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REPORT NAME: Annual Reliability Report for Calendar Year 2015

COMPANY NAME: PacifiCorp

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If known, please select designation: RE (Electric) RG (Gas) RW (Water) RO (Other)

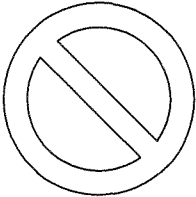
Report is required by: OAR 860-023-0151
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Compliance Filing - Annual Reliability Report for Calendar Year 2015

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April 29, 2016

VIA ELECTRONIC FILING

Public Utility Commission of Oregon
201 High Street SE, Suite 100
Salem, OR 97301-1166

Attn: Filing Center

RE: Annual Reliability Report for Calendar Year 2015

PacifiCorp d/b/a Pacific Power submits for filing its Annual Reliability Report for calendar year 2015. This filing is made in compliance with OAR 860-023-0151.

The company respectfully requests that data requests regarding this matter be addressed to:

By E-mail (preferred): datarequest@pacificorp.com

By regular mail: Data Request Response Center
PacifiCorp
825 NE Multnomah, Suite 2000
Portland, OR 97232

Please direct informal questions to Erin Apperson, Manager, Regulatory Affairs, at 503-813-6642.

Sincerely,



R. Bryce Dalley
Vice President, Regulation

Enclosure



**Pacific Power's
Annual Report:**

**Oregon Administrative Rules
860-023, 024 and 028**

Calendar Year 2015 Review
(January 1 – December 31, 2015)

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RELIABILITY

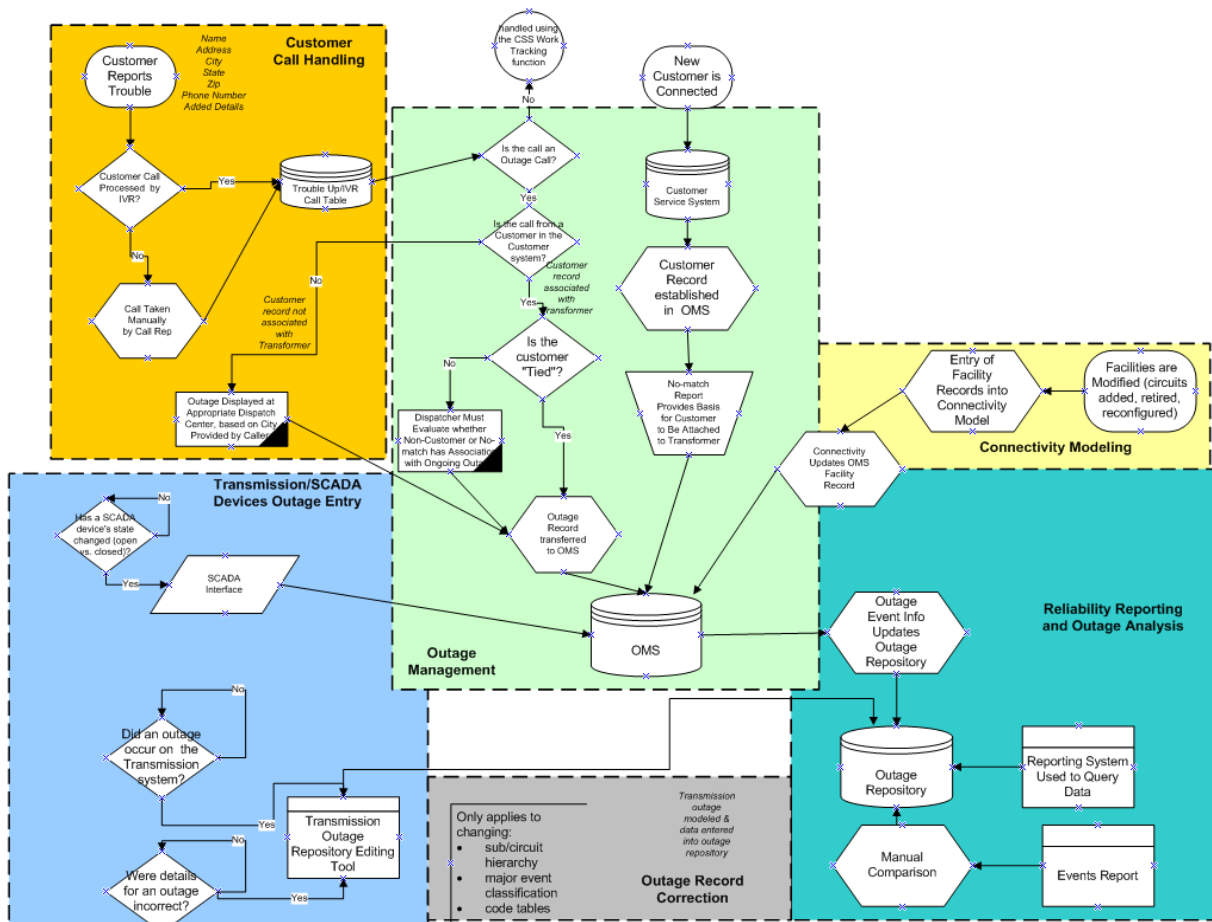
Introduction and Reliability Discussion

This year’s reliability report includes a brief overview of Pacific Power’s programs and initiatives to evaluate and enhance reliability. Changes to this section have been made in compliance with administration rules 860-23, 024 and 208.

Monitoring, Recording, and Reporting Reliability

How Pacific Power Monitors Reliability

Pacific Power operates automated outage management and reporting systems; a diagram of the data flow process is shown below. Customer trouble calls and SCADA events are interfaced with the Company’s real-time network connectivity model, its CADOPS system (Computer Aided Distribution Operations System). By overlaying these events onto the network model, the program infers outages at the appropriate devices (such as a transformer, fuse or other interrupting device) for all customers down line of the interrupting device. The outage is then routed to appropriate field operations staff for restoration and the outage event is recorded in the Company’s Prosper/US outage repository. In addition to this real-time model of the system’s electrical flow, the Company relies heavily upon the SCADA system it has in place. This includes the Dispatch Log System (an SQL database application) which serves to collect all events on SCADA-operable circuits. That data is then analyzed for momentary interruptions to establish state-level and circuit-level momentary interruption indices, per agreement with the Oregon PUC Staff.



Reliability Reporting: Interpreting Indices and Metrics

Raw reliability data comes in the form of outage start and stop times, numbers of customers interrupted and outage cause codes. Out of these are derived an array of indices and acronyms that attempt to reduce complex data to a handful of numbers. This section briefly describes the metrics used by Pacific Power for reliability measurements.

SAIDI, SAIFI, CAIDI and MAIFI_e are the most common indicators or indices used by utilities across the nation for measuring and reporting reliability. Along with other indices, they were first rigorously documented in Institute of Electrical and Electronics Engineers (IEEE) Standard 1366-1998, and since modified in IEEE 1366-2003/2012, IEEE Guide for Electric Power Distribution Reliability Indices. This standard for reporting reliability performance was adopted in OAR 860-023 and reports provided thereafter have adhered to this standard.

For performance reporting as contained within this document¹, Pacific Power uses the current standard indices, applied at the state level as well as to its defined reliability reporting regions. In years preceding 2012 the major events excluded from performance during the period were determined using the historic “10% of operating area customers” method, not the IEEE 1366 “2.5 beta” TMed method applied to these reliability reporting regions. Therefore, year-on-year comparisons need to be made carefully.

Regional reliability reporting areas were established by using statistical tools to determine the granular level at which performance complied with assumptions underlying the development of the major event thresholds adopted within the standard. For the Customer Guarantee element of the Performance Standards Program, exceptions to the guarantees may also be determined based on data at a state level.

In order to devise circuit-level performance measures, Pacific Power performed research into which metrics are appropriate for ranking reliability investments in order to better serve the needs of customers. The need to reliably serve the areas with the greatest numbers of customers must be balanced against the need to maintain focus on service levels where there are fewer customers. To do this, Pacific Power implemented in 1999 a balanced set of circuit performance indices (known as CPI⁹⁹) and methods that improve on those documented in IEEE 1366. Circuit performance is reviewed at least annually against these various metrics to determine the selection of circuits to be addressed within the Company’s Worst-Performing Feeders Program; as time has elapsed and tools have evolved the Company has focused its analysis at a lower level than circuit, i.e. sub-circuit selection may have been chosen as the optimal improvement activity. Mining of this data allows the company to optimize cost against reliability metric improvements.

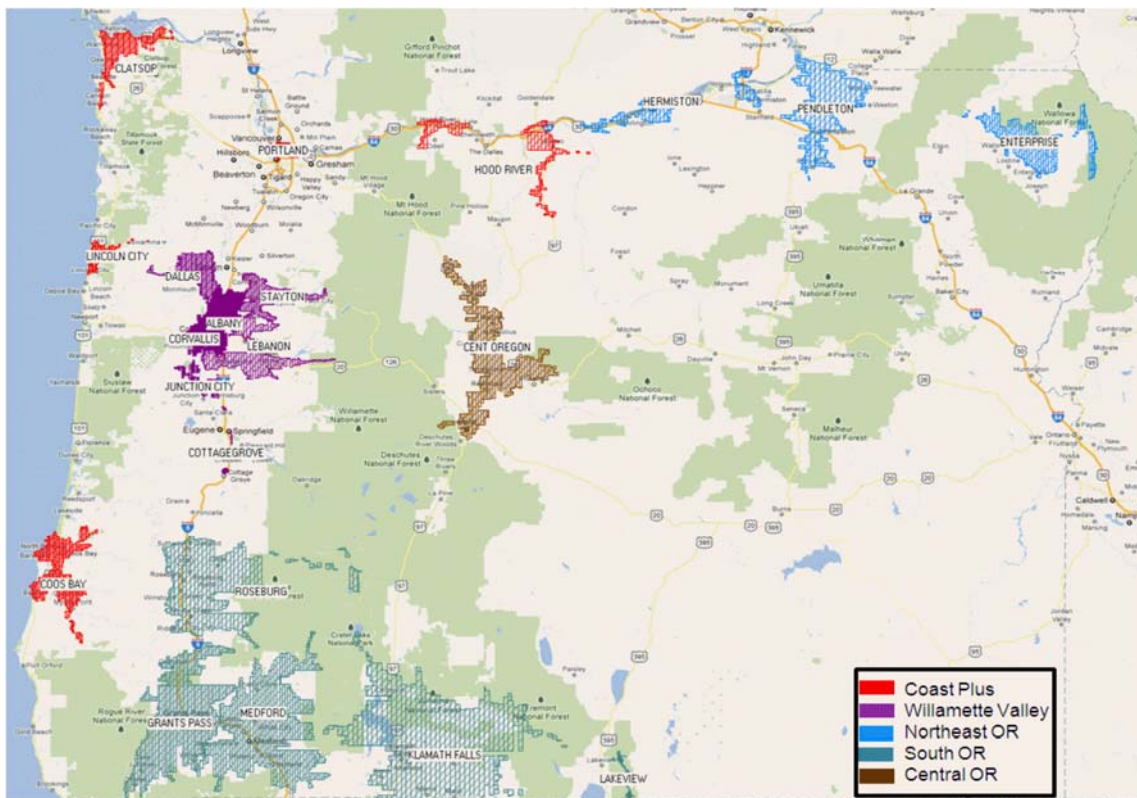
¹ State administrative rules regarding service reliability were modified during 2011, which has resulted in significant modifications to this section of the report.

Reliability Tools: Improving Indices and Metrics

Pacific Power uses the reliability data in a variety of ways that are designed to improve reliability to its customers. It has devised methods that are contained in the recently-adopted industry guide for electric reliability, IEEE 1782-2014². Some of these analytical methods render the outage data in a tabular, graphical and geospatial manner. All of them serve as input to developing projects that improve reliability, including the Company's fuse coordination program, Fuse It or Lose It (FIOLI), its circuit hardening program, Saving SAIDI, and its capital construction program, Network Initiatives. These programs are evaluated for their forecast improvements to network reliability, as measured by the avoidance of customer interruptions, customer minutes interrupted and momentary customer interruptions. Each project is assigned a value for reduced interruptions along with the cost for that project, and based upon the best cost projects, selected to align with budget and resource capacity targets. Other tools the Company has created to deliver better reliability to customers include web-based notifications when interrupting devices (such as circuit breakers, reclosers or fuses) have experienced more operations within a given time period than is the norm. This enables field engineering and operations management team members to promptly evaluate means to modify performance in that area of the system. These ad-hoc activities augment the Company's reliability planning process (which is completed annually with periodic updates); review of historic reliability performance demonstrates the process' efficacy. Annually the Company designates five circuits that are designated as "underperforming circuits" against which the Company reports blended reliability metrics (SAIDI, SAIFI, MAIFI and breaker lockouts) to highlight performance changes for that family of circuits over the next five years; these circuits are identified subsequently.

Reliability Reporting Regions Map

The graphic below shows the grouping of operating areas into five reliability reporting regions.



² NEW P1782 (PE/T&D) Guide for Collecting, Categorizing and Utilization of Information Related to Electric Power Distribution Interruption Events was approved on March 27, 2014 and contains many of the approaches used by Pacific Power to evaluate system reliability and determine areas where improvements should be deployed.

Major Event Thresholds

Effective CY2012, the administrative rules were modified to replace the 10% of operating area customers methodology with IEEE P1366 “2.5 beta” or TMed methodology for determining major events. For Pacific Power’s service territory in Oregon, all operating areas were grouped into five reliability reporting regions and each reliability region’s threshold determined according to IEEE 1366-2003/2012. The tables below depict the composition of each region and its threshold as used during CY2015 and for application during CY2016.

2015 Major Event Threshold			
Reliability Region	TMed SAIDI	TMed CMI	Operating Areas within Region
Central OR	4.34	349,230	Bend/Redmond, Madras
Coast Plus	9.60	1,452,428	Clatsop/Astoria, Coos Bay/Coquille, Hood River, Lincoln City, Portland
Northeast OR	9.35	232,269	Enterprise, Hermiston, Milton-Freewater, Pendleton, Walla Walla
South OR	10.13	2,306,700	Grants Pass, Klamath Falls, Lakeview, Medford, Roseburg/Myrtle Creek
Willamette Valley	17.34	2,134,793	Albany, Corvallis, Cottage Grove/J. City, Dallas/Independence, Lebanon, Stayton

2016 Major Event Threshold			
Reliability Region	TMed SAIDI	TMed CMI	Operating Areas within Region
Central OR	4.95	383,788	Bend/Redmond, Madras
Coast Plus	9.45	1,421,626	Clatsop/Astoria, Coos Bay/Coquille, Hood River, Lincoln City, Portland
Northeast OR	10.82	277,008	Enterprise, Hermiston, Milton-Freewater, Pendleton, Walla Walla
South OR	11.24	2,471,653	Grants Pass, Klamath Falls, Lakeview, Medford, Roseburg/Myrtle Creek
Willamette Valley	17.84	2,124,571	Albany, Corvallis, Cottage Grove/J. City, Dallas/Independence, Lebanon, Stayton

The following table is a 5-year view of each region’s TMed values.

Calendar Year	2016		2015		2014		2013		2012	
	CMI	SAIDI	CMI	SAIDI	CMI	SAIDI	CMI	SAIDI	CMI	SAIDI
Central OR	383,788	4.95	349,230	4.34	349,946	4.44	347,505	4.48	394,135	5.12
Coast Plus	1,421,626	9.45	1,452,428	9.60	1,449,117	9.57	1,475,758	9.82	1,409,521	9.43
Northeast OR	277,008	10.82	232,269	9.35	236,978	9.20	249,447	9.68	129,066	5.02
South OR	2,471,653	11.24	2,306,700	10.13	2,635,154	11.64	2,533,923	11.26	2,541,566	11.35
Willamette Valley	2,124,571	17.84	2,134,793	17.34	1,796,334	14.71	1,585,648	13.09	1,431,248	11.90

Major Events Excluded Report

Pacific Power filed written documentation for six Major Events in 2015 that were excluded from reliability performance results. They are summarized in the table below.

Oregon 2015 Major Events - Written Filings									
Event Date	Description	CML	CIS	PUC Report Required	Region TMED	Region SAIDI	Oregon SAIDI	Oregon SAIFI	Oregon CAIDI
February 5-10	South/Northeast - Snow Storm	11,906,091	35,532	Yes	10.13/9.35	46.4/53.9	19.60	0.06	335
July 4	Coast Plus – Loss of Supply	2,768,949	8,450	Yes	9.60	18.30	4.56	0.01	328
July 6	Central – Loss of Transmission/ Substation	1,897,399	5,725	Yes	4.34	23.59	3.12	0.01	331
July 7-9	South – Wind storm	2,801,950	7,744	Yes	10.1	12.30	4.61	0.01	362
December 8-20	South – Winter Storm	45,018,574	62,611	Yes	10.13	197.69	74.11	0.10	719
December 13-15	Northeast – Loss of supply	909,075	768	Yes	9.35	36.58	1.50	0.00	1184
TOTAL Oregon Major Events Filed		65,302,038	120,830				107.50	0.20	540

The company excluded 13 events where CAIDI was less than five hours (300 CAIDI minutes), for which no filing is required according to Oregon Administrative Rules.

Oregon 2015 Major Events - Low CAIDI (<300) No Filings									
Event Date	Description	CML	CIS	PUC Report Required	Region TMED	Region SAIDI	Oregon SAIDI	Oregon SAIFI	Oregon CAIDI
February 6-7	Central – Snow Storm	521,061	4,208	No	4.34	6.48	0.86	0.01	124
February 9-10	Willamette Valley – Snow Storm	7,891,025	26,811	No	17.34	64.01	12.99	0.04	294
March 15-16	Coast Plus – Wind Storm	1,925,901	6,857	No	9.60	12.73	3.17	0.01	281
March 22	Central – Loss of Substation	1,336,235	8,619	No	4.34	16.61	2.20	0.01	155
May 12	Central – Fault breaker lockout	448,484	2,480	No	4.34	5.58	0.74	0.00	181
July 11	Northeast – Loss of Supply	360,490	5,260	No	9.35	14.51	0.59	0.01	69
August 29-September 1	Coast Plus – Wind Storm	2,075,248	8,761	No	9.60	13.71	3.42	0.01	237
September 13	Northeast – Brush Fire	892,882	3,995	No	9.35	35.93	1.47	0.01	223
October 2	Central – Loss of Supply	444,097	10,820	No	4.34	5.52	0.73	0.02	41
November 17-18	Coast Plus – Wind Storm	2,183,181	22,503	No	9.60	14.43	3.59	0.04	97
November 17-18	Northeast – Wind Storm	702,909	2,428	No	9.35	28.29	1.16	0.00	290
December 8-11	Coast Plus – Wind and Rain Storm	2,903,737	14,173	No	9.60	19.19	4.78	0.02	205
December 21-22	Coast Plus – Wind and Rain Storm	1,548,756	8,397	No	9.60	10.23	2.55	0.01	184
TOTAL Major Events with low CAIDI		23,234,006	125,312				38.25	0.21	185

Total Performance Summary

Oregon 2015 Major Events - Summary	CML	CIS	PUC Report Required	Oregon SAIDI	Oregon SAIFI	Oregon CAIDI
Total Oregon Major Events Filed	65,302,038	120,830	Yes	107.50	0.20	540
Total Major Events with low CAIDI (no filing required)²	23,234,006	125,312	No	38.25	0.21	185
TOTAL MAJOR EVENTS EXCLUDED	88,536,044	246,142	-	145.75	0.41	360
Oregon Underlying Events - <u>Excludes</u> Major Event	72,725,958	572,619	-	119.72	0.94	127
Oregon Total Performance - <u>Includes</u> Major Event	161,262,002	818,761	-	265.47	1.35	197

Under-Performing Circuits

After the completion of the development of reliability improvement plans, the Company evaluates those circuits whose blended reliability scores rank low, using its Circuit Performance Indicator (CPI). This is the primary basis for the next year's Worst Performing Feeders element of its Targeted Reliability Program. CPI is an acronym for Circuit Performance Indicator, which uses 3-year weighted reliability metrics of the circuit to identify underperformance. The Company has evaluated the effectiveness of the CPI, determining whether inclusion of major events and transmission outages produce better results. The inclusion of major event and transmission outages, reporting period comparisons yielded a limited ability to identify the benefits of improvements made on each of the circuits. The application of CPI99 proved to demonstrate more consistently how performance comparisons could be made. The variables and equation for calculating CPI are:

$$\text{CPI} = \text{Index} * ((\text{SAIDI} * \text{WF} * \text{NF}) + (\text{SAIFI} * \text{WF} * \text{NF}) + (\text{MAIFI} * \text{WF} * \text{NF}) + (\text{Lockouts} * \text{WF} * \text{NF}))$$

Index: 10.645

SAIDI: Weighting Factor 0.30, Normalizing Factor 0.029

SAIFI: Weighting Factor 0.30, Normalizing Factor 2.439

MAIFI: Weighting Factor 0.20, Normalizing Factor 0.70

Lockouts: Weighting Factor 0.20, Normalizing Factor 2.00

Therefore, $10.645 * ((3\text{-year SAIDI} * 0.30 * 0.029) + (3\text{-year SAIFI} * 0.30 * 2.439) + (3\text{-year MAIFI} * 0.20 * 0.70) + (3\text{-year breaker lockouts} * 0.20 * 2.00)) = \text{CPI Score}$

The following distribution feeders were selected as under-performing based on CPI scores ending 12/31/2015 (in addition to other criteria, discussions with area engineers) and identified as Program Year 16 (2015) circuits in the Network Initiatives program:

ID	CIRCUIT NAME	KV	OPERATING AREA	CPI ⁹⁹
5A20	SOUTH (WARRENTON)	12.5	CLATSOP (ASTORIA)	124
4C67	INDUSTRIAL	20.8	COOS BAY/COQUILLE	82
5L57	CRATER LAKE	12.5	KLAMATH FALLS	200
4A316	LAKE (DEVILS LAKE)	20.8	LINCOLN CITY	172
5U52	BEALS CREEK FEEDER	12.5	ROSEBURG/MYRTLE CREEK	188
TARGET SCORE				

The status of prior years' under-performing circuits is shown in the following table. (Targets for Program Years 1-10 were met and filed previously.)

UNDER-PERFORMING CIRCUITS	BASELINE	Performance 12/31/15
Circuit Performance Indicator (CPI99)		
Program Year 16 (2015):		
EMPIRE	16	19
BRADWOOD	114	174
BELMONT	118	78
MERLIN-HUGO	41	49
DEER CREEK	59	25
TARGET SCORE = 56	70	69

Program Year 15 (2014):		
KINGS ROAD	115	141
29 TH STREET	133	144
DOUGLAS	34	55
BUNKERHILL	152	89
WOOD RIVER	193	148
TARGET SCORE = 100	125	115
Program Year 14 (2013):		
TERRES HGHTS	158	111
EASTSIDE	110	37
GLENDALE	171	156
CHINOOK	131	100
ROUGH & READY	69	79
TARGET SCORE = 102	128	96
Program Year 13 (2012):		
D.R.W.	124	50
DESCHUTES S	104	58
GOEDECK	24	42
LITTLE RIVER	70	187
WEST	45	28
TARGET SCORE = 59	73	73
Program Year 12 (2011):		
CRYSTAL SPR	154	74
WARM SPRINGS	157	72
IDLEYLD	146	145
PLEASANT VLY- MERLIN	39	95
DIAMOND	40	66
TARGET SCORE = 86	107	91

Oregon Five-Year Reliability Reporting Region Metrics

Excluding Major Events	SAIDI					SAIFI					MAIFle				
	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
OR REGION															
Central OR	45	34	56	63	60	0.531	0.362	0.356	1.102	0.489	5.35	3.30	2.67	2.97	2.59
CoastPlus	90	97	68	110	87	0.788	0.885	0.755	1.060	0.757	3.71	3.98	2.64	4.42	4.22
Northeast OR	80	75	96	108	120	0.876	0.519	0.780	1.184	1.036	2.64	3.98	4.10	1.37	4.41
South OR	98	139	120	128	133	0.880	1.354	0.980	1.121	0.830	3.96	4.61	3.07	3.32	4.02
WImVly	109	159	148	172	176	1.090	1.236	1.357	1.316	1.656	3.39	4.85	3.77	6.88	3.16
OREGON	90	116	103	123	120	0.851	1.048	0.911	1.145	0.943	3.94	4.28	3.12	4.23	3.65

Including Major Events	SAIDI					SAIFI					MAIFle				
	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
OR REGION															
Central OR	171	95	98	99	117	0.862	0.779	0.557	1.261	0.885	5.35	3.30	2.67	2.97	2.59
CoastPlus	188	521	137	211	175	1.206	1.945	1.145	1.540	1.214	3.71	3.98	2.64	4.42	4.22
Northeast OR	80	149	282	205	289	0.876	0.976	1.603	1.386	1.696	2.64	3.98	4.10	1.37	4.41
South OR	405	417	134	146	389	1.402	1.672	1.022	1.264	1.278	3.96	4.61	3.07	3.32	4.02
WImVly	273	444	189	597	240	1.587	2.229	1.593	2.429	1.873	3.39	4.85	3.77	6.88	3.16
OREGON	279	395	147	250	265	1.295	1.708	1.133	1.574	1.348	3.94	4.28	3.12	4.23	3.65

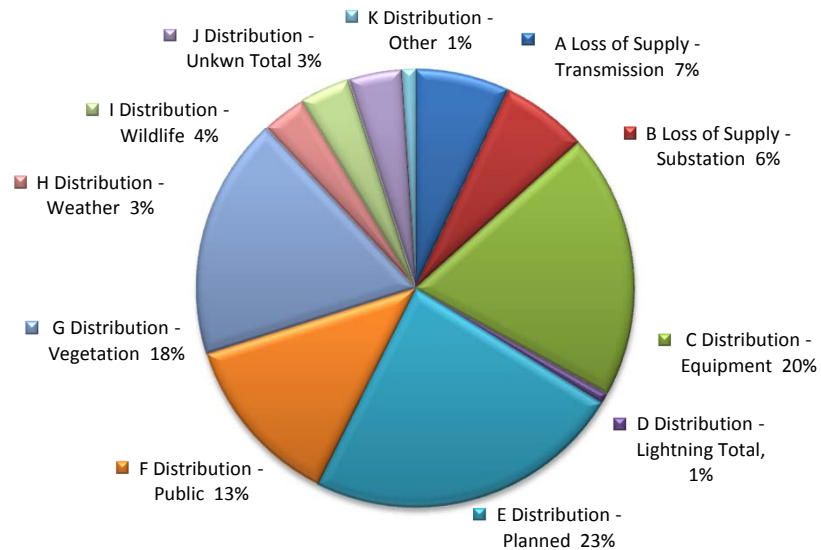
Oregon Five-Year Customer Count by Reliability Region and Operating Area

Region	Op Area	CY2015	CY2014	CY2013	CY2012	CY2011
Central OR	BEND/REDMOND	63,110	61,724	60,345	59,844	59,238
Central OR	MADRAS	17,325	17,250	17,177	17,113	17,006
Central OR		80,435	78,974	77,522	76,957	76,244
CoastPlus	CLATSOP (ASTORIA)	24,462	24,367	24,215	24,128	23,883
CoastPlus	COOS BAY/COQUILLE	27,376	27,310	27,200	27,210	27,080
CoastPlus	HOOD RIVER	9,545	9,414	9,269	9,180	9,067
CoastPlus	LINCOLN CITY	12,060	12,071	12,052	12,018	11,972
CoastPlus	PORTLAND	77,877	78,281	77,501	76,977	79,270
CoastPlus		151,320	151,443	150,237	149,513	151,272
Northeast OR	ENTERPRISE	5,412	5,366	5,483	5,457	5,412
Northeast OR	HERMISTON	4,859	4,824	4,783	4,745	4,686
Northeast OR	MILTON/FREEWATER	102	1,010	1,003	994	996
Northeast OR	PENDLETON	13,299	13,180	13,151	13,122	13,063
Northeast OR	WALLA WALLA OR	1,177	1,372	1,360	1,416	1,407
Northeast OR		24,849	25,752	25,780	25,734	25,564
South OR	GRANTS PASS	52,490	52,220	51,957	51,497	51,572
South OR	KLAMATH FALLS	39,334	39,153	39,004	38,925	38,763
South OR	LAKEVIEW	2,543	2,529	2,557	2,529	2,516
South OR	MEDFORD	90,122	89,379	88,690	87,985	87,397
South OR	ROSEBURG/MYRTLECREEK	43,233	43,022	42,926	42,807	42,694
South OR		227,722	226,303	225,134	223,743	222,942
Willamette Valley	ALBANY	32,190	32,670	32,310	32,119	31,907
Willamette Valley	CORVALLIS	29,754	29,551	29,330	28,981	28,820
Willamette Valley	COTTAGE GROVE/J.CITY	11,271	11,371	11,329	11,292	11,233
Willamette Valley	DALLAS/INDEPENDENCE	15,044	14,854	14,725	14,674	14,605
Willamette Valley	LEBANON	20,914	19,818	19,644	19,531	19,434
Willamette Valley	STAYTON	13,951	13,851	13,764	13,675	13,600
Willamette Valley		123,124	122,115	121,102	120,272	119,599
Oregon		607,450	604,587	599,775	596,219	595,621

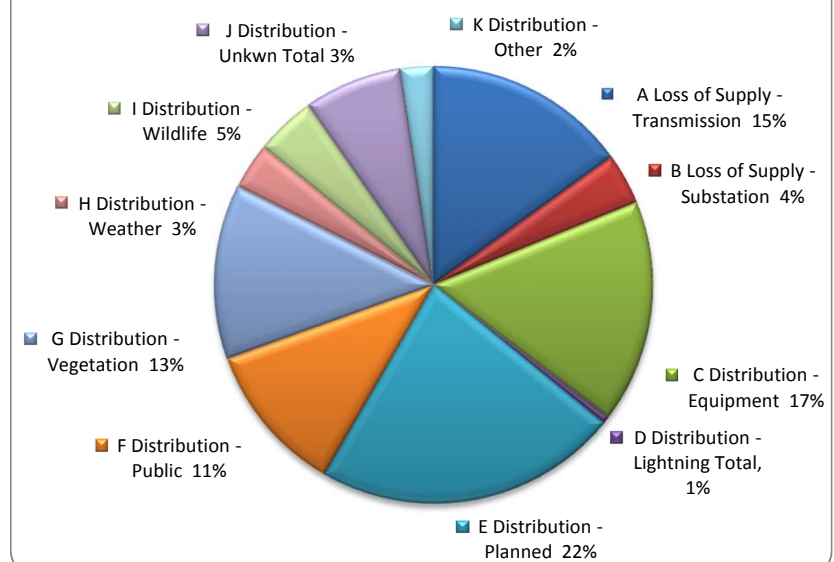
Oregon Five-Year Cause Analysis by State (excluding major events)

AFOR Cause	2011		2012		2013		2014		2015	
	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI
A Loss of Supply - Transmission	8.76	0.193	13.73	0.303	13.68	0.219	12.58	0.376	9.69	0.156
B Loss of Supply - Substation	3.34	0.026	3.84	0.024	8.32	0.070	7.66	0.047	8.87	0.039
C Distribution - Equipment	20.80	0.146	24.17	0.153	25.58	0.161	30.12	0.186	27.24	0.171
D Distribution - Lightning	0.54	0.005	1.02	0.006	4.98	0.019	1.49	0.005	1.09	0.006
E Distribution - Planned	18.19	0.137	18.46	0.170	19.41	0.185	20.56	0.175	32.78	0.233
F Distribution - Public	11.79	0.074	11.90	0.064	11.48	0.071	16.31	0.096	17.66	0.116
G Distribution - Vegetation	16.76	0.128	32.85	0.201	14.17	0.097	31.56	0.194	24.86	0.134
H Distribution - Weather	2.46	0.017	2.65	0.010	1.22	0.007	3.65	0.021	4.52	0.035
I Distribution - Wildlife	6.18	0.057	2.92	0.037	2.37	0.031	2.16	0.026	5.19	0.047
J Distribution - Unknown	7.48	0.087	7.85	0.089	8.46	0.077	5.51	0.057	5.41	0.075
K Distribution - Other	1.00	0.018	2.38	0.023	3.03	0.020	0.86	0.008	1.46	0.025
Grand Total	97.28	0.888	121.78	1.080	112.70	0.954	132.44	1.191	138.78	1.036

2015 Oregon Cause Analysis - SAIDI



2015 Oregon Cause Analysis - SAIFI



Oregon Five-Year Cause by Reliability Region (excluding major events)

Reliability Region	AFOR Cause	2011		2012		2013		2014		2015	
		SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI
Central OR	A Loss of Supply - Transmission	5.93	0.204	1.80	0.038	0.74	0.000	4.91	0.557	2.25	0.046
	B Loss of Supply - Substation	-	-	0.47	0.027	9.60	0.037	5.38	0.130	-	-
	C Distribution - Equipment	14.10	0.089	17.11	0.134	19.55	0.108	29.98	0.197	31.30	0.193
	D Distribution - Lightning	2.21	0.024	0.26	0.002	0.16	0.001	0.62	0.004	0.05	0.002
	E Distribution - Planned	6.87	0.047	5.66	0.068	30.10	0.169	13.67	0.154	25.09	0.353
	F Distribution - Public	8.40	0.045	5.07	0.040	10.25	0.051	9.13	0.045	4.83	0.025
	G Distribution - Vegetation	2.48	0.015	2.02	0.021	3.17	0.043	3.18	0.034	3.79	0.032
	H Distribution - Weather	2.61	0.035	0.35	0.003	0.42	0.002	0.73	0.002	7.73	0.066
	I Distribution - Wildlife	0.45	0.004	0.38	0.004	0.33	0.004	1.11	0.012	0.68	0.006
	J Distribution - Unknown	5.06	0.087	1.68	0.032	3.18	0.019	2.62	0.018	2.49	0.035
	K Distribution - Other	0.09	0.000	0.11	0.004	0.10	0.001	0.09	0.001	1.69	0.009
Grand Total	48.22	0.551	34.92	0.373	77.60	0.435	71.43	1.155	79.92	0.768	
CoastPlus OR	A Loss of Supply - Transmission	1.38	0.033	4.21	0.226	3.72	0.189	9.84	0.341	0.00	0.000
	B Loss of Supply - Substation	4.88	0.045	1.30	0.017	6.84	0.071	4.06	0.011	-	-
	C Distribution - Equipment	21.00	0.177	13.60	0.085	20.24	0.143	29.08	0.177	22.98	0.167
	D Distribution - Lightning	0.26	0.001	0.05	0.000	0.13	0.001	0.01	0.000	0.04	0.000
	E Distribution - Planned	24.30	0.176	16.24	0.121	19.66	0.165	27.50	0.208	45.79	0.285
	F Distribution - Public	7.30	0.039	10.94	0.073	7.04	0.052	16.40	0.122	17.06	0.165
	G Distribution - Vegetation	23.71	0.178	39.40	0.250	8.92	0.080	31.28	0.225	21.10	0.130
	H Distribution - Weather	2.59	0.016	2.99	0.008	0.05	0.001	4.51	0.027	3.96	0.032
	I Distribution - Wildlife	12.65	0.128	2.41	0.044	1.45	0.022	0.84	0.011	1.14	0.010
	J Distribution - Unknown	2.61	0.028	7.42	0.054	2.21	0.040	1.88	0.015	3.04	0.041
	K Distribution - Other	0.31	0.019	3.15	0.033	7.01	0.041	0.09	0.002	0.29	0.022
Grand Total	101.00	0.840	101.72	0.910	77.29	0.804	125.50	1.138	115.41	0.852	
Northeast OR	A Loss of Supply - Transmission	5.90	0.152	8.63	0.040	19.85	0.190	24.67	0.439	9.05	0.075
	B Loss of Supply - Substation	-	-	-	-	8.30	0.055	5.00	0.033	0.51	0.007
	C Distribution - Equipment	24.80	0.102	21.32	0.108	32.87	0.241	22.42	0.165	32.46	0.181
	D Distribution - Lightning	1.48	0.009	11.29	0.056	2.05	0.010	2.01	0.010	0.36	0.003
	E Distribution - Planned	12.21	0.109	8.13	0.117	18.05	0.163	16.50	0.174	8.17	0.163
	F Distribution - Public	5.95	0.042	4.53	0.048	5.18	0.043	9.37	0.062	21.06	0.151
	G Distribution - Vegetation	15.98	0.201	12.73	0.076	4.16	0.021	10.84	0.145	23.83	0.247
	H Distribution - Weather	3.07	0.023	2.44	0.015	0.97	0.004	6.86	0.035	3.51	0.024
	I Distribution - Wildlife	4.82	0.083	1.60	0.025	3.49	0.041	2.37	0.038	8.85	0.092
	J Distribution - Unknown	8.07	0.090	5.54	0.046	6.55	0.056	6.22	0.065	9.61	0.093
	K Distribution - Other	1.70	0.050	1.26	0.008	0.51	0.003	4.60	0.044	4.39	0.019
Grand Total	83.98	0.861	77.49	0.539	101.98	0.825	110.86	1.210	121.80	1.055	

Oregon Five-Year Cause by Reliability Region (excluding major events)

Reliability Region	AFOR Cause	2011		2012		2013		2014		2015	
		SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI
Southern OR	A Loss of Supply - Transmission	15.61	0.300	27.67	0.566	19.60	0.233	19.35	0.444	18.93	0.146
	B Loss of Supply - Substation	5.61	0.038	3.33	0.024	11.00	0.101	12.66	0.035	22.18	0.078
	C Distribution - Equipment	19.66	0.130	29.46	0.165	22.15	0.135	26.12	0.167	24.26	0.145
	D Distribution - Lightning	0.21	0.002	0.57	0.003	11.95	0.034	0.51	0.003	1.64	0.009
	E Distribution - Planned	18.99	0.122	24.36	0.220	16.84	0.169	15.63	0.125	27.79	0.157
	F Distribution - Public	9.25	0.053	5.73	0.035	14.32	0.103	13.63	0.059	11.62	0.065
	G Distribution - Vegetation	16.29	0.100	37.19	0.192	17.01	0.090	33.52	0.177	22.05	0.095
	H Distribution - Weather	2.00	0.008	3.44	0.014	1.50	0.009	1.90	0.010	2.36	0.012
	I Distribution - Wildlife	2.22	0.027	3.81	0.042	3.01	0.046	3.34	0.037	9.80	0.081
	J Distribution - Unknown	10.59	0.098	10.04	0.109	9.86	0.086	8.52	0.093	7.47	0.097
	K Distribution - Other	2.13	0.028	3.02	0.028	1.11	0.012	0.41	0.003	1.17	0.008
	Grand Total	102.55	0.907	148.61	1.399	128.37	1.018	135.62	1.152	149.27	0.894
WImVly OR	A Loss of Supply - Transmission	7.71	0.199	8.38	0.134	22.02	0.374	5.83	0.164	9.50	0.454
	B Loss of Supply - Substation	-	-	10.94	0.037	4.37	0.033	4.87	0.063	2.64	0.048
	C Distribution - Equipment	26.09	0.181	32.59	0.235	40.86	0.248	40.54	0.231	34.28	0.207
	D Distribution - Lightning	0.22	0.002	1.37	0.013	1.71	0.026	5.59	0.016	2.15	0.011
	E Distribution - Planned	17.45	0.179	20.67	0.215	17.33	0.253	26.37	0.239	36.01	0.243
	F Distribution - Public	25.62	0.185	30.53	0.126	13.81	0.052	27.25	0.175	37.28	0.200
	G Distribution - Vegetation	18.11	0.171	40.66	0.300	24.56	0.180	51.00	0.301	48.66	0.253
	H Distribution - Weather	2.91	0.023	2.29	0.010	2.73	0.013	7.01	0.042	7.30	0.064
	I Distribution - Wildlife	9.31	0.051	3.79	0.046	3.40	0.032	2.21	0.032	3.85	0.046
	J Distribution - Unknown	9.28	0.142	8.76	0.138	17.37	0.146	6.15	0.066	5.57	0.100
	K Distribution - Other	0.18	0.003	1.90	0.016	4.08	0.021	2.35	0.022	2.72	0.072
	Grand Total	116.88	1.136	161.88	1.268	152.25	1.379	179.17	1.350	189.96	1.697

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	12.5	2,378
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	12.5	1,078
Central OR	BEND/REDMOND	BEND	5D12	DIVISION ST.	12.5	224
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	12.5	1,499
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	12.5	1,761
Central OR	BEND/REDMOND	BOND STREET	5D413	OLD MILL.	12.5	368
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	12.5	1,308
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	12.5	2,335
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	12.5	1,653
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	12.5	2,556
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	12.5	880
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	12.5	975
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	12.5	1,412
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	12.5	3,110
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	12.5	857
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	12.5	1,331
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	20.8	1,760
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	20.8	768
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	12.5	1,138
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	12.5	969
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	12.5	672
Central OR	BEND/REDMOND	MIDPOINT	CO01-1	MIDPOINT-HEMMINGWAY-500KV	500	0
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	12.5	818
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	12.5	2,621
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	12.5	1,373
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	12.5	1,951
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	12.5	1,888
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	12.5	3,119
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	12.5	2,028
Central OR	BEND/REDMOND	PILOT BUTTE	CO16	PILOT BUTTE-CLEVELAND-69KV	69	2
Central OR	BEND/REDMOND	PILOT BUTTE	CO-1-BPA	PONDEROSA(BPA)-PILOT BUTTE-230KV	230	1
Central OR	BEND/REDMOND	PILOT BUTTE	CO-2-BPA	REDMOND(BPA)-PILOT BUTTE-230KV	230	1
Central OR	BEND/REDMOND	PILOT BUTTE	CO-3-BPA	LAPINE(BPA)-PILOT BUTTE-230KV	230	1
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	12.5	720
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	12.5	1,465
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	12.5	840
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	12.5	1,401
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	12.5	2,918
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	12.5	1,333
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	12.5	434
Central OR	BEND/REDMOND	REDMOND	CO006	REDMOND-COVE-69KV	69	2
Central OR	BEND/REDMOND	REDMOND	CO06A	TAP TO CROOKED RIVER-69KV	69	1
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	12.5	2,895
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	12.5	3,037
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	12.5	910
Central OR	BEND/REDMOND	SUMMER LAKE (BPA)	CO01-1A	SUMMER LAKE (BPA)-HEMMINGWAY-500KV	500	0
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	12.5	1,473
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	12.5	399
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	12.5	2,398
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	12.5	150
Central OR	MADRAS	COVE (OR)	CO005	COVE-WARM SPRINGS-69KV	69	1
Central OR	MADRAS	COVE (OR)	CO012	COVE-WARM SPRINGS-69KV	69	0
Central OR	MADRAS	CULVER	5D5	CULVER	12.5	1,789
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	12.5	1,039
Central OR	MADRAS	MADRAS	5D53	AGATE	12.5	1,326
Central OR	MADRAS	MADRAS	5D57	QUARTZ	12.5	1,425

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	12.5	1,339
Central OR	MADRAS	PONDEROSA-P	CO14-1	PONDEROSA-HOUSTON LAKE#1-115KV	115	1
Central OR	MADRAS	PONDEROSA-P	CO14-3	BALDWIN ROAD-PRINEVILLE-115KV	115	0
Central OR	MADRAS	PONDEROSA-P	CO14-4	PRINEVILLE-HOUSTON LAKE-115KV	115	0
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	12.5	625
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	12.5	889
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	12.5	2,648
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	12.5	993
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	12.5	1,668
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	12.5	649
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	12.5	77
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	12.5	1,617
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	20.8	1,087
CoastPlus	CLATSOP (ASTORIA)	ASTORIA	CL01-2	ASTORIA-BPA ALLSTON 115KV	115	0
CoastPlus	CLATSOP (ASTORIA)	ASTORIA	CL01-3	ASTORIA-TILLAMOOK-115KV	115	0
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	12.5	1,576
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	12.5	1,222
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	12.5	261
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	12.5	381
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	12.5	707
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	12.5	940
CoastPlus	CLATSOP (ASTORIA)	LEWIS & CLARK	CL03	LEWIS & CLARK-CLATSOP-BPA-115KV	115	0
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	12.5	2,391
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	12.5	1,643
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	12.5	1,195
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	12.5	3,147
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	12.5	1,829
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	12.5	558
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	12.5	1,591
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	12.5	1,226
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	12.5	1,137
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	12.5	960
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	12.5	328
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	12.5	940
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	12.5	1,009
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	12.5	1,409
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	20.8	793
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	20.8	1,413
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	20.8	1,774
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	20.8	1,637
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	20.8	157
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C108	EMPIRE	20.8	1,760
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C89	SCOTT	20.8	1,433
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C90	CHARLESTON	20.8	2,212
CoastPlus	COOS BAY/COQUILLE	FAIRVIEW (BPA)	CB01	FAIRVIEW-ISTHMUS-230KV	230	0
CoastPlus	COOS BAY/COQUILLE	FAIRVIEW (BPA)	CB02-1	FAIRVIEW-COQUILLE-115KV	115	0
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	12.5	32
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C48	CITY CENTER	20.8	1,604
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C49	EASTSIDE	20.8	802
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C5	GEORGIA-PAC	20.8	101
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C50	BUNKERHILL	20.8	1,938
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C97	ENGLEWOOD	20.8	1,433
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	CB02-2	LOCKHART-COQUILLE-115KV	115	0
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	CB03	LOCKHART-STATE STREET-115KV	115	0
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	20.8	359
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	20.8	2,207

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
CoastPlus	COOS BAY/COQUILLE	SOUTH DUNES	5C9	DOUGLAS CHIP	12.5	2
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	20.8	1,882
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	20.8	1,731
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	20.8	2,296
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	20.8	1,806
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	20.8	512
CoastPlus	HOOD RIVER	GRASS VALLEY	6K1	KENT	7.2	65
CoastPlus	HOOD RIVER	GRASS VALLEY	8K4	GRASS VALLEY CITY	2.4	64
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	12.5	2,110
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	12.5	1,148
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	12.5	1,783
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	7.2	1,053
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	12.5	1,671
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	12.5	732
CoastPlus	HOOD RIVER	MORO	8K6	MORO	2.4	117
CoastPlus	HOOD RIVER	POWERDALE JUNCTION SWITCHYARD 69KV	HR03-1	POWERDALE JUNCTION-BALD MOUNTAIN(BPA)-69KV	69	1
CoastPlus	HOOD RIVER	TUCKER	HR01	TUCKER-POWERDALE-69KV	69	3
CoastPlus	HOOD RIVER	TUCKER	HR04	TUCKER-POWERDALE-69KV	69	2
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	4.1	274
CoastPlus	LINCOLN CITY	BOYER	LC01-A	BOYER-GRAND RONDE(PGE)-115KV	115	1
CoastPlus	LINCOLN CITY	BOYER	LC02	BOYER-DEVILS LAKE #2-115KV	115	0
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	20.8	1,837
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	20.8	2,937
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	20.8	4,472
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	20.8	660
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	4.1	711
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	4.1	360
CoastPlus	LINCOLN CITY	NELSCOTT	7A390	NELSCOTT	4.1	354
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R114	BOYER	12	19
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	4.1	706
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	11.7	678
CoastPlus	PORTLAND	ALBINA	5P196	11C16-UG	11.7	447
CoastPlus	PORTLAND	ALBINA	5P200	11C20-UG	11.7	456
CoastPlus	PORTLAND	ALBINA	5P91	11C11-UG	11.7	323
CoastPlus	PORTLAND	ALBINA	5P92	11C12-UG	11.7	74
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P22	ALDERWOOD #2	12.5	209
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P33	ALDERWOOD #4	12.5	184
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	12.5	179
CoastPlus	PORTLAND	BLOSS	5P172	FURNACE	12.5	1
CoastPlus	PORTLAND	BPA ST JOHNS	P11	ST JOHNS-KNOTT-115KV	115	0
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	#2	12.5	2,565
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	12.5	325
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	12.5	562
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	12.5	795
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	12.5	839
CoastPlus	PORTLAND	COLUMBIA (OR)	5P480	COLUMBIA #5	12.5	21
CoastPlus	PORTLAND	COLUMBIA (OR)	P23	COLUMBIA-KNOTT-57KV (OR)	57	0
CoastPlus	PORTLAND	COLUMBIA (OR)	P25	COLUMBIA-PARK ROSE-57KV	57	0
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	12.5	799
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	12.5	2,402
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	12.5	2,925
CoastPlus	PORTLAND	HARRISON	P17	HARRISON-PGE EASTPORT-115KV	115	1
CoastPlus	PORTLAND	HARRISON	P18	HARRISON-LINCOLN-115KV	115	0
CoastPlus	PORTLAND	HOLLADAY (OR)	5P145	HOLLADAY #1-UG	11.7	6
CoastPlus	PORTLAND	HOLLADAY (OR)	5P147	HOLLADAY #3-UG	11.7	27
CoastPlus	PORTLAND	HOLLADAY (OR)	5P156	HOLLADAY #4-UG	11.7	201

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
CoastPlus	PORTLAND	HOLLADAY (OR)	5P157	HOLLADAY #5-UG	11.7	325
CoastPlus	PORTLAND	HOLLADAY (OR)	5P158	HOLLADAY #6	11.7	784
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	12.5	1,358
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	12.5	1,869
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	12.5	2,103
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	12.5	1,731
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	12.5	2,351
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	12.5	346
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	12.5	427
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	12.5	2,733
CoastPlus	PORTLAND	KILLINGSWORTH	5P88	KILLINGSWORTH #1-UG	12.5	16
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	12.5	3,095
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	12.5	2,775
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	12.5	1,324
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	12.5	2,312
CoastPlus	PORTLAND	KNOTT	5P366	11010	11.7	7
CoastPlus	PORTLAND	KNOTT	5P368	11022	11.7	172
CoastPlus	PORTLAND	KNOTT	5P372	11046	11.7	484
CoastPlus	PORTLAND	KNOTT	5P374	11020	11.7	994
CoastPlus	PORTLAND	KNOTT	P26	KNOTT-PARKROSE-57KV	57	7
CoastPlus	PORTLAND	KNOTT	P26-1	KNOTT-SW3P278-57KV	57	0
CoastPlus	PORTLAND	KNOTT	P26-3	SW3P278-SW3P214-57KV	57	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P418	11D17	11.7	51
CoastPlus	PORTLAND	LINCOLN (OR)	5P422	11D06-UG	11.7	546
CoastPlus	PORTLAND	LINCOLN (OR)	5P426	11D04-UG	11.7	332
CoastPlus	PORTLAND	LINCOLN (OR)	5P432	11D02-UG	11.7	464
CoastPlus	PORTLAND	LINCOLN (OR)	5P436	11G18-UG	11.7	103
CoastPlus	PORTLAND	LINCOLN (OR)	5P458	11D07-UG	11.7	216
CoastPlus	PORTLAND	LINCOLN (OR)	5P462	11G13-UG	11.7	32
CoastPlus	PORTLAND	LINCOLN (OR)	5P464	11G16-UG	11.6	54
CoastPlus	PORTLAND	LINCOLN (OR)	P16	LINCOLN-URBAN-115KV	115	0
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	12.8	1,981
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	12.8	3,026
CoastPlus	PORTLAND	MERWIN	P08	MERWIN-BPA CARDWELL-115KV	115	0
CoastPlus	PORTLAND	MERWIN	P09	MERWIN-YALE-115KV	115	0
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	12.5	3,083
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	12.5	3,073
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	12.5	677
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	12.5	1,794
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	12.5	3,018
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	12.5	2,167
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	12.5	3,220
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	12.5	1,283
CoastPlus	PORTLAND	TROUTDALE	P14	TROUTDALE-KNOTT-115KV	115	0
CoastPlus	PORTLAND	TROUTDALE	P19	TROUTDALE-ALBINA-69KV	69	0
CoastPlus	PORTLAND	TROUTDALE	P22-1	TROUTDALE-LADY-SUB #8-69KV	69	0
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	12.5	1,810
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	12.5	2,494
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	12.5	3,097
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	12.5	3,228
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	12.5	2,182
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	20.8	1,440
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	12.5	947
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	12.5	1,063
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	WW07	ENTERPRISE-ELGIN-69KV	69	0
Northeast OR	ENTERPRISE	HURRICANE (OR)	WW01-2	HURRICANE-HELLS CANYON(IPCO)-230KV	230	0

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	12.5	855
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	12.5	13
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	19.9	174
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	19.9	55
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	12.5	861
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	12.5	571
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	12.5	24
Northeast OR	HERMISTON	CREEK	WW13	WILLOW CREEK-BPA DEMOSS-69KV	69	0
Northeast OR	HERMISTON	DALREED	4K16	WILLOW COVE	34.5	76
Northeast OR	HERMISTON	DALREED	4K36	SIMTAG	34.5	18
Northeast OR	HERMISTON	DALREED	4K46	BOEING	34.5	182
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	12.5	1,412
Northeast OR	HERMISTON	HERMISTON	WW14-1	HERMISTON-HINKLE-69KV	69	1
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	12.5	388
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	12.5	1,200
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	12.5	920
Northeast OR	HERMISTON	UMATILLA	5W664	PORT FEEDER	12.5	58
Northeast OR	PENDLETON	ATHENA	5W703	CITY	12.5	882
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	12.5	442
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	12.5	411
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	12.5	1,549
Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	12.5	1,674
Northeast OR	PENDLETON	HERMISTON	WW14	HERMISTON-PENDLETON-69KV	69	0
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	12.5	1,753
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	12.5	2,153
Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	12.5	1,075
Northeast OR	PENDLETON	PENDLETON	7W451	BUSINESS	4.1	270
Northeast OR	PENDLETON	PENDLETON	7W452	NORTHWEST	4.1	525
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDELTON)	4.1	380
Northeast OR	PENDLETON	PENDLETON	7W454	EAST END	4.1	271
Northeast OR	PENDLETON	PENDLETON	WW10	PENDLETON-BPA ROUNDUP-69KV	69	0
Northeast OR	PENDLETON	PILOT ROCK	5W404	MILL (PILOT ROCK)	12.5	2
Northeast OR	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	12.5	1,424
Northeast OR	PENDLETON	ROUNDUP (BPA)	WW11	BPA ROUNDUP-PILOT ROCK-69KV	69	0
Northeast OR	PENDLETON	WESTON NEW (OR)	5W40	WESTON CANNERY	12.5	14
Northeast OR	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	12.5	468
Northeast OR	WALLA WALLA	UMAPINE	5W105	UMAPINE FEEDER	12.5	102
Northeast OR	WALLA WALLA	UMAPINE	5W106	FERNDALE	12.5	1,454
South OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	12.5	914
South OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	12.5	875
South OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	12.5	976
South OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	12.5	1,045
South OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	12.5	1,639
South OR	GRANTS PASS	APPLEGATE	R23-2	APPLEGATE-HUMBUG CREEK-69KV	69	0
South OR	GRANTS PASS	APPLEGATE	R23-21	APPLEGATE-PROVOLT-69KV	69	1
South OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	12.5	1,254
South OR	GRANTS PASS	BEACON	5R105	BEACON ST	12.5	837
South OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	12.5	2,446
South OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH &READY	12.5	1,595
South OR	GRANTS PASS	CAVE JUNCTION	R02	CAVE JUNCTION-GRANTS PASS-115KV	115	1
South OR	GRANTS PASS	CAVE JUNCTION	R02-2	CAVE JCTN-DEL NORTE-115KV	115	0
South OR	GRANTS PASS	CAVE JUNCTION	R04	CAVE JCTN-DEL NORTE-115KV	115	0
South OR	GRANTS PASS	CAVE JUNCTION	R04-1	CAVE JCTN-O BRIEN-115KV	115	0
South OR	GRANTS PASS	CAVE JUNCTION	R04-2	O BRIEN-PATRICK CREEK-115KV	115	0
South OR	GRANTS PASS	CAVE JUNCTION	S15	CAVE JCTN-HAPPY CAMP-69KV	69	0
South OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	12.5	1,148

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	12.5	1,207
South OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	12.5	596
South OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	12.5	1,192
South OR	GRANTS PASS	DOWELL	5R331	DOVE	12.5	1,493
South OR	GRANTS PASS	DOWELL	5R334	DUCK	12.5	2,421
South OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	12.5	2,045
South OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	12.5	1,737
South OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	12.5	1,323
South OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	20.8	1,624
South OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	20.8	885
South OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	12.5	1,992
South OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	12.5	700
South OR	GRANTS PASS	GLENDALE SUBSTATION	BB08-3	GLENDALE-HANNA TAP-230KV	230	0
South OR	GRANTS PASS	GRANTS PASS	BB13-2	GRANTS PASS-WHETSTONE-230KV	230	0
South OR	GRANTS PASS	GRANTS PASS	R01-B	GRANTS PASS-WHITE CITY-115KV	115	0
South OR	GRANTS PASS	GRANTS PASS	R03	GRANTS PASS-CAVE JCTN-115KV	115	0
South OR	GRANTS PASS	GRANTS PASS	R03-3	JEROME PRAIRIE-SELMA-115KV	115	0
South OR	GRANTS PASS	GRANTS PASS	R13	GRANTS PASS-TOLO-69KV	69	1
South OR	GRANTS PASS	GRANTS PASS	R24	GRANTS PASS-BEACON-69KV	69	0
South OR	GRANTS PASS	GRANTS PASS	R7-1	CAVEMAN-GRANTS PASS-115KV	115	0
South OR	GRANTS PASS	GRANTS PASS	R7-3	EASY VALLEY-MERLIN-115KV	115	0
South OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	12.5	1,650
South OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	12.5	1,619
South OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	12.5	2,094
South OR	GRANTS PASS	MERLIN	5R234	PARADISE	12.5	1,212
South OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	12.5	1,845
South OR	GRANTS PASS	MERLIN	5R251	BADGER	12.5	925
South OR	GRANTS PASS	NEW O'BRIEN	5R106	O'BRIEN	12.5	466
South OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	12.5	2,140
South OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	12.5	1,013
South OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	12.5	1,879
South OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	12.5	322
South OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	12.5	1,544
South OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	12.5	1,425
South OR	GRANTS PASS	ROGUE RIVER	4R7	EVANS VALLEY	20.8	233
South OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMER	12.5	1,837
South OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	12.5	1,080
South OR	GRANTS PASS	ROGUE RIVER	R13-3	GOLD HILL-ROGUE RIVER-69KV	69	1
South OR	GRANTS PASS	SELMA	5R65	DEER CREEK	12.5	1,246
South OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	12.5	434
South OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	12.5	463
South OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	12.5	460
South OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	12.5	2,199
South OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	12.5	1,889
South OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	12.5	2,070
South OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	12.5	2,503
South OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	20.8	1,224
South OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	12	1,124
South OR	KLAMATH FALLS	CHILOQUIN	BB04-2	CHILOQUIN-LA PINE-230KV	230	0
South OR	KLAMATH FALLS	CHILOQUIN	K02	CHILOQUIN-MILE HI-115KV	115	0
South OR	KLAMATH FALLS	CHILOQUIN	K11	CHILOQUIN-CHILOQUIN MARKET-69KV	69	0
South OR	KLAMATH FALLS	CHILOQUIN MARKET	5L37	WILLIAMSON	12.5	493
South OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	12.5	323
South OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	12.5	499
South OR	KLAMATH FALLS	DORRIS	K10	DORRIS-TUNNEL TAP-69KV	69	0
South OR	KLAMATH FALLS	FISHHOLE	K05-4	BONANZA TAP-FISHHOLE-69KV	69	0

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	KLAMATH FALLS	FISHHOLE	K05-4D	BLY-FISHHOLE-69KV	69	0
South OR	KLAMATH FALLS	HAMAKER	5L55	KENO	12.5	1,771
South OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	12.5	168
South OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	12.5	237
South OR	KLAMATH FALLS	HENLEY	5L59	WEST	12.5	556
South OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	12.5	2,784
South OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	12.5	1,519
South OR	KLAMATH FALLS	HORNET	K04-2L	HENLEY TAP-HENLEY-69KV	69	0
South OR	KLAMATH FALLS	JOHN C. BOYLE SUB	K12-3A	HAMAKER-JC BOYLE TAP-69KV	69	0
South OR	KLAMATH FALLS	KLAMATH	BB06-1	BOYLE-KLAMATH FALLS-230KV	230	0
South OR	KLAMATH FALLS	KLAMATH	K05-1	KLAMATH FALLS-BONANZA-69KV	69	0
South OR	KLAMATH FALLS	KLAMATH	K05-B	BONANZA-BONANZA TAP-CASEBEER-69KV	69	0
South OR	KLAMATH FALLS	KLAMATH	K07-1	KLAMATH FALLS-WESTSIDE-69KV	69	1
South OR	KLAMATH FALLS	KLAMATH	K08	KLAMATH FALLS-WEYERHAUSER-69KV	69	0
South OR	KLAMATH FALLS	KLAMATH	K14-2	KLAMATH FALLS-PICARD SW STATION-69KV	69	0
South OR	KLAMATH FALLS	KLAMATH COGEN 500KV SWITCH	BB02-1	KLAMATH CO-GEN - CAPT JACK	500	0
South OR	KLAMATH FALLS	KLAMATH COGEN 500KV SWITCH	BB02-2	KLAMATH COGEN-MERIDAN 500KV LINE	500	0
South OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	12.5	221
South OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	12.5	2,483
South OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	12.5	8
South OR	KLAMATH FALLS	MALIN	BB05	KLAMATH FALLS-MALIN-230KV	230	0
South OR	KLAMATH FALLS	MALIN	BB14	CAPTAIN JACK-MALIN-500KV	500	0
South OR	KLAMATH FALLS	MALIN	BB17	MALIN-BPA WARNER-230KV	230	0
South OR	KLAMATH FALLS	MALIN	K04-2E	MALIN TAP-TULELAKE TAP-69KV	69	0
South OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	12.5	1,042
South OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	12.5	567
South OR	KLAMATH FALLS	MERRILL (OR)	K04B	MERRILL JCT-TUNNEL TAP-69KV	69	1
South OR	KLAMATH FALLS	MODOC	5L36	MODOC	12.5	1,021
South OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	12.5	1,396
South OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	12.5	1,252
South OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	20.8	1,513
South OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	4.1	447
South OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	12.5	522
South OR	KLAMATH FALLS	SUMMER LAKE (BPA)	CO01-2	MALIN-SUMMER LAKE-500KV	500	0
South OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	12.5	1,249
South OR	KLAMATH FALLS	TEXUM	5L113	TOWER	12.5	336
South OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	12.5	1,556
South OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	12.5	855
South OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	12.5	335
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L12	ORINDALE	12.5	830
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L15	CALIFORNIA	12.5	1,409
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L16	MAIN ST (WEST SIDE HE PLANT)	12.5	119
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L17	PINE ST (WEST SIDE HE PLANT)	12.5	525
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L18	RIVERSIDE (WEST SIDE HE PLANT)	12.5	610
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L19	LAKESHORE	12.5	304
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	8L10	CITY WTR PMP	2.4	1
South OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	12.5	758
South OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	12.5	1,769
South OR	LAKEVIEW	MILE-HI	K03	MILE HI-ALTURAS-115KV	115	2
South OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	12.5	1,013
South OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	R18	ASHLAND-BELKNAP-115KV	115	1
South OR	MEDFORD	BEALL LANE	5R359	BEEHIVE	12.5	2
South OR	MEDFORD	BEALL LANE	5R361	BULLDOG	12.5	1,703
South OR	MEDFORD	BEALL LANE	5R364	BOBCAT	12.5	2,196
South OR	MEDFORD	BELKNAP	5R1	KOGAP	12.5	1,024
South OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	12.5	686

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	MEDFORD	BELKNAP	5R3	BARNETT	12.5	1,568
South OR	MEDFORD	BELKNAP	5R47	STEWART	12.5	2,126
South OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	12.5	1,765
South OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	12.5	1,641
South OR	MEDFORD	BROOKHURST	5R32	ROXY	12.5	1,724
South OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	12.5	1,645
South OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	12.5	1,228
South OR	MEDFORD	CAMPBELL	5R216	VOORHIES	12.5	799
South OR	MEDFORD	CAMPBELL	5R218	PHOENIX	12.5	1,557
South OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	12.5	1,209
South OR	MEDFORD	CAMPBELL	5R312	COBRA	12.5	1,543
South OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	20.8	1,672
South OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	20.8	1,395
South OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	12.5	771
South OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	12.5	1,161
South OR	MEDFORD	FRALEY	5R87	TABLE ROCK	12.5	526
South OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	12.5	395
South OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	12.5	2,056
South OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	12.5	2,647
South OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	12.5	1,743
South OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	12.5	689
South OR	MEDFORD	LONE PINE	R01-A	LONE PINE-SCENIC-115KV	115	0
South OR	MEDFORD	LONE PINE	R10-1A	LONE PINE-WHITE CITY-115KV	115	0
South OR	MEDFORD	LONE PINE	R12	LONE PINE-PROSPECT CENTRAL-69KV	69	0
South OR	MEDFORD	LONE PINE	R12-1	FRALEY-LONE PINE-69KV	69	0
South OR	MEDFORD	LONE PINE	R25	LONE PINE-MEDFORD-69KV	69	0
South OR	MEDFORD	LONE PINE	R27-2	LONE PINE-PROSPECT CENTRAL-115KV	115	0
South OR	MEDFORD	MEDCO	5R280	BOISE CASCADE	12.5	1
South OR	MEDFORD	MEDFORD	5R21	MELROSE	12.5	1,625
South OR	MEDFORD	MEDFORD	5R23	SPRING ST.	12.5	1,633
South OR	MEDFORD	MEDFORD	5R250	BIG Y	12.5	1,900
South OR	MEDFORD	MEDFORD	5R253	APPLE	12.5	1,128
South OR	MEDFORD	MEDFORD	5R257	PEAR	12.5	610
South OR	MEDFORD	MEDFORD	5R659	MCLEAN	12.5	686
South OR	MEDFORD	MEDFORD	R23-10	HUMBUG CREEK-JACKSONVILLE-MEDFORD-69KV	69	0
South OR	MEDFORD	MEDFORD	R23-11	MEDFORD-JACKSONVILLE-69KV	69	1
South OR	MEDFORD	MEDFORD	R23-13	JACKSONVILLE-RUCH-69KV	69	0
South OR	MEDFORD	MERIDIAN	BB07	LONE PINE #1-MERIDIAN-230KV	230	0
South OR	MEDFORD	MERIDIAN	BB13-1	MERIDIAN-WHETSTONE-230KV	230	0
South OR	MEDFORD	MERIDIAN	BB16	LONE PINE #2-MERIDIAN-230KV	230	0
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIST	5R284	STAGE RD	12.5	2,115
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIST	5R285	JACKSONVILLE HWY	12.5	2,160
South OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	12.5	1,627
South OR	MEDFORD	OAK KNOLL	R08	TAP TO OAK KNOLL-115KV	115	1
South OR	MEDFORD	OAK KNOLL	R11-2A	BLADY SW STA-OAK KNOLL-115KV	115	1
South OR	MEDFORD	OAK KNOLL	R11-2E	BALDY SW STA-COPCO2-OAK KNOLL-115KV	115	0
South OR	MEDFORD	PROSPECT CENTRAL	5R40	NEW CASCADE	12.5	350
South OR	MEDFORD	PROSPECT CENTRAL	R14	PROSPECT CNTRL-PROSPECT #3-69KV	69	0
South OR	MEDFORD	RED BLANKET	7R5	PROSPECT	4.1	404
South OR	MEDFORD	ROXY ANN	5R350	St. Bernard	12.5	1,147
South OR	MEDFORD	ROXY ANN	5R354	RACCOON	12.5	1,422
South OR	MEDFORD	RUCH	5R68	APPLEGATE	12.5	925
South OR	MEDFORD	RUCH	5R69	RUCH	12.5	558
South OR	MEDFORD	SAGE ROAD (OR)	5R209	TIMBER PROD	12.5	1
South OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	12.5	2,003
South OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	12.5	926

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	12.5	120
South OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	12.5	1,774
South OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	12.5	769
South OR	MEDFORD	SAGE ROAD (OR)	R01-C	SAGE ROAD-SCENIC-115KV	115	0
South OR	MEDFORD	SAGE ROAD (OR)	R27-3	BALDY SW STA-SAGE ROAD-115KV	115	0
South OR	MEDFORD	SCENIC	5R174	UPTON	12.5	2,065
South OR	MEDFORD	SCENIC	5R180	HEAD RD	12.5	1,204
South OR	MEDFORD	SCENIC	5R182	TAYLOR RD	12.5	1,542
South OR	MEDFORD	SCENIC	5R184	CHENEY	12.5	1,451
South OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	20.8	2,182
South OR	MEDFORD	STEVENS ROAD	4R17	Stingray	20.8	2,516
South OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	20.8	1,168
South OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	20.8	2,670
South OR	MEDFORD	TALENT	5R237	TALENT	12.5	2,557
South OR	MEDFORD	TALENT	5R238	ANDERSON CRK	12.5	1,687
South OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	12.5	1,554
South OR	MEDFORD	TALENT	5R240	NORTH HWY	12.5	1,224
South OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	12.5	167
South OR	MEDFORD	TOLO	5R91	SAMS VALLEY	12.5	663
South OR	MEDFORD	TOLO	5R92	KIRTLAND RD	12.5	208
South OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	12.5	972
South OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	12.5	1,443
South OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	12.5	817
South OR	MEDFORD	WHETSTONE	R1-2	FIELDER CREEK-WHETSTONE115KV	115	0
South OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	12.5	1,469
South OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	12.5	38
South OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	12.5	26
South OR	MEDFORD	WHITE CITY	5R14	AGATE	12.5	111
South OR	MEDFORD	WHITE CITY	5R19	3M	12.5	96
South OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	12.5	1,784
South OR	MEDFORD	WHITE CITY	5R76	AVE C	12.5	94
South OR	ROSEBURG/MYRTLECREEK	ALVEY (BPA)	W103	ALVEY-DIXONVILLE-230KV	230	0
South OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U46	CANYONVILLE	12.5	425
South OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U52	BEALS CREEK FEEDER	12.5	918
South OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	12.5	425
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER	U07	CLEARWATER-LEMOLO #1-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER	U08	CLEARWATER-LEMOLO #2-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER	U09	CLEARWATER-CLEARWATER #1-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #1 SUB	6U17	BRIGGS	7.2	3
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SUB	6U33	CLEARWATER	7.2	102
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	20.8	3,146
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	20.8	1,256
South OR	ROSEBURG/MYRTLECREEK	DAYS CREEK	U01	DAYS CREEK-PROSPECT CNTRL-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	DAYS CREEK	U17-2	DAYS CREEK-NICKEL MOUNTAIN-115KV	115	1
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	BB08-1	DIXONVILLE-NICKEL MOUNTAIN-GRANTS PASS-230KV	230	1
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	BB08-2	DIXONVILLE-HANNA TAP-230KV	230	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	BB09	DIXONVILLE-RESTON-230KV	230	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	BB12	DIXONVILLE 500KV-DIXONVILLE-230KV	230	1
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U02	DIXONVILLE-DAYS CREEK-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U03	DIXONVILLE-TOKETEE SW STA-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U05	DIXONVILLE-SODA SPRINGS-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U10-1	DIXONVILLE-LOOKING GLASS-69KV	69	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U11	DIXONVILLE-ROBERTS CREEK-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U12-1	DIXONVILLE-WINCHESTER-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U12-2	DIXONVILLE-OAKLAND-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	20.8	808

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	20.8	1,331
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	12.5	1,010
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	12.5	1,369
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	12.5	2,088
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	12.5	1,660
South OR	ROSEBURG/MYRTLECREEK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOSER	7.2	26
South OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	12.5	182
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	12.5	1,574
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	12.5	2,345
South OR	ROSEBURG/MYRTLECREEK	NICKEL MOUNTAIN	BB11	NICKEL MOUNTAIN-HANNA TAP SW STATION-230KV	230	1
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	12.5	1,376
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	12.5	553
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	12.5	1,026
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	12.5	1,612
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	12.5	294
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	U13-2	RIDDLE-MYRTLE CREEK-GAZLEY-69KV	69	1
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U23	FORD MILL	12.5	1
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	12	30
South OR	ROSEBURG/MYRTLECREEK	ROBERTS CREEK	U10-3	ROBERTS CREEK-GREEN-69KV	69	0
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	20.8	2,505
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	20.8	1,115
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	20.8	2,126
South OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	7.2	6
South OR	ROSEBURG/MYRTLECREEK	SODA SPRINGS HE PLT	U04	SODA SPRINGS-TOKETEE-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	20.8	1,601
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	20.8	1,371
South OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	7.2	22
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	12.5	1,326
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	12.5	1,331
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	12.5	486
South OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	12.5	326
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	6U21	BACK UP FOR CLEARWATER 6U33	6.9	102
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	2.4	19
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	U06	TOKETEE-CLEARWATER-115KV	115	0
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	20.8	1,681
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	12.5	1,767
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	12.5	758
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	12.5	761
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	U10-2	WINCHESTER-GARDEN VALLEY-69KV	69	0
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	12.5	877
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	12.5	1,480
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	20.8	1,495
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	20.8	1,263
Willamette Valley	ALBANY	HAZELWOOD	WI07	HAZELWOOD-FRY-115KV	115	0
Willamette Valley	ALBANY	HAZELWOOD	WI10	HAZELWOOD-MARYS RIVER-115KV	115	0
Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	20.8	749
Willamette Valley	ALBANY	JEFFERSON (OR)	4M125	MINT	20.8	2,591
Willamette Valley	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	20.8	3,800
Willamette Valley	ALBANY	MURDER CREEK	4M245	RURAL NW	20.8	1,975
Willamette Valley	ALBANY	MURDER CREEK	4M249	DURA-PACIFIC	20.8	5
Willamette Valley	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	20.8	1,249
Willamette Valley	ALBANY	MURDER CREEK	5M131	WAH CHANG SOUTH	12.5	1
Willamette Valley	ALBANY	OREMET	4M295	OAK CREEK	20.8	113
Willamette Valley	ALBANY	OREMET	4M296	ROGERSDALE	20.8	2,209
Willamette Valley	ALBANY	OREMET	5M19	OREMET	12.5	3
Willamette Valley	ALBANY	PARRISH GAP	WI15-3	PARRISH GAP-JEFFERSON-69KV	69	0

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
Willamette Valley	ALBANY	PARRISH GAP	WI15-4	JEFFERSON-JEFFERSON TAP-69KV	69	1
Willamette Valley	ALBANY	QUEEN AVE	4M217	SANTIAM	20.8	2,005
Willamette Valley	ALBANY	QUEEN AVE	4M258	HILL STREET	20.8	2,202
Willamette Valley	ALBANY	QUEEN AVE	4M261	WAVERLY	20.8	3,400
Willamette Valley	ALBANY	QUEEN AVE	4M262	GEARY STREET	20.8	2,744
Willamette Valley	ALBANY	QUEEN AVE	WI14-2	QUEEN-SCIO-69KV	69	0
Willamette Valley	ALBANY	VINE STREET	4M15	FERRY	20.8	2,237
Willamette Valley	ALBANY	VINE STREET	4M16	WATER STREET	20.8	4,106
Willamette Valley	ALBANY	VINE STREET	WI13-3	VINE ST-INDEPENDENCE-69KV	69	1
Willamette Valley	ALBANY	VINE STREET	WI16	VINE STREET-JEFFERSON TAP-69KV	69	1
Willamette Valley	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	20.8	2,702
Willamette Valley	CORVALLIS	BUCHANAN	4M133	PEORIA	20.8	2,511
Willamette Valley	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	20.8	2,636
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M394	H. P. #1	20.8	1
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M427	H. P. #3	20.8	1
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M429	H. P. #5	20.8	1
Willamette Valley	CORVALLIS	DIXON	7M26	FOURTH ST.	4.1	250
Willamette Valley	CORVALLIS	DIXON	7M29	SECOND ST.	4.1	288
Willamette Valley	CORVALLIS	GRANT	4M265	HIGH SCHOOL	20.8	2,552
Willamette Valley	CORVALLIS	GRANT	4M266	CHINTIMINI	20.8	2,636
Willamette Valley	CORVALLIS	GRANT	4M268	KINGS ROAD	20.8	2,571
Willamette Valley	CORVALLIS	GRANT	4M269	29TH STREET	20.8	3,331
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	20.8	2,383
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	20.8	662
Willamette Valley	CORVALLIS	HILLVIEW	4M182	SUNSET	20.8	911
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	20.8	2,266
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	20.8	3,661
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	20.8	197
Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	20.8	161
Willamette Valley	CORVALLIS	MARYS RIVER	WI10-3	MARY'S RIVER-HILLVIEW-115KV	115	1
Willamette Valley	COTTAGE GROVE/J.CITY	ALVEY (BPA)	WI12	BPA ALVEY-VILLAGE GREEN-115KV	115	0
Willamette Valley	COTTAGE GROVE/J.CITY	CALAPOOYA	WI23	CALAPOOYA-HALSEY-69KV	69	0
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	20.8	538
Willamette Valley	COTTAGE GROVE/J.CITY	DIAMOND HILL	WI02-2	DIAMOND HILL-BPA ALVEY-230KV	230	0
Willamette Valley	COTTAGE GROVE/J.CITY	DIAMOND HILL	WI20	DIAMOND HILL-EWEB MCKENZIE-69KV	69	0
Willamette Valley	COTTAGE GROVE/J.CITY	DIAMOND HILL	WI21	DIAMOND HILL-JUNCTION CITY-69KV	69	0
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	20.8	1,630
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	20.8	1,898
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	20.8	1,163
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	20.8	933
Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	20.8	1,114
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	20.8	2,400
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	20.8	1,595
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	20.8	4,517
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	20.8	35
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLENDALE	20.8	2,918
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	20.8	2,343
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	20.8	2,034
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	20.8	3,128
Willamette Valley	DALLAS/INDEPENDENCE	MONPAC	WI05	MONPAC-BPA SALEM-115KV	115	0
Willamette Valley	DALLAS/INDEPENDENCE	MONPAC	WI13-4	MONPAC-INDEPENDENCE-69KV	69	1
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	12.5	2,901
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	20.8	1,550
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	20.8	1,883
Willamette Valley	LEBANON	FRY	WI01-A	FRY-PARRISH GAP-230KV	230	0
Willamette Valley	LEBANON	FRY	WI02-1	FRY-DIAMOND HILL	230	0

Oregon 2015 Active Circuits with Substation, Voltage and Customer Counts

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
Willamette Valley	LEBANON	FRY	WI06	FRY-MARYS RIVER-115KV	115	0
Willamette Valley	LEBANON	FRY	WI08	FRY-WESTERN KRAFT-115KV	115	0
Willamette Valley	LEBANON	FRY	WI08-1	FRY-MURDER CREEK-115KV	115	0
Willamette Valley	LEBANON	FRY	WI11	FRY-FOSTER-115KV	115	0
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	20.8	2,454
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	20.8	2,041
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	20.8	1,880
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	20.8	1,025
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	20.8	2,071
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	20.8	1,003
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	20.8	1,724
Willamette Valley	LEBANON	SWEET HOME	4M94	FOSTER	20.8	2,374
Willamette Valley	STAYTON	LYONS	WI14-4	LYONS-SANTIAM SWITCH STATION-69KV	69	1
Willamette Valley	STAYTON	NEW LYONS	4M120	MILL CITY	20.8	1,984
Willamette Valley	STAYTON	NEW LYONS	4M70	MEHAMA	20.8	1,002
Willamette Valley	STAYTON	NEW STAYTON	4M19	AUMSVILLE	20.8	3,219
Willamette Valley	STAYTON	NEW STAYTON	4M353	WEST STAYTON	20.8	3,488
Willamette Valley	STAYTON	NEW STAYTON	4M370	CASCADE	20.8	1,673
Willamette Valley	STAYTON	NEW STAYTON	4M50	3RD STREET	20.8	958
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	12.5	1,615
Willamette Valley	STAYTON	SCIO	WI14-3	SCIO-LYONS-69KV	69	1

Oregon 2015 Circuit Metrics (excluding major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	142	19,617	2,378	8.25	0.060
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	16	3,423	1,078	3.18	0.015
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	85	9,747	1,499	6.50	0.057
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	1,151	320,871	1,761	182.21	0.654
Central OR	BEND/REDMOND	BOND STREET	5D413	OLD MILL.	8	714	368	1.94	0.022
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	113	28,199	1,308	21.56	0.086
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	555	155,031	2,335	66.39	0.238
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	614	124,648	1,653	75.41	0.371
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	2,132	350,358	2,556	137.07	0.834
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	40	3,694	880	4.20	0.045
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	123	20,899	975	21.44	0.126
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	526	139,150	1,412	98.55	0.373
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	61	10,709	3,110	3.44	0.020
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	1,092	124,155	857	144.87	1.274
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	90	8,725	1,331	6.56	0.068
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	178	30,301	1,760	17.22	0.101
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	1,014	115,361	768	150.21	1.320
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	104	28,449	1,138	25.00	0.091
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	683	138,412	969	142.84	0.705
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	121	14,687	672	21.85	0.180
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	2	164	818	0.20	0.002
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	725	55,054	2,621	21.00	0.277
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	54	12,932	1,373	9.42	0.039
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	658	101,635	1,951	52.09	0.337
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	48	5,499	1,888	2.91	0.025
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	488	123,490	3,119	39.59	0.156
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	647	98,237	2,028	48.44	0.319
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	24	5,776	720	8.02	0.033
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	1,664	60,886	1,465	41.56	1.136
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	23	4,476	840	5.33	0.027
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	313	60,627	1,401	43.27	0.223
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	238	25,416	2,918	8.71	0.082
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	34	6,805	1,333	5.11	0.026
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	11	2,710	434	6.24	0.025
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	201	41,530	2,895	14.35	0.069
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	728	197,334	3,037	64.98	0.240
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	1,488	106,122	910	116.62	1.635
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	183	32,939	1,473	22.36	0.124
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	11	2,181	399	5.47	0.028
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	121	12,079	2,398	5.04	0.050
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	140	2,217	150	14.78	0.933
Central OR	MADRAS	CULVER	5D5	CULVER	3,300	337,805	1,789	188.82	1.845
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	314	39,748	1,039	38.26	0.302

Oregon 2015 Circuit Metrics (excluding major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Central OR	MADRAS	MADRAS	5D53	AGATE	137	25,765	1,326	19.43	0.103
Central OR	MADRAS	MADRAS	5D57	QUARTZ	6,690	442,038	1,425	310.20	4.695
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	1,536	163,054	1,339	121.77	1.147
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	976	114,570	625	183.31	1.562
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	15	1,164	889	1.31	0.017
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	3,263	288,898	2,648	109.10	1.232
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	1,917	162,993	993	164.14	1.931
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	1,095	128,227	1,668	76.87	0.656
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	629	60,460	649	93.16	0.969
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	254	44,301	1,617	27.40	0.157
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	2,540	372,290	1,087	342.49	2.337
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	648	133,178	1,576	84.50	0.411
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	53	6,466	1,222	5.29	0.043
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	1,106	117,241	261	449.20	4.238
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	586	137,487	381	360.86	1.538
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	1,324	258,120	707	365.09	1.873
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	3,434	664,279	940	706.68	3.653
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	5,158	342,867	2,391	143.40	2.157
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	274	19,893	1,643	12.11	0.167
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	955	163,735	1,195	137.02	0.799
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	3,448	265,868	3,147	84.48	1.096
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	107	11,581	1,829	6.33	0.059
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	125	15,921	558	28.53	0.224
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	2,179	207,888	1,591	130.67	1.370
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	1,353	67,186	1,226	54.80	1.104
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	3,736	405,444	1,137	356.59	3.286
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	36	1,663	960	1.73	0.038
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	138	18,047	328	55.02	0.421
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	41	2,863	940	3.05	0.044
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	428	89,357	1,009	88.56	0.424
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	249	22,051	1,409	15.65	0.177
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	1,418	230,478	793	290.64	1.788
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	2,090	624,919	1,413	442.26	1.479
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	2,323	297,056	1,774	167.45	1.309
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	3,854	748,950	1,637	457.51	2.354
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	159	22,727	157	144.76	1.013
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C108	EMPIRE NEW	249	12,918	1,760	7.34	0.141
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C89	SCOTT	646	153,484	1,433	107.11	0.451
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C90	CHARLESTON	2,799	223,468	2,212	101.03	1.265
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	2	441	32	13.79	0.063
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C48	CITY CENTER	163	14,953	1,604	9.32	0.102
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C49	EASTSIDE	45	6,098	802	7.60	0.056
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C5	GEORGIA-PAC	1	189	101	1.87	0.010

Oregon 2015 Circuit Metrics (excluding major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C50	BUNKERHILL	1,302	148,491	1,938	76.62	0.672
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C97	ENGLEWOOD	409	70,334	1,433	49.08	0.285
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	252	22,714	359	63.27	0.702
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	1,324	349,690	2,207	158.45	0.600
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	181	32,123	1,882	17.07	0.096
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	2,070	70,123	1,731	40.51	1.196
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	3,302	452,286	2,296	196.99	1.438
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	145	28,958	1,806	16.03	0.080
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	44	9,742	512	19.03	0.086
CoastPlus	HOOD RIVER	GRASS VALLEY	6K1	KENT	36	8,408	65	129.35	0.554
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	134	7,319	2,110	3.47	0.064
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	11	620	1,148	0.54	0.010
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	133	3,882	1,783	2.18	0.075
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	1,395	120,306	1,053	114.25	1.325
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	237	35,299	1,671	21.12	0.142
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	1,143	153,887	732	210.23	1.561
CoastPlus	HOOD RIVER	MORO	8K6	MORO	5	700	117	5.98	0.043
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	122	8,765	274	31.99	0.445
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	6,316	447,013	1,837	243.34	3.438
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	934	108,900	2,937	37.08	0.318
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	20,942	2,161,263	4,472	483.29	4.683
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	704	187,465	660	284.04	1.067
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	1,215	419,980	711	590.69	1.709
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	520	169,649	360	471.25	1.444
CoastPlus	LINCOLN CITY	NELSCOTT	7A390	NELSCOTT	370	20,881	354	58.99	1.045
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R114	BOYER	3	647	19	34.03	0.158
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	746	15,477	706	21.92	1.057
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	295	32,558	678	48.02	0.435
CoastPlus	PORTLAND	ALBINA	5P200	11C20-UG	295	31,993	456	70.16	0.647
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P22	ALDERWOOD #2	316	15,657	209	74.91	1.512
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P33	ALDERWOOD #4	377	33,231	184	180.60	2.049
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	185	11,813	179	65.99	1.034
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	#2	315	29,959	2,565	11.68	0.123
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	1	296	325	0.91	0.003
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	598	116,643	562	207.55	1.064
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	129	21,226	795	26.70	0.162
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	4	511	839	0.61	0.005
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	1,465	196,322	799	245.71	1.834
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	36	2,859	2,402	1.19	0.015
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	82	7,789	2,925	2.66	0.028
CoastPlus	PORTLAND	HOLLADAY (OR)	5P147	HOLLADAY #3-UG	3	574	27	21.26	0.111
CoastPlus	PORTLAND	HOLLADAY (OR)	5P157	HOLLADAY #5-UG	1	127	325	0.39	0.003
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	125	36,330	1,358	26.75	0.092

Oregon 2015 Circuit Metrics (excluding major events)

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CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	111	12,950	1,869	6.93	0.059
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	102	14,396	2,103	6.85	0.049
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	588	70,819	1,731	40.91	0.340
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	245	115,020	2,351	48.92	0.104
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	354	15,705	346	45.39	1.023
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	879	39,452	427	92.39	2.059
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	2,919	137,386	2,733	50.27	1.068
CoastPlus	PORTLAND	KILLINGSWORTH	5P88	KILLINGSWORTH #1-UG	16	689	16	43.07	1.000
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	3,487	205,651	3,095	66.45	1.127
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	2,973	174,739	2,775	62.97	1.071
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	105	16,634	1,324	12.56	0.079
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	8	601	2,312	0.26	0.003
CoastPlus	PORTLAND	KNOTT	5P372	11046	544	208,108	484	429.97	1.124
CoastPlus	PORTLAND	KNOTT	5P374	11020	12	2,157	994	2.17	0.012
CoastPlus	PORTLAND	LINCOLN (OR)	5P422	11D06-UG	26	8,254	546	15.12	0.048
CoastPlus	PORTLAND	LINCOLN (OR)	5P432	11D02-UG	7	1,638	464	3.53	0.015
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	23	1,835	1,981	0.93	0.012
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	338	93,694	3,026	30.96	0.112
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	149	10,876	3,083	3.53	0.048
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	4,215	292,816	3,073	95.29	1.372
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	88	14,713	677	21.73	0.130
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	192	36,981	1,794	20.61	0.107
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	165	37,420	3,018	12.40	0.055
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	4,812	182,347	2,167	84.15	2.221
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	150	14,501	3,220	4.50	0.047
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	381	88,365	1,283	68.87	0.297
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	92	13,339	1,810	7.37	0.051
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	98	22,093	2,494	8.86	0.039
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	3,963	365,072	3,097	117.88	1.280
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	134	12,868	3,228	3.99	0.042
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	54	6,330	2,182	2.90	0.025
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	858	107,279	1,440	74.50	0.596
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	150	10,566	947	11.16	0.158
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	1,053	85,160	1,063	80.11	0.991
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	725	71,993	855	84.20	0.848
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	26	6,656	13	512.03	2.000
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	526	38,801	174	222.99	3.023
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	148	18,263	55	332.06	2.691
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	69	8,081	861	9.39	0.080
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	37	5,245	571	9.19	0.065
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	7	1,687	24	70.29	0.292
Northeast OR	HERMISTON	DALREED	4K16	WILLOW COVE	9	1,563	76	20.56	0.118
Northeast OR	HERMISTON	DALREED	4K36	SIMTAG	12	6,338	18	352.09	0.667

Oregon 2015 Circuit Metrics (excluding major events)

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Northeast OR	HERMISTON	DALREED	4K46	BOEING	228	20,885	182	114.76	1.253
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	2,633	328,241	1,412	232.47	1.865
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	773	88,064	388	226.97	1.992
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	368	57,790	1,200	48.16	0.307
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	277	102,514	920	111.43	0.301
Northeast OR	PENDLETON	ATHENA	5W703	CITY	244	31,639	882	35.87	0.277
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	1,595	391,055	442	884.74	3.609
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	36	6,117	411	14.88	0.088
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	688	89,343	1,549	57.68	0.444
Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	291	55,141	1,674	32.94	0.174
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	2,041	95,827	1,753	54.66	1.164
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	2,332	264,024	2,153	122.63	1.083
Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	145	31,639	1,075	29.43	0.135
Northeast OR	PENDLETON	PENDLETON	7W451	BUSINESS	1	40	270	0.15	0.004
Northeast OR	PENDLETON	PENDLETON	7W452	NORTHWEST	13	1,101	525	2.10	0.025
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDELTON)	1	82	380	0.22	0.003
Northeast OR	PENDLETON	PENDLETON	7W454	EAST END	278	49,887	271	184.08	1.026
Northeast OR	PENDLETON	PILOT ROCK	5W404	MILL (PILOT ROCK)	2	175	2	87.63	1.000
Northeast OR	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	2,510	296,154	1,424	207.97	1.763
Northeast OR	PENDLETON	WESTON NEW (OR)	5W40	WESTON CANNERY	-	-	14	-	-
Northeast OR	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	211	21,684	468	46.33	0.451
Northeast OR	WALLA WALLA	UMAPINE	5W105	UMAPINE FEEDER	671	129,616	102	1,270.74	6.578
Northeast OR	WALLA WALLA	UMAPINE	5W106	FERNDAL	6,783	558,204	1,454	383.91	4.665
South OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	894	265,920	914	290.94	0.978
South OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	1,060	49,259	875	56.30	1.211
South OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	88	14,096	976	14.44	0.090
South OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	1,023	188,879	1,045	180.75	0.979
South OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	639	125,956	1,639	76.85	0.390
South OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	37	5,748	1,254	4.58	0.030
South OR	GRANTS PASS	BEACON	5R105	BEACON ST	208	20,092	837	24.01	0.249
South OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE & EASY	2,137	850,445	2,446	347.69	0.874
South OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH & READY	2,258	473,255	1,595	296.71	1.416
South OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	1,203	106,871	1,148	93.09	1.048
South OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	17	1,175	1,207	0.97	0.014
South OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	268	40,334	596	67.67	0.450
South OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	63	12,391	1,192	10.39	0.053
South OR	GRANTS PASS	DOWELL	5R331	DOVE	162	5,120	1,493	3.43	0.109
South OR	GRANTS PASS	DOWELL	5R334	DUCK	420	14,885	2,421	6.15	0.173
South OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	623	36,539	2,045	17.87	0.305
South OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	322	33,898	1,737	19.52	0.185
South OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	1,101	166,240	1,323	125.65	0.832
South OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	1,819	353,233	1,624	217.51	1.120
South OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	1,391	635,120	885	717.65	1.572

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South OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	5,132	527,711	1,992	264.92	2.576
South OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	854	136,444	700	194.92	1.220
South OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	2,352	775,837	1,650	470.20	1.425
South OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	1,923	544,253	1,619	336.17	1.188
South OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	1,774	441,987	2,094	211.07	0.847
South OR	GRANTS PASS	MERLIN	5R234	PARADISE	436	72,736	1,212	60.01	0.360
South OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	2,880	928,169	1,845	503.07	1.561
South OR	GRANTS PASS	MERLIN	5R251	BADGER	465	35,042	925	37.88	0.503
South OR	GRANTS PASS	NEW O'BRIEN	5R106	O'BRIEN	544	39,698	466	85.19	1.167
South OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	350	58,820	2,140	27.49	0.164
South OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	61	7,642	1,013	7.54	0.060
South OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	85	16,028	1,879	8.53	0.045
South OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	1	241	322	0.75	0.003
South OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	1,962	215,057	1,544	139.29	1.271
South OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	1,982	1,175,431	1,425	824.86	1.391
South OR	GRANTS PASS	ROGUE RIVER	4R7	EVANS VALLEY	233	11,297	233	48.48	1.000
South OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMMER	2,357	243,918	1,837	132.78	1.283
South OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	1,137	72,400	1,080	67.04	1.053
South OR	GRANTS PASS	SELMA	5R65	DEER CREEK	2,056	349,196	1,246	280.25	1.650
South OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	853	104,031	434	239.70	1.965
South OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	511	74,539	463	160.99	1.104
South OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	272	33,911	460	73.72	0.591
South OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	178	36,013	2,199	16.38	0.081
South OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	160	44,163	1,889	23.38	0.085
South OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	6,592	278,303	2,070	134.45	3.185
South OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	5,225	296,658	2,503	118.52	2.087
South OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	600	72,990	1,224	59.63	0.490
South OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	1,023	284,178	1,124	252.83	0.910
South OR	KLAMATH FALLS	CHILOQUIN MARKET	5L37	WILLIAMSON	694	63,339	493	128.48	1.408
South OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	180	21,247	323	65.78	0.557
South OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	347	37,474	499	75.10	0.695
South OR	KLAMATH FALLS	HAMAKER	5L55	KENO	1,038	136,951	1,771	77.33	0.586
South OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	15	7,184	168	42.76	0.089
South OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	1,190	128,622	237	542.71	5.021
South OR	KLAMATH FALLS	HENLEY	5L59	WEST	2,812	288,977	556	519.74	5.058
South OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	230	29,198	2,784	10.49	0.083
South OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	1,984	226,475	1,519	149.09	1.306
South OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	226	1,489	221	6.74	1.023
South OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	534	95,918	2,483	38.63	0.215
South OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	8	45	8	5.57	1.000
South OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	7,036	743,350	1,042	713.39	6.752
South OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	2,658	185,785	567	327.66	4.688
South OR	KLAMATH FALLS	MODOC	5L36	MODOC	2,165	355,753	1,021	348.44	2.120

Oregon 2015 Circuit Metrics (excluding major events)

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South OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	28	3,277	1,396	2.35	0.020
South OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	-	-	1,252	-	-
South OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	4,972	1,157,495	1,513	765.03	3.286
South OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	2	263	447	0.59	0.004
South OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	731	85,833	522	164.43	1.400
South OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	1,271	365,493	1,249	292.63	1.018
South OR	KLAMATH FALLS	TEXUM	5L113	TOWER	799	160,863	336	478.76	2.378
South OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	2,288	661,580	1,556	425.18	1.470
South OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	5,056	375,026	855	438.63	5.913
South OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	2,122	170,390	335	508.63	6.334
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L12	ORINDALE	834	80,297	830	96.74	1.005
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L15	CALIFORNIA	1,409	84,241	1,409	59.79	1.000
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L16	MAIN ST (WEST SIDE HE PLANT)	144	6,397	119	53.76	1.210
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L17	PINE ST (WEST SIDE HE PLANT)	526	4,214	525	8.03	1.002
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L18	RIVERSIDE (WEST SIDE HE PLANT)	647	6,818	610	11.18	1.061
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L19	LAKESHORE	325	5,834	304	19.19	1.069
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	8L10	CITY WTR PMP	1	6	1	5.57	1.000
South OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	28	7,169	758	9.46	0.037
South OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	447	125,699	1,769	71.06	0.253
South OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	428	115,803	1,013	114.32	0.423
South OR	MEDFORD	BEALL LANE	5R359	BEEHIVE	2	214	2	107.23	1.000
South OR	MEDFORD	BEALL LANE	5R361	BULLDOG	359	38,098	1,703	22.37	0.211
South OR	MEDFORD	BEALL LANE	5R364	BOBCAT	2,362	451,654	2,196	205.67	1.076
South OR	MEDFORD	BELKNAP	5R1	KOGAP	3,478	296,797	1,024	289.84	3.396
South OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	691	44,632	686	65.06	1.007
South OR	MEDFORD	BELKNAP	5R3	BARNETT	154	43,159	1,568	27.53	0.098
South OR	MEDFORD	BELKNAP	5R47	STEWART	70	7,795	2,126	3.67	0.033
South OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	2,041	75,669	1,765	42.87	1.156
South OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	1,971	482,716	1,641	294.16	1.201
South OR	MEDFORD	BROOKHURST	5R32	ROXY	205	40,934	1,724	23.74	0.119
South OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	571	158,910	1,645	96.60	0.347
South OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	31	5,519	1,228	4.49	0.025
South OR	MEDFORD	CAMPBELL	5R216	VOORHIES	-	-	799	-	-
South OR	MEDFORD	CAMPBELL	5R218	PHOENIX	799	179,232	1,557	115.11	0.513
South OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	392	49,321	1,209	40.79	0.324
South OR	MEDFORD	CAMPBELL	5R312	COBRA	1,277	96,563	1,543	62.58	0.828
South OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	2,192	528,799	1,672	316.27	1.311
South OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	255	17,213	1,395	12.34	0.183
South OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	23	4,066	771	5.27	0.030
South OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	81	24,888	1,161	21.44	0.070
South OR	MEDFORD	FRALEY	5R87	TABLE ROCK	117	19,181	526	36.46	0.222
South OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	51	13,045	395	33.03	0.129
South OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	2,757	162,955	2,056	79.26	1.341

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South OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	151	14,495	2,647	5.48	0.057
South OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	328	43,136	1,743	24.75	0.188
South OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	379	35,782	689	51.93	0.550
South OR	MEDFORD	MEDFORD	5R21	MELROSE	1,698	197,868	1,625	121.76	1.045
South OR	MEDFORD	MEDFORD	5R23	SPRING ST.	201	63,579	1,633	38.93	0.123
South OR	MEDFORD	MEDFORD	5R250	BIG Y	260	55,021	1,900	28.96	0.137
South OR	MEDFORD	MEDFORD	5R253	APPLE	107	17,569	1,128	15.58	0.095
South OR	MEDFORD	MEDFORD	5R257	PEAR	3	174	610	0.29	0.005
South OR	MEDFORD	MEDFORD	5R659	MCLEAN	-	-	686	-	-
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIST	5R284	STAGE RD	462	65,229	2,115	30.84	0.218
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIST	5R285	JACKSONVILLE HWY	454	97,861	2,160	45.31	0.210
South OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	5,509	459,613	1,627	282.49	3.386
South OR	MEDFORD	PROSPECT CENTRAL	5R40	NEW CASCADE	4	1,215	350	3.47	0.011
South OR	MEDFORD	RED BLANKET	7R5	PROSPECT	4	559	404	1.38	0.010
South OR	MEDFORD	ROXY ANN	5R350	St. Bernard	92	28,773	1,147	25.09	0.080
South OR	MEDFORD	ROXY ANN	5R354	RACCOON	239	51,559	1,422	36.26	0.168
South OR	MEDFORD	RUCH	5R68	APPLEGATE	269	66,978	925	72.41	0.291
South OR	MEDFORD	RUCH	5R69	RUCH	581	37,454	558	67.12	1.041
South OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	2,122	759,967	2,003	379.41	1.059
South OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	1,173	55,475	926	59.91	1.267
South OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	240	72,647	120	605.39	2.000
South OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	7,460	830,376	1,774	468.08	4.205
South OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	3,031	415,434	769	540.23	3.941
South OR	MEDFORD	SCENIC	5R174	UPTON	124	18,610	2,065	9.01	0.060
South OR	MEDFORD	SCENIC	5R180	HEAD RD	51	11,200	1,204	9.30	0.042
South OR	MEDFORD	SCENIC	5R182	TAYLOR RD	382	76,889	1,542	49.86	0.248
South OR	MEDFORD	SCENIC	5R184	CHENEY	217	67,848	1,451	46.76	0.150
South OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	271	53,658	2,182	24.59	0.124
South OR	MEDFORD	STEVENS ROAD	4R17	Stingray	959	190,414	2,516	75.68	0.381
South OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	1,037	180,642	1,168	154.66	0.888
South OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	192	31,353	2,670	11.74	0.072
South OR	MEDFORD	TALENT	5R237	TALENT	3,424	313,704	2,557	122.68	1.339
South OR	MEDFORD	TALENT	5R238	ANDERSON CRK	250	45,840	1,687	27.17	0.148
South OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	1,631	231,907	1,554	149.23	1.050
South OR	MEDFORD	TALENT	5R240	NORTH HWY	1,225	49,376	1,224	40.34	1.001
South OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	10	1,028	167	6.16	0.060
South OR	MEDFORD	TOLO	5R91	SAMS VALLEY	740	154,783	663	233.46	1.116
South OR	MEDFORD	TOLO	5R92	KIRTLAND RD	215	11,858	208	57.01	1.034
South OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	237	14,313	972	14.73	0.244
South OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	232	37,070	1,443	25.69	0.161
South OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	6	575	817	0.70	0.007
South OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	324	63,096	1,469	42.95	0.221
South OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	-	-	38	-	-

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Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
South OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	-	-	26	-	-
South OR	MEDFORD	WHITE CITY	5R14	AGATE	12	1,647	111	14.84	0.108
South OR	MEDFORD	WHITE CITY	5R19	3M	11	1,616	96	16.83	0.115
South OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	48	13,554	1,784	7.60	0.027
South OR	MEDFORD	WHITE CITY	5R76	AVE C	6	1,190	94	12.66	0.064
South OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U46	CANYONVILLE	374	67,785	425	159.49	0.880
South OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U52	BEALS CREEK FEEDER	3,405	452,784	918	493.23	3.709
South OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	26	2,329	425	5.48	0.061
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #1 SUB	6U17	BRIGGS	6	586	3	195.23	2.000
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SUB	6U33	CLEARWATER	243	47,362	102	464.33	2.382
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	1,200	231,867	3,146	73.70	0.381
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	878	74,033	1,256	58.94	0.699
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	816	27,132	808	33.58	1.010
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	1,609	57,476	1,331	43.18	1.209
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	2,712	1,051,293	1,010	1,040.88	2.685
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	3,604	1,268,687	1,369	926.73	2.633
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	618	45,598	2,088	21.84	0.296
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	50	7,978	1,660	4.81	0.030
South OR	ROSEBURG/MYRTLECREEK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOSER	25	4,225	26	162.48	0.962
South OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	944	444,199	182	2,440.65	5.187
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	213	42,549	1,574	27.03	0.135
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	1,020	142,461	2,345	60.75	0.435
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	349	44,228	1,376	32.14	0.254
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	8	741	553	1.34	0.014
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	17	1,044	1,026	1.02	0.017
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	868	196,972	1,612	122.19	0.538
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	127	22,083	294	75.11	0.432
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	11	1,686	30	56.19	0.367
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	105	33,627	2,505	13.42	0.042
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	161	19,412	1,115	17.41	0.144
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	2,588	268,392	2,126	126.24	1.217
South OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	6	948	6	158.02	1.000
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	167	36,065	1,601	22.53	0.104
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	11	522	1,371	0.38	0.008
South OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	23	1,279	22	58.12	1.045
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	5	444	1,326	0.34	0.004
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	36	3,099	1,331	2.33	0.027
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	16	547	486	1.13	0.033
South OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	1,063	91,445	326	280.51	3.261
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	6U21	BACK UP FOR CLEARWATER 6U33	204	13,622	102	133.55	2.000
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	-	-	19	-	-
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	2,038	89,707	1,681	53.37	1.212
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	2,849	637,457	1,767	360.76	1.612

Oregon 2015 Circuit Metrics (excluding major events)

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South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	2,068	684,247	758	902.70	2.728
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	988	344,152	761	452.24	1.298
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	47	5,223	877	5.96	0.054
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	461	64,061	1,480	43.28	0.311
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	1,572	117,500	1,495	78.60	1.052
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	2,080	250,495	1,263	198.33	1.647
Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	2,764	226,217	749	302.03	3.690
Willamette Valley	ALBANY	JEFFERSON (OR)	4M125	MINT	15,073	1,476,651	2,591	569.92	5.817
Willamette Valley	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	4,165	115,836	3,800	30.48	1.096
Willamette Valley	ALBANY	MURDER CREEK	4M245	RURAL NW	9,290	416,330	1,975	210.80	4.704
Willamette Valley	ALBANY	MURDER CREEK	4M249	DURA-PACIFIC	7	162	5	32.34	1.400
Willamette Valley	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	3,810	252,639	1,249	202.27	3.050
Willamette Valley	ALBANY	MURDER CREEK	5M131	WAH CHANG SOUTH	1	8	1	8.15	1.000
Willamette Valley	ALBANY	OREMET	4M295	OAK CREEK	121	2,512	113	22.23	1.071
Willamette Valley	ALBANY	OREMET	4M296	ROGERSDALE	2,405	69,232	2,209	31.34	1.089
Willamette Valley	ALBANY	OREMET	5M19	OREMET	4	557	3	185.83	1.333
Willamette Valley	ALBANY	QUEEN AVE	4M217	SANTIAM	79	8,552	2,005	4.27	0.039
Willamette Valley	ALBANY	QUEEN AVE	4M258	HILL STREET	320	86,120	2,202	39.11	0.145
Willamette Valley	ALBANY	QUEEN AVE	4M261	WAVERLY	1,002	223,418	3,400	65.71	0.295
Willamette Valley	ALBANY	QUEEN AVE	4M262	GEARY STREET	3,176	403,052	2,744	146.88	1.157
Willamette Valley	ALBANY	VINE STREET	4M15	FERRY	2,751	197,068	2,237	88.09	1.230
Willamette Valley	ALBANY	VINE STREET	4M16	WATER STREET	1,485	357,816	4,106	87.14	0.362
Willamette Valley	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	2,849	37,535	2,702	13.89	1.054
Willamette Valley	CORVALLIS	BUCHANAN	4M133	PEORIA	8,499	669,986	2,511	266.82	3.385
Willamette Valley	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	4,890	657,169	2,636	249.31	1.855
Willamette Valley	CORVALLIS	DIXON	7M26	FOURTH ST.	251	2,210	250	8.84	1.004
Willamette Valley	CORVALLIS	DIXON	7M29	SECOND ST.	293	2,376	288	8.25	1.017
Willamette Valley	CORVALLIS	GRANT	4M265	HIGH SCHOOL	2,997	173,079	2,552	67.82	1.174
Willamette Valley	CORVALLIS	GRANT	4M266	CHINTIMINI	2,676	110,571	2,636	41.95	1.015
Willamette Valley	CORVALLIS	GRANT	4M268	KINGS ROAD	4,002	408,875	2,571	159.03	1.557
Willamette Valley	CORVALLIS	GRANT	4M269	29TH STREET	7,502	730,100	3,331	219.18	2.252
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	64	2,236	2,383	0.94	0.027
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	501	55,202	662	83.39	0.757
Willamette Valley	CORVALLIS	HILLVIEW	4M182	SUNSET	206	15,634	911	17.16	0.226
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	2,943	924,784	2,266	408.11	1.299
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	5,283	339,128	3,661	92.63	1.443
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	209	2,328	197	11.82	1.061
Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	162	1,614	161	10.03	1.006
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	747	233,319	538	433.68	1.388
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	208	42,751	1,630	26.23	0.128
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	542	75,333	1,898	39.69	0.286
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	209	21,871	1,163	18.81	0.180
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	35	16,215	933	17.38	0.038

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Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	4,000	1,226,973	1,114	1,101.41	3.591
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	155	28,440	2,400	11.85	0.065
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	2,178	275,954	1,595	173.01	1.366
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	10,105	694,961	4,517	153.85	2.237
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	35	1,136	35	32.45	1.000
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLENDALE	8,275	493,844	2,918	169.24	2.836
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	9,218	1,660,894	2,343	708.88	3.934
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	12,571	648,358	2,034	318.76	6.180
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	8,405	1,225,207	3,128	391.69	2.687
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	4,667	435,755	2,901	150.21	1.609
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	747	168,937	1,550	108.99	0.482
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	401	127,486	1,883	67.70	0.213
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	3,322	215,910	2,454	87.98	1.354
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	2,086	20,485	2,041	10.04	1.022
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	5,328	1,013,767	1,880	539.24	2.834
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	1,110	37,334	1,025	36.42	1.083
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	3,486	874,843	2,071	422.43	1.683
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	1,148	173,595	1,003	173.08	1.145
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	120	14,045	1,724	8.15	0.070
Willamette Valley	LEBANON	SWEET HOME	4M94	FOSTER	4,764	613,440	2,374	258.40	2.007
Willamette Valley	STAYTON	NEW LYONS	4M120	MILL CITY	13,241	1,525,791	1,984	769.05	6.674
Willamette Valley	STAYTON	NEW LYONS	4M70	MEHAMA	3,478	353,741	1,002	353.04	3.471
Willamette Valley	STAYTON	NEW STAYTON	4M19	AUMSVILLE	3,801	136,694	3,219	42.46	1.181
Willamette Valley	STAYTON	NEW STAYTON	4M353	WEST STAYTON	1,586	309,057	3,488	88.61	0.455
Willamette Valley	STAYTON	NEW STAYTON	4M370	CASCADE	1,623	184,921	1,673	110.53	0.970
Willamette Valley	STAYTON	NEW STAYTON	4M50	3RD STREET	148	57,747	958	60.28	0.154
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	2,682	380,692	1,615	235.72	1.661

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Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	155	28,278	2,378	11.89	0.065
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	16	3,423	1,078	3.18	0.015
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	103	16,743	1,499	11.17	0.069
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	1,151	320,871	1,761	182.21	0.654
Central OR	BEND/REDMOND	BOND STREET	5D413	OLD MILL.	8	714	368	1.94	0.022
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	175	38,971	1,308	29.79	0.134
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	2,907	584,153	2,335	250.17	1.245
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	614	124,648	1,653	75.41	0.371
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	2,132	350,358	2,556	137.07	0.834
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	1,145	169,639	880	192.77	1.301
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	1,116	243,306	975	249.54	1.145
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	1,941	310,396	1,412	219.83	1.375
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	3,193	560,009	3,110	180.07	1.027
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	1,985	240,188	857	280.27	2.316
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	2,706	263,618	1,331	198.06	2.033
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	3,724	546,844	1,760	310.71	2.116
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	2,565	341,116	768	444.16	3.340
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	110	30,967	1,138	27.21	0.097
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	1,354	382,371	969	394.60	1.397
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	121	14,687	672	21.85	0.180
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	11	5,440	818	6.65	0.013
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	726	56,300	2,621	21.48	0.277
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	193	35,295	1,373	25.71	0.141
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	770	128,924	1,951	66.08	0.395
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	1,945	92,642	1,888	49.07	1.030
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	496	125,202	3,119	40.14	0.159
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	647	98,237	2,028	48.44	0.319
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	24	5,776	720	8.02	0.033
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	1,665	61,210	1,465	41.78	1.137
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	23	4,476	840	5.33	0.027
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	313	60,627	1,401	43.27	0.223
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	238	25,416	2,918	8.71	0.082
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	157	27,856	1,333	20.90	0.118
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	11	2,710	434	6.24	0.025
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	202	41,678	2,895	14.40	0.070
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	729	197,485	3,037	65.03	0.240
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	1,488	106,122	910	116.62	1.635
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	183	32,939	1,473	22.36	0.124
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	11	2,181	399	5.47	0.028
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	121	12,079	2,398	5.04	0.050
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	292	5,670	150	37.80	1.947
Central OR	MADRAS	CULVER	5D5	CULVER	6,963	1,755,921	1,789	981.51	3.892
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	1,355	83,982	1,039	80.83	1.304

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Central OR	MADRAS	MADRAS	5D53	AGATE	1,466	42,621	1,326	32.14	1.106
Central OR	MADRAS	MADRAS	5D57	QUARTZ	8,122	460,897	1,425	323.44	5.700
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	2,880	180,313	1,339	134.66	2.151
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	981	115,248	625	184.40	1.570
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	15	1,164	889	1.31	0.017
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	3,263	288,898	2,648	109.10	1.232
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	1,917	162,993	993	164.14	1.931
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	1,096	128,289	1,668	76.91	0.657
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	630	60,757	649	93.62	0.971
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	254	44,301	1,617	27.40	0.157
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	4,759	408,902	1,087	376.17	4.378
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	2,659	277,451	1,576	176.05	1.687
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	1,276	53,125	1,222	43.47	1.044
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	1,527	246,483	261	944.38	5.851
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	966	188,105	381	493.72	2.535
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	1,393	295,965	707	418.62	1.970
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	5,089	1,146,564	940	1,219.75	5.414
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	9,982	1,281,864	2,391	536.12	4.175
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	3,573	650,372	1,643	395.84	2.175
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	3,598	656,774	1,195	549.60	3.011
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	10,131	1,511,489	3,147	480.30	3.219
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	2,029	145,963	1,829	79.80	1.109
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	677	47,913	558	85.87	1.213
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	4,545	476,953	1,591	299.78	2.857
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	1,472	79,592	1,226	64.92	1.201
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	4,150	659,992	1,137	580.47	3.650
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	37	1,847	960	1.92	0.039
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	138	18,047	328	55.02	0.421
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	1,020	260,903	940	277.56	1.085
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	1,891	455,506	1,009	451.44	1.874
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	338	57,838	1,409	41.05	0.240
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	1,774	293,299	793	369.86	2.237
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	3,211	1,496,086	1,413	1,058.80	2.272
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	4,141	386,857	1,774	218.07	2.334
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	5,799	981,476	1,637	599.56	3.542
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	307	24,715	157	157.42	1.955
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C108	EMPIRE	2,042	117,608	1,760	66.82	1.160
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C89	SCOTT	658	164,279	1,433	114.64	0.459
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C90	CHARLESTON	2,813	228,483	2,212	103.29	1.272
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	2	441	32	13.79	0.063
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C48	CITY CENTER	188	16,893	1,604	10.53	0.117
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C49	EASTSIDE	48	6,173	802	7.70	0.060
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C5	GEORGIA-PAC	1	189	101	1.87	0.010

Oregon 2015 Circuit Metrics (including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C50	BUNKERHILL	2,134	810,216	1,938	418.07	1.101
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C97	ENGLEWOOD	426	82,223	1,433	57.38	0.297
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	589	28,926	359	80.57	1.641
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	3,408	398,569	2,207	180.59	1.544
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	415	186,431	1,882	99.06	0.221
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	2,084	89,203	1,731	51.53	1.204
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	3,303	452,341	2,296	197.01	1.439
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	1,970	240,799	1,806	133.33	1.091
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	560	92,234	512	180.14	1.094
CoastPlus	HOOD RIVER	GRASS VALLEY	6K1	KENT	99	18,431	65	283.55	1.523
CoastPlus	HOOD RIVER	GRASS VALLEY	8K4	GRASS VALLEY CITY	30	4,804	64	75.06	0.469
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	199	22,183	2,110	10.51	0.094
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	167	132,835	1,148	115.71	0.145
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	1,898	79,678	1,783	44.69	1.064
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	2,903	1,179,014	1,053	1,119.67	2.757
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	466	102,297	1,671	61.22	0.279
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	1,992	256,873	732	350.92	2.721
CoastPlus	HOOD RIVER	MORO	8K6	MORO	110	17,444	117	149.09	0.940
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	388	51,112	274	186.54	1.416
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	6,423	471,437	1,837	256.63	3.496
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	1,039	131,074	2,937	44.63	0.354
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	21,779	2,353,797	4,472	526.34	4.870
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	1,003	227,500	660	344.70	1.520
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	1,231	422,834	711	594.70	1.731
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	520	169,649	360	471.25	1.444
CoastPlus	LINCOLN CITY	NELSCOTT	7A390	NELSCOTT	375	21,209	354	59.91	1.059
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R114	BOYER	22	6,171	19	324.78	1.158
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	760	17,765	706	25.16	1.076
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	295	32,558	678	48.02	0.435
CoastPlus	PORTLAND	ALBINA	5P200	11C20-UG	295	31,993	456	70.16	0.647
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P22	ALDERWOOD #2	316	15,657	209	74.91	1.512
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P33	ALDERWOOD #4	377	33,231	184	180.60	2.049
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	185	11,813	179	65.99	1.034
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	#2	316	30,078	2,565	11.73	0.123
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	4	1,700	325	5.23	0.012
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	611	122,640	562	218.22	1.087
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	1,069	102,482	795	128.91	1.345
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	7	1,771	839	2.11	0.008
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	1,465	196,322	799	245.71	1.834
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	84	21,734	2,402	9.05	0.035
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	103	17,151	2,925	5.86	0.035
CoastPlus	PORTLAND	HOLLADAY (OR)	5P147	HOLLADAY #3-UG	3	574	27	21.26	0.111
CoastPlus	PORTLAND	HOLLADAY (OR)	5P157	HOLLADAY #5-UG	1	127	325	0.39	0.003

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CoastPlus	PORTLAND	HOLLADAY (OR)	5P158	HOLLADAY #6	784	45,061	784	57.48	1.000
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	125	36,330	1,358	26.75	0.092
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	111	12,950	1,869	6.93	0.059
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	103	15,042	2,103	7.15	0.049
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	589	71,053	1,731	41.05	0.340
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	245	115,020	2,351	48.92	0.104
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	354	15,705	346	45.39	1.023
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	879	39,452	427	92.39	2.059
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	5,740	585,285	2,733	214.15	2.100
CoastPlus	PORTLAND	KILLINGSWORTH	5P88	KILLINGSWORTH #1-UG	16	689	16	43.07	1.000
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	3,500	208,552	3,095	67.38	1.131
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	6,325	947,551	2,775	341.46	2.279
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	343	43,996	1,324	33.23	0.259
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	220	91,109	2,312	39.41	0.095
CoastPlus	PORTLAND	KNOTT	5P372	11046	544	208,108	484	429.97	1.124
CoastPlus	PORTLAND	KNOTT	5P374	11020	12	2,157	994	2.17	0.012
CoastPlus	PORTLAND	LINCOLN (OR)	5P422	11D06-UG	26	8,254	546	15.12	0.048
CoastPlus	PORTLAND	LINCOLN (OR)	5P432	11D02-UG	7	1,638	464	3.53	0.015
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	23	1,835	1,981	0.93	0.012
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	420	109,564	3,026	36.21	0.139
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	7,115	1,120,242	3,083	363.36	2.308
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	4,255	315,273	3,073	102.59	1.385
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	88	14,713	677	21.73	0.130
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	195	38,073	1,794	21.22	0.109
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	186	52,733	3,018	17.47	0.062
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	4,818	189,708	2,167	87.54	2.223
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	998	339,611	3,220	105.47	0.310
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	476	116,613	1,283	90.89	0.371
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	1,959	386,907	1,810	213.76	1.082
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	122	32,636	2,494	13.09	0.049
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	4,007	383,003	3,097	123.67	1.294
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	180	30,120	3,228	9.33	0.056
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	55	6,440	2,182	2.95	0.025
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	3,888	762,215	1,440	529.32	2.700
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	1,220	155,584	947	164.29	1.288
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	2,163	187,258	1,063	176.16	2.035
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	2,736	685,953	855	802.28	3.200
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	39	7,868	13	605.25	3.000
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	697	583,995	174	3,356.29	4.006
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	200	184,123	55	3,347.70	3.636
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	1,818	143,007	861	166.09	2.111
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	551	100,335	571	175.72	0.965
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	27	5,387	24	224.46	1.125

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Northeast OR	HERMISTON	DALREED	4K16	WILLOW COVE	9	1,563	76	20.56	0.118
Northeast OR	HERMISTON	DALREED	4K36	SIMTAG	15	7,828	18	434.90	0.833
Northeast OR	HERMISTON	DALREED	4K46	BOEING	235	24,451	182	134.35	1.291
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	5,566	1,020,921	1,412	723.03	3.942
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	1,357	214,201	388	552.06	3.497
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	1,577	349,401	1,200	291.17	1.314
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	1,231	335,363	920	364.52	1.338
Northeast OR	HERMISTON	UMATILLA	5W664	PORT FEEDER	58	14,048	58	242.20	1.000
Northeast OR	PENDLETON	ATHENA	5W703	CITY	245	31,692	882	35.93	0.278
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	1,595	391,055	442	884.74	3.609
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	36	6,117	411	14.88	0.088
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	696	95,268	1,549	61.50	0.449
Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	477	167,588	1,674	100.11	0.285
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	2,041	95,827	1,753	54.66	1.164
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	2,372	273,483	2,153	127.02	1.102
Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	145	31,639	1,075	29.43	0.135
Northeast OR	PENDLETON	PENDLETON	7W451	BUSINESS	1	40	270	0.15	0.004
Northeast OR	PENDLETON	PENDLETON	7W452	NORTHWEST	13	1,101	525	2.10	0.025
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDELTON)	1	82	380	0.22	0.003
Northeast OR	PENDLETON	PENDLETON	7W454	EAST END	278	49,887	271	184.08	1.026
Northeast OR	PENDLETON	PILOT ROCK	5W404	MILL (PILOT ROCK)	2	175	2	87.63	1.000
Northeast OR	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	2,649	352,566	1,424	247.59	1.860
Northeast OR	PENDLETON	WESTON NEW (OR)	5W40	WESTON CANNERY	-	-	14	-	-
Northeast OR	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	211	21,684	468	46.33	0.451
Northeast OR	WALLA WALLA	UMAPINE	5W105	UMAPINE FEEDER	1,214	326,742	102	3,203.35	11.902
Northeast OR	WALLA WALLA	UMAPINE	5W106	FERNDALE	6,783	558,204	1,454	383.91	4.665
South OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	993	438,159	914	479.39	1.086
South OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	1,522	361,479	875	413.12	1.739
South OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	88	14,096	976	14.44	0.090
South OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	3,505	1,581,060	1,045	1,512.98	3.354
South OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	2,823	608,109	1,639	371.02	1.722
South OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	1,329	643,205	1,254	512.92	1.060
South OR	GRANTS PASS	BEACON	5R105	BEACON ST	210	20,473	837	24.46	0.251
South OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	2,976	1,543,990	2,446	631.23	1.217
South OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH &READY	2,373	561,891	1,595	352.28	1.488
South OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	1,232	126,963	1,148	110.60	1.073
South OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	17	1,175	1,207	0.97	0.014
South OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	273	47,728	596	80.08	0.458
South OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	64	12,572	1,192	10.55	0.054
South OR	GRANTS PASS	DOWELL	5R331	DOVE	265	67,359	1,493	45.12	0.177
South OR	GRANTS PASS	DOWELL	5R334	DUCK	553	81,170	2,421	33.53	0.228
South OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	645	73,451	2,045	35.92	0.315
South OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	322	33,898	1,737	19.52	0.185

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South OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	1,104	167,001	1,323	126.23	0.834
South OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	1,820	353,879	1,624	217.91	1.121
South OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	1,862	781,870	885	883.47	2.104
South OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	8,442	4,720,875	1,992	2,369.92	4.238
South OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	1,131	280,023	700	400.03	1.616
South OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	2,580	1,010,204	1,650	612.24	1.564
South OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	2,645	599,702	1,619	370.42	1.634
South OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	1,956	490,408	2,094	234.20	0.934
South OR	GRANTS PASS	MERLIN	5R234	PARADISE	455	95,640	1,212	78.91	0.375
South OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	3,323	1,208,471	1,845	655.00	1.801
South OR	GRANTS PASS	MERLIN	5R251	BADGER	491	88,524	925	95.70	0.531
South OR	GRANTS PASS	NEW O'BRIEN	5R106	O'BRIEN	1,330	416,834	466	894.49	2.854
South OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	686	515,710	2,140	240.99	0.321
South OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	64	12,649	1,013	12.49	0.063
South OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	122	41,209	1,879	21.93	0.065
South OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	3	4,351	322	13.51	0.009
South OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	1,963	217,670	1,544	140.98	1.271
South OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	4,808	3,392,836	1,425	2,380.94	3.374
South OR	GRANTS PASS	ROGUE RIVER	4R7	EVANS VALLEY	459	80,483	233	345.42	1.970
South OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMMER	4,367	1,251,580	1,837	681.32	2.377
South OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	2,449	581,933	1,080	538.83	2.268
South OR	GRANTS PASS	SELMA	5R65	DEER CREEK	2,235	558,946	1,246	448.59	1.794
South OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	855	104,348	434	240.43	1.970
South OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	538	78,486	463	169.52	1.162
South OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	274	34,225	460	74.40	0.596
South OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	179	36,110	2,199	16.42	0.081
South OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	160	44,163	1,889	23.38	0.085
South OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	6,592	278,303	2,070	134.45	3.185
South OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	5,227	297,031	2,503	118.67	2.088
South OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	1,326	252,447	1,224	206.25	1.083
South OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	1,580	530,916	1,124	472.34	1.406
South OR	KLAMATH FALLS	CHILOQUIN MARKET	5L37	WILLIAMSON	694	63,339	493	128.48	1.408
South OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	334	62,898	323	194.73	1.034
South OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	1,798	307,900	499	617.03	3.603
South OR	KLAMATH FALLS	HAMAKER	5L55	KENO	1,395	354,379	1,771	200.10	0.788
South OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	69	141,293	168	841.03	0.411
South OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	1,426	157,948	237	666.45	6.017
South OR	KLAMATH FALLS	HENLEY	5L59	WEST	3,542	443,038	556	796.83	6.371
South OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	231	29,319	2,784	10.53	0.083
South OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	2,026	231,765	1,519	152.58	1.334
South OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	226	1,489	221	6.74	1.023
South OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	553	103,581	2,483	41.72	0.223
South OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	8	45	8	5.57	1.000

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South OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	7,121	784,333	1,042	752.72	6.834
South OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	2,663	186,769	567	329.40	4.697
South OR	KLAMATH FALLS	MODOC	5L36	MODOC	2,183	376,089	1,021	368.35	2.138
South OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	1,830	230,403	1,396	165.05	1.311
South OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	14	2,613	1,252	2.09	0.011
South OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	7,966	5,704,024	1,513	3,770.01	5.265
South OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	4	1,131	447	2.53	0.009
South OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	735	87,101	522	166.86	1.408
South OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	1,277	366,861	1,249	293.72	1.022
South OR	KLAMATH FALLS	TEXUM	5L113	TOWER	799	160,863	336	478.76	2.378
South OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	2,383	690,690	1,556	443.89	1.531
South OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	7,094	936,860	855	1,095.74	8.297
South OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	2,124	171,292	335	511.32	6.340
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L12	ORINDALE	834	80,297	830	96.74	1.005
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L15	CALIFORNIA	1,409	84,241	1,409	59.79	1.000
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L16	MAIN ST (WEST SIDE HE PLANT)	144	6,397	119	53.76	1.210
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L17	PINE ST (WEST SIDE HE PLANT)	526	4,214	525	8.03	1.002
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L18	RIVERSIDE (WEST SIDE HE PLANT)	647	6,818	610	11.18	1.061
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L19	LAKESHORE	327	5,950	304	19.57	1.076
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	8L10	CITY WTR PMP	1	6	1	5.57	1.000
South OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	28	7,169	758	9.46	0.037
South OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	447	125,699	1,769	71.06	0.253
South OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	568	218,044	1,013	215.25	0.561
South OR	MEDFORD	BEALL LANE	5R359	BEEHIVE	2	214	2	107.23	1.000
South OR	MEDFORD	BEALL LANE	5R361	BULLDOG	359	38,098	1,703	22.37	0.211
South OR	MEDFORD	BEALL LANE	5R364	BOBCAT	2,364	452,831	2,196	206.21	1.077
South OR	MEDFORD	BELKNAP	5R1	KOGAP	4,512	504,019	1,024	492.21	4.406
South OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	692	44,726	686	65.20	1.009
South OR	MEDFORD	BELKNAP	5R3	BARNETT	163	45,140	1,568	28.79	0.104
South OR	MEDFORD	BELKNAP	5R47	STEWART	4,282	268,103	2,126	126.11	2.014
South OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	2,042	75,783	1,765	42.94	1.157
South OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	1,971	482,716	1,641	294.16	1.201
South OR	MEDFORD	BROOKHURST	5R32	ROXY	250	58,108	1,724	33.71	0.145
South OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	572	159,944	1,645	97.23	0.348
South OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	1,262	189,211	1,228	154.08	1.028
South OR	MEDFORD	CAMPBELL	5R216	VOORHIES	1	1,197	799	1.50	0.001
South OR	MEDFORD	CAMPBELL	5R218	PHOENIX	2,358	660,947	1,557	424.50	1.514
South OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	403	63,853	1,209	52.81	0.333
South OR	MEDFORD	CAMPBELL	5R312	COBRA	2,260	568,616	1,543	368.51	1.465
South OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	4,237	1,125,473	1,672	673.13	2.534
South OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	364	44,541	1,395	31.93	0.261
South OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	23	4,066	771	5.27	0.030
South OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	1,246	88,173	1,161	75.95	1.073

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South OR	MEDFORD	FRALEY	5R87	TABLE ROCK	158	26,403	526	50.19	0.300
South OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	51	13,045	395	33.03	0.129
South OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	4,842	874,889	2,056	425.53	2.355
South OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	215	35,091	2,647	13.26	0.081
South OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	384	142,682	1,743	81.86	0.220
South OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	1,297	945,868	689	1,372.81	1.882
South OR	MEDFORD	MEDFORD	5R21	MELROSE	6,578	1,503,124	1,625	925.00	4.048
South OR	MEDFORD	MEDFORD	5R23	SPRING ST.	1,799	414,210	1,633	253.65	1.102
South OR	MEDFORD	MEDFORD	5R250	BIG Y	269	55,895	1,900	29.42	0.142
South OR	MEDFORD	MEDFORD	5R253	APPLE	1,398	193,611	1,128	171.64	1.239
South OR	MEDFORD	MEDFORD	5R257	PEAR	4	870	610	1.43	0.007
South OR	MEDFORD	MEDFORD	5R659	MCLEAN	8	4,573	686	6.67	0.012
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIST	5R284	STAGE RD	614	337,675	2,115	159.66	0.290
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIST	5R285	JACKSONVILLE HWY	470	112,056	2,160	51.88	0.218
South OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	7,320	4,068,883	1,627	2,500.85	4.499
South OR	MEDFORD	PROSPECT CENTRAL	5R40	NEW CASCADE	372	258,185	350	737.67	1.063
South OR	MEDFORD	RED BLANKET	7R5	PROSPECT	513	180,064	404	445.70	1.270
South OR	MEDFORD	ROXY ANN	5R350	St. Bernard	134	77,067	1,147	67.19	0.117
South OR	MEDFORD	ROXY ANN	5R354	RACCOON	239	51,559	1,422	36.26	0.168
South OR	MEDFORD	RUCH	5R68	APPLEGATE	1,426	1,145,631	925	1,238.52	1.542
South OR	MEDFORD	RUCH	5R69	RUCH	1,194	607,327	558	1,088.40	2.140
South OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	2,204	819,032	2,003	408.90	1.100
South OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	1,173	55,475	926	59.91	1.267
South OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	240	72,647	120	605.39	2.000
South OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	7,520	867,590	1,774	489.06	4.239
South OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	3,033	415,764	769	540.66	3.944
South OR	MEDFORD	SCENIC	5R174	UPTON	311	157,381	2,065	76.21	0.151
South OR	MEDFORD	SCENIC	5R180	HEAD RD	71	30,323	1,204	25.18	0.059
South OR	MEDFORD	SCENIC	5R182	TAYLOR RD	557	141,518	1,542	91.78	0.361
South OR	MEDFORD	SCENIC	5R184	CHENEY	217	67,848	1,451	46.76	0.150
South OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	271	53,658	2,182	24.59	0.124
South OR	MEDFORD	STEVENS ROAD	4R17	Stingray	960	190,963	2,516	75.90	0.382
South OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	1,775	642,221	1,168	549.85	1.520
South OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	241	102,584	2,670	38.42	0.090
South OR	MEDFORD	TALENT	5R237	TALENT	3,914	686,646	2,557	268.54	1.531
South OR	MEDFORD	TALENT	5R238	ANDERSON CRK	980	1,008,033	1,687	597.53	0.581
South OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	1,644	244,419	1,554	157.28	1.058
South OR	MEDFORD	TALENT	5R240	NORTH HWY	1,300	90,212	1,224	73.70	1.062
South OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	10	1,028	167	6.16	0.060
South OR	MEDFORD	TOLO	5R91	SAMS VALLEY	746	156,453	663	235.98	1.125
South OR	MEDFORD	TOLO	5R92	KIRTLAND RD	216	13,248	208	63.69	1.038
South OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	345	30,100	972	30.97	0.355
South OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	234	38,005	1,443	26.34	0.162

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South OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	7	1,389	817	1.70	0.009
South OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	329	63,618	1,469	43.31	0.224
South OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	-	-	38	-	-
South OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	-	-	26	-	-
South OR	MEDFORD	WHITE CITY	5R14	AGATE	12	1,647	111	14.84	0.108
South OR	MEDFORD	WHITE CITY	5R19	3M	11	1,616	96	16.83	0.115
South OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	649	289,875	1,784	162.49	0.364
South OR	MEDFORD	WHITE CITY	5R76	AVE C	6	1,190	94	12.66	0.064
South OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U46	CANYONVILLE	1,619	440,799	425	1,037.17	3.809
South OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U52	BEALS CREEK FEEDER	6,321	3,041,326	918	3,312.99	6.886
South OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	27	2,452	425	5.77	0.064
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #1 SUB	6U17	BRIGGS	8	22,242	3	7,413.90	2.667
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SUB	6U33	CLEARWATER	504	213,298	102	2,091.16	4.941
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	1,206	234,218	3,146	74.45	0.383
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	878	74,033	1,256	58.94	0.699
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	816	27,132	808	33.58	1.010
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	1,687	73,270	1,331	55.05	1.267
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	5,887	2,524,690	1,010	2,499.69	5.829
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	6,860	3,791,570	1,369	2,769.59	5.011
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	3,997	925,848	2,088	443.41	1.914
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	52	8,718	1,660	5.25	0.031
South OR	ROSEBURG/MYRTLECREEK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOSER	50	163,727	26	6,297.20	1.923
South OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	1,837	2,500,054	182	13,736.56	10.093
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	4,606	2,437,328	1,574	1,548.49	2.926
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	7,857	4,675,614	2,345	1,993.87	3.351
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	370	55,230	1,376	40.14	0.269
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	8	741	553	1.34	0.014
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	2,030	909,966	1,026	886.91	1.979
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	6,213	2,393,173	1,612	1,484.60	3.854
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	1,325	423,571	294	1,440.72	4.507
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U23	FORD MILL	1	54	1	53.93	1.000
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	72	46,196	30	1,539.87	2.400
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	105	33,627	2,505	13.42	0.042
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	437	267,538	1,115	239.94	0.392
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	2,942	318,768	2,126	149.94	1.384
South OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	6	948	6	158.02	1.000
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	168	38,790	1,601	24.23	0.105
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	680	166,716	1,371	121.60	0.496
South OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	67	111,921	22	5,087.32	3.045
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	10	2,252	1,326	1.70	0.008
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	42	5,147	1,331	3.87	0.032
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	16	547	486	1.13	0.033
South OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	1,803	1,473,377	326	4,519.56	5.531

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South OR	ROSEBURG/MYRTLECREEK	TOKETEE	6U21	BACK UP FOR CLEARWATER 6U33	204	13,622	102	133.55	2.000
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	-	-	19	-	-
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	2,038	89,707	1,681	53.37	1.212
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	2,850	638,008	1,767	361.07	1.613
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	2,069	684,520	758	903.06	2.730
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	1,225	451,819	761	593.72	1.610
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	47	5,223	877	5.96	0.054
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	791	240,878	1,480	162.76	0.534
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	1,572	117,500	1,495	78.60	1.052
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	2,415	677,522	1,263	536.44	1.912
Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	2,892	239,228	749	319.40	3.861
Willamette Valley	ALBANY	JEFFERSON (OR)	4M125	MINT	15,073	1,476,651	2,591	569.92	5.817
Willamette Valley	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	4,415	126,464	3,800	33.28	1.162
Willamette Valley	ALBANY	MURDER CREEK	4M245	RURAL NW	9,386	424,935	1,975	215.16	4.752
Willamette Valley	ALBANY	MURDER CREEK	4M249	DURA-PACIFIC	7	162	5	32.34	1.400
Willamette Valley	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	3,810	252,639	1,249	202.27	3.050
Willamette Valley	ALBANY	MURDER CREEK	5M131	WAH CHANG SOUTH	1	8	1	8.15	1.000
Willamette Valley	ALBANY	OREMET	4M295	OAK CREEK	121	2,512	113	22.23	1.071
Willamette Valley	ALBANY	OREMET	4M296	ROGERSDALE	2,406	69,289	2,209	31.37	1.089
Willamette Valley	ALBANY	OREMET	5M19	OREMET	4	557	3	185.83	1.333
Willamette Valley	ALBANY	QUEEN AVE	4M217	SANTIAM	79	8,552	2,005	4.27	0.039
Willamette Valley	ALBANY	QUEEN AVE	4M258	HILL STREET	322	86,235	2,202	39.16	0.146
Willamette Valley	ALBANY	QUEEN AVE	4M261	WAVERLY	1,002	223,418	3,400	65.71	0.295
Willamette Valley	ALBANY	QUEEN AVE	4M262	GEARY STREET	3,177	403,184	2,744	146.93	1.158
Willamette Valley	ALBANY	VINE STREET	4M15	FERRY	2,751	197,068	2,237	88.09	1.230
Willamette Valley	ALBANY	VINE STREET	4M16	WATER STREET	1,493	361,522	4,106	88.05	0.364
Willamette Valley	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	2,849	37,535	2,702	13.89	1.054
Willamette Valley	CORVALLIS	BUCHANAN	4M133	PEORIA	8,508	679,202	2,511	270.49	3.388
Willamette Valley	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	4,890	657,169	2,636	249.31	1.855
Willamette Valley	CORVALLIS	DIXON	7M26	FOURTH ST.	251	2,210	250	8.84	1.004
Willamette Valley	CORVALLIS	DIXON	7M29	SECOND ST.	293	2,376	288	8.25	1.017
Willamette Valley	CORVALLIS	GRANT	4M265	HIGH SCHOOL	2,997	173,079	2,552	67.82	1.174
Willamette Valley	CORVALLIS	GRANT	4M266	CHINTIMINI	2,690	131,619	2,636	49.93	1.020
Willamette Valley	CORVALLIS	GRANT	4M268	KINGS ROAD	4,002	408,875	2,571	159.03	1.557
Willamette Valley	CORVALLIS	GRANT	4M269	29TH STREET	7,502	730,100	3,331	219.18	2.252
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	72	2,987	2,383	1.25	0.030
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	501	55,202	662	83.39	0.757
Willamette Valley	CORVALLIS	HILLVIEW	4M182	SUNSET	206	15,634	911	17.16	0.226
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	2,943	924,784	2,266	408.11	1.299
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	5,294	339,678	3,661	92.78	1.446
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	237	6,284	197	31.90	1.203
Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	162	1,614	161	10.03	1.006
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	750	233,667	538	434.33	1.394

Oregon 2015 Circuit Metrics (including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	208	42,751	1,630	26.23	0.128
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	555	76,690	1,898	40.41	0.292
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	209	21,871	1,163	18.81	0.180
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	35	16,215	933	17.38	0.038
Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	4,007	1,227,942	1,114	1,102.28	3.597
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	155	28,440	2,400	11.85	0.065
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	2,178	275,954	1,595	173.01	1.366
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	10,105	694,961	4,517	153.85	2.237
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	35	1,136	35	32.45	1.000
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLENDALE	8,275	493,844	2,918	169.24	2.836
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	9,218	1,660,894	2,343	708.88	3.934
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	13,309	743,170	2,034	365.37	6.543
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	8,407	1,225,454	3,128	391.77	2.688
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	4,675	443,796	2,901	152.98	1.612
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	2,297	597,124	1,550	385.24	1.482
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	2,317	672,284	1,883	357.03	1.230
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	5,781	1,068,742	2,454	435.51	2.356
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	4,129	589,806	2,041	288.98	2.023
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	7,216	1,536,585	1,880	817.33	3.838
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	2,136	320,818	1,025	312.99	2.084
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	6,664	2,034,408	2,071	982.33	3.218
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	2,151	601,057	1,003	599.26	2.145
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	1,851	497,845	1,724	288.77	1.074
Willamette Valley	LEBANON	SWEET HOME	4M94	FOSTER	7,357	1,341,557	2,374	565.10	3.099
Willamette Valley	STAYTON	NEW LYONS	4M120	MILL CITY	13,822	1,841,448	1,984	928.15	6.967
Willamette Valley	STAYTON	NEW LYONS	4M70	MEHAMA	3,527	397,006	1,002	396.21	3.520
Willamette Valley	STAYTON	NEW STAYTON	4M19	AUMSVILLE	7,045	305,726	3,219	94.98	2.189
Willamette Valley	STAYTON	NEW STAYTON	4M353	WEST STAYTON	2,561	633,245	3,488	181.55	0.734
Willamette Valley	STAYTON	NEW STAYTON	4M370	CASCADE	2,345	502,047	1,673	300.09	1.402
Willamette Valley	STAYTON	NEW STAYTON	4M50	3RD STREET	148	57,747	958	60.28	0.154
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	2,873	497,489	1,615	308.04	1.779

Oregon 2015 Circuit Metrics (Zero Outage Circuits)

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count	SAIDI	SAIFI
Central OR	BEND/REDMOND	BEND	5D12	DIVISION ST.	12.5	223	0	0
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	12.5	77	0	0
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C11	WEYCO#2	12.5	1	0	0
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C24	WEYCO #8	12.5	28	0	0
CoastPlus	COOS BAY/COQUILLE	SOUTH DUNES	5C9	DOUGLAS CHIP	12.5	2	0	0
CoastPlus	HOOD RIVER	HOOD RIVER	6K336	WEST SIDE	7.2	2	0	0
CoastPlus	PORTLAND	ALBINA	5P150	ALBINA 11C15	11.7	161	0	0
CoastPlus	PORTLAND	ALBINA	5P194	11C24-UG	11.7	20	0	0
CoastPlus	PORTLAND	ALBINA	5P196	11C16-UG	11.7	468	0	0
CoastPlus	PORTLAND	ALBINA	5P66	11C25	11.7	52	0	0
CoastPlus	PORTLAND	ALBINA	5P91	11C11-UG	11.7	348	0	0
CoastPlus	PORTLAND	ALBINA	5P92	11C12-UG	11.7	67	0	0
CoastPlus	PORTLAND	BLOSS	5P172	FURNACE	12.5	1	0	0
CoastPlus	PORTLAND	COLUMBIA (OR)	5P480	COLUMBIA #5	12.5	21	0	0
CoastPlus	PORTLAND	HOLLADAY (OR)	5P145	HOLLADAY #1-UG	11.7	6	0	0
CoastPlus	PORTLAND	HOLLADAY (OR)	5P146	HOLLADAY #2-UG	11.7	1	0	0
CoastPlus	PORTLAND	HOLLADAY (OR)	5P156	HOLLADAY #4-UG	11.7	209	0	0
CoastPlus	PORTLAND	KNOTT	5P366	11010	11.7	7	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P418	11D17	11.7	56	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P420	11D14	11.7	20	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P424	11D03-UG	11.7	1	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P426	11D04-UG	11.7	335	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P430	11D05-UG	11.7	367	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P434	11D12-UG	11.7	17	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P436	11G18-UG	11.7	108	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P438	11D08-UG	11.7	17	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P456	11D09-UG	11.7	186	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P458	11D07-UG	11.7	216	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P462	11G13-UG	11.7	34	0	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P464	11G16-UG	11.6	59	0	0
South OR	KLAMATH FALLS	BOISE CASCADE	7L9	BOISE CASCAD	4.1	1	0	0
South OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R241	CITY	12.5	30	0	0
South OR	MEDFORD	MEDCO	5R280	BOISE CASCADE	12.5	1	0	0
South OR	MEDFORD	PROSPECT 3 HE PLANT	5R290	P-3 FOREBAY	12.5	1	0	0
South OR	MEDFORD	PROSPECT CENTRAL	8R5	COTTAGES	2.4	5	0	0
South OR	MEDFORD	PROSPECT CENTRAL	8R8	DAM & FOREBAY	2.4	2	0	0
South OR	MEDFORD	SAGE ROAD (OR)	5R209	TIMBER PROD	12.5	1	0	0
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U37	RUSA	20.8	1	0	0
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG LUMBER CO	5U95	ROSEBURG LBR	12.5	1	0	0
South OR	ROSEBURG/MYRTLECREEK	SODA SPRINGS HE PLT	6U1	DRY CREEK	7.2	1	0	0
Willamette Valley	ALBANY	WESTERN KRAFT	5M24	WEST MAIN	12.5	1	0	0
Willamette Valley	ALBANY	WESTERN KRAFT	5M25	EAST MAIN	12.5	1	0	0

Oregon 2015 Circuit Metrics (Zero Outage Circuits)

Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count	SAIDI	SAIFI
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M394	H. P. #1	20.8	1	0	0
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M427	H. P. #3	20.8	1	0	0
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M429	H. P. #5	20.8	1	0	0

Vegetation Management

OREGON
Tree Program Reporting
Report as of December 31, 2015
Distribution Four Year Cycle 1/1/2012-12/31/2015

	Total	Current Year Reporting				Total Cycle Reporting			
	Total Line Miles <i>column a</i>	1/1/2015- 12/31/2015 Miles Planned <i>column b</i>	1/1/2015- 12/31/2015 Actual Miles <i>column c</i>	1/1/2015- 12/31/2015 Ahead/Behind <i>column d</i>	1/1/2015- 12/31/2015 % Ahead/Behind <i>column e</i>	1/1/2012 through end of cycle Miles Planned <i>column f</i>	1/1/2012 through end of cycle Actual Miles <i>column g</i>	1/1/2012 through end of cycle Ahead/Behind <i>column h</i>	1/1/2012 through end of cycle % Ahead/Behind <i>column i</i>
Oregon	13,819	3,559	4,385	826	123.2%	14,238	14,242	4	100.0%
ALBANY	613	153	0	-153	0.0%	613	533	-80	86.9%
CORVALLIS	293	73	297	224	406.8%	293	414	121	141.3%
COTTAGE GROVE	52	13	0	-13	0.0%	52	51	-1	98.1%
DALLAS	405	101	129	28	127.7%	405	399	-6	98.5%
JUNCTION CITY	154	38	154	116	405.3%	154	222	68	144.2%
LEBANON	606	151	345	194	228.5%	606	593	-13	97.9%
LINCOLN CITY	162	41	46	5	112.2%	162	184	22	113.6%
STAYTON	433	108	55	-53	50.9%	433	340	-93	78.5%
COOS BAY	642	160	280	120	175.0%	642	635	-7	98.9%
GRANTS PASS	1,596	399	644	245	161.4%	1,596	1363	-233	85.4%
ROSEBURG	1,186	297	541	244	182.2%	1,186	1200	14	101.2%
KLAMATH FALLS	1,845	461	391	-70	84.8%	1,845	1,940	95	105.1%
LAKEVIEW	59	15	21	6	140.0%	59	70	11	118.6%
MEDFORD	1,897	474	364	-110	76.8%	1,897	1,897	0	100.0%
CENTRAL OREGON	1,327	332	418	86	125.9%	1,327	1,558	231	117.4%
CLATSOP	370	92	152	60	165.2%	370	349	-21	94.3%
ENTERPRISE	431	108	111	3	102.8%	431	432	1	100.2%
HERMISTON	254	64	53	-11	82.8%	254	283	29	111.4%
HOOD RIVER	304	76	29	-47	38.2%	304	306	2	100.7%
PENDLETON	627	157	137	-20	87.3%	627	698	71	111.3%
PORTLAND	419	210	218	8	103.8%	419	633	214	151.1%
WALLA WALLA	144	36	0	-36	0.0%	144	142	-2	98.6%

Distribution cycle \$/tree: * \$49.73
 Distribution cycle \$/mile: \$4,742
 Distribution cycle removal % * 34.35%

Transmission

Total Line Miles	Line Miles Scheduled	Line Miles Worked	Miles Ahead (behind) Schedule	Miles on Schedule	% of miles on/behind Schedule
2,969	30	37	7	2,976	100%

Transmission \$/mile: \$53,427

Notes:

- Column a: Total overhead pole miles by district
- Column b: Total overhead pole miles planned for the period January 1, 2015 through December 31, 2015
- Column c: Actual overhead pole miles worked during the period January 1 2015 through December 31, 2015
- Column d: Miles ahead or behind for the period January 1, 2015 through December 31, 2015 (column c-column b)
- Column e: Percent of actual compared to planned for the period January 1, 2015 through December 31, 2015 ((column c÷b)×100)
- Column f: Total overhead pole miles planned for the period January 1, 2012 through end of cycle
- Column g: Actual overhead pole miles worked during the period January 1 2012 through end of cycle
- Column h: Miles ahead or behind for the period January 1, 2012 through end of cycle (column g-column f)
- Column i: Percent of actual compared to planned for the period January 1, 2012 through end of cycle ((column g÷f)×100).

OREGON
Tree Program Reporting (C)

	2015 est. ^{1,2}	2016 est. ^{1,2}	2017 est. ^{1,2}	2018 est. ^{1,2}	2019 est. ^{1,2}	2020 est. ^{1,2}
Distribution						
Tree Budget	20,353,135	17,800,000	18,400,000	18,800,000	19,200,000	19,700,000
Transmission						
Tree Budget	3,225,795	3,225,795	3,225,795	3,225,795	3,225,795	3,225,795
Total Tree Budget	\$ 23,578,930	\$ 21,025,795	\$ 21,625,795	\$ 22,025,795	\$ 22,425,795	\$ 22,925,795

	CY2009	CY2010	2011	2012	2013	2014
Distribution						
Tree Actuals	13,846,144	14,064,912	13,853,185	16,995,719	18,251,251	23,191,320
Transmission						
Tree Actuals	3,033,066	3,125,438	3,762,895	3,734,977	4,363,149	2,370,822
Total Tree Actuals	\$ 16,879,210	\$ 17,190,350	\$ 17,616,080	\$ 20,730,696	\$ 22,614,400	\$ 25,562,142

	Distribution			Transmission		
	Actuals	Budget	Variance	Actuals	Budget	Variance
Calendar year 2015						
Jan	\$ 1,805,877	1,614,881	\$ 190,996	\$ 91,911	\$ 256,013	\$ (164,102)
Feb	\$ 1,534,361	1,614,879	\$ (80,518)	\$ 174,897	\$ 256,016	\$ (81,119)
Mar	\$ 1,964,905	1,777,309	\$ 187,596	\$ 143,623	\$ 281,617	\$ (137,994)
Apr	\$ 1,930,832	1,777,309	\$ 153,522	\$ 259,283	\$ 281,617	\$ (22,334)
May	\$ 1,955,526	1,614,879	\$ 340,647	\$ 289,931	\$ 256,016	\$ 33,915
Jun	\$ 2,045,786	1,777,309	\$ 268,476	\$ 317,105	\$ 281,617	\$ 35,488
Jul	\$ 1,906,007	1,777,309	\$ 128,698	\$ 253,820	\$ 281,617	\$ (27,797)
Aug	\$ 1,916,386	1,696,094	\$ 220,291	\$ 99,574	\$ 268,817	\$ (169,243)
Sep	\$ 1,540,889	1,696,094	\$ (155,206)	\$ 293,243	\$ 268,817	\$ 24,426
Oct	\$ 1,752,078	1,777,309	\$ (25,232)	\$ 125,085	\$ 281,617	\$ (156,532)
Nov	\$ 1,438,325	1,452,450	\$ (14,126)	\$ 162,614	\$ 230,414	\$ (67,800)
Dec	\$ 2,132,423	\$ 1,777,309	\$ 355,113	\$ 143,984	\$ 281,617	\$ (137,633)
Total	\$ 21,923,393	\$ 20,353,134	\$ 1,570,259	\$ 2,355,070	\$ 3,225,795	\$ (870,725)

Average # Tree Crews on Property (YTD)

80

¹ Amounts acquired from Vegetation Management ten year plan. 2013-2015 include \$3M additional funding .

² Tree removals reduce costs in future years, while herbicide costs are assumed to increase in same time period.

INSPECTION AND MAINTENANCE PROGRAMS

Inspection and Repairs

In Calendar Year 2015 (January 01 through December 31, 2015), among distribution and transmission facilities (both overhead and underground), 1,725 'A' Priority conditions were recorded and 1,738 were corrected.

For 'B' priority conditions, 19,845 were identified and 16,224 were corrected in CY2015.

For 'C' priority conditions, 7,070 were corrected in CY2015. Reporting of 'C' priority conditions was terminated early 2014, however some are still occasionally entered into the inspection system inadvertently. 162 were identified in 2015 and these will be reviewed and reprioritized as required.

Pole and Overhead Facilities

- PacifiCorp is currently on a 10-year cycle for the Detail inspection and treatment of overhead Distribution and Transmission facilities. In CY2015, 37,250 Distribution poles, 3,315 Local Transmission poles and 6,621 Main Grid Transmission poles were Detail inspected. Detail inspections were performed on 10.3% of the total 457,734 overhead facilities. Additionally 124 Distribution poles were given a second Detail inspection in CY2015 due to failure of the internal audit process of the initial inspection results or as a follow up aerial inspection of woodpecker damage.
- 36,074 Distribution poles, 2,810 Local Transmission poles and 513 Main Grid Transmission poles were Tested and Treated. Test and Treatment was performed on 8.6% of the total 457,734 overhead facilities.
- PacifiCorp replaced or reinforced 661 poles that were rejected through the Test and Treat inspection program. The CY2015 rejection rate was 1.78% for Distribution, 5.27% for Local Transmission and 10.33% for Main Grid Transmission. The overall reject rate for CY2015 was 2.14%.

A. Visual Inspections

The visual inspection of the Distribution and Transmission system is on a 2-year cycle. In CY2015, 210,171 Distribution poles, 20,126 Local Transmission poles and 19,126 Main Grid poles were inspected for a total of 249,482 poles which equates to 54.5% of the total overhead facilities. Random re-inspections were performed by operations managers to ensure uniform results and adherence.

B. Underground Facilities

The inspection of underground facilities is on a 10-year cycle. It includes a detail inspection of primary underground facilities and an infrared inspection of accessible terminals and splices. During CY2015, 10,685 facilities were inspected; 9.2% of 116,352 underground facilities.

C. Marina Inspection Program

The inspection of marinas is annual. In CY2015, 100% of marinas were inspected.

D. Line Equipment Maintenance

Line Equipment – Overhead Reclosers, Sectionalizers, Regulators, Switches

Line equipment is inspected during the 2-year cycle Visual Survey; therefore, inspection requirements have been met for Reclosers, Sectionalizers and Regulators and Switches.

SUBSTATION MAINTENANCE PROGRAMS

A. Substation Maintenance Program Performance

1. Description - Substations are critical utility network facilities requiring more frequent inspections and testing of all its equipment. The Company will provide, at the annual meetings, information of its Substation maintenance programs.
2. Program Interval - The program interval will be dictated by the substation equipment operational requirements.
3. Program Expenditures - PacifiCorp is to submit an annual actual versus budgeted expenditures for all substations equipment maintenance programs

B. Substation Security Inspections

Substation security inspections are performed on cycles based on policy. This includes a detailed inspection of the fence, gates, warning signs, grounding systems, etc. The inspector is trained to look for security violations and public hazards. Copies of the inspection results are filed at the substation and field office. Field personnel are instructed to immediately correct all perimeter security violations.

Reference PacifiCorp Maintenance Policy 034 - Substation Inspection Policy and form 3274F-Substation Inspection.

PacifiCorp operates 279 substation and communication facilities in Oregon. PacifiCorp performed 99% of the planned substation security inspections in CY2015.

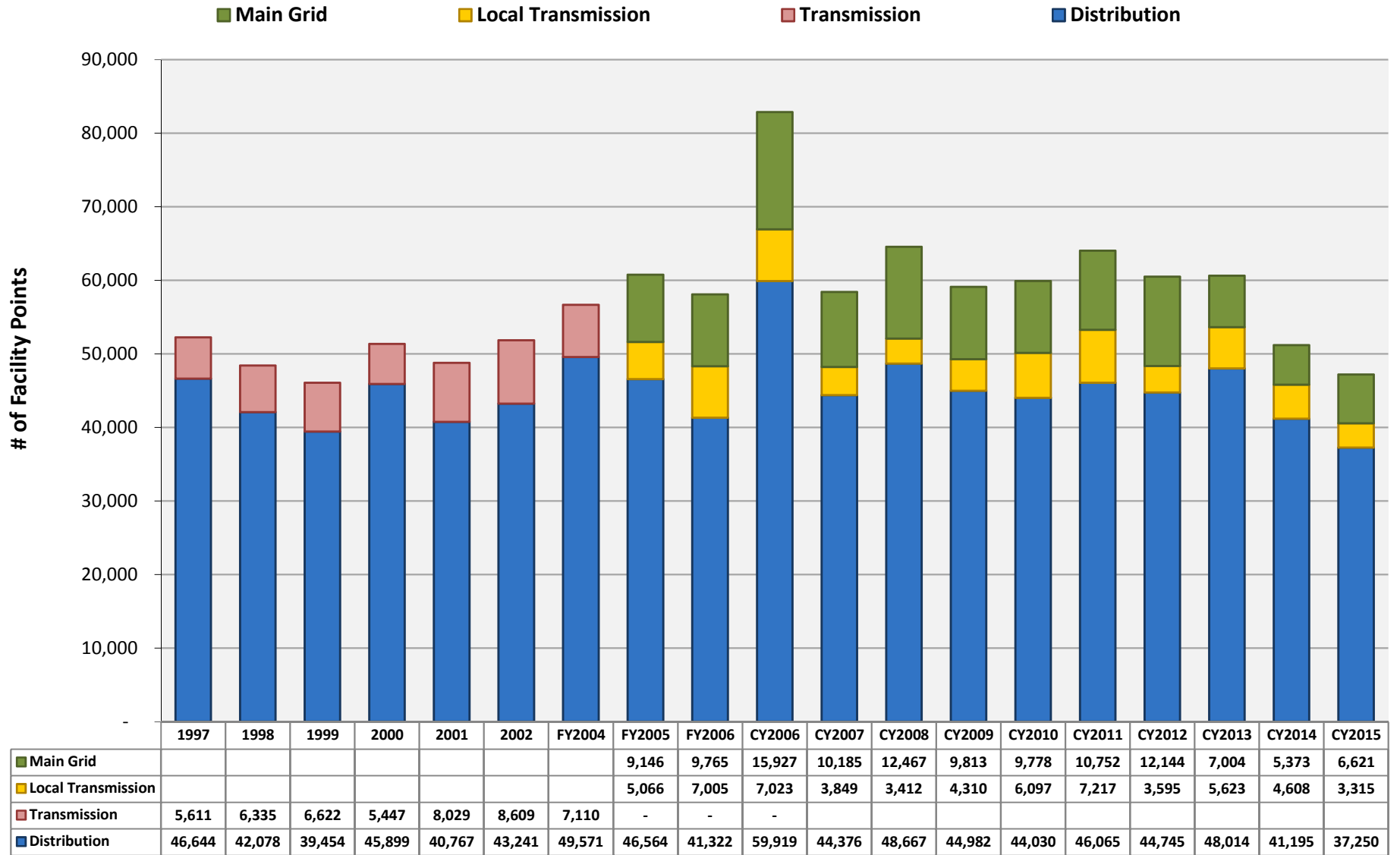
C. Substation Equipment Inspections

Batteries, Capacitor Banks, Circuit Breakers, Switches, LTC's, Regulators, Transformers, and protective relays are inspected on cycles based on policy. Inspections check pressure, temperature, voltage, LTC and regulator operation, cooling equipment, insulators, relay targets, etc.

Reference PacifiCorp Maintenance Policy 034 - Substation Inspection Policy and form 3274F-Substation Inspection.

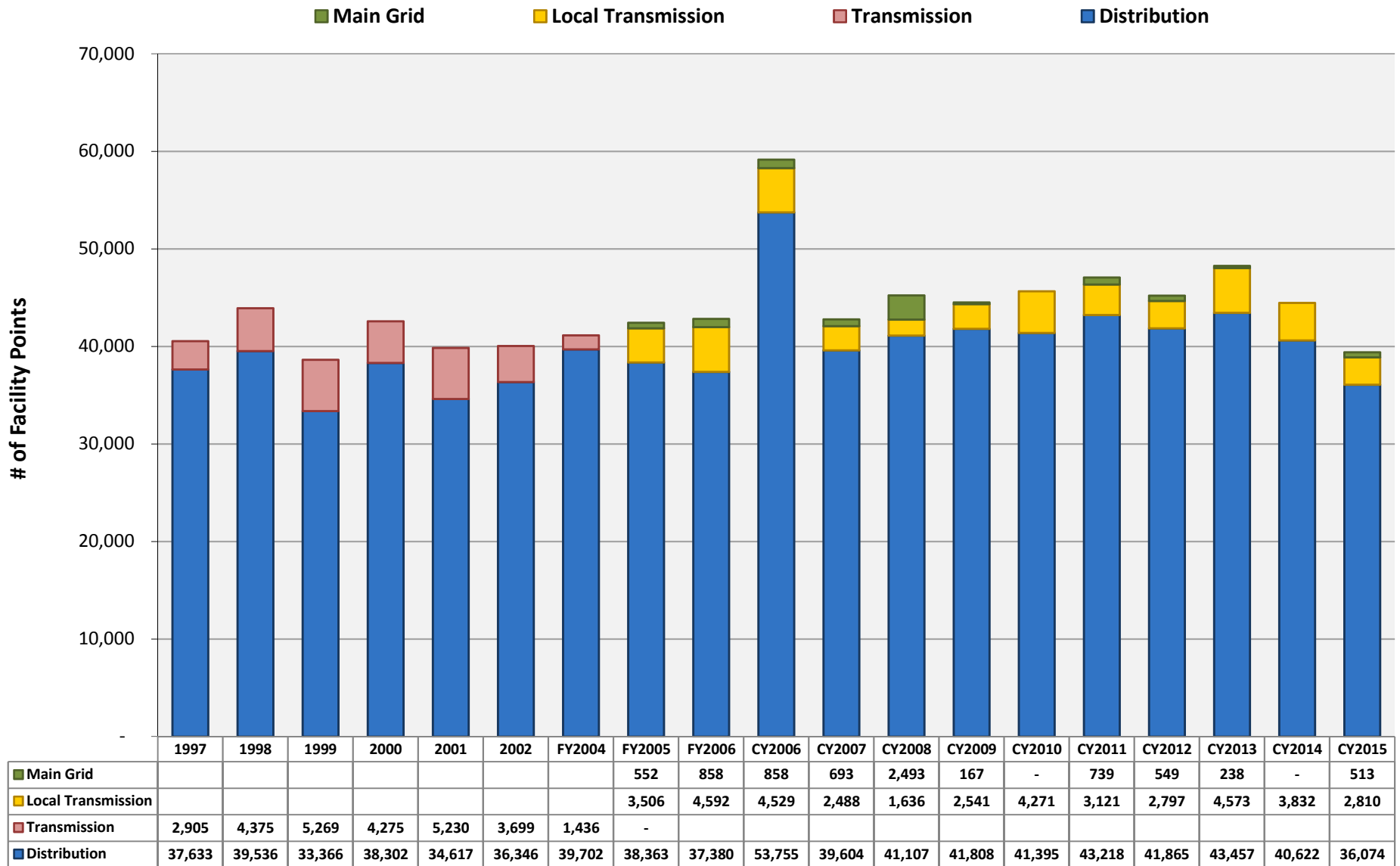
PacifiCorp performed 99% of the planned substation equipment inspections in Oregon in CY2015.

CY2015 Overhead Detail Inspection History



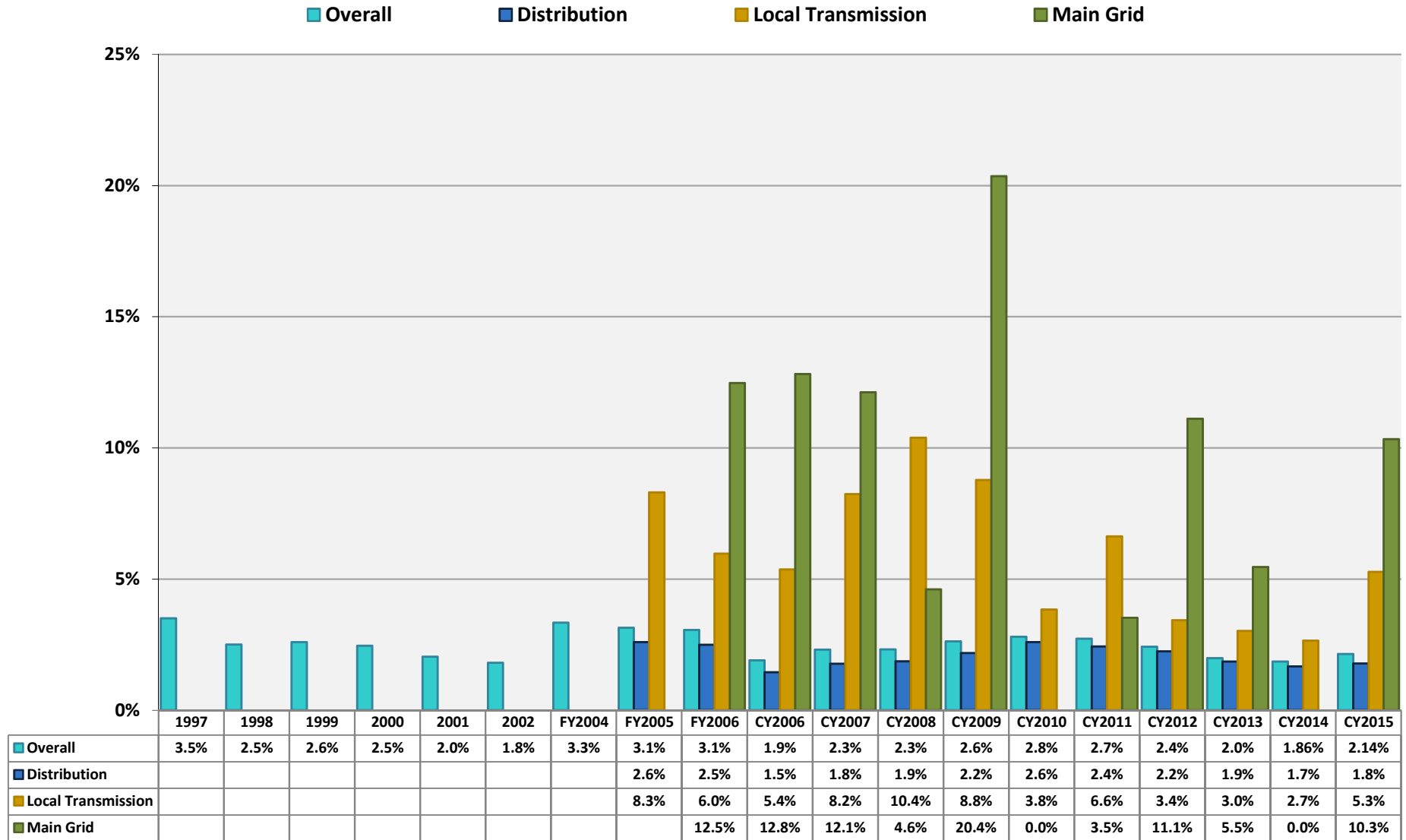
(Transmission breakout not available for years prior FY2005)

CY2015 Pole Test and Treat History



(Transmission breakout not available for years prior FY2005)

CY2015 Pole Reject Rate History



(Breakout not available for years prior FY2005; in FY2005, Distribution and blended Transmission breakout available; effective FY2006, full breakout views available. Main Grid rates combine intrusive inspection rejects with detail inspection BOPOLE.)

Budget

Inspection and Maintenance Budget

Pole Inspect & Treat			ACTUALS	BUDGET
Distribution	T&T	515	\$1,942,984	\$1,957,475
	Detail	520	\$0	\$0
Transmission	T&T	843, 883	\$231,335	\$312,781
	Detail	840, 880	\$236,869	\$231,294
Total			\$2,411,188	\$2,501,550

Pole Replacements			ACTUALS	BUDGET
Distribution			\$3,346,969	\$3,902,122
Transmission			\$2,158,859	\$2,367,957
Total			\$5,505,827	\$6,270,079

Repair and Replace Facilities			ACTUALS	BUDGET
Distribution	500, 501, 502, 503, 504, 505, 509, 518, 526, 527, 595, 625, 626, 9		\$13,447,280	\$14,806,565
Transmission	845, 847, 846, 865, 884, 886, 848, 889		\$670,630	\$607,999
Total			\$14,117,910	\$15,414,564

Visual Inspections (Includes Equipment Inspections)			ACTUALS	BUDGET
Distribution		521	\$332,588	\$395,899
Transmission		841, 881	\$203,349	\$194,992
Total			\$535,937	\$590,891

Underground Inspections			ACTUALS	BUDGET
Distribution		508	\$290,945	\$326,393
Total			\$290,945	\$326,393

Substation Maintenance			ACTUALS	BUDGET
Distribution Preventative Maintenance			\$2,588,726	\$2,100,241
Distribution Corrective Maintenance			\$988,286	\$967,867
Transmission Preventative Maintenance			\$1,166,921	\$1,168,800
Transmission Corrective Maintenance			\$822,591	\$785,376
Total			\$5,566,524	\$5,022,284