1	8	1	1,889		
568 URBAN-GAINES																				
569 URBAN-GIBBS	1	1							1	1										
570 URBAN-KELLY	1	1							1	1										
571 URBAN-LANDING	1	1							1	1										
572 URBAN-MEDICAL																				
573 URBAN-OHSU																				
574 W PTLD 13KV	1	18							1	18										
575 W PTLD-72ND	3	72	1	68					2	4										
576 W PTLD-NORTH	2	91							1	11	1	80								
577 W PTLD-PACIFIC	6	584	1	89			2	190	2	29	1	276								
578 W UNION 13KV	12	2,665	9	2,379			3	286												
579 W UNION-CORNELS	20	973	4	307					6	106	5	539	1	2	4	20				
580 WACKER																				
581 WACONDA 13KV	14	2,239	1	2,214					11	19					1	3			1	2
582 WACONDA-NORPAC																				
583 WACONDA-RIVER RD	9	20							7	14	2	6								
584 WALLACE RD 13KV	5	51	1	6					4	44										
585 WELCHES 13KV	10	693	1	36					6	504	1	2			2	151				
586 WELCHES-ZIG ZAG	9	929							1	4	3	336			4	65			1	524
587 WEST LINN PAPER																				
588 WILLAMINA-BRIDGE	8	6,508					1	8	3	42	1	2			2	44	1	6,411		
589 WILLAMINA-BUELL	4	5,840							3	8							1	5,832		
590 WILLAMINA-LUMBER																				
591 WILLBRDG #1	2	9							1	3					1	6				
592 WILLBRDG #4																				
593 WILSV-BOECKMAN	7	365	4	156					2	15	1	194								
594 WILSV-CHARBNEAU	7	1,125	1	87					3	690	2	347							1	1

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2012 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
595 WILSV-CITY																				
596 WILSV-DAMMASCH																				
597 WILSV-HOLIDAY	3	51					1	4	1	43	1	4								
598 WILSV-MENTORTEK																				
599 WILSV-PARKWAY																				
600 WILSV-VILLEBOIS																				
601 WILSV-WEST	4	192	2	188					2	5										
602 WOODBURN-CANNERY	3	92	1	83					1	3	1	6								
603 WOODBURN-EAST	3	6	1	3					1	2	1	1								
604 WOODBURN-TOMLIN	5	199	2	193					3	6										
605 WOODBURN-WEST																				
606 YAMHILL 13KV	17	200	2	28			1	1	11	148	2	9			1	13				
607 YAMHILL-CARLTON	12	520					1	90	6	15	1	23	1	368	3	24				
Grand Total:	2,128	325,982	437	69,383	5	211	138	18,337	832	24,649	256	69,267	39	6,167	261	12,408	32	109,449	128	16,111

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SECTION VII
OUTAGES BY VEGETATION
For 2012

This section is an analysis by feeder of all outages involving trees.

Tree Cut/Felled – This is an outage caused by someone falling a tree or working in a tree. This is caused by someone’s negligence and is addressed through our safety campaign (vs tree trimming program).

Tree Uproot – These are outages which whole trees uproot vs a broken tree part (like a limb or a top).

Tree Burning – This is an outage caused by a tree growing into the conductor. This is also referred to as “preventable”.

2012 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	3	697	3	697			3	697				
3	ABERNETHY-TRANSIT	1	1	1	1			1	1				
4	ALDER CT-IRVING												
5	ALDER CT-STARK												
6	ALDER CT-YAMHILL												
7	AMITY 13KV	2	49	2	49			2	49				
8	AMITY-BELLEVUE	3	682	3	682			3	682				
9	ARLETA-52ND ST												
10	ARLETA-FOSTER												
11	ARLETA-HAROLD												
12	ARLETA-POWELL												
13	ARLETA-STEELE	3	424	3	424			3	424				
14	B LAKE-SUNDIAL												
15	B LAKE-TOYOTNSO												
16	BANKS 13KV	1	40	1	40			1	40				
17	BANKS-CEDAR CYN	13	2,161	13	2,161	1	157	11	2,000	1	5		
18	BARNES-BATTLCKR												
19	BARNES-BOONE	2	132	2	132			2	132				
20	BARNES-COMMERCL	4	366	4	366			4	366				
21	BARNES-SUNNYSID												
22	BEAVER PLNT-B&P												
23	BELL-FLAVEL	1	32	1	32			1	32				
24	BELL-JOHNSEN CRK												
25	BELL-KENDALL	1	148	1	148			1	148				
26	BELL-KING												
27	BELL-SOUTHGATE												
28	BELL-WICHITA	2	529	2	529			2	529				
29	BELMONT 4KV												
30	BETHANY-BURTON												
31	BETHANY-GERMANTOWN	7	1,794	7	1,794	1	264	6	1,530				
32	BETHANY-KAISER												
33	BETHANY-LAIDLAW	2	58	2	58			2	58				

Hrs - # of customers * duration hrs Outs = Outages

2012 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-SPRINGVILLE												
35	BETHANY-THOMPSON												
36	BETHEL-FRUTLAND	1	6	1	6			1	6				
37	BETHEL-GEER	7	177	7	177			7	177				
38	BETHEL-MCLAY	3	250	3	250			3	250				
39	BLUE LAKE 13 KV												
40	BOISE CASC WR-1												
41	BOONS-GOODALL	2	4,004	2	4,004			2	4,004				
42	BOONS-KRUSEWAY												
43	BOONS-LK GROVE	5	350	5	350	1	2	4	348				
44	BOONS-MT PARK												
45	BOONS-WMBLY PK												
46	BORING-282ND AV	1	59	1	59			1	59				
47	BORING-CITY												
48	BORING-TELFORD	5	295	5	295			5	295				
49	BRIGHTWD 13KV	12	1,048	12	1,048	1	18	11	1,030				
50	BRIGHTWD-N BANK	6	4,237	6	4,237	1	2,247	5	1,989				
51	BROOKLYN 4KV												
52	BROOKWOOD 13KV	1	1,953	1	1,953			1	1,953				
53	BROOKWOOD-BRWCK												
54	BROOKWOOD-SUNRS	1	51	1	51			1	51				
55	BVRTN-ALLEN	4	670	4	670			4	670				
56	BVRTN-JAMIESON	1	59	1	59			1	59				
57	BVRTN-NORTHWEST												
58	BVRTN-W SLOPE												
59	CANBY-13643	4	244	4	244			4	244				
60	CANBY-13644	2	78	2	78			2	78				
61	CANBY-BUTTEVLE	2	4	2	4			2	4				
62	CANYON 13KV	7	360	7	360			7	360				
63	CANYON-13114												
64	CANYON-13115												
65	CANYON-13116												
66	CANYON-13117												

Hrs - # of customers * duration hrs Outs = Outages

2012 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											
80	CANYON-23RD AVE	7	3,439	7	3,439			7	3,439			
81	CANYON-BURNSIDE											
82	CARVER 13 KV											
83	CARVER-ALMOND	1	1,583	1	1,583			1	1,583			
84	CARVER-NORTH	1	2,000	1	2,000			1	2,000			
85	CARVER-RIVRBEND											
86	CARVER-SOUTH											
87	CARVER-WOODS	2	17	2	17			2	17			
88	CEDAR HILLS 13KV											
89	CEDAR-LEAHY	1	220	1	220			1	220			
90	CEDAR-SHOP CEN	12	996	12	996			12	996			
91	CEDAR-SKYLINE	1	98	1	98			1	98			
92	CEDAR-ST VINCNT	1	455	1	455			1	455			
93	CEDAR-SYLVAN	3	480	3	480			3	480			
94	CLACK-EVELYN											
95	CLACK-GLADSTONE	3	142	3	142	1	4	2	137			
96	CLACK-JENNIFER											
97	CLACK-TOLBERT											
98	CLAXTAR 13KV											
99	CLAXTAR-HAYSVIL											

Hrs - # of customers * duration hrs Outs = Outages

2012 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
100 CLAXTAR-RIDGE												
101 CNTNNIL 13KV	2	241	2	241			2	241				
102 CNTNNIL-BARKER												
103 CNTNNIL-BRACRFT												
104 CNTNNIL-TREEAND	3	4,717	3	4,717			3	4,717				
105 COFFEE CREEK-FREEMAN												
106 COFFEE CREEK-HOLIDAY												
107 COLTON-DHOOGHE	10	1,642	10	1,642			10	1,642				
108 COLTON-GRAYS HL	11	2,941	11	2,941	1	24	10	2,918				
109 COLUMBIA PK 4KV												
110 CORNELIUS 13KV	6	2,548	6	2,548	1	8	5	2,539				
111 CORNELIUS-ADAIR	1	316	1	316			1	316				
112 CORNELIUS-VRBRT	2	41	2	41			2	41				
113 CRPUD-KASTER												
114 CRPUD-SAUVIE IS												
115 CULVER 13KV												
116 CULVER-GAFFIN												
117 CULVER-SANYO #1												
118 CULVER-SANYO #2												
119 CURTIS 13KV	1	34	1	34	1	34						
120 CURTIS-11077												
121 DANA 4KV												
122 DAYTON-EAST	10	1,592	10	1,592			10	1,592				
123 DAYTON-LAFAYETT	5	101	5	101			5	101				
124 DAYTON-S AND W	4	229	4	229			4	229				
125 DELAWARE #1 4KV												
126 DELAWARE-DENVER	2	10	2	10	1	5	1	5				
127 DELAWARE-INTER												
128 DELAWARE-LOMBRD												
129 DENNY-EAST	2	140	2	140			2	140				
130 DENNY-NORTH	1	505	1	505			1	505				
131 DENNY-SOUTH	2	204	2	204	1	168	1	36				
132 DENNY-WEST	4	1,134	3	492	1	257	2	234			1	642

Hrs - # of customers * duration hrs Outs = Outages

2012 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	DILLEY-13KV	3	1,501	3	1,501			3	1,501				
134	DILLEY-SPRINGHL												
135	DUNNS C 13 KV	5	945	5	945			5	945				
136	DUNNS C-KELSO												
137	DURHAM 13KV												
138	DURHAM POOPLANT												
139	DURHAM-BONITA												
140	DURHAM-BRIDGEPORT												
141	DURHAM-SATTTLER	1	306	1	306			1	306				
142	DURHAM-SOUTH												
143	E WATER 4KV												
144	E-11021												
145	E-11039												
146	E-11040												
147	E-11041												
148	E-11042												
149	E-11043												
150	E-11047												
151	E-11064												
152	E-13139												
153	E-13140												
154	E-13141												
155	E-13144	2	35	2	35			2	35				
156	E-13145												
157	E-13148												
158	E-13149												
159	E-13150												
160	EAGLE CR-BARTON	3	444	3	444			3	444				
161	EAGLE CR-RIVRML	5	214	5	214			5	214				
162	EASTPORT-76TH	2	62	2	62			2	62				
163	EASTPORT-PLAZA	2	917	2	917			2	917				
164	ELMA 13KV	1	192	1	192			1	192				
165	ELMA-4 CORNERS												

Hrs - # of customers * duration hrs Outs = Outages

2012 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	ELMA-HUDSON												
167	ELMA-STATE 13KV												
168	ESTACADA 13KV	7	526	7	526	5	333	2	194				
169	ESTACADA-FARADY	28	2,240	28	2,240	2	9	26	2,230				
170	FAIRMT-CNDLARIA	1	13	1	13			1	13				
171	FAIRMT-MISSION	6	3,249	6	3,249	2	700	4	2,549				
172	FAIRVIEW 13 KV												
173	FAIRVIEW-CLRCK												
174	FAIRVIEW-K CLUB	3	2,174	3	2,174	1	2,120	2	53				
175	FAIRVIEW-TROUTD												
176	FAIRVIEW-W VILL	2	1,466	2	1,466			2	1,466				
177	FARGO 13KV	6	1,583	6	1,583			5	1,564	1	19		
178	FORESTEX 4 KV												
179	G HOME-MCKAY	1	4	1	4			1	4				
180	G HOME-METZGER	5	2,481	5	2,481	1	22	4	2,459				
181	GALES CRK 13KV	19	1,310	19	1,310	2	59	17	1,250				
182	GLENCOE-GLISAN	2	1,472	2	1,472			2	1,472				
183	GLENCOE-PROVID												
184	GLENCOE-SUNNY												
185	GLISAN-FAB 2A												
186	GLISAN-UTIL 1B												
187	GLNCLN-BRIDLMIL	10	1,252	10	1,252			10	1,252				
188	GLNCLN-SUNSET	3	49	3	49			3	49				
189	GLNDOVEER-13596	1	103	1	103			1	103				
190	GLNDOVEER-13597	1	107	1	107			1	107				
191	GLNDOVEER-13598	1	24	1	24			1	24				
192	GLNDOVEER-13599	2	26	1	3	1	3					1	23
193	GLNDOVEER-CLFGT												
194	GLNDOVEER-NEAST	1	58	1	58			1	58				
195	GRAND AV 4KV												
196	GRND RND-AGENCY	2	329	2	329			2	329				
197	GRND RND-FORTHL	7	736	7	736	1	13	6	723				
198	HABRTN-BURLINTN	22	4,796	22	4,796	1	1,448	21	3,348				

Hrs - # of customers * duration hrs Outs = Outages

2012 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
199	HABRTN-LINNTON	4	427	4	427			4	427				
200	HARBORTON 13KV												
201	HARMONY 13KV												
202	HARMONY-INTERNATIONAL												
203	HARMONY-LAKE												
204	HARMONY-LINNWOD	1	3,044	1	3,044			1	3,044				
205	HARMONY-MILWAKI	5	3,712	5	3,712			5	3,712				
206	HARMONY-THIESEN												
207	HARRISON 13KV												
208	HARRISON-DAVIS												
209	HARRISON-IVON												
210	HAWTHORNE 4KV												
211	HEMLOCK 13KV												
212	HEMLOCK-FREMONT												
213	HEMLOCK-MASON												
214	HILLCREST 13KV												
215	HILLCREST-CASCADIA												
216	HILLCREST-REED	2	239	2	239			2	239				
217	HILLCREST-SOUTH												
218	HILLS-DAIRY CREEK	1	3,080	1	3,080			1	3,080				
219	HILLS-DENNIS												
220	HILLS-JACKSON	11	5,420	11	5,420	1	168	9	5,247	1	4		
221	HILLS-LAUREL	13	1,354	13	1,354			13	1,354				
222	HILLS-SCHOLLS												
223	HOGAN N 13KV	5	1,200	5	1,200	1	1,077	4	124				
224	HOGAN N-BRGDOON												
225	HOGAN N-LINKS	8	5,603	8	5,603	1	5,369	7	233				
226	HOGAN N-SLQUIST	2	2,903	2	2,903			2	2,903				
227	HOGAN S-CLEVLND												
228	HOGAN S-LAWRNCE	4	12,649	4	12,649			4	12,649				
229	HOGAN S-MAIN												
230	HOGAN S-PAROPA	1	35	1	35			1	35				
231	HOGAN S-WALLULA												

Hrs - # of customers * duration hrs Outs = Outages

2012 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>
232	HOLGATE 13KV											
233	HOLGATE-BYBEE											
234	HOLGATE-GIDEON											
235	HOLGATE-KENLWOR											
236	HOLGATE-RHONE											
237	HUBER 13KV	1	16	1	16			1	16			
238	HUBER-BANY											
239	HUBER-FRMINGTON											
240	HUBER-KINNAMON	2	943	2	943			2	943			
241	HUBER-MARYVILLE	3	250	3	250			3	250			
242	HUGHES-ORC HTS	1	1,614	1	1,614			1	1,614			
243	HYDN IS-MALAND	1	305	1	305			1	305			
244	HYDN IS-N SHORE	1	679	1	679			1	679			
245	HYDN IS-S SHORE											
246	INDIAN-KEIZER	1	58	1	58			1	58			
247	INDIAN-LABISH	2	7	2	7			2	7			
248	INDIAN-NORTH	1	267	1	267			1	267			
249	INDIAN-STATION											
250	INDIAN-WEST	1	145	1	145			1	145			
251	ISLAND 13KV	1	8,769	1	8,769			1	8,769			
252	ISLAND-13180	2	218	2	218			2	218			
253	ISLAND-13187	3	408	3	408			3	408			
254	ISLAND-13188	5	92	5	92			5	92			
255	JEN LDG 13KV	4	203	4	203	1	156	3	47			
256	JEN LDG-MELDRUM	5	57	5	57			5	57			
257	JEN LDG-O GROVE	3	1,994	3	1,994			3	1,994			
258	JEN LDG-WEBSTER	3	3,324	3	3,324			3	3,324			
259	KELLEY POINT-LEDBETTER											
260	KELLEY POINT-SOLARI											
261	KELLEY POINT-SOLAR2											
262	KELLEY PT 13 KV											
263	KING CTY-BULL MT											
264	KING CTY-FISCHER	1	2,070	1	2,070			1	2,070			

Hrs - # of customers * duration hrs Outs = Outages

2012 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	KING CTY-HAZEL B												
266	KING CTY-NORTH	1	55	1	55			1	55				
267	KING CTY-SUMERFL												
268	KLY BU-BINNSMED												
269	KLY BU-FAIRLAWN												
270	KLY BU-MALL 205												
271	KLY BU-MC GREW	2	39	2	39			2	39				
272	KLY PT-MARINEDR												
273	KLY PT-SIMMONS												
274	LAKE LABISH 4KV												
275	LAURELHURST 4KV												
276	LELAND-BEAVERC	7	1,192	7	1,192	1	334	6	858				
277	LELAND-CARUS	31	3,864	31	3,864			31	3,864				
278	LELAND-KELM	2	2,726	2	2,726			2	2,726				
279	LENTS-13101	1	114	1	114			1	114				
280	LENTS-HAPPY VAL	3	7	3	7			3	7				
281	LENTS-MT SCOTT												
282	LENTS-NORTH												
283	LIB-BROWNING												
284	LIB-LONE OAK												
285	LIB-MORNINGSIDE	1	58	1	58			1	58				
286	LIB-ROSEDALE	8	5,273	8	5,273	1	130	7	5,144				
287	LIB-VISTA	1	34	1	34			1	34				
288	LIBERAL 13KV	4	189	4	189			4	189				
289	LIBERAL-SAWMILL												
290	LIBERTY-SKYLINE	5	522	5	522			4	462	1	60		
291	MAIN-AIRPORT												
292	MAIN-BENTLEY	1	5	1	5			1	5				
293	MAIN-EXPRESS	1	739	1	739			1	739				
294	MAIN-GRIFFIN												
295	MAIN-JFS1												
296	MAIN-JONES FARM												
297	MAIN-RVR RD	1	51	1	51			1	51				

Hrs - # of customers * duration hrs Outs = Outages

2012 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	MAXIM 13KV												
299	MC CL-COTTAGE												
300	MC CL-FRONT ST												
301	MC CL-HOLLYWOOD												
302	MCGILL-LSIAIRIA												
303	MCMINNVILLE W AND L												
304	MERIDIAN 13KV	4	311	4	311	1	175	3	137				
305	MERIDIAN-65TH												
306	MERIDIAN-BORLND	2	25	2	25	2	25						
307	MERIDIAN-CHILDS												
308	MERIDIAN-LAKEVIEW												
309	MERIDIAN-NYBERG												
310	MERIDIAN-PLKNGTN												
311	MERIDIAN-SAGERT												
312	MIDGROVE-BROWN												
313	MIDGROVE-CHEMEK												
314	MIDGROVE-CORDON	3	62	3	62			3	62				
315	MIDGROVE-SWEGLE												
316	MIDGROVE-WEST												
317	MIDWAY-DIVISION	2	657	2	657			1	541	1	117		
318	MIDWAY-DOUGLAS												
319	MIDWAY-LYNCH	1	9	1	9			1	9				
320	MIDWAY-POWELHST	1	85	1	85			1	85				
321	MILL CREEK 13KV												
322	MILL CREEK-EASTLAND	5	791	5	791			5	791				
323	MILL CREEK-KUEBLER												
324	MOLALLA-BUCKAROO												
325	MOLALLA-FOREST	14	195	14	195			14	195				
326	MOLALLA-MARQUAM	19	2,841	19	2,841	3	1,222	16	1,619				
327	MOLALLA-YODER	1	20	1	20			1	20				
328	MRKT ST-ENGLEWD	3	763	3	763			3	763				
329	MRKT ST-FAIRGND												
330	MRKT ST-HAWTHNE												

Hrs - # of customers * duration hrs Outs = Outages

2012 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
331	MRKT ST-PARK	2	124	2	124			2	124			
332	MT ANGEL-EAST	2	7	2	7	1	1	1	6			
333	MT ANGEL-WEST	2	5	2	5			2	5			
334	MT PLS-CLAIRMONT	1	51	1	51			1	51			
335	MT PLS-MT VIEW	1	156	1	156			1	156			
336	MT PLS-RIVRCRST	2	444	2	444			2	444			
337	MT PLS-SOUTHEND	3	90	3	90			3	90			
338	MULINO-NORTH											
339	MULINO-SOUTH	6	1,821	6	1,821			6	1,821			
340	MULTNOMAH 13KV											
341	MULTNOMAH-13176	1	1,373	1	1,373			1	1,373			
342	MULTNOMAH-13177											
343	MULTNOMAH-13181	2	42	2	42			2	42			
344	MURRAYHILL 13KV	1	7,097	1	7,097			1	7,097			
345	MURRAYHL-KINTON	1	5	1	5			1	5			
346	MURRAYHL-QUARRY											
347	MURRAYHL-REUSER											
348	MURRAYHL-TEAL	2	457	1	433			1	433	1	24	
349	N MARION FRONT											
350	N MARION-CROSBY											
351	N MARION-HUBBRD	1	88	1	88			1	88			
352	N MARION-MCLARN	3	70	3	70			2	7	1	62	
353	N PLAINS 13KV	8	265	8	265			8	265			
354	N PLAINS-M HILL	11	1,109	11	1,109			11	1,109			
355	NEWBERG-CHEHALM	5	874	5	874			5	874			
356	NEWBERG-COLLEGE	1	3,781							1	3,781	
357	NEWBERG-DUNDEE	5	237	5	237			4	232	1	5	
358	NEWBERG-HOOVR PK											
359	NORTHERN-11009											
360	NORTHERN-11016											
361	NORTHERN-11071											
362	OAK HILLS 13KV	3	236	3	236			3	236			
363	OAK HILLS-5 OAK											

Hrs - # of customers * duration hrs Outs = Outages

2012 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 OAK HILLS-BRIER												
365 OAK HILLS-SMRST	1	280	1	280			1	280				
366 OAK HILLS-WLKRD												
367 OCKLEY GRN 4KV												
368 OK GRV-LK HARRT	1	34	1	34			1	34				
369 OK GRV-WT WATER												
370 OREGON STEEL 13												
371 ORENCO 13KV												
372 ORENCO PRIMATE	1	1	1	1			1	1				
373 ORENCO-231ST												
374 ORENCO-AMBRGLEN												
375 ORENCO-BASELINE												
376 ORENCO-WILKINS												
377 ORIENT 13KV	13	459	13	459			13	459				
378 ORIENT-BARLOW	9	2,528	9	2,528	2	294	7	2,233				
379 OSWEGO-IRON MTN	3	522	3	522			3	522				
380 OSWEGO-MARYLHST	2	179	2	179			2	179				
381 OSWEGO-PALATINE	5	762	5	762			5	762				
382 OSWEGO-STAFFORD												
383 OXFORD 13KV												
384 OXFORD-FAIRVIEW												
385 OXFORD-LEE												
386 OXFORD-MADRONA												
387 OXFORD-RURAL												
388 OXFORD-SHELTON												
389 PELTON-ROUND BUTTE												
390 PENIN PARK 4KV												
391 PLSNT VALY 13KV	3	279	3	279	1	27	2	252				
392 PLSNT VALY-BXTR	7	620	7	620			7	620				
393 PLSNT VALY-MOON												
394 PLSNT VALY-SUN	8	1,718	8	1,718			8	1,718				
395 PORTLAND GRD W PUMPING												
396 PORTSMTH-CARB												

Hrs - # of customers * duration hrs Outs = Outages

2012 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	PORTSMTH-DISP												
398	PORTSMTH-WILL	1	136	1	136			1	136				
399	PRGRS-GREENBURG												
400	PRGRS-HALL												
401	PRGRS-ROBINSON												
402	PRGRS-SAWYER	3	6	3	6			3	6				
403	PRGRS-WSH SQ #1												
404	PRGRS-WSH SQ #2												
405	RAL H-DOGWOOD	3	38	3	38			3	38				
406	RAL H-MONTCLAIR	2	102	2	102			2	102				
407	RAL H-OLESON RD												
408	RAMAPO 13KV	7	768	7	768			7	768				
409	RAMAPO-GILBERT												
410	REDLAND 13KV	22	4,910	22	4,910	1	1	21	4,909				
411	REDLAND-HENRICI	18	2,787	18	2,787	2	432	16	2,355				
412	REED-BLANTON												
413	REED-HAZELDALE	3	215	3	215			3	215				
414	REED-INTEL #1												
415	REED-INTEL #2												
416	REED-INTEL #3												
417	REED-INTEL #4												
418	REED-TV HWY												
419	ROCKWD 13KV	3	27	3	27			3	27				
420	ROCKWD-AIRPT WY												
421	ROCKWD-BOEING												
422	ROCKWD-INDUSTRL												
423	ROCKWD-REYNOLDS												
424	ROCKWD-WILKES												
425	ROSEWAY 13 KV												
426	ROSEWAY-ALEXNDR												
427	ROSEWAY-ESPLANA												
428	ROUND BUTTE SPILLWAY												
429	RUBY-13502												

Hrs - # of customers * duration hrs Outs = Outages

2012 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>
430 RUBY-13503												
431 RVRGATE-11010												
432 RVRGATE-11011												
433 RVRGATE-PEARCY												
434 RVRGATE-SWIFT												
435 RVRVIW-FULTON	2	4,560	2	4,560			2	4,560				
436 RVRVIW-MACADAM												
437 RVRVIW-TWILLIGR	3	361	3	361			3	361				
438 SALEM-13260												
439 SALEM-13261												
440 SALEM-13262												
441 SALEM-13263												
442 SALEM-13264												
443 SALEM-UNION												
444 SANDY 13KV	15	1,101	15	1,101	1	18	14	1,083				
445 SANDY-362ND	3	539	3	539	1	435	2	104				
446 SANDY-BLUFF	1	90	1	90			1	90				
447 SANDY-WILDCAT	8	34,884	8	34,884	1	88	7	34,797				
448 SCHNITZER 11KV												
449 SCHOLLS FERRY-KEMMER RD	1	3	1	3			1	3				
450 SCHOLLS FERRY-RAINBOW	13	1,361	13	1,361			13	1,361				
451 SCHOLLS FERRY-ROY ROGERS	2	18	2	18			2	18				
452 SCOGG-CHERRY G	5	1,021	5	1,021			5	1,021				
453 SCOGG-LAUREL W	4	119	4	119			4	119				
454 SCOTSMILL 13KV	26	5,345	25	5,305	2	1	23	5,304	1	41		
455 SELLWD 13KV	3	92	3	92			3	92				
456 SELLWD-KELOG PK												
457 SELLWD-WAVERLY	3	5,238	3	5,238			3	5,238				
458 SHERIDAN EAST	1	2	1	2			1	2				
459 SHERIDAN-KADELL	5	1,641	5	1,641			5	1,641				
460 SILVERTON-NORTH												
461 SILVERTON-SOUTH	10	2,358	10	2,358	2	42	7	2,313	1	4		
462 SILVERTON-WEST	12	1,118	12	1,118			12	1,118				

Hrs - # of customers * duration hrs Outs = Outages

2012 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
463 SIX COR-13359	7	1,938	7	1,938			7	1,938				
464 SIX COR-13360												
465 SIX COR-BORCHER	6	150	6	150			6	150				
466 SIX COR-CHAPMAN	4	222	3	154	1	8	2	146			1	67
467 SIX CORNER-13KV												
468 SMURFIT-NEWBERG												
469 SMURFIT-OC 13KV												
470 SPRING HILL 4 KV												
471 SPRINGBK-FERNWD	2	189	2	189			2	189				
472 SPRINGBK-STPAUL	8	835	8	835	1	66	7	769				
473 SPRINGBK-VILLA												
474 SPRINGBK-ZIMRI	4	473	4	473			4	473				
475 ST LOUIS-EAST												
476 ST LOUIS-NORTH												
477 ST LOUIS-WEST	8	59	8	59			6	28	2	31		
478 ST MARY 13KV												
479 ST MARY-BETHANY												
480 ST MARY-BUTNER	3	131	3	131	2	58	1	73				
481 ST MARY-ELMONIC												
482 ST MARY-JENKINS												
483 ST MARY-MILLIKN												
484 STEPHN-11001												
485 STEPHN-11020												
486 STEPHN-11054												
487 STEPHN-11055												
488 STEPHN-11092												
489 STEPHN-11093												
490 STEPHN-11094												
491 STEPHN-11095												
492 STEPHN-11097												
493 STEPHN-11098												
494 STEPHN-11099												
495 SULL-ROBINWOOD	2	54	2	54			2	54				

Hrs - # of customers * duration hrs Outs = Outages

2012 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
496 SULL-SALAMO	4	341	4	341	1	176	3	165				
497 SULL-SUSSEX	5	299	5	299			5	299				
498 SULL-WILLAMETTE	7	3,720	7	3,720			7	3,720				
499 SULLIVAN-TANNER	1	94	1	94			1	94				
500 SULZER 115A												
501 SULZER 115B												
502 SULZER BINGHAM												
503 SUMMIT-GOVT CAMP												
504 SUMMIT-MEADOWS	1	2	1	2			1	2				
505 SUMMIT-SUMMIT	2	57	2	57			2	57				
506 SUNSET-BLANCHET												
507 SUNSET-COLFAX												
508 SUNSET-CORNELL												
509 SUNSET-D1B1												
510 SUNSET-D1X1												
511 SUNSET-DORION												
512 SUNSET-IDTB												
513 SUNSET-KOMATSU												
514 SUNSET-LANE												
515 SUNSET-MCCALL												
516 SUNSET-MEEK												
517 SUNSET-PAULING												
518 SUNSET-SPALDING												
519 SUNSET-WHITMAN												
520 SUNSET-YOUNG												
521 SWAN IS-BASIN												
522 SWAN IS-DOLPHIN												
523 SWAN IS-FREIGHTLINER												
524 SWAN IS-GOING	1	2	1	2			1	2				
525 SWAN IS-SHIPYRD												
526 SYLVAN-BARNES	8	1,077	8	1,077			8	1,077				
527 SYLVAN-PATTON	3	4,057	3	4,057			3	4,057				
528 TABOR 13KV												

Hrs - # of customers * duration hrs Outs = Outages

2012 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	TABOR-82ND AV												
530	TABOR-HOSPITAL												
531	TEK 13KV												
532	TEK-HOCKEN												
533	TEK-NORTH												
534	TEK-SHANNON	3	493	3	493	1	252	2	241				
535	TEK-SOUTH	2	198	2	198			2	198				
536	TEK-WEST												
537	TEMP-NORTH												
538	TEMP-SOUTH												
539	TIGARD - 13 KV												
540	TIGARD-13336												
541	TIGARD-13337	1	152	1	152			1	152				
542	TIGARD-13361	2	454	2	454			2	454				
543	TIGARD-13362	1	10	1	10			1	10				
544	TNCTR-LAWNFIELD												
545	TNCTR-MONTEREY												
546	TNCTR-NORTH 13KV												
547	TNCTR-PRECISION												
548	TNCTR-SOUTH 13KV												
549	TNCTR-SUNNYBROOK												
550	TNCTR-VALLEY VW												
551	TROJAN PLANT W												
552	TROJAN PLNT E												
553	TUALATIN 13KV												
554	TUALATIN-AVERY												
555	TUALATIN-CIPOLE												
556	TUALATIN-HERMAN												
557	TUALATIN-IBACH	1	1,844	1	1,844			1	1,844				
558	TUALATIN-LEVETON												
559	TURNER 13KV	4	987	4	987			4	987				
560	TURNER-CASCADE	3	673	3	673			3	673				
561	TWILIGHT-BREMER	6	162	6	162	1	78	5	84				

Hrs - # of customers * duration hrs Outs = Outages

2012 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	UNIONVALE 13KV	12	514	12	514			12	514				
563	UNIVRSITY-MILL												
564	UNIVRSITY-TRADE	1	7	1	7			1	7				
565	URBAN-BARBUR												
566	URBAN-CAMPUS												
567	URBAN-CORBETT												
568	URBAN-GAINES	4	7,222	4	7,222	1	5,586	3	1,636				
569	URBAN-GIBBS												
570	URBAN-KELLY												
571	URBAN-LANDING												
572	URBAN-MEDICAL												
573	URBAN-OHSU												
574	W PTL D 13KV	2	90	2	90			2	90				
575	W PTL D-72ND												
576	W PTL D-NORTH												
577	W PTL D-PACIFIC	2	121	2	121			2	121				
578	W UNION 13KV												
579	W UNION-CORNELS	16	3,315	16	3,315	4	1,959	12	1,355				
580	WACKER												
581	WACONDA 13KV												
582	WACONDA-NORPAC												
583	WACONDA-RIVER RD	3	95	3	95			3	95				
584	WALLACE RD 13KV	7	149	7	149	1	8	6	141				
585	WELCHES 13KV	13	3,950	13	3,950			13	3,950				
586	WELCHES-ZIG ZAG	25	5,371	25	5,371	1	39	24	5,332				
587	WEST LINN PAPER												
588	WILLAMINA-BRIDGE	4	1,244	4	1,244	1	78	3	1,166				
589	WILLAMINA-BUELL	2	323	2	323			1	159	1	165		
590	WILLAMINA-LUMBER	1	51	1	51			1	51				
591	WILLBRDG #1												
592	WILLBRDG #4												
593	WILSV-BOECKMAN	2	66	2	66	1	4	1	63				
594	WILSV-CHARBNEAU	2	45	2	45			2	45				

Hrs - # of customers * duration hrs Outs = Outages

2012 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
595 WILSV-CITY												
596 WILSV-DAMMASCH												
597 WILSV-HOLIDAY	4	1,926	4	1,926			4	1,926				
598 WILSV-MENTORTEK												
599 WILSV-PARKWAY												
600 WILSV-VILLEBOIS												
601 WILSV-WEST	1	252	1	252			1	252				
602 WOODBURN-CANNERY												
603 WOODBURN-EAST												
604 WOODBURN-TOMLIN												
605 WOODBURN-WEST	2	23	2	23			2	23				
606 YAMHILL 13KV	6	1,343	6	1,343			6	1,343				
607 YAMHILL-CARLTON	10	7,369	10	7,369	1	493	9	6,876				
Grand Total:	1,096	303,804	1,090	299,227	71	26,695	1,008	272,060	11	471	6	4,577

Hrs - # of customers * duration hrs Outs = Outages

APPENDIX VIII

- 2012 Feeder List with January Counts & Feeder Changes
- Reliability Measure Definitions
- Cause Code Category
- PGE Service Territory Map

Parameter Selections

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
1	6105013	ABERN-CLACK HTS	CENTRAL	52	Urban	2012
2	6105023	ABERN-ORE CITY	CENTRAL	1,954	Urban	2012
3	6105033	ABERNETHY-TRANSIT	CENTRAL	2,369	Urban	2012
4	1118053	ALDER CT-IRVING	CENTRAL	1,776	Urban	2012
5	1118033	ALDER CT-STARK	CENTRAL	5,327	Urban	2012
6	1118073	ALDER CT-YAMHILL	CENTRAL	2,483	Urban	2012
7	2120013	AMITY 13KV	SOUTHERN	1,292	Rural	2012
8	2120023	AMITY-BELLEVUE	SOUTHERN	1,011	Remote	2012
9	1125013	ARLETA-52ND ST	CENTRAL	3,203	Urban	2012
10	1125033	ARLETA-FOSTER	CENTRAL	1,868	Urban	2012
11	1125023	ARLETA-HAROLD	CENTRAL	3,187	Urban	2012
12	1125043	ARLETA-POWELL	CENTRAL	3,313	Urban	2012
13	1125053	ARLETA-STEELE	CENTRAL	3,453	Urban	2012
14	5156033	B LAKE-SUNDIAL	EASTERN	505	Urban	2012
15	5156023	B LAKE-TOYOTNSO	EASTERN	20	Urban	2012
16	4135013	BANKS 13KV	WESTERN	614	Rural	2012
17	4135023	BANKS-CEDAR CYN	WESTERN	1,726	Rural	2012
18	2140043	BARNES-BATTLCRK	SOUTHERN	489	Urban	2012
19	2140013	BARNES-BOONE	SOUTHERN	1,718	Urban	2012
20	2140023	BARNES-COMMERCL	SOUTHERN	3,194	Rural	2012
21	2140033	BARNES-SUNNYSID	SOUTHERN	3,211	Urban	2012
22	4146013	BEAVER PLNT-B&P	WESTERN	1	Rural	2012
23	1155023	BELL-FLAVEL	CENTRAL	2,430	Urban	2012
24	1155013	BELL-JOHNSN CRK	CENTRAL	3	Urban	2012
25	1155053	BELL-KENDALL	CENTRAL	1,530	Urban	2012
26	1155063	BELL-KING	CENTRAL	2,260	Urban	2012
27	1155043	BELL-SOUTHGATE	CENTRAL	623	Urban	2012

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
28	1155033	BELL-WICHITA	CENTRAL	1,980	Urban	2012
29	1385011	BELMONT 4KV	CENTRAL	0	Urban	2012
30	4157043	BETHANY-BURTON	WESTERN	2,857	Urban	2012
31	4157013	BETHANY-GERMANTOWN	WESTERN	3,294	Urban	2012
32	4157023	BETHANY-KAISER	WESTERN	4,086	Urban	2012
33	4157053	BETHANY-LAIDLAW	WESTERN	2,463	Urban	2012
34	4157063	BETHANY-SPRINGVILLE	WESTERN	1,783	Urban	2012
35	4157033	BETHANY-THOMPSON	WESTERN	1,086	Urban	2012
36	2151023	BETHEL-FRUTLAND	SOUTHERN	2,762	Urban	2012
37	2151033	BETHEL-GEER	SOUTHERN	1,507	Rural	2012
38	2151013	BETHEL-MCLAY	SOUTHERN	1,807	Urban	2012
39	5156013	BLUE LAKE 13 KV	EASTERN	2,281	Urban	2012
40	4160913	BOISE CASC WR-1	WESTERN	2	Urban	2012
41	1170043	BOONS-GOODALL	WESTERN	1,697	Urban	2012
42	1170013	BOONS-KRUSEWAY	WESTERN	1,736	Urban	2012
43	1170033	BOONS-LK GROVE	WESTERN	2,243	Urban	2012
44	1170053	BOONS-MT PARK	WESTERN	2,538	Urban	2012
45	1170023	BOONS-WMBLY PK	WESTERN	1,510	Urban	2012
46	5177033	BORING-282ND AV	EASTERN	2,306	Rural	2012
47	5177023	BORING-CITY	EASTERN	1,352	Rural	2012
48	5177013	BORING-TELFORD	EASTERN	1,406	Rural	2012
49	5174013	BRIGHTWD 13KV	EASTERN	983	Remote	2012
50	5174023	BRIGHTWD-N BANK	EASTERN	790	Remote	2012
51	1385021	BROOKLYN 4KV	CENTRAL	0	Urban	2012
52	4185013	BROOKWOOD 13KV	WESTERN	907	Urban	2012
53	4185023	BROOKWOOD-BRWCK	WESTERN	2,573	Urban	2012
54	4185033	BROOKWOOD-SUNRS	WESTERN	1,925	Urban	2012

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2012 Feeder List with January Customer Counts

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
55	4150013	BVRTN-ALLEN	WESTERN	2,922	Urban	2012
56	4150023	BVRTN-JAMIESON	WESTERN	707	Urban	2012
57	4150033	BVRTN-NORTHWEST	WESTERN	1,295	Urban	2012
58	4150053	BVRTN-W SLOPE	WESTERN	2,176	Urban	2012
59	6190013	CANBY-13643	SOUTHERN	1,491	Rural	2012
60	6190023	CANBY-13644	SOUTHERN	441	Rural	2012
61	6190043	CANBY-BUTTEVLE	SOUTHERN	1,159	Rural	2012
62	1196013	CANYON 13KV	CENTRAL	1,587	Urban	2012
63	1196113	CANYON-13114	CENTRAL	3	Urban	2012
64	1196123	CANYON-13115	CENTRAL	7	Urban	2012
65	1196133	CANYON-13116	CENTRAL	3	Urban	2012
66	1196143	CANYON-13117	CENTRAL	15	Urban	2012
67	1196153	CANYON-13118PSU	CENTRAL	335	Urban	2012
68	1196163	CANYON-13119PSU	CENTRAL	144	Urban	2012
69	1196043	CANYON-13120	CENTRAL	1,585	Urban	2012
70	1196453	CANYON-13121	CENTRAL	4	Urban	2012
71	1196063	CANYON-13122	CENTRAL	517	Urban	2012
72	1196073	CANYON-13123	CENTRAL	197	Urban	2012
73	1196083	CANYON-13124	CENTRAL	126	Urban	2012
74	1196093	CANYON-13125	CENTRAL	157	Urban	2012
75	1196173	CANYON-13133	CENTRAL	92	Urban	2012
76	1196183	CANYON-13134	CENTRAL	94	Urban	2012
77	1196193	CANYON-13135	CENTRAL	18	Urban	2012
78	1196203	CANYON-13136	CENTRAL	10	Urban	2012
79	1196023	CANYON-21ST AVE	CENTRAL	2,859	Urban	2012
80	1196103	CANYON-23RD AVE	CENTRAL	2,944	Urban	2012
81	1196033	CANYON-BURNSIDE	CENTRAL	2,540	Urban	2012

Parameter Selections

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
82	5198013	CARVER 13 KV	EASTERN	2,019	Urban	2012
83	5198033	CARVER-ALMOND	EASTERN	1,956	Urban	2012
84	5198053	CARVER-NORTH	EASTERN	1,627	Urban	2012
85	5198023	CARVER-RIVRBEND	EASTERN	81	Urban	2012
86	5198063	CARVER-SOUTH	EASTERN	127	Urban	2012
87	5198043	CARVER-WOODS	EASTERN	2,958	Urban	2012
88	4200033	CEDAR HILLS 13KV	WESTERN	1	Urban	2012
89	4200063	CEDAR-LEAHY	WESTERN	2,621	Urban	2012
90	4200013	CEDAR-SHOP CEN	WESTERN	3,138	Urban	2012
91	4200043	CEDAR-SKYLINE	WESTERN	3,513	Urban	2012
92	4200053	CEDAR-ST VINCNT	WESTERN	120	Urban	2012
93	4200023	CEDAR-SYLVAN	WESTERN	2,576	Urban	2012
94	6205023	CLACK-EVELYN	CENTRAL	480	Urban	2012
95	6205013	CLACK-GLADSTONE	CENTRAL	2,891	Urban	2012
96	6205033	CLACK-JENNIFER	CENTRAL	585	Urban	2012
97	6205043	CLACK-TOLBERT	CENTRAL	1,279	Urban	2012
98	2207013	CLAXTAR 13KV	SOUTHERN	334	Urban	2012
99	2207023	CLAXTAR-HAYSVIL	SOUTHERN	1,955	Urban	2012
100	2207033	CLAXTAR-RIDGE	SOUTHERN	1,835	Urban	2012
101	5202033	CNTNNIL 13KV	EASTERN	3,338	Urban	2012
102	5202053	CNTNNIL-BARKER	EASTERN	2,760	Urban	2012
103	5202043	CNTNNIL-BRACRFT	EASTERN	1,921	Urban	2012
104	5202063	CNTNNIL-TREEAND	EASTERN	3,302	Urban	2012
105	4209023	COFFEE CREEK-FREEMAN	WESTERN	184	Urban	2012
106	4209013	COFFEE CREEK-HOLIDAY	WESTERN	342	Urban	2012
107	6208013	COLTON-DHOOGHE	SOUTHERN	595	Remote	2012
108	6208023	COLTON-GRAYS HL	SOUTHERN	1,069	Remote	2012

Parameter Selections

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
109	1215021	COLUMBIA PK 4KV	CENTRAL	730	Urban	2012
110	4210013	CORNELIUS 13KV	WESTERN	2,680	Rural	2012
111	4210033	CORNELIUS-ADAIR	WESTERN	967	Rural	2012
112	4210023	CORNELIUS-VRBRT	WESTERN	1,615	Rural	2012
113	9999023	CRPUD-KASTER	WESTERN	13	Remote	2012
114	9999013	CRPUD-SAUVIE IS	WESTERN	16	Remote	2012
115	2211143	CULVER 13KV	SOUTHERN	0	Urban	2012
116	2211113	CULVER-GAFFIN	SOUTHERN	0	Urban	2012
117	2211123	CULVER-SANYO #1	SOUTHERN	3	Urban	2012
118	2211133	CULVER-SANYO #2	SOUTHERN	0	Urban	2012
119	1212013	CURTIS 13KV	CENTRAL	1,889	Urban	2012
120	1212012	CURTIS-11077	CENTRAL	257	Urban	2012
121	1215011	DANA 4KV	CENTRAL	649	Urban	2012
122	4220013	DAYTON-EAST	SOUTHERN	1,423	Rural	2012
123	4220033	DAYTON-LAFAYETT	SOUTHERN	1,795	Rural	2012
124	4220023	DAYTON-S AND W	SOUTHERN	435	Rural	2012
125	1221011	DELAWARE #1 4KV	CENTRAL	507	Urban	2012
126	1221013	DELAWARE-DENVER	CENTRAL	3,314	Urban	2012
127	1221023	DELAWARE-INTER	CENTRAL	753	Urban	2012
128	1221033	DELAWARE-LOMBRD	CENTRAL	2,379	Urban	2012
129	4222043	DENNY-EAST	WESTERN	1,644	Urban	2012
130	4222013	DENNY-NORTH	WESTERN	422	Urban	2012
131	4222033	DENNY-SOUTH	WESTERN	3,011	Urban	2012
132	4222023	DENNY-WEST	WESTERN	2,697	Urban	2012
133	4223013	DILLEY-13KV	WESTERN	609	Rural	2012
134	4223023	DILLEY-SPRINGHL	WESTERN	1	Rural	2012
135	5218013	DUNNS C 13 KV	EASTERN	1,798	Rural	2012

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
136	5218023	DUNNS C-KELSO	EASTERN	341	Rural	2012
137	4224013	DURHAM 13KV	WESTERN	394	Urban	2012
138	4224913	DURHAM POOPLANT	WESTERN	3	Urban	2012
139	4224043	DURHAM-BONITA	WESTERN	693	Urban	2012
140	4224053	DURHAM-BRIDGEPORT	WESTERN	1,147	Urban	2012
141	4224023	DURHAM-SATTLER	WESTERN	2,331	Urban	2012
142	4224033	DURHAM-SOUTH	WESTERN	551	Urban	2012
143	1385031	E WATER 4KV	CENTRAL	79	Urban	2012
144	1225012	E-11021	CENTRAL	27	Urban	2012
145	1225022	E-11039	CENTRAL	1	Urban	2012
146	1225032	E-11040	CENTRAL	199	Urban	2012
147	1225042	E-11041	CENTRAL	302	Urban	2012
148	1225052	E-11042	CENTRAL	2	Urban	2012
149	1225062	E-11043	CENTRAL	56	Urban	2012
150	1225112	E-11047	CENTRAL	53	Urban	2012
151	1225122	E-11064	CENTRAL	17	Urban	2012
152	1225013	E-13139	CENTRAL	618	Urban	2012
153	1225023	E-13140	CENTRAL	1,941	Urban	2012
154	1225033	E-13141	CENTRAL	3,148	Urban	2012
155	1225083	E-13144	CENTRAL	2,611	Urban	2012
156	1225043	E-13145	CENTRAL	706	Urban	2012
157	1225053	E-13148	CENTRAL	1,469	Urban	2012
158	1225063	E-13149	CENTRAL	1,432	Urban	2012
159	1225073	E-13150	CENTRAL	936	Urban	2012
160	5230013	EAGLE CR-BARTON	EASTERN	866	Rural	2012
161	5230023	EAGLE CR-RIVRML	EASTERN	775	Rural	2012
162	1231023	EASTPORT-76TH	CENTRAL	3,226	Urban	2012

Parameter Selections

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
163	1231013	EASTPORT-PLAZA	CENTRAL	1,639	Urban	2012
164	2233013	ELMA 13KV	SOUTHERN	1,299	Urban	2012
165	2233023	ELMA-4 CORNERS	SOUTHERN	2,596	Urban	2012
166	2233043	ELMA-HUDSON	SOUTHERN	2,158	Urban	2012
167	2233033	ELMA-STATE 13KV	SOUTHERN	346	Urban	2012
168	5237023	ESTACADA 13KV	EASTERN	1,637	Rural	2012
169	5237013	ESTACADA-FARADY	EASTERN	3,363	Rural	2012
170	2250013	FAIRMT-CNDLARIA	SOUTHERN	2,869	Urban	2012
171	2250023	FAIRMT-MISSION	SOUTHERN	2,314	Rural	2012
172	5251053	FAIRVIEW 13 KV	EASTERN	1,456	Urban	2012
173	5251033	FAIRVIEW-CLRCK	EASTERN	283	Urban	2012
174	5251013	FAIRVIEW-K CLUB	EASTERN	2,523	Urban	2012
175	5251043	FAIRVIEW-TROUTD	EASTERN	3,571	Urban	2012
176	5251023	FAIRVIEW-W VILL	EASTERN	1,902	Urban	2012
177	2253013	FARGO 13KV	SOUTHERN	1,719	Rural	2012
178	4255911	FORESTEX 4 KV	WESTERN	4	Remote	2012
179	4276023	G HOME-MCKAY	WESTERN	2,705	Urban	2012
180	4276013	G HOME-METZGER	WESTERN	3,047	Urban	2012
181	4275013	GALES CRK 13KV	WESTERN	792	Rural	2012
182	1277013	GLENCOE-GLISAN	CENTRAL	4,701	Urban	2012
183	1277023	GLENCOE-PROVID	CENTRAL	1,028	Urban	2012
184	1277033	GLENCOE-SUNNY	CENTRAL	3,024	Urban	2012
185	5260013	GLISAN-FAB 2A	EASTERN	1	Urban	2012
186	5260083	GLISAN-UTIL 1B	EASTERN	1	Urban	2012
187	1278013	GLNCLN-BRIDLMIL	CENTRAL	2,697	Urban	2012
188	1278023	GLNCLN-SUNSET	CENTRAL	2,409	Urban	2012
189	5280013	GLNDOVEER-13596	EASTERN	882	Urban	2012

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
190	5280023	GLNDOVEER-13597	EASTERN	1,313	Urban	2012
191	5280033	GLNDOVEER-13598	EASTERN	1,955	Urban	2012
192	5280043	GLNDOVEER-13599	EASTERN	2,090	Urban	2012
193	5280053	GLNDOVEER-CLFGT	EASTERN	1,958	Urban	2012
194	5280063	GLNDOVEER-NEAST	EASTERN	1,560	Urban	2012
195	1385041	GRAND AV 4KV	CENTRAL	0	Urban	2012
196	2285033	GRND RND-AGENCY	SOUTHERN	509	Rural	2012
197	2285023	GRND RND-FORTH	SOUTHERN	710	Remote	2012
198	1310023	HABRTN-BURLINTN	CENTRAL	1,409	Rural	2012
199	1310033	HABRTN-LINNTON	CENTRAL	425	Urban	2012
200	1310013	HARBORTON 13KV	CENTRAL	13	Urban	2012
201	1313013	HARMONY 13KV	CENTRAL	1,470	Urban	2012
202	1313053	HARMONY-INTERNATIONAL	CENTRAL	1,028	Urban	2012
203	6313033	HARMONY-LAKE	CENTRAL	687	Urban	2012
204	1313033	HARMONY-LINNWOD	CENTRAL	2,240	Urban	2012
205	1313023	HARMONY-MILWAKI	CENTRAL	1,743	Urban	2012
206	1313043	HARMONY-THIESEN	CENTRAL	279	Urban	2012
207	1312053	HARRISON 13KV	CENTRAL	1,387	Urban	2012
208	1312043	HARRISON-DAVIS	CENTRAL	1,188	Urban	2012
209	1312013	HARRISON-IVON	CENTRAL	2,957	Urban	2012
210	1385051	HAWTHORNE 4KV	CENTRAL	310	Urban	2012
211	5317013	HEMLOCK 13KV	EASTERN	2,107	Urban	2012
212	5317023	HEMLOCK-FREMONT	EASTERN	1,482	Urban	2012
213	5317033	HEMLOCK-MASON	EASTERN	628	Urban	2012
214	2318023	HILLCREST 13KV	SOUTHERN	184	Urban	2012
215	2318033	HILLCREST-CASCADIA	SOUTHERN	7	Urban	2012
216	2318043	HILLCREST-REED	SOUTHERN	1,663	Urban	2012

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
217	2318223	HILLCREST-SOUTH	SOUTHERN	42	Urban	2012
218	4320013	HILLS-DAIRY CREEK	WESTERN	4,205	Rural	2012
219	4320053	HILLS-DENNIS	WESTERN	267	Rural	2012
220	4320033	HILLS-JACKSON	WESTERN	2,733	Urban	2012
221	4320023	HILLS-LAUREL	WESTERN	1,759	Rural	2012
222	4320043	HILLS-SCHOLLS	WESTERN	852	Urban	2012
223	5323043	HOGAN N 13KV	EASTERN	2,574	Rural	2012
224	5323023	HOGAN N-BRGDOON	EASTERN	2,823	Rural	2012
225	5323033	HOGAN N-LINKS	EASTERN	3,487	Urban	2012
226	5323013	HOGAN N-SLQUIST	EASTERN	2,892	Rural	2012
227	5324013	HOGAN S-CLEVLND	EASTERN	2,222	Urban	2012
228	5324023	HOGAN S-LAWRNCE	EASTERN	3,593	Urban	2012
229	5324033	HOGAN S-MAIN	EASTERN	2,528	Urban	2012
230	5324043	HOGAN S-PAROPA	EASTERN	2,947	Urban	2012
231	5324053	HOGAN S-WALLULA	EASTERN	2,982	Urban	2012
232	1325033	HOLGATE 13KV	CENTRAL	2,984	Urban	2012
233	1325043	HOLGATE-BYBEE	CENTRAL	2,504	Urban	2012
234	1325013	HOLGATE-GIDEON	CENTRAL	1,083	Urban	2012
235	1325053	HOLGATE-KENLWOR	CENTRAL	2,098	Urban	2012
236	1325023	HOLGATE-RHONE	CENTRAL	2,336	Urban	2012
237	4330013	HUBER 13KV	WESTERN	2,751	Urban	2012
238	4330053	HUBER-BANY	WESTERN	3,362	Urban	2012
239	4330023	HUBER-FRMINGTON	WESTERN	3,141	Urban	2012
240	4330033	HUBER-KINNAMON	WESTERN	2,267	Urban	2012
241	4330043	HUBER-MARYVILLE	WESTERN	4,572	Urban	2012
242	2188013	HUGHES-ORC HTS	SOUTHERN	372	Rural	2012
243	1316033	HYDN IS-MALAND	CENTRAL	152	Urban	2012

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
244	1316013	HYDN IS-N SHORE	CENTRAL	2,010	Urban	2012
245	1316023	HYDN IS-S SHORE	CENTRAL	494	Urban	2012
246	2340023	INDIAN-KEIZER	SOUTHERN	1,988	Urban	2012
247	2340013	INDIAN-LABISH	SOUTHERN	2,130	Rural	2012
248	2340043	INDIAN-NORTH	SOUTHERN	3,089	Urban	2012
249	2340033	INDIAN-STATION	SOUTHERN	1,347	Urban	2012
250	2340053	INDIAN-WEST	SOUTHERN	3,469	Urban	2012
251	1345043	ISLAND 13KV	CENTRAL	2,516	Urban	2012
252	1345033	ISLAND-13180	CENTRAL	954	Urban	2012
253	1345023	ISLAND-13187	CENTRAL	3,029	Urban	2012
254	1345013	ISLAND-13188	CENTRAL	2,690	Urban	2012
255	6365023	JEN LDG 13KV	CENTRAL	2,592	Urban	2012
256	6365033	JEN LDG-MELDRUM	CENTRAL	2,281	Urban	2012
257	6365013	JEN LDG-O GROVE	CENTRAL	1,346	Urban	2012
258	6365043	JEN LDG-WEBSTER	CENTRAL	3,644	Urban	2012
259	1367043	KELLEY POINT-LEDBETTER	CENTRAL	27	Urban	2012
260	1367053	KELLEY POINT-SOLAR1	CENTRAL	1	Urban	2012
261	1367063	KELLEY POINT-SOLAR2	CENTRAL	3	Urban	2012
262	1367013	KELLEY PT 13 KV	CENTRAL	15	Urban	2012
263	4378023	KING CTY-BULL MT	WESTERN	2,396	Urban	2012
264	4378013	KING CTY-FISCHER	WESTERN	2,799	Urban	2012
265	4378043	KING CTY-HAZEL B	WESTERN	1,798	Urban	2012
266	4378053	KING CTY-NORTH	WESTERN	2,126	Urban	2012
267	4378033	KING CTY-SUMERFL	WESTERN	2,556	Urban	2012
268	1370023	KLY BU-BINNSMED	EASTERN	3,186	Urban	2012
269	1370033	KLY BU-FAIRLAWN	EASTERN	1,397	Urban	2012
270	1370043	KLY BU-MALL 205	EASTERN	2,704	Urban	2012

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
271	1370013	KLY BU-MC GREW	EASTERN	2,623	Urban	2012
272	1367023	KLY PT-MARINEDR	CENTRAL	112	Urban	2012
273	1367033	KLY PT-SIMMONS	CENTRAL	37	Urban	2012
274	2400911	LAKE LABISH 4KV	SOUTHERN	1	Rural	2012
275	1420021	LAURELHURST 4KV	CENTRAL	0	Urban	2012
276	6402013	LELAND-BEAVERC	EASTERN	2,760	Rural	2012
277	6402023	LELAND-CARUS	EASTERN	2,256	Rural	2012
278	6402033	LELAND-KELM	EASTERN	1,710	Urban	2012
279	1405013	LENTS-13101	EASTERN	4,558	Urban	2012
280	1405043	LENTS-HAPPY VAL	EASTERN	2,966	Urban	2012
281	1405023	LENTS-MT SCOTT	EASTERN	1,487	Urban	2012
282	1405033	LENTS-NORTH	EASTERN	1,529	Urban	2012
283	2410013	LIB-BROWNING	SOUTHERN	639	Urban	2012
284	2410043	LIB-LONE OAK	SOUTHERN	2,405	Urban	2012
285	2410053	LIB-MORNINGSIDE	SOUTHERN	2,290	Urban	2012
286	2410023	LIB-ROSEDALE	SOUTHERN	2,170	Urban	2012
287	2410033	LIB-VISTA	SOUTHERN	1,955	Urban	2012
288	6464013	LIBERAL 13KV	SOUTHERN	1,054	Rural	2012
289	6464023	LIBERAL-SAWMILL	SOUTHERN	1	Rural	2012
290	2410063	LIBERTY-SKYLINE	SOUTHERN	2,959	Rural	2012
291	4422023	MAIN-AIRPORT	WESTERN	1,811	Urban	2012
292	4422033	MAIN-BENTLEY	WESTERN	2,112	Urban	2012
293	4422053	MAIN-EXPRESS	WESTERN	3,100	Urban	2012
294	4422073	MAIN-GRIFFIN	WESTERN	0	Urban	2012
295	4422063	MAIN-JFS1	WESTERN	1	Urban	2012
296	4422043	MAIN-JONES FARM	WESTERN	1	Urban	2012
297	4422013	MAIN-RVR RD	WESTERN	2,553	Rural	2012

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
298	4430913	MAXIM 13KV	WESTERN	4	Rural	2012
299	2435033	MC CL-COTTAGE	SOUTHERN	1,512	Urban	2012
300	2435013	MC CL-FRONT ST	SOUTHERN	1,024	Urban	2012
301	2435043	MC CL-HOLLYWOOD	SOUTHERN	1,294	Urban	2012
302	5440023	MCGILL-LSIAIR1A	EASTERN	1	Urban	2012
303	2900013	MCMINNVILLE W AND L	SOUTHERN	52	Rural	2012
304	4447013	MERIDIAN 13KV	WESTERN	1,370	Urban	2012
305	4447083	MERIDIAN-65TH	WESTERN	1,067	Urban	2012
306	4447053	MERIDIAN-BORLND	WESTERN	1,292	Urban	2012
307	4447093	MERIDIAN-CHILDS	WESTERN	443	Urban	2012
308	4447063	MERIDIAN-LAKEVIEW	WESTERN	389	Urban	2012
309	4447073	MERIDIAN-NYBERG	WESTERN	147	Urban	2012
310	4447043	MERIDIAN-PLKNGTN	WESTERN	2,835	Urban	2012
311	4447033	MERIDIAN-SAGERT	WESTERN	2,748	Urban	2012
312	2450023	MIDGROVE-BROWN	SOUTHERN	2,125	Urban	2012
313	2450043	MIDGROVE-CHEMEK	SOUTHERN	1,109	Urban	2012
314	2450033	MIDGROVE-CORDON	SOUTHERN	2,727	Urban	2012
315	2450013	MIDGROVE-SWEGLE	SOUTHERN	2,032	Urban	2012
316	2450053	MIDGROVE-WEST	SOUTHERN	3,452	Urban	2012
317	5455013	MIDWAY-DIVISION	EASTERN	4,193	Urban	2012
318	5455023	MIDWAY-DOUGLAS	EASTERN	2,486	Urban	2012
319	5455033	MIDWAY-LYNCH	EASTERN	2,365	Urban	2012
320	5455043	MIDWAY-POWELHST	EASTERN	3,571	Urban	2012
321	2540033	MILL CREEK 13KV	SOUTHERN	512	Rural	2012
322	2540013	MILL CREEK-EASTLAND	SOUTHERN	1,208	Rural	2012
323	2540023	MILL CREEK-KUEBLER	SOUTHERN	559	Rural	2012
324	6466023	MOLALLA-BUCKAROO	SOUTHERN	2,500	Rural	2012

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
325	6466043	MOLALLA-FOREST	SOUTHERN	1,554	Rural	2012
326	6466013	MOLALLA-MARQUAM	SOUTHERN	1,434	Remote	2012
327	6466033	MOLALLA-YODER	SOUTHERN	1,527	Rural	2012
328	2425013	MRKT ST-ENGLEWD	SOUTHERN	1,349	Urban	2012
329	2425033	MRKT ST-FAIRGND	SOUTHERN	1,976	Urban	2012
330	2425023	MRKT ST-HAWTHNE	SOUTHERN	1,212	Urban	2012
331	2425043	MRKT ST-PARK	SOUTHERN	1,109	Urban	2012
332	2470013	MT ANGEL-EAST	SOUTHERN	579	Rural	2012
333	2470023	MT ANGEL-WEST	SOUTHERN	1,657	Rural	2012
334	6475023	MT PLS-CLAIRMONT	CENTRAL	2,984	Urban	2012
335	6475043	MT PLS-MT VIEW	CENTRAL	1,876	Urban	2012
336	6475053	MT PLS-RIVRCRST	CENTRAL	2,006	Urban	2012
337	6475033	MT PLS-SOUTHEND	CENTRAL	3,561	Urban	2012
338	6478013	MULINO-NORTH	SOUTHERN	5	Rural	2012
339	6478023	MULINO-SOUTH	SOUTHERN	1,298	Rural	2012
340	1480063	MULTNOMAH 13KV	CENTRAL	3,636	Urban	2012
341	1480023	MULTNOMAH-13176	CENTRAL	2,814	Urban	2012
342	1480033	MULTNOMAH-13177	CENTRAL	3,431	Urban	2012
343	1480013	MULTNOMAH-13181	CENTRAL	2,303	Urban	2012
344	4482013	MURRAYHILL 13KV	WESTERN	3,773	Urban	2012
345	4482033	MURRAYHL-KINTON	WESTERN	3,825	Urban	2012
346	4482053	MURRAYHL-QUARRY	WESTERN	0	Urban	2012
347	4482043	MURRAYHL-REUSER	WESTERN	2,089	Urban	2012
348	4482023	MURRAYHL-TEAL	WESTERN	4,033	Urban	2012
349	2505033	N MARION FRONT	SOUTHERN	527	Rural	2012
350	2505043	N MARION-CROSBY	SOUTHERN	2,087	Rural	2012
351	2505013	N MARION-HUBBRD	SOUTHERN	766	Rural	2012

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
352	2505023	N MARION-MCLARN	SOUTHERN	1,840	Rural	2012
353	4510013	N PLAINS 13KV	WESTERN	1,572	Rural	2012
354	4510023	N PLAINS-M HILL	WESTERN	1,256	Rural	2012
355	4485033	NEWBERG-CHEHALM	SOUTHERN	3,119	Rural	2012
356	4485043	NEWBERG-COLLEGE	SOUTHERN	2,543	Urban	2012
357	4485023	NEWBERG-DUNDEE	SOUTHERN	2,413	Rural	2012
358	4485053	NEWBERG-HOOVR PK	SOUTHERN	1,586	Urban	2012
359	1495032	NORTHERN-11009	CENTRAL	1,117	Urban	2012
360	1495042	NORTHERN-11016	CENTRAL	381	Urban	2012
361	1495062	NORTHERN-11071	CENTRAL	1,960	Urban	2012
362	4516013	OAK HILLS 13KV	WESTERN	2,320	Urban	2012
363	4516033	OAK HILLS-5 OAK	WESTERN	1,924	Urban	2012
364	4516053	OAK HILLS-BRIER	WESTERN	479	Urban	2012
365	4516023	OAK HILLS-SMRST	WESTERN	1,587	Urban	2012
366	4516043	OAK HILLS-WLKRD	WESTERN	2,311	Urban	2012
367	1545021	OCKLEY GRN 4KV	CENTRAL	0	Urban	2012
368	5515013	OK GRV-LK HARRT	EASTERN	98	Remote	2012
369	5515023	OK GRV-WT WATER	EASTERN	27	Remote	2012
370	1514913	OREGON STEEL 13	EASTERN	2	Urban	2012
371	4518033	ORENCO 13KV	WESTERN	507	Urban	2012
372	4518023	ORENCO PRIMATE	WESTERN	3,231	Urban	2012
373	4518053	ORENCO-231ST	WESTERN	441	Urban	2012
374	4518043	ORENCO-AMBRGLEN	WESTERN	4,202	Urban	2012
375	4518013	ORENCO-BASELINE	WESTERN	5,082	Urban	2012
376	4518063	ORENCO-WILKINS	WESTERN	1,468	Urban	2012
377	5517013	ORIENT 13KV	EASTERN	822	Rural	2012
378	5517023	ORIENT-BARLOW	EASTERN	1,453	Rural	2012

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
379	1520013	OSWEGO-IRON MTN	WESTERN	977	Urban	2012
380	1520033	OSWEGO-MARYLHST	WESTERN	1,677	Urban	2012
381	1520043	OSWEGO-PALATINE	WESTERN	1,728	Urban	2012
382	1520023	OSWEGO-STAFFORD	WESTERN	3,471	Urban	2012
383	2523043	OXFORD 13KV	SOUTHERN	980	Urban	2012
384	2523013	OXFORD-FAIRVIEW	SOUTHERN	1,931	Urban	2012
385	2523063	OXFORD-LEE	SOUTHERN	852	Urban	2012
386	2523033	OXFORD-MADRONA	SOUTHERN	290	Urban	2012
387	2523053	OXFORD-RURAL	SOUTHERN	131	Urban	2012
388	2523023	OXFORD-SHELTON	SOUTHERN	740	Urban	2012
389	5553013	PLSNT VALY 13KV	EASTERN	891	Urban	2012
390	5553023	PLSNT VALY-BXTR	EASTERN	3,547	Urban	2012
391	5553033	PLSNT VALY-MOON	EASTERN	1,859	Urban	2012
392	5553043	PLSNT VALY-SUN	EASTERN	2,362	Urban	2012
393	1557911	PORTLAND GRD W PUMPING	EASTERN	2	Urban	2012
394	1558013	PORTSMTH-CARB	CENTRAL	2,800	Urban	2012
395	1558053	PORTSMTH-DISP	CENTRAL	9	Urban	2012
396	1558033	PORTSMTH-WILL	CENTRAL	3,009	Urban	2012
397	4565053	PRGRS-GREENBURG	WESTERN	1,827	Urban	2012
398	4565063	PRGRS-HALL	WESTERN	179	Urban	2012
399	4565013	PRGRS-ROBINSON	WESTERN	2,209	Urban	2012
400	4565023	PRGRS-SAWYER	WESTERN	781	Urban	2012
401	4565033	PRGRS-WSH SQ #1	WESTERN	39	Urban	2012
402	4565043	PRGRS-WSH SQ #2	WESTERN	26	Urban	2012
403	4570073	RAL H-DOGWOOD	WESTERN	1,766	Urban	2012
404	4570053	RAL H-MONTCLAIR	WESTERN	1,548	Urban	2012
405	4570063	RAL H-OLESON RD	WESTERN	2,121	Urban	2012

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
406	5575033	RAMAPO 13KV	EASTERN	2,911	Urban	2012
407	5575013	RAMAPO-GILBERT	EASTERN	3,176	Urban	2012
408	6581013	REDLAND 13KV	EASTERN	2,338	Rural	2012
409	6581023	REDLAND-HENRICI	EASTERN	1,835	Rural	2012
410	4583033	REED-BLANTON	WESTERN	3,199	Urban	2012
411	4583013	REED-HAZELDALE	WESTERN	2,236	Urban	2012
412	4583043	REED-INTEL #1	WESTERN	5	Urban	2012
413	4583053	REED-INTEL #2	WESTERN	0	Urban	2012
414	4583063	REED-INTEL #3	WESTERN	0	Urban	2012
415	4583073	REED-INTEL #4	WESTERN	1	Urban	2012
416	4583023	REED-TV HWY	WESTERN	1,935	Urban	2012
417	5602013	ROCKWD 13KV	EASTERN	3,390	Urban	2012
418	5602053	ROCKWD-AIRPT WY	EASTERN	7	Urban	2012
419	5602063	ROCKWD-BOEING	EASTERN	1	Urban	2012
420	5602023	ROCKWD-INDUSTRL	EASTERN	133	Urban	2012
421	5602033	ROCKWD-REYNOLDS	EASTERN	1,652	Urban	2012
422	5602043	ROCKWD-WILKES	EASTERN	45	Urban	2012
423	4605013	ROSEWAY 13 KV	WESTERN	3,614	Urban	2012
424	4605033	ROSEWAY-ALEXNDR	WESTERN	955	Urban	2012
425	4605023	ROSEWAY-ESPLANA	WESTERN	2,135	Urban	2012
426	5610013	RUBY-13502	EASTERN	2,676	Urban	2012
427	5610023	RUBY-13503	EASTERN	1,691	Urban	2012
428	1598012	RVRGATE-11010	CENTRAL	20	Urban	2012
429	1598022	RVRGATE-11011	CENTRAL	1,209	Urban	2012
430	1598023	RVRGATE-PEARCY	CENTRAL	48	Urban	2012
431	1598013	RVRGATE-SWIFT	CENTRAL	54	Urban	2012
432	1600033	RVRVIW-FULTON	CENTRAL	2,410	Urban	2012

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433	1600023	RVRVIW-MACADAM	CENTRAL	685	Urban	2012
434	1600013	RVRVIW-TWILLIGR	CENTRAL	1,090	Urban	2012
435	2637013	SALEM-13260	SOUTHERN	64	Urban	2012
436	2637023	SALEM-13261	SOUTHERN	81	Urban	2012
437	2637033	SALEM-13262	SOUTHERN	103	Urban	2012
438	2637043	SALEM-13263	SOUTHERN	216	Urban	2012
439	2637063	SALEM-13264	SOUTHERN	8	Urban	2012
440	2637053	SALEM-UNION	SOUTHERN	217	Urban	2012
441	5640033	SANDY 13KV	EASTERN	2,387	Remote	2012
442	5640043	SANDY-362ND	EASTERN	1,465	Urban	2012
443	5640013	SANDY-BLUFF	EASTERN	1,380	Urban	2012
444	5640023	SANDY-WILDCAT	EASTERN	2,579	Rural	2012
445	1646912	SCHNITZER 11KV	EASTERN	0	Urban	2012
446	4645113	SCHOLLS FERRY-KEMMER RD	WESTERN	893	Urban	2012
447	4645123	SCHOLLS FERRY-RAINBOW	WESTERN	1,236	Rural	2012
448	4645133	SCHOLLS FERRY-ROY ROGERS	WESTERN	1,051	Urban	2012
449	4650023	SCOGG-CHERRY G	WESTERN	447	Rural	2012
450	4650013	SCOGG-LAUREL W	WESTERN	1,115	Rural	2012
451	2652013	SCOTSMILL 13KV	SOUTHERN	1,765	Remote	2012
452	1655033	SELLWD 13KV	CENTRAL	3,211	Urban	2012
453	1655013	SELLWD-KELOG PK	CENTRAL	1,737	Urban	2012
454	1655023	SELLWD-WAVERLY	CENTRAL	1,062	Urban	2012
455	2660023	SHERIDAN EAST	SOUTHERN	1,224	Rural	2012
456	2660013	SHERIDAN-KADELL	SOUTHERN	1,605	Rural	2012
457	2665013	SILVERTON-NORTH	SOUTHERN	2,802	Rural	2012
458	2665023	SILVERTON-SOUTH	SOUTHERN	2,237	Remote	2012
459	2665033	SILVERTON-WEST	SOUTHERN	1,784	Rural	2012

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	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
460	4670013	SIX COR-13359	WESTERN	3,039	Rural	2012
461	4670023	SIX COR-13360	WESTERN	968	Rural	2012
462	4670043	SIX COR-BORCHER	WESTERN	1,677	Urban	2012
463	4670033	SIX COR-CHAPMAN	WESTERN	2,912	Urban	2012
464	4670053	SIX CORNER-13KV	WESTERN	1,481	Urban	2012
465	4671913	SMURFIT-NEWBERG	SOUTHERN	1	Urban	2012
466	6671913	SMURFIT-OC 13KV	EASTERN	1	Urban	2012
467	4674911	SPRING HILL 4 KV	WESTERN	1	Remote	2012
468	4672043	SPRINGBK-FERNWD	SOUTHERN	1,625	Urban	2012
469	4672023	SPRINGBK-STPAUL	SOUTHERN	885	Rural	2012
470	4672013	SPRINGBK-VILLA	SOUTHERN	1,809	Urban	2012
471	4672063	SPRINGBK-ZIMRI	SOUTHERN	1,358	Urban	2012
472	2630013	ST LOUIS-EAST	SOUTHERN	1,798	Rural	2012
473	2630033	ST LOUIS-NORTH	SOUTHERN	765	Rural	2012
474	2630023	ST LOUIS-WEST	SOUTHERN	892	Rural	2012
475	4635043	ST MARY 13KV	WESTERN	261	Urban	2012
476	4635023	ST MARY-BETHANY	WESTERN	792	Urban	2012
477	4635053	ST MARY-BUTNER	WESTERN	2,428	Urban	2012
478	4635033	ST MARY-ELMONIC	WESTERN	2,767	Urban	2012
479	4635013	ST MARY-JENKINS	WESTERN	36	Urban	2012
480	4635063	ST MARY-MILLIKN	WESTERN	1,836	Urban	2012
481	1385032	STEPHN-11001	CENTRAL	233	Urban	2012
482	1385042	STEPHN-11020	CENTRAL	648	Urban	2012
483	1385052	STEPHN-11054	CENTRAL	38	Urban	2012
484	1385062	STEPHN-11055	CENTRAL	44	Urban	2012
485	1385082	STEPHN-11092	CENTRAL	107	Urban	2012
486	1385072	STEPHN-11093	CENTRAL	187	Urban	2012

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487	1385112	STEPHN-11094	CENTRAL	7	Urban	2012
488	1385092	STEPHN-11095	CENTRAL	195	Urban	2012
489	1385102	STEPHN-11097	CENTRAL	121	Urban	2012
490	1385022	STEPHN-11098	CENTRAL	42	Urban	2012
491	1385122	STEPHN-11099	CENTRAL	69	Urban	2012
492	6675013	SULL-ROBINWOOD	CENTRAL	2,541	Urban	2012
493	6675053	SULL-SALAMO	CENTRAL	1,929	Urban	2012
494	6675033	SULL-SUSSEX	CENTRAL	2,901	Urban	2012
495	6675043	SULL-WILLAMETTE	CENTRAL	1,485	Urban	2012
496	6675023	SULLIVAN-TANNER	CENTRAL	2,074	Urban	2012
497	1676914	SULZER 115B	EASTERN	2	Urban	2012
498	1676912	SULZER BINGHAM	EASTERN	0	Urban	2012
499	5677023	SUMMIT-GOVT CAMP	EASTERN	505	Remote	2012
500	5677013	SUMMIT-MEADOWS	EASTERN	15	Remote	2012
501	5677033	SUMMIT-SUMMIT	EASTERN	263	Remote	2012
502	4679313	SUNSET-BLANCHET	WESTERN	20	Urban	2012
503	4679453	SUNSET-COLFAX	WESTERN	29	Urban	2012
504	4679133	SUNSET-CORNELL	WESTERN	1	Urban	2012
505	4679513	SUNSET-D1B1	WESTERN	5	Urban	2012
506	13394843	SUNSET-D1X1	WESTERN	0	Urban	2012
507	4679123	SUNSET-DORION	WESTERN	1	Urban	2012
508	4679253	SUNSET-IDTB	WESTERN	1	Urban	2012
509	4679143	SUNSET-KOMATSU	WESTERN	5	Urban	2012
510	4679223	SUNSET-LANE	WESTERN	10	Urban	2012
511	4679433	SUNSET-MCCALL	WESTERN	46	Urban	2012
512	4679423	SUNSET-MEEK	WESTERN	622	Urban	2012
513	4679213	SUNSET-PAULING	WESTERN	153	Urban	2012

Parameter Selections

Year: 2012

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
514	4679323	SUNSET-SPALDING	WESTERN	24	Urban	2012
515	4679233	SUNSET-WHITMAN	WESTERN	43	Urban	2012
516	4679113	SUNSET-YOUNG	WESTERN	21	Urban	2012
517	1680073	SWAN IS-BASIN	CENTRAL	131	Urban	2012
518	1680123	SWAN IS-DOLPHIN	CENTRAL	88	Urban	2012
519	1680153	SWAN IS-FREIGHTLINER	CENTRAL	32	Urban	2012
520	1680133	SWAN IS-GOING	CENTRAL	57	Urban	2012
521	1680143	SWAN IS-SHIPYRD	CENTRAL	41	Urban	2012
522	1685013	SYLVAN-BARNES	CENTRAL	2,685	Urban	2012
523	1685023	SYLVAN-PATTON	CENTRAL	2,594	Urban	2012
524	1690023	TABOR 13KV	CENTRAL	3,288	Urban	2012
525	1690013	TABOR-82ND AV	CENTRAL	2,287	Urban	2012
526	1690033	TABOR-HOSPITAL	CENTRAL	1,092	Urban	2012
527	4693023	TEK 13KV	WESTERN	308	Urban	2012
528	4693063	TEK-HOCKEN	WESTERN	479	Urban	2012
529	4693053	TEK-NORTH	WESTERN	14	Urban	2012
530	4693033	TEK-SHANNON	WESTERN	1,274	Urban	2012
531	4693043	TEK-SOUTH	WESTERN	3,109	Urban	2012
532	4693013	TEK-WEST	WESTERN	18	Urban	2012
533	1707103	TEMP-NORTH	CENTRAL	16	Urban	2012
534	1707113	TEMP-SOUTH	CENTRAL	283	Urban	2012
535	4695053	TIGARD - 13 KV	WESTERN	2,075	Urban	2012
536	4695013	TIGARD-13336	WESTERN	1,162	Urban	2012
537	4695043	TIGARD-13337	WESTERN	980	Urban	2012
538	4695023	TIGARD-13361	WESTERN	835	Urban	2012
539	4695033	TIGARD-13362	WESTERN	2,597	Urban	2012
540	6696023	TNCTR-LAWNFIELD	CENTRAL	1,776	Urban	2012

Parameter Selections

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
541	6696053	TNCTR-MONTEREY	CENTRAL	2,735	Urban	2012
542	6696073	TNCTR-NORTH 13KV	CENTRAL	8	Urban	2012
543	6696043	TNCTR-PRECISION	CENTRAL	3	Urban	2012
544	6696013	TNCTR-SOUTH 13KV	CENTRAL	14	Urban	2012
545	6696063	TNCTR-SUNNYBROOK	CENTRAL	1,057	Urban	2012
546	6696033	TNCTR-VALLEY VW	CENTRAL	226	Urban	2012
547	4999023	TROJAN PLANT W	WESTERN	0	Rural	2012
548	4999013	TROJAN PLNT E	WESTERN	11	Rural	2012
549	4697033	TUALATIN 13KV	WESTERN	125	Urban	2012
550	4697023	TUALATIN-AVERY	WESTERN	2,134	Urban	2012
551	4697063	TUALATIN-CIPOLE	WESTERN	231	Urban	2012
552	13152219	TUALATIN-HERMAN	WESTERN	0	Urban	2012
553	4697013	TUALATIN-IBACH	WESTERN	1,515	Urban	2012
554	4697053	TUALATIN-LEVETON	WESTERN	40	Urban	2012
555	2698013	TURNER 13KV	SOUTHERN	1,203	Rural	2012
556	2698023	TURNER-CASCADE	SOUTHERN	834	Rural	2012
557	6699033	TWILIGHT-BREMER	CENTRAL	1,119	Rural	2012
558	4700013	UNIONVALE 13KV	SOUTHERN	1,324	Rural	2012
559	2705013	UNIVRSITY-MILL	SOUTHERN	415	Urban	2012
560	2705023	UNIVRSITY-TRADE	SOUTHERN	2,535	Urban	2012
561	1707053	URBAN-BARBUR	CENTRAL	1,438	Urban	2012
562	1707083	URBAN-CAMPUS	CENTRAL	34	Urban	2012
563	1707013	URBAN-CORBETT	CENTRAL	1,107	Urban	2012
564	1707063	URBAN-GAINES	CENTRAL	1,047	Urban	2012
565	1707043	URBAN-GIBBS	CENTRAL	917	Urban	2012
566	1707073	URBAN-KELLY	CENTRAL	534	Urban	2012
567	1707023	URBAN-LANDING	CENTRAL	1,340	Urban	2012

Parameter Selections

Year: **2012**

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
568	1707033	URBAN-MEDICAL	CENTRAL	122	Urban	2012
569	1707093	URBAN-OHSU	CENTRAL	18	Urban	2012
570	4735013	W PTLD 13KV	WESTERN	1,049	Urban	2012
571	4735033	W PTLD-72ND	WESTERN	800	Urban	2012
572	4735043	W PTLD-NORTH	WESTERN	2,654	Urban	2012
573	4735023	W PTLD-PACIFIC	WESTERN	2,544	Urban	2012
574	4737023	W UNION 13KV	WESTERN	2,577	Urban	2012
575	4737013	W UNION-CORNELS	WESTERN	2,202	Rural	2012
576	1743013	WACKER	CENTRAL	4	Urban	2012
577	2720013	WACONDA 13KV	SOUTHERN	1,945	Rural	2012
578	2720033	WACONDA-NORPAC	SOUTHERN	8	Rural	2012
579	2720023	WACONDA-RIVER RD	SOUTHERN	513	Rural	2012
580	2725013	WALLACE RD 13KV	SOUTHERN	1,763	Rural	2012
581	5727013	WELCHES 13KV	EASTERN	1,800	Remote	2012
582	5727023	WELCHES-ZIG ZAG	EASTERN	1,457	Remote	2012
583	6666912	WEST LINN PAPER	EASTERN	0	Urban	2012
584	2740033	WILLAMINA-BRIDGE	SOUTHERN	1,278	Remote	2012
585	2740023	WILLAMINA-BUELL	SOUTHERN	631	Rural	2012
586	2740013	WILLAMINA-LUMBER	SOUTHERN	10	Rural	2012
587	1741012	WILLBRDG #1	CENTRAL	122	Urban	2012
588	1741042	WILLBRDG #4	CENTRAL	93	Urban	2012
589	4745073	WILSV-BOECKMAN	WESTERN	1,132	Urban	2012
590	4745063	WILSV-CHARBNEAU	WESTERN	2,406	Urban	2012
591	4745013	WILSV-CITY	WESTERN	3,124	Urban	2012
592	4745033	WILSV-DAMMASCH	WESTERN	0	Urban	2012
593	4745053	WILSV-HOLIDAY	WESTERN	0	Urban	2012
594	4745043	WILSV-MENTORTEK	WESTERN	23	Urban	2012

Parameter Selections

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2012 Feeder List with January Customer Counts

	Feeder Code	Feeder Name	Region	Customers on Feeder	Class	Year
595	4745023	WILSV-PARKWAY	WESTERN	837	Urban	2012
596	4745083	WILSV-VILLEBOIS	WESTERN	1,212	Urban	2012
597	4745093	WILSV-WEST	WESTERN	1,942	Urban	2012
598	2753033	WOODBURN-CANNERY	SOUTHERN	1,465	Urban	2012
599	2753013	WOODBURN-EAST	SOUTHERN	402	Rural	2012
600	2753023	WOODBURN-TOMLIN	SOUTHERN	1,607	Urban	2012
601	2753043	WOODBURN-WEST	SOUTHERN	2,179	Urban	2012
602	4760013	YAMHILL 13KV	SOUTHERN	1,707	Remote	2012
603	4760023	YAMHILL-CARLTON	SOUTHERN	1,916	Rural	2012

Total Customers: 839,994

*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

Feeder Breaker Changes in 2012

Renamed:	Alder Ct – Ankeny 13kV	now	Alder Ct – Irving 13kV
	Alder Ct – Jantzen 13kV	now	Alder Ct – Yamhill 13kV
Added:	Alder Ct – Yamhill 13kV		Culver 13kV
	Culver – Gaffin 13kV		Scholls Ferry – Kemmer Rd 13kV
	Scholls Ferry – Rainbow 13kV		Scholls Ferry – Roy Rogers 13kV
	Sunset D1X1, D1X3, & D1X5- 35kV		Sunset – Meek 13kV
	Tigard – 13kV		Reedville-Augusta 13kV
Removed:	Delaware # 3 13kV		Harrison # 1, # 2, and #2 13kV
	Lone Fir 4KV		Stephens ESCO 13kV
	Trojan Plant E 13kV		Willbridge # 2 and #3 13kV

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. MAIFIE 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.

$$\text{MAIFIE} = \frac{\text{Total number of customer momentary interruption events}}{\text{Total number of PGE customers served on Feeders with MV90 or SCADA}}$$

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 Category
2012

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

PGE SERVICE TERRITORY

Including Regional Boundaries

REVISED: 2/24/2012

Legend

- SERVICE TERRITORY BOUNDARY
- EASTERN
- SOUTHERN
- WESTERN



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