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REPORT NAME: Annual Report on Service Quality Measures for Calendar Year 2012

COMPANY NAME: PacifiCorp

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? [X]No []Yes

If yes, please submit only the cover letter electronically. Submit confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

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

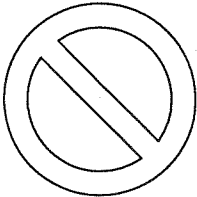
Report is required by: [X]OAR 860-023-0150
[]Statute Enter Statute
[X]Order 98-191
[]Other Enter reason

Is this report associated with a specific docket/case? []No [X]Yes

If yes, enter docket number: UE 94

List applicable Key Words for this report to facilitate electronic search:
Service Quality Measures

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- Annual Fee Statement form and payment remittance or
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• Any other Telecommunications Reporting or
• Any daily safety or safety incident reports or
• Accident reports required by ORS 654.715

Please file the above reports according to their individual instructions.



825 NE Multnomah, Suite 2000
Portland, Oregon 97232

May 1, 2013

VIA ELECTRONIC FILING

Public Utility Commission of Oregon
550 Capitol Street NE, Suite 215
Salem, OR 97301-2551

Attn: Filing Center

RE: Annual Report on Service Quality Measures for Calendar Year 2012

PacifiCorp d/b/a Pacific Power submits for filing its Annual Report on Service Quality Measures for calendar year 2012. This filing is made in compliance with OAR 860-023-0150 and Order No. 98-191 in docket UE 94.

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 Bryce Dalley, Director, Regulatory Affairs & Revenue Requirement, at 503-813-6389.

Sincerely,

William R. Griffith
Vice President, Regulation

Enclosure



Calendar Year 2012 Review
January 1, 2012 – December 31, 2012

Oregon

UE 94

Service Quality Measures

C1 – At Fault PUC Complaints

S1 – Safety Violations

R1 thru R4 – Reliability

- Introduction and Reliability Discussion
- Major Event Thresholds
- Major Event Summary
- Service Territory Map with Reliability Regions and Operating Areas
- UE 94 R1, R2, R3, R4 Service Quality Measures Report
- Five-Year Weighted SAIDI, SAIFI, MAIFIE and Thresholds
- Five-Year Reliability Reporting Region Metrics
- Circuit Metrics (Excluding Major Events and Including Major Events)
- Five-Year Interruption Cause Analysis
- Five-Year Customer Count by Reliability Region and Operating Area
- Active Circuits List with Substation, Voltage and Circuit Customer Count

X1 – Vegetation Management

X2 – Inspection & Maintenance

X2 – Meters

X2 – Standards

X3 – Underground Cable Replacement

X3 – Neutral Extensions and Substation Signage

Budget

- Inspections & Maintenance Budget
- Oregon Workforce Counts
- Vegetation Management Crew Counts

C1 – AT FAULT CUSTOMER COMPLAINTS

PacifiCorp continues to maintain excellent customer service, and promote resolution of customer complaints throughout the Company by proactive management of complaints and potential complaints.

The total number of “At Fault” complaints for the year was 12; the ratio of “At Fault” complaints per 1,000 customers in CY2012 was 0.020 (based on the CY2012 frozen customer count of 595,621 Oregon customers).

Low levels of “At Fault” complaints can be attributed to the following actions by the Company:

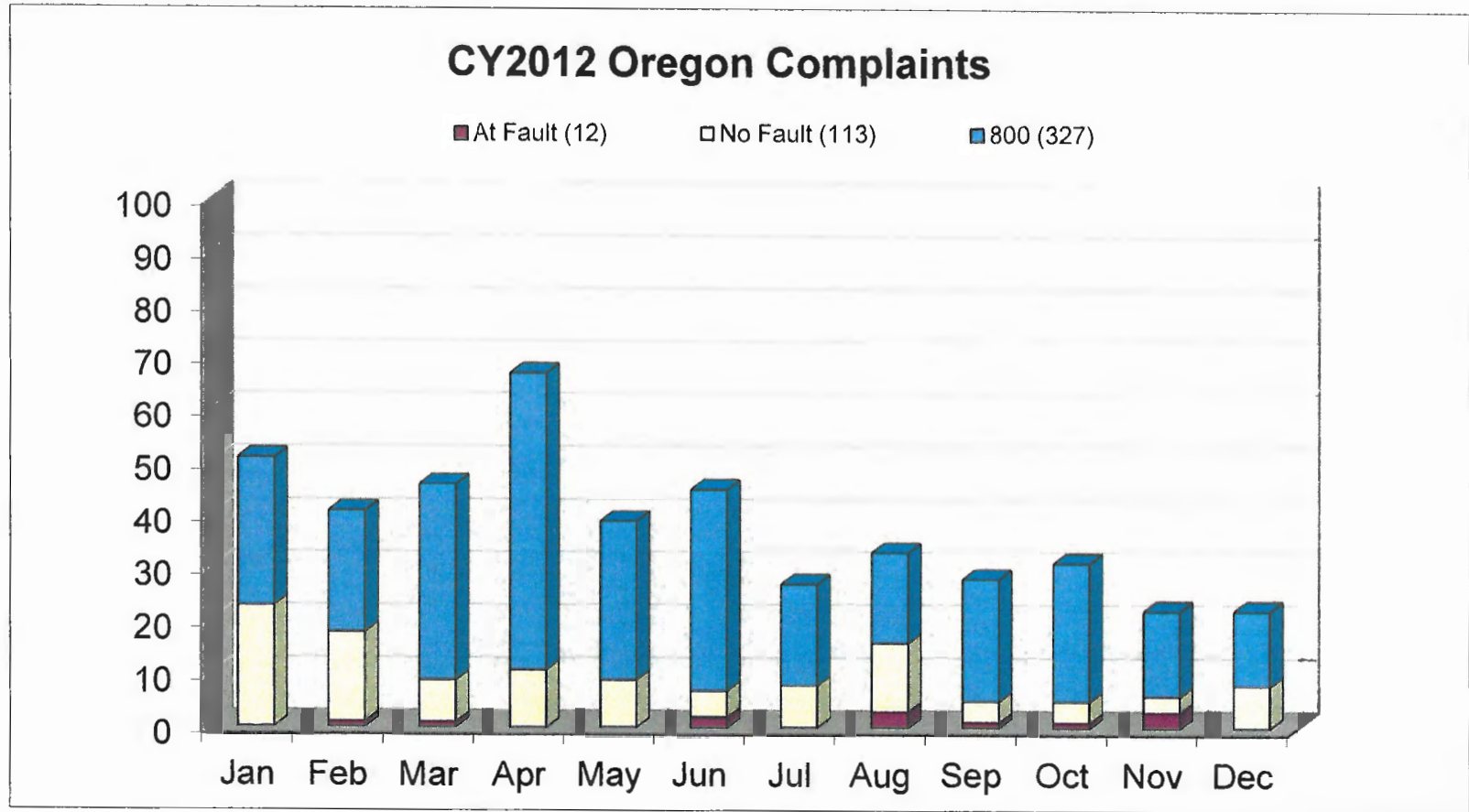
- Continuation of internal review of all Commission complaints through root cause and assignment of follow up action items,
- Continuation of audit process to ensure changes implemented for complaints are effective,
- Active participation in process changes at the Business Centers and T & D Operations,
- Application of Performance Standard 6 commitments to ensure customers receive timely and accurate response/resolution of complaints,
- Communication with Commission staff concerning ongoing process changes,
- Support for T & D Operations and Business Center personnel, with specialized guidance regarding current rules and regulations.

**Calendar Year 2012
Complaint Statistics
Oregon**

Month	800 Line Complaints	No-Fault PUC Complaints	At-Fault PUC Complaints
Jan	28	23	0
Feb	23	17	1
Mar	37	8	1
Apr	56	11	0
May	30	9	0
Jun	38	5	2
Jul	19	8	0
Aug	17	13	3
Sep	23	4	1
Oct	26	4	1
Nov	16	3	3
Dec	14	8	0
TOTALS	327	113	12

*NOTE: The 'at fault' complaints were removed from the 'no fault PUC complaint' totals in the affected months.

CY2012 Oregon Complaints



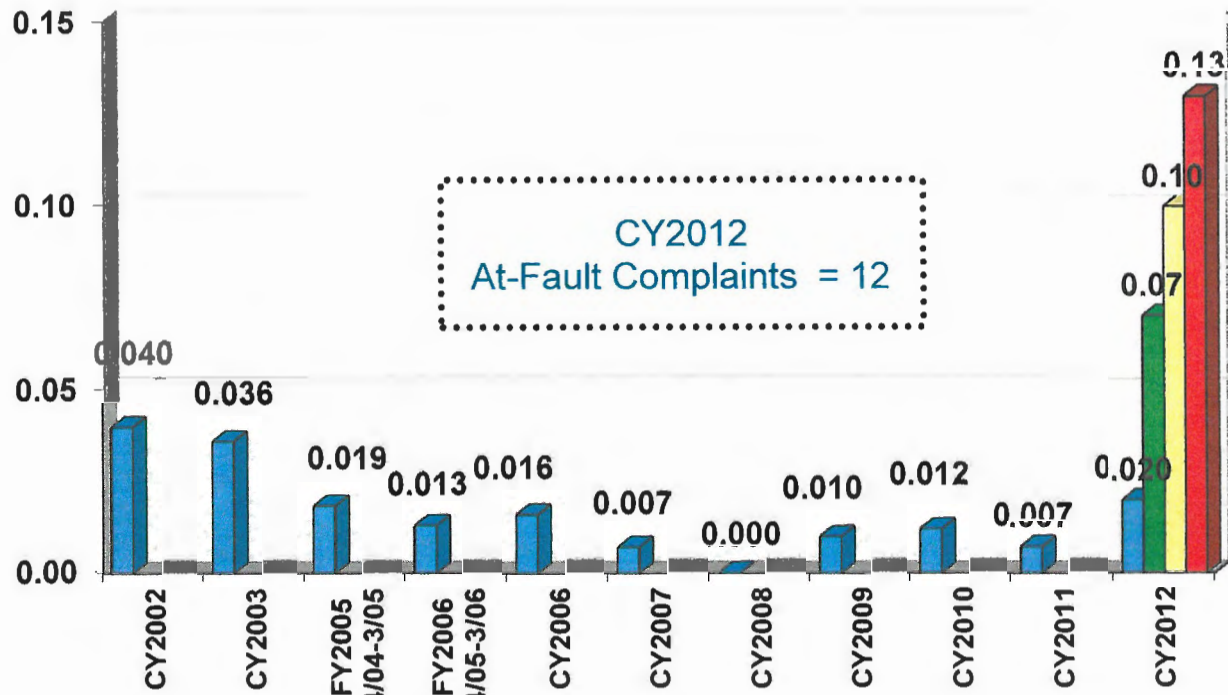
Penalty Level 1 = .10

Penalty Level 2 = .13

CY2012 Result = .020

C1- At Fault Complaints Performance History

Actual Goal P1 P2



S1 - MAJOR SAFETY VIOLATIONS

Description: The S1 measure indicates the number of major safety violations cited by the Commission that were in effect during the year.

PacifiCorp experienced no Major Safety Violations in CY2012.

R1 thru R4 - RELIABILITY

Introduction and Discussion

This year's reliability report includes a brief discussion of PacifiCorp's programs and initiatives to evaluate and enhance reliability. In addition, the UE 94 R1, R2, R3 and R4 Performance Measures will be discussed. Changes to this section have been made since administrative rules regarding reliability were modified during the reporting period.

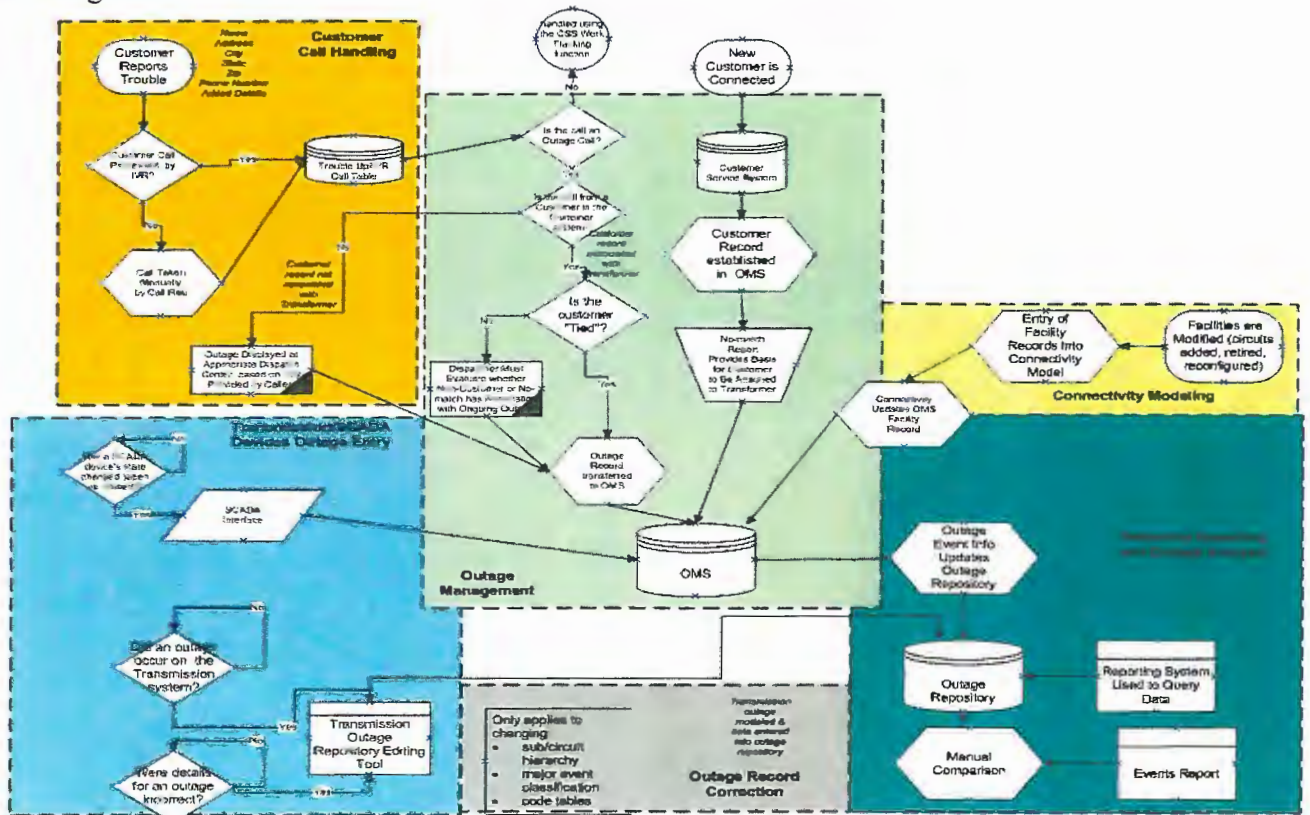
These are included in the following order:

1. Discussion of Programs and Initiatives
 - Monitoring, Recording and Reporting Reliability
 - How We Monitor Reliability
 - Reliability Measurement: Changes in Indices and Metrics
 - Report on UE 94 Statewide Reliability Service Measures
 - Major Event Thresholds and Major Events Excluded Report
 - Reliability Reporting Regions Map
 - Standards and Guidelines
 - Under-performing Circuits Program
2. UE 94 R1, R2, R3, R4 Service Quality Measures Report
3. Five-Year View SAIDI, SAIFI, MAIFI_e Compared to Goals
4. Five-Year View Reliability Reporting Region Metrics
5. Circuit Metrics (Excluding and Including Major Events)
6. Five-Year View Cause Analysis - State Summary
7. Five-Year View Cause Analysis - Reliability Reporting Regions Detail
8. Five-Year View Reliability Region and Operating Area Customer Counts
9. List of Active Circuits by Reliability Reporting Region

Monitoring, Recording and Reporting Reliability

How PacifiCorp Monitors Reliability

PacifiCorp 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 Access 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 PacifiCorp for reliability measurements.

SAIDI, SAIFI, CAIDI and MAIFI 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, IEEE Guide for Electric Power Distribution Reliability Indices.

For performance reporting as contained within this document¹, PacifiCorp uses the current standard indices, applied at the state level and also to newly-defined reliability reporting regions; however, the major events excluded from performance during the period were determined using the historic “10% of operating area customers” method, not the newly adopted IEEE P1366 “2.5 beta” TMed method applied to the new reliability reporting regions, which is effective calendar year 2012 for determining major events. Therefore, in subsequent reports, all five-year comparative views that are based on performance excluding major events, will reflect some years that used different major event definitions, which may or may not have yielded different results, though if different probably nominally.

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, PacifiCorp has done considerable 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, PacifiCorp implemented in 1999 a balanced set of circuit performance indices (known as CPI⁹⁹) and methods that improve on those documented in IEEE 1366. In 2005, the Company modified this measure to include events that occur during a major event and events that are due to upstream transmission-level outages (known as CPI⁰⁵). Circuit performance is reviewed at least annually 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. Also, in order to deliver

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

more cost effective reliability improvement measures, the Company identified a category of outage causes considered to be cost-effectively avoidable called Controllable Distribution Causes, against which it assesses improvement activities. Mining of this data allows the company to optimize cost against reliability metric improvements.

Report on UE 94 Statewide Reliability Service Measures

The UE 94 Service Quality document for reliability calls for four measures, R1, R2, R3 and R4, applied on a statewide (Oregon system) basis.

While the Company's improvements in outage reporting resulted in much higher quality sustained outage event information, it disabled the method by which momentary events were calculated. As a result, the prior calculation for R3 understated the momentary outage index. To mitigate this error, OPUC Staff and PacifiCorp developed an approach that provides accurate system level momentary indices and leverages existing SCADA facilities. This plan was filed on April 1, 2005, and subsequently evaluated and approved by OPUC Staff. The calculations from the approved plan are incorporated into the Company's reported R3 measures.

Major Events Excluded from Performance

PacifiCorp filed eight Major Events in 2012 that were excluded from reliability performance results. They are summarized in the table below.

Event Date	Reliability Region and Cause	CML	CIS	PUC Report Required	SAIDI	SAIFI	CAIDI
January 17-21, 2012	CoastPlus - Storm	15,302,673	29,389	Yes	25.67	0.05	521
March 12-13, 2012	CoastPlus - Windstorm	28,403,478	58,501	Yes	47.64	0.10	486
March 21-23, 2012	Willamette Valley - Snowstorm	19,287,679	35,046	Yes	32.35	0.06	550
April 23, 2012	SouthOR - Lightning Storms	5,017,447	13,988	Yes	8.42	0.02	359
August 2, 2012	WlmVly - Loss of Substation (Equip)	3,249,471	5,147	Yes	5.45	0.01	631
November 19-20, 2012	Central OR, CoastPlus, Northeast OR - Storm	17,331,481	64,173	Yes	29.07	0.11	270
December 16-17, 2012	CoastPlus, WlmVly, South OR - Storm	13,196,529	62,050	Yes	22.13	0.10	213
December 19-25, 2012	South OR - Storm	53,081,127	43,822	Yes	89.03	0.07	1211
Oregon Major Events Filed		154,869,885	312,116		259.75	0.52	496

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

Event Date	Reliability Region and Cause	CML	CIS	PUC Report Required	SAIDI	SAIFI	CAIDI
January 18-19, 2012	Willamette Valley	1,743,172	6,457	No	2.92	0.01	270
February 4, 2012	Northeast	336,762	1,257	No	0.56	0.00	268
March 4, 2012	Northeast	173,917	890	No	0.29	0.00	195
March 12, 2012	Willamette Valley	1,819,947	31,212	No	3.05	0.05	58
June 30, 2012	CentralOR - Lightning Storms	592,007	10,935	No	0.99	0.02	54
July 14, 2012	NortheastOR - Lightning	369,305	2,687	No	0.62	0.00	137
August 5, 2012	CentralOR - Lightning Storms	2,456,955	15,282	No	4.12	0.03	161
October 3, 2012	Willamette Valley - Loss of Supply (Insulator)	3,597,281	13,081	No	6.03	0.02	275
December 2, 2012	Storms	531,285	2,922	No	0.89	0.00	182
TOTAL Major Events with low CAIDI (no filing required)		11,620,631	84,723	No	19.49	0.14	137

Total Performance Summary

Measure	CML	CIS	PUC Report Required	SAIDI	SAIFI	CAIDI
TOTAL Oregon Major Events Filed	154,869,885	312,116	Yes	259.75	0.52	496
TOTAL Major Events with low CAIDI (no filing required)	11,620,631	84,723	No	19.49	0.14	137
TOTAL MAJOR EVENTS EXCLUDED	166,490,516	396,839		279.24	0.67	420
Oregon Underlying Events - excludes major events	69,243,466	625,051		116.13	1.05	111
Oregon Total Performance - includes major events	235,733,982	1,021,890		395.37	1.71	231

Major Event Thresholds

Effective CY2012, the administrative rule is modified to replace the 10% of operating area customers methodology with IEEE P1366 “2.5 beta” or TMed methodology for determining major events. For PacifiCorp’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 P1366. The tables below depict the composition of each region and its threshold for CY2012 and the upcoming CY2013.

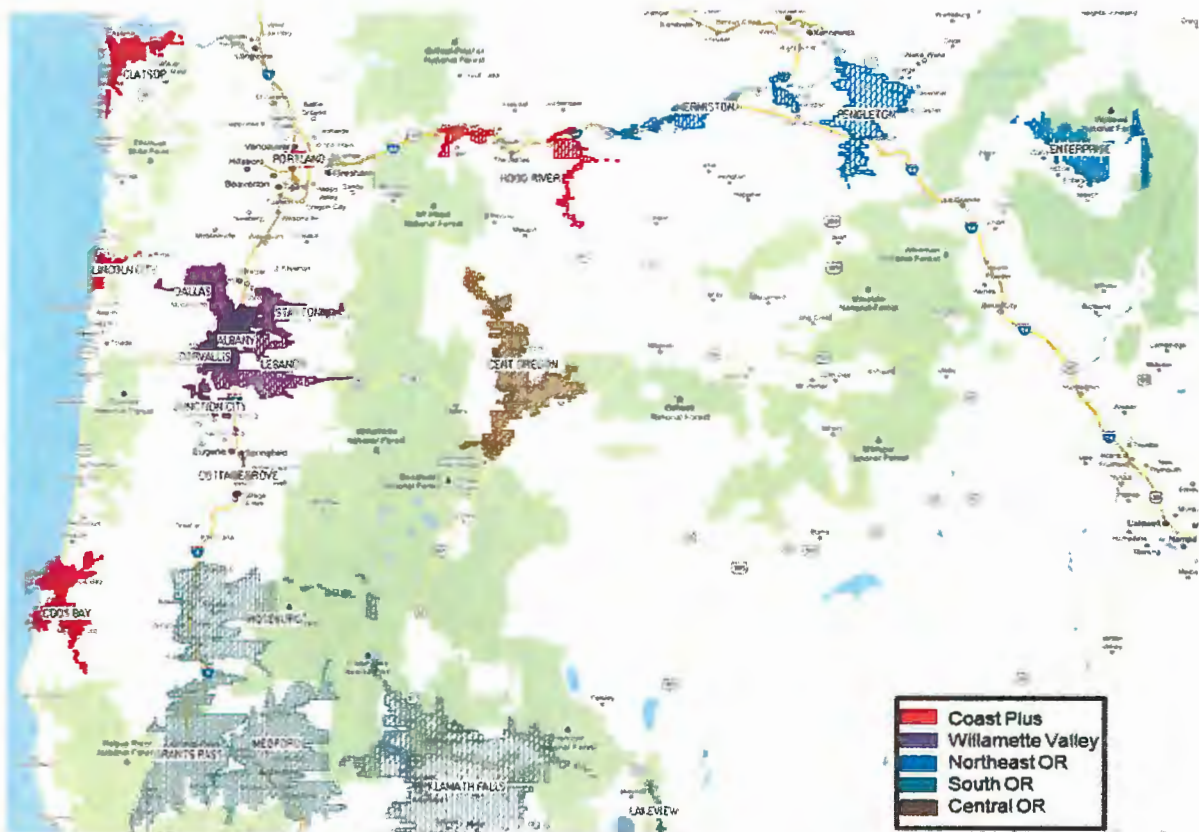
Reporting Region	CY2012 SAIDI Threshold	CY2012 CML Threshold	Operating Areas in Region
Central OR	5.12	394,135	Bend/Redmond, Madras
CoastPlus	9.43	1,409,521	Clatsop/Astoria, Coos Bay/Coquille, Hood River, Lincoln City, Portland
Northeast OR	5.02	129,066	Enterprise, Hermiston, Milton/Freewater, Pendleton, Walla Walla
South OR	11.35	2,541,566	Grants Pass, Klamath Falls, Lakeview, Medford, Roseburg/Myrtle creek
WlmVly	11.90	1,431,248	Albany, Corvallis, Cottage Grove/J. City, Dallas/Independence, Lebanon, Stayton

2013 Major Event Thresholds			
Reliability Region	Tmed SAIDI	Tmed CML	Operating Areas within Region
Central OR	4.48	347,505	Bend/Redmond, Madras
CoastPlus	9.82	1,475,758	Clatsop/Astoria, Coos Bay/Coquille, Hood River, Lincoln City, Portland
Northeast OR	9.68	249,447	Enterprise, Hermiston, Milton-Freewater, Pendleton, Walla Walla
Southern OR	11.26	2,533,923	Grants Pass, Klamath Falls, Lakeview, Medford, Roseburg/Myrtle creek
WlmVly	13.09	1,585,648	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	2013		2012		2011		2010		2009	
Region	CML	SAIDI	CML	SAIDI	CML	SAIDI	CML	SAIDI	CML	SAIDI
Central OR	347,505	4.48	394,135	5.12	460,792	6.04	527,167	6.97	556,414	7.44
CoastPlus	1,475,758	9.82	1,409,521	9.43	1,780,515	11.77	1,772,069	12.03	1,751,453	12.05
Northeast OR	249,447	9.68	129,066	5.02	296,111	5.51	272,651	5.03	632,826	11.77
South OR	2,533,923	11.26	2,541,566	11.35	3,064,200	13.74	3,286,421	14.81	3,716,997	16.86
WimVly	1,585,648	13.09	1,431,248	11.90	1,695,687	14.18	1,675,770	14.10	1,721,451	14.63

Next, the area map illustrates the grouping of operating areas into five reliability reporting regions.



Standards and Guidelines

Two questions often arise when discussing reliability, “How much money should we invest in this feeder?” and “When do we reach the point of diminishing returns?” This line of questioning positions engineers, regulators and customers to establish reasonable levels of performance. While both IEEE 1366-1998 and -2003 established methods for evaluating reliability and ensuring consistency of the methodology, it made no effort to establish minimum levels of performance. Each system, customer group and locale creates a unique set of circumstances to which such minimums cannot be fairly applied.

Service Quality Measures

On an annual basis, the Company and Commission Staff review performance to identify areas that need greater focus or may result in modifications to agreed-upon Service Quality Measures (SQMs). This program, which was the direct result of Oregon's Alternative Form of Regulation (AFOR) coincided with the Company launching its Service Standards Program. As a result of the ScottishPower merger, PacifiCorp moved to adopt system improvement target standards of its own. Subsequently, the Company has met improvement targets and continued to extend the program in reviewing "Worst Performing Circuits", wherein five circuits are designated annually for extra scrutiny in monitoring performance and developing improvement plans. In other states the Company serves, this program may also address basic reliability metric goals, however in Oregon these are addressed through Oregon's AFOR SQMs, which are outlined below:

System Performance	
System Availability	Achieve SQM R1 levels better than P-1 level
System Reliability	Achieve SQM R2 levels better than P-1 level
Worst Performing Circuits	Each year achieve a substantial (20%) improvement in the 5 worst performing circuits in each state
Supply Restoration	Achieve SQM R4 levels better than P-1 level

Under-Performing Circuits

After the close of each fiscal year, 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 Network Initiatives program. CPI is an acronym for Circuit Performance Indicator, which uses 3-year weighted reliability metrics of the circuit to identify underperforming circuits. 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 12/31/2012 (in addition to other criteria, discussions with area engineers) and identified as Program Year 14 (2013) circuits in the Network Initiatives program:

ID	CIRCUIT NAME	KV	OPERATING AREA	CPI⁰⁵
4C42	TERRES HGHTS	20.8	COOS BAY/COQUILLE	363
5K70	EASTSIDE	12.5	HOOD RIVER	521
5R133	GLENDALE	12.5	GRANTS PASS	574
5R259	CHINOOK	12.5	GRANTS PASS	351
5R53	ROUGH & READY	12.5	GRANTS PASS	389

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.)

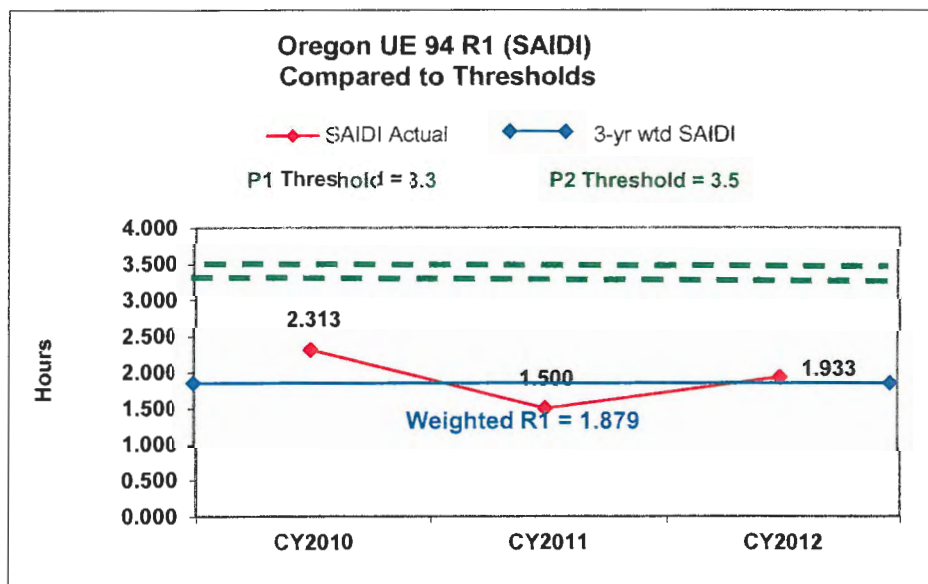
UNDER-PERFORMING CIRCUITS	BASELINE	Performance 12/31/12
Circuit Performance Indicator 2005 (CPI05)		
Program Year 13 (2012):		
D.R.W.	180	134
Deschutes S	200	196
Goedeck	181	186
Little River	322	360
West	230	110
TARGET = 178	223	197
Program Year 12 (2011):		
Crystal Spr	175	191
Warm Springs	222	174
Idleld	278	390
Pleasant Vly-Merlin	127	245
Diamond	71	286
TARGET = 140	175	257
Program Year 11 (2010):		
City	105	58
Oakgrove	230	616
South (Hood River)	120	159
Malin City	241	270
Safari	158	75
TARGET = 137	171	236

Oregon UE94 - Service Quality Measures CY 2012

R1 - SAIDI

Year	SAIDI	Weighting	Product
CY2010	2.313	0.2	0.463
CY2011	1.500	0.3	0.450
CY2012	1.933	0.5	0.967

Weighted R1: **1.879**

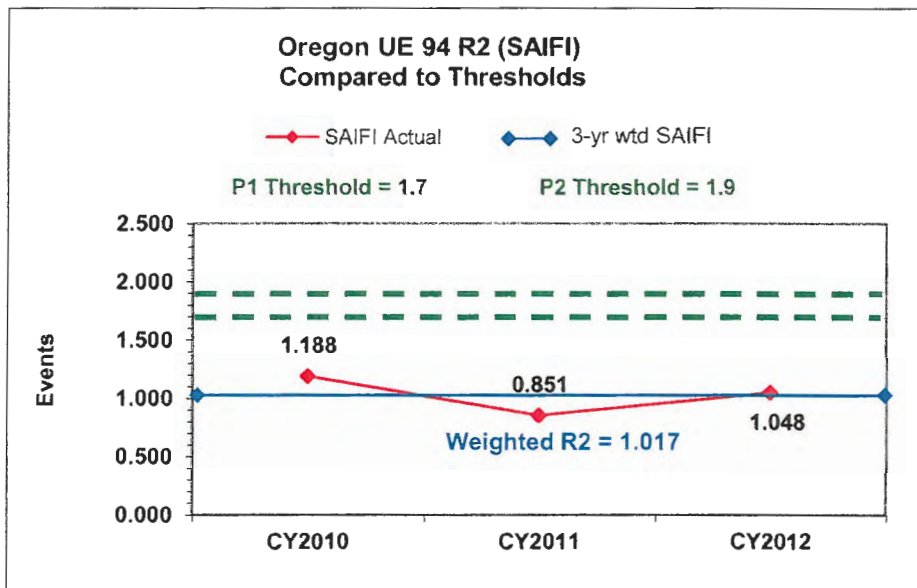


Oregon UE94 - Service Quality Measures CY 2012

R2 - SAIFI

Year	SAIFI	Weighting	Product
CY2010	1.188	0.2	0.238
CY2011	0.851	0.3	0.255
CY2012	1.048	0.5	0.524

Weighted R2: **1.017**



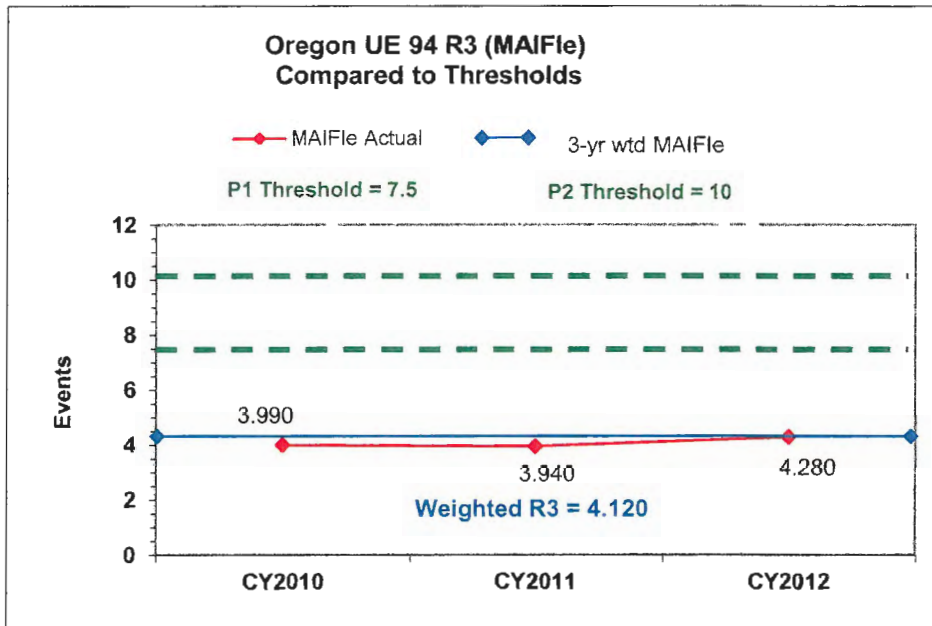
Oregon UE94 - Service Quality Measures CY 2012

R3 - MAIFle

Year	MAIFle	Weighting	Product
CY2010	3.990	0.2	0.798
CY2011	3.940	0.3	1.182
CY2012	4.280	0.5	2.140

Weighted R3: **4.120**

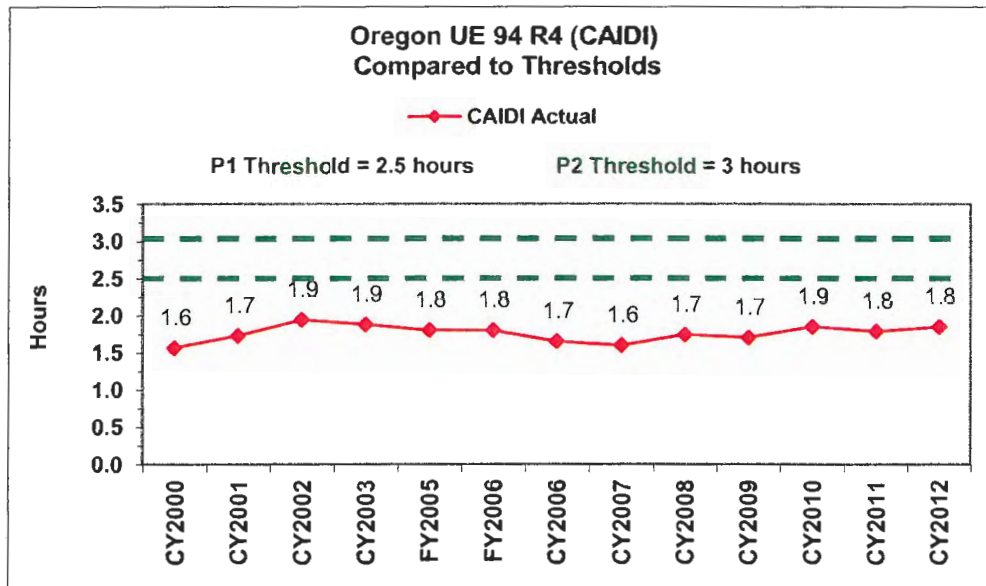
MAIFle developed based on SCADA-operated breaker data per April 1, 2005 report submitted to OPUC



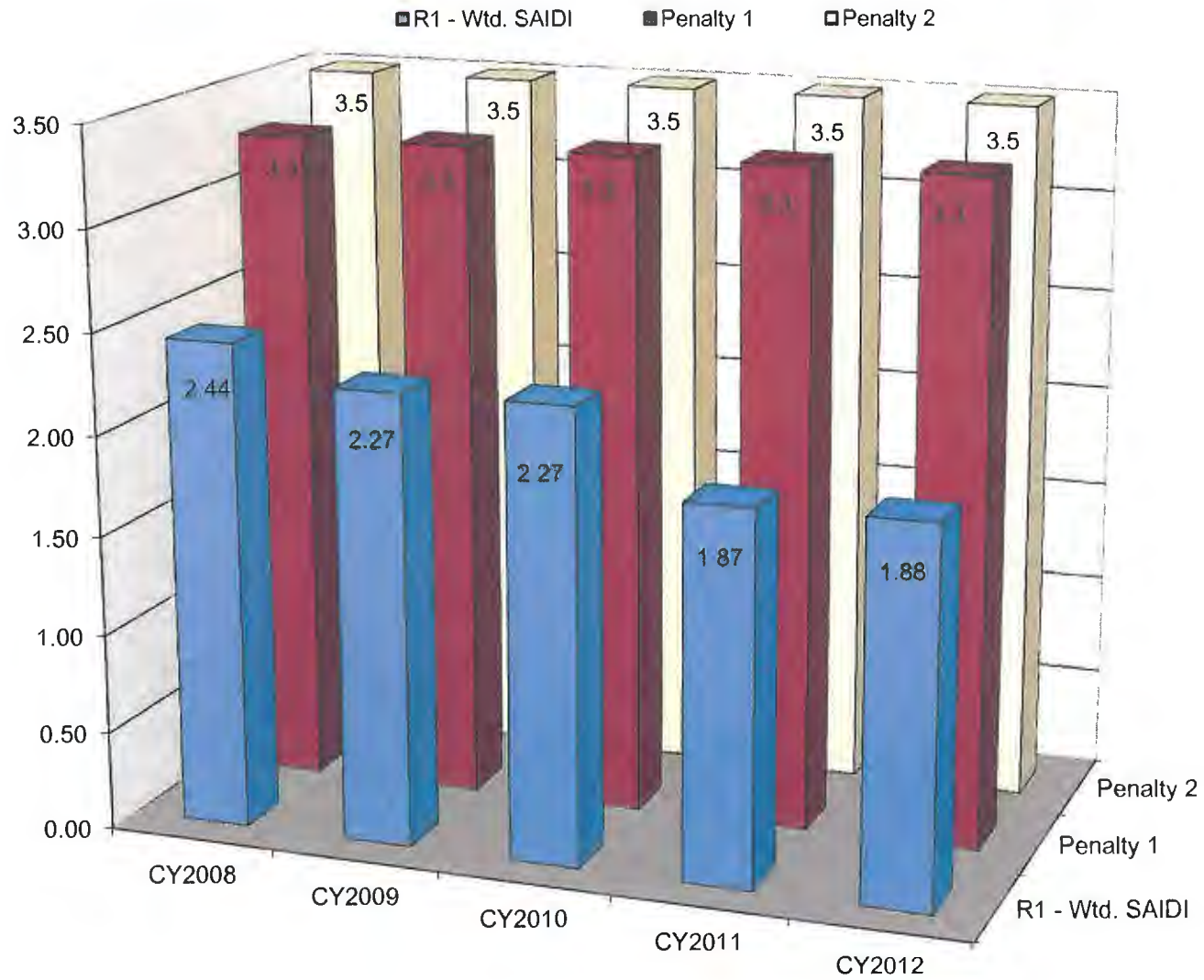
**Oregon UE94 - Service Quality Measures
CY 2012**

R4 - CAIDI: Customer Average Outage Duration

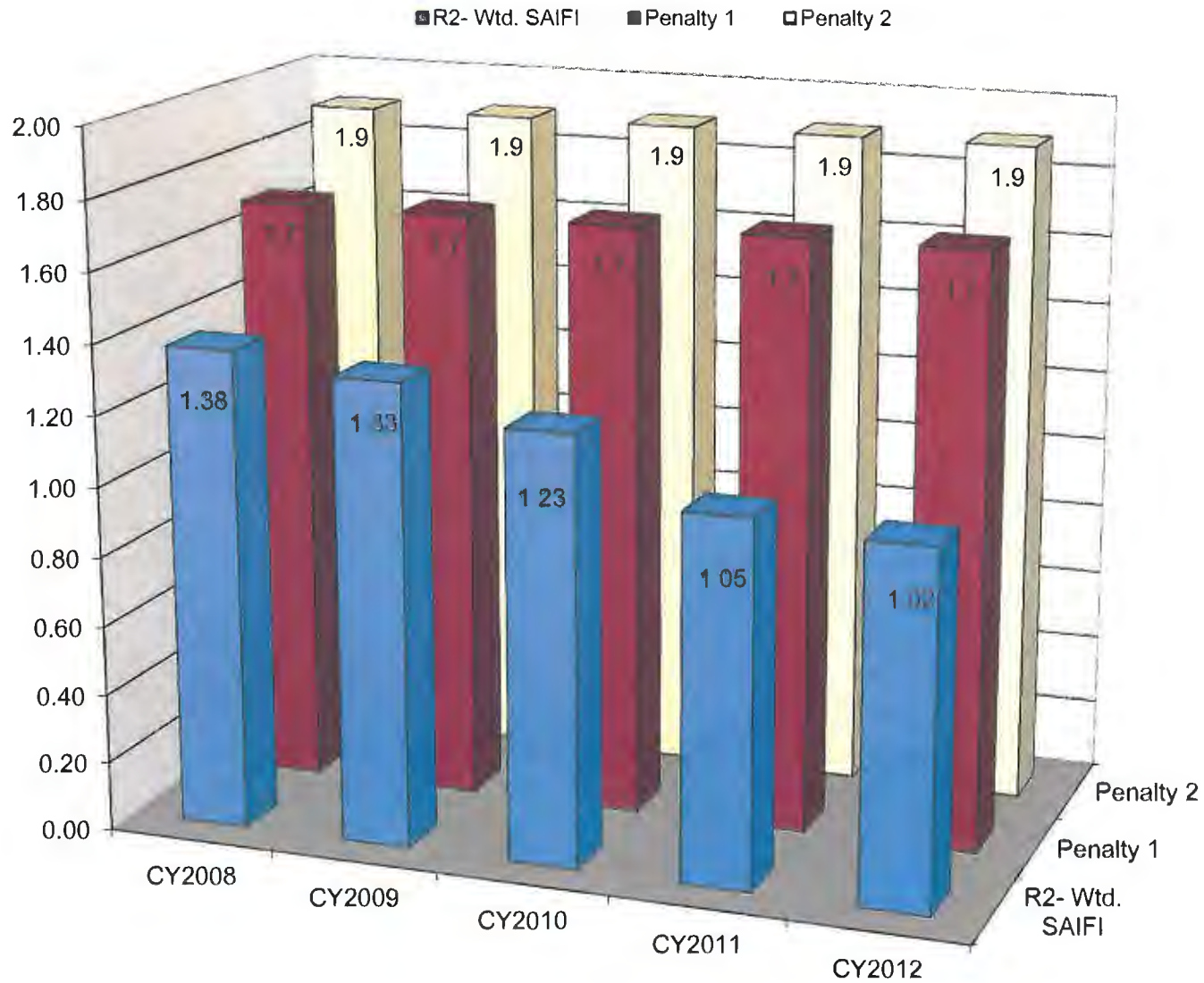
Year	CAIDI (hours)
CY2000	1.6
CY2001	1.7
CY2002	1.9
CY2003	1.9
FY2005	1.8
FY2006	1.8
CY2006	1.7
CY2007	1.6
CY2008	1.7
CY2009	1.7
CY2010	1.9
CY2011	1.8
CY2012	1.8



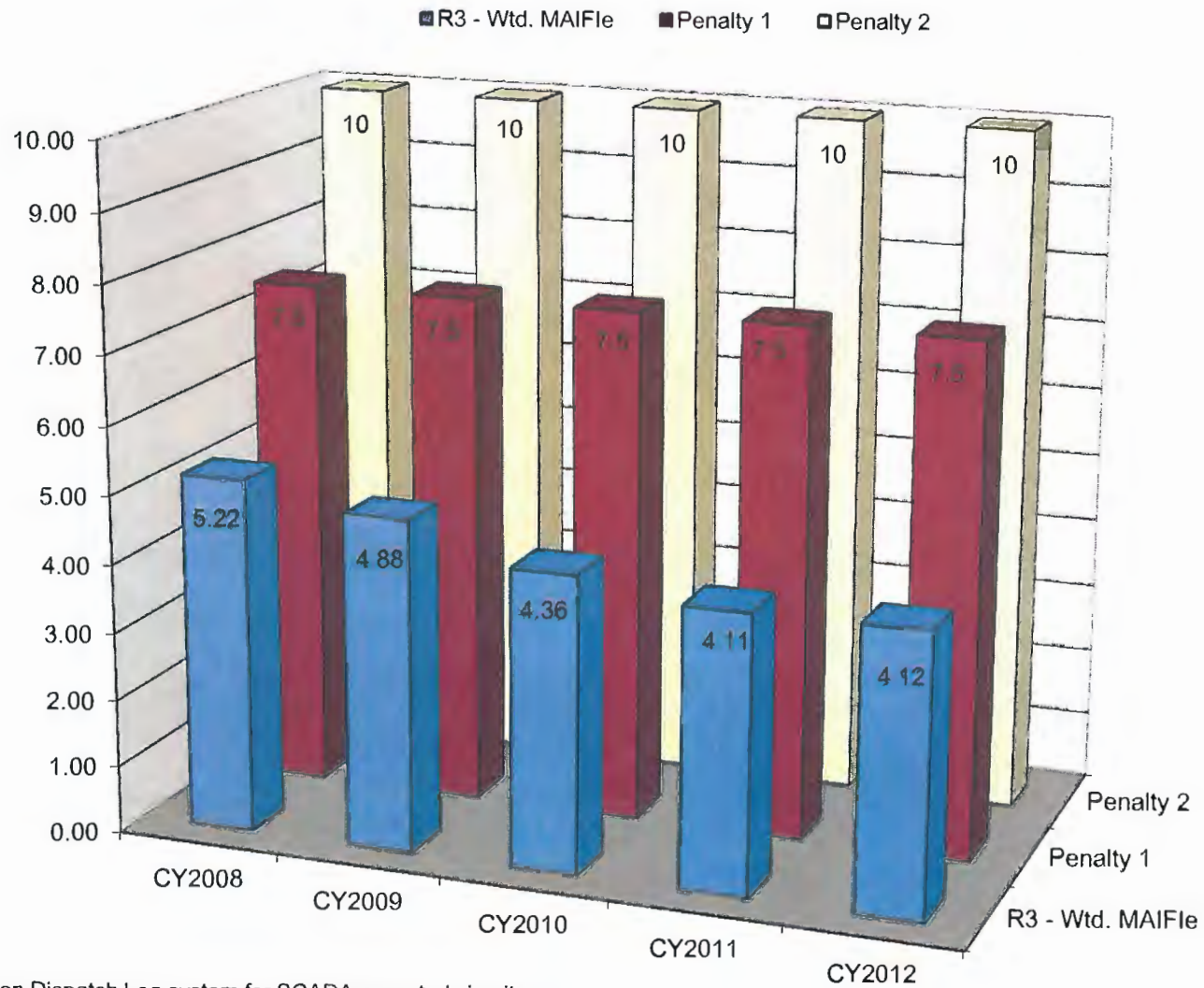
R1 - Wtd. SAIDI (excluding Major Events) and UE 94 Thresholds



R2 - Wtd. SAIFI (excluding Major Events) and UE 94 Thresholds



R3 - Wtd. MAIFle (excluding Major Events) and UE 94 Thresholds



MAIFle based on Dispatch Log system for SCADA-operated circuits.

Oregon Reliability Reporting Region Metrics - A Five-Year View

Excluding Major Events	MAIFle					SAIFI					SAIDI				
	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
OR REGION															
Central OR	4.08	4.34	3.30	5.35	3.30	0.642	0.626	0.931	0.531	0.362	68	86	104	45	34
CoastPlus	4.93	4.46	3.87	3.71	3.98	1.238	1.251	1.341	0.788	0.885	152	134	163	90	97
Northeast OR	3.74	3.04	3.23	2.64	3.98	2.210	1.235	1.465	0.876	0.519	236	147	122	80	75
South OR	4.97	4.53	4.10	3.96	4.61	1.302	1.568	0.971	0.880	1.354	172	135	130	98	139
WlmVly	4.93	4.99	4.32	3.39	4.85	1.117	1.407	1.558	1.090	1.236	116	129	158	109	159
OREGON	4.80	4.69	3.99	3.94	4.28	1.198	1.318	1.188	0.851	1.048	144	127	139	90	116

Including Major Events	MAIFle					SAIFI					SAIDI				
	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
OR REGION															
Central OR	4.08	4.34	3.30	5.35	3.30	0.642	1.359	0.931	0.862	0.779	68	116	104	171	95
CoastPlus	4.93	4.46	3.87	3.71	3.98	1.348	1.689	1.565	1.206	1.945	155	208	175	188	521
Northeast OR	3.74	3.04	3.23	2.64	3.98	2.657	1.396	1.972	0.876	0.976	512	220	171	80	149
South OR	4.97	4.53	4.10	3.96	4.61	1.856	2.194	0.999	1.402	1.672	276	235	134	405	417
WlmVly	4.93	4.99	4.32	3.39	4.85	1.560	1.600	1.956	1.587	2.229	577	187	244	273	444
OREGON	4.80	4.69	3.99	3.94	4.28	1.542	1.803	1.356	1.295	1.708	289	202	163	279	395

Oregon 2012 Circuit Metrics (excluding major events)

OR Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers In Incident Sustained	Customer Minutes Lost for Incident	Circuit Customer Count	SAIFI	SAIDI
Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	162	21,340	2,304	0.070	9
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	34	2,921	957	0.036	3
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	69	10,620	1,472	0.047	7
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	328	105,433	1,658	0.198	64
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	7	1,159	1,293	0.005	1
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	717	126,836	2,251	0.319	56
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	66	11,816	1,566	0.042	8
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	43	5,616	2,341	0.018	2
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	31	2,811	881	0.035	3
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	1,134	112,753	961	1.180	117
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	325	62,322	1,398	0.232	45
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	974	210,522	3,035	0.321	69
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	205	35,070	794	0.258	44
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	97	10,185	1,314	0.074	8
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	2,307	115,102	1,732	1.332	66
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	772	40,279	759	1.017	53
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	1,127	20,889	685	1.645	30
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	2,420	46,367	1,384	1.749	34
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	759	121,581	448	1.694	271
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	2	141	681	0.003	0
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	758	99,898	2,621	0.289	38
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	154	19,499	1,296	0.119	15
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	172	23,524	1,853	0.093	13
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	123	28,446	1,797	0.068	16
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	2,751	108,173	2,521	1.091	43
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	2,339	99,710	2,366	0.989	42
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	23	5,996	676	0.034	9
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	633	105,087	1,445	0.438	73
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	4	527	808	0.005	1
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	6	1,196	1,429	0.004	1
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	300	39,204	2,676	0.112	15
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	167	22,454	1,331	0.125	17
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	417	16,569	413	1.010	40
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (V	99	25,809	2,604	0.038	10
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	168	23,900	2,850	0.059	8
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	524	41,388	499	1.050	83
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	5	820	1,433	0.003	1
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	34	15,320	389	0.087	39
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	435	6,150	142	3.063	43

Oregon 2012 Circuit Metrics (excluding major events)

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Central OR	MADRAS	CULVER	5D5	CULVER	639	102,599	1,766	0.362	58
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	187	20,952	1,022	0.183	21
Central OR	MADRAS	MADRAS	5D53	AGATE	10	2,208	1,319	0.008	2
Central OR	MADRAS	MADRAS	5D57	QUARTZ	118	18,049	1,416	0.083	13
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	321	69,388	1,328	0.242	52
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	194	55,767	604	0.321	92
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	629	50,789	2,239	0.281	23
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	114	11,144	1,261	0.090	9
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	1,724	123,378	982	1.756	126
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	446	47,653	1,646	0.271	29
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	738	59,458	643	1.148	92
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	2	335	77	0.026	4
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	1,649	158,391	1,598	1.032	99
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	1,090	175,756	1,069	1.020	164
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	684	225,063	1,534	0.446	147
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	665	83,155	1,254	0.530	66
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	644	24,790	262	2.458	95
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	583	20,778	103	5.660	202
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	1,545	61,595	692	2.233	89
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	4,095	232,093	935	4.380	248
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	405	64,834	2,367	0.171	27
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	219	18,748	1,638	0.134	11
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	1,798	356,207	1,191	1.510	299
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	8,831	448,849	3,095	2.853	145
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	390	53,312	1,803	0.216	30
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	601	36,929	517	1.162	71
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	64	17,928	1,495	0.043	12
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	89	11,080	1,229	0.072	9
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	166	16,660	1,124	0.148	15
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	182	25,024	956	0.190	26
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	676	109,069	186	3.634	586
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	2,537	366,294	1,273	1.993	288
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	2,895	634,138	970	2.985	654
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	264	62,799	1,502	0.176	42
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	1,290	120,983	782	1.650	155
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	3,764	1,355,623	1,405	2.679	965
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	2,107	103,694	1,771	1.190	59
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	9,488	980,425	1,637	5.796	599
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	179	1,143	179	1.000	6

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CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C108	EMPIRE	1,800	27,996	1,744	1.032	16
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C89	SCOTT	1,619	35,975	1,421	1.139	25
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C90	CHARLESTON	6,896	717,332	2,171	3.176	330
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C11	WEYCO#2	0	0	1	0.000	0
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORD)	4	475	29	0.138	16
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C48	CITY CENTER	88	11,505	1,611	0.055	7
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C49	EASTSIDE	116	13,610	799	0.145	17
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C5	GEORGIA-PAC	5	854	103	0.049	8
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C50	BUNKERHILL	9,037	756,449	1,901	4.754	398
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C97	ENGLEWOOD	282	31,688	1,419	0.199	22
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE PO	658	173,668	362	1.818	480
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	5,146	1,725,561	2,193	2.347	787
CoastPlus	COOS BAY/COQUILLE	SOUTH DUNES	5C9	DOUGLAS CHIP	0	0	2	0.000	0
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	1,945	112,447	1,867	1.042	60
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	1,797	111,319	1,723	1.043	65
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	683	42,462	2,283	0.299	19
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	2,492	399,541	1,779	1.401	225
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	720	266,875	455	1.582	587
CoastPlus	HOOD RIVER	GRASS VALLEY	6K1	KENT	64	21,440	62	1.032	346
CoastPlus	HOOD RIVER	GRASS VALLEY	8K4	GRASS VALLEY CITY	103	33,663	98	1.051	344
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	726	132,193	1,954	0.372	68
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	1,964	732,329	1,096	1.792	668
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER	49	13,946	1,751	0.028	8
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	1,595	344,281	1,034	1.543	333
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER	270	54,292	1,620	0.167	34
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	794	273,850	722	1.100	379
CoastPlus	HOOD RIVER	MORO	8K6	MORO	117	39,195	118	0.992	332
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	849	203,467	265	3.204	768
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	4,318	453,264	2,056	2.100	220
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	3,247	488,529	2,880	1.127	170
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	9,088	1,304,223	4,472	2.032	292
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	69	12,177	451	0.153	27
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	416	26,145	713	0.583	37
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	594	77,216	359	1.655	215
CoastPlus	LINCOLN CITY	NELSCOTT	7A390	NELSCOTT	730	54,874	357	2.045	154
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R136	BOYER	19	5,170	19	1.000	272
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	845	113,259	711	1.188	159
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	0	0	329	0.000	0
CoastPlus	PORTLAND	ALBINA	5P150	ALBINA 11C15	165	1,394	165	1.000	8

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CoastPlus	PORTLAND	ALBINA	5P200	11C20-UG	18	4,283	421	0.043	10
CoastPlus	PORTLAND	ALBINA	5P66	11C25	1	142	62	0.016	2
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	9	1,663	181	0.050	9
CoastPlus	PORTLAND	BLOSS	5P172	FURNACE	0	0	1	0.000	0
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	#2	2,655	36,141	2,610	1.017	14
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	340	4,349	337	1.009	13
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	1,135	79,038	564	2.012	140
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	1,735	52,744	703	2.468	75
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	1,817	321,040	989	1.837	325
CoastPlus	PORTLAND	COLUMBIA (OR)	5P480	COLUMBIA #5	21	246	21	1.000	12
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	827	104,709	761	1.087	138
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	61	4,471	2,374	0.026	2
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	1,007	342,990	2,919	0.345	118
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	93	8,860	1,319	0.071	7
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	1,799	189,955	1,660	1.084	114
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	134	16,734	2,125	0.063	8
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	932	27,804	1,698	0.549	16
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	80	7,692	2,346	0.034	3
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	207	37,813	398	0.520	95
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	16	5,129	440	0.036	12
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	295	80,462	2,757	0.107	29
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	119	12,034	2,204	0.054	5
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	56	4,867	2,476	0.023	2
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	477	62,914	1,153	0.414	55
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	6	933	2,251	0.003	0
CoastPlus	PORTLAND	KNOTT	5P372	11046	71	12,020	422	0.168	28
CoastPlus	PORTLAND	KNOTT	5P374	11020	16	1,266	1,022	0.016	1
CoastPlus	PORTLAND	LINCOLN (OR)	5P422	11D06-UG	1	247	552	0.002	0
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	1,961	26,766	1,908	1.028	14
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	3,539	52,546	3,140	1.127	17
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	61	4,045	3,112	0.020	1
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	268	44,449	3,099	0.086	14
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	686	56,346	671	1.022	84
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	1,856	140,690	1,807	1.027	78
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	3,184	118,214	3,028	1.052	39
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	2,208	74,364	2,122	1.041	35
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	76	30,856	3,221	0.024	10
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	1,369	43,414	1,307	1.047	33
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	2,737	137,798	2,732	1.002	50

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CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	40	5,902	2,483	0.016	2
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	2,742	385,891	3,006	0.912	128
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	3,340	124,279	3,159	1.057	39
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	35	3,053	2,160	0.016	1
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	1,358	189,434	1,443	0.941	131
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	124	34,784	959	0.129	36
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	515	32,062	1,071	0.481	30
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	280	25,606	866	0.323	30
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	0	0	13	0.000	0
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	363	114,859	178	2.039	645
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	111	35,086	54	2.056	650
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	1,119	57,657	871	1.285	66
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	574	72,386	548	1.047	132
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	25	7,510	25	1.000	300
Northeast OR	HERMISTON	DALREED	4K40	SIM/TAG	180	50,769	94	1.915	540
Northeast OR	HERMISTON	DALREED	4K46	BOEING	266	12,866	178	1.494	72
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	1,190	176,188	1,381	0.862	128
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	189	41,953	372	0.508	113
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	78	16,094	1,181	0.066	14
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	314	77,880	915	0.343	85
Northeast OR	HERMISTON	UMATILLA	5W664	PORT FEEDER	0	0	48	0.000	0
Northeast OR	MILTON/FREEWATER	UMAPINE	5W105	UMAPINE FEEDER	238	28,252	994	0.239	28
Northeast OR	PENDLETON	ATHENA	5W703	CITY	284	78,852	869	0.327	91
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	150	32,270	437	0.343	74
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	43	5,874	412	0.104	14
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	1,079	115,357	1,529	0.706	75
Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	1,042	42,059	1,636	0.637	26
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	665	74,778	1,749	0.380	43
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	620	123,962	2,126	0.292	58
Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	1,126	181,023	1,073	1.049	169
Northeast OR	PENDLETON	PENDLETON	7W452	NORTHWEST	15	1,392	523	0.029	3
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST (PEND)	32	2,156	338	0.095	6
Northeast OR	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	504	84,480	1,403	0.359	60
Northeast OR	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	820	154,470	466	1.760	331
Northeast OR	WALLA WALLA	UMAPINE	5W106	FERNDAL	398	88,588	1,416	0.281	63
South OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	235	53,336	889	0.264	60
South OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	213	27,391	865	0.246	32
South OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	7	1,344	907	0.008	1
South OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	265	70,037	1,017	0.261	69

Oregon 2012 Circuit Metrics (excluding major events)

OR Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers In Incident Sustained	Customer Minutes Lost for Incident	Circuit Customer Count	SAIFI	SAIDI
South OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	252	72,824	1,619	0.156	45
South OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	175	77,856	1,249	0.140	62
South OR	GRANTS PASS	BEACON	5R105	BEACON ST	955	119,514	828	1.153	144
South OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	6,517	368,805	2,430	2.682	152
South OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH &READY	149	47,814	1,576	0.095	30
South OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	48	4,805	1,141	0.042	4
South OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	55	14,809	1,204	0.046	12
South OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	15	652	592	0.025	1
South OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	98	15,217	1,176	0.083	13
South OR	GRANTS PASS	DOWELL	5R331	DOVE	60	12,503	1,486	0.040	8
South OR	GRANTS PASS	DOWELL	5R334	DUCK	140	19,564	2,359	0.059	8
South OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	41	4,063	1,993	0.021	2
South OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	423	83,142	1,694	0.250	49
South OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	1,857	460,788	1,306	1.422	353
South OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	1,830	78,766	1,620	1.130	49
South OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	942	26,573	875	1.077	30
South OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	6,412	1,151,689	1,976	3.245	583
South OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	1,079	179,522	695	1.553	258
South OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	8,866	1,227,594	1,573	5.636	780
South OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	5,431	556,756	1,526	3.559	365
South OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	1,113	240,248	2,070	0.538	116
South OR	GRANTS PASS	MERLIN	5R234	PARADISE	53	5,449	1,176	0.045	5
South OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-N	125	36,830	1,833	0.068	20
South OR	GRANTS PASS	MERLIN	5R251	BADGER	63	8,170	915	0.069	9
South OR	GRANTS PASS	NEW O'BRIEN	5R106	O'BRIEN	445	125,297	460	0.967	272
South OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	2,609	195,583	2,194	1.189	89
South OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	3,962	650,872	913	4.340	713
South OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	41	14,536	1,859	0.022	8
South OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	91	8,111	314	0.290	26
South OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	3,624	464,702	1,449	2.501	321
South OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	3,394	514,955	1,393	2.436	370
South OR	GRANTS PASS	ROGUE RIVER	4R7	EVANS VALLEY	238	49,521	235	1.013	211
South OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMMER	80	23,490	1,798	0.044	13
South OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE)	3,258	224,869	1,061	3.071	212
South OR	GRANTS PASS	SELMA	5R65	DEER CREEK	6,717	655,934	1,230	5.461	533
South OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	451	16,786	427	1.056	39
South OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	238	33,269	458	0.520	73
South OR	KLAMATH FALLS	BOISE CASCADE	7L9	BOISE CASCADE					
South OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	2,744	232,812	449	6.111	519

Oregon 2012 Circuit Metrics (excluding major events)

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South OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	4,411	198,233	2,191	2.013	90
South OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	1,952	93,971	1,883	1.037	50
South OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	5,939	421,860	2,009	0.000	0
South OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	2,650	110,238	2,488	1.065	44
South OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	3,020	198,019	1,203	2.510	165
South OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	437	73,751	1,107	0.395	67
South OR	KLAMATH FALLS	CHILOQUIN MARKET	5L37	WILLIAMSON	962	107,438	490	1.963	219
South OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	584	50,563	324	1.802	156
South OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	751	56,177	491	1.530	114
South OR	KLAMATH FALLS	HAMAKER	5L55	KENO	3,861	344,350	1,763	2.190	195
South OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	217	10,731	165	1.315	65
South OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	250	8,023	241	1.037	33
South OR	KLAMATH FALLS	HENLEY	5L59	WEST	685	39,694	553	1.239	72
South OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	16,301	2,139,685	2,688	6.064	796
South OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	3,209	392,253	1,496	2.145	262
South OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	221	15,227	207	1.068	74
South OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	5,514	388,675	2,477	2.226	157
South OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	8	530	7	1.143	76
South OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	2,157	148,107	1,037	2.080	143
South OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	981	77,998	561	1.749	139
South OR	KLAMATH FALLS	MODOC	5L36	MODOC	1,180	66,769	998	1.182	67
South OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	2,836	232,733	1,389	2.042	168
South OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	4,390	568,375	1,246	3.523	456
South OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEED	10,140	2,335,299	1,523	6.658	1533
South OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	1	78	441	0.002	0
South OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	117	19,972	522	0.224	38
South OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	3,246	226,917	1,237	2.624	183
South OR	KLAMATH FALLS	TEXUM	5L113	TOWER	772	23,747	331	2.332	72
South OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	4,205	294,034	1,541	2.729	191
South OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	1,302	116,034	852	1.528	136
South OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HIL	451	37,463	333	1.354	113
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L12	ORINDALE	1,578	52,313	821	1.922	64
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L15	CALIFORNIA	4,209	478,807	1,402	3.002	342
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L16	MAIN ST (WEST SIDE	119	4,082	121	0.983	34
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L17	PINE ST (WEST SIDE	545	22,029	526	1.036	42
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L18	RIVERSIDE (WEST S	622	23,321	608	1.023	38
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L19	LAKESHORE	318	12,638	317	1.003	40
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	8L10	CITY WTR PMP	1	34	1	1.000	34
South OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	1,053	91,764	764	1.378	120

Oregon 2012 Circuit Metrics (excluding major events)

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South OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	2,479	142,522	1,765	1.405	81
South OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	2,226	132,022	988	2.253	134
South OR	MEDFORD	BEALL LANE	5R359	BEEHIVE	2	122	2	1.000	61
South OR	MEDFORD	BEALL LANE	5R361	BULLDOG	1,673	103,301	1,658	1.009	62
South OR	MEDFORD	BEALL LANE	5R364	BOBCAT	2,258	142,529	2,199	1.027	65
South OR	MEDFORD	BELKNAP	5R1	KOGAP	1,113	36,293	1,023	1.088	35
South OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNA	2,116	127,595	681	3.107	187
South OR	MEDFORD	BELKNAP	5R3	BARNETT	1,773	90,726	1,553	1.142	58
South OR	MEDFORD	BELKNAP	5R47	STEWART	2,420	43,936	2,115	1.144	21
South OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	1,854	76,209	1,679	1.104	45
South OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHU	123	45,347	1,486	0.083	31
South OR	MEDFORD	BROOKHURST	5R32	ROXY	278	75,580	1,632	0.170	46
South OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	463	90,030	1,630	0.284	55
South OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHU	47	8,608	1,184	0.040	7
South OR	MEDFORD	CAMPBELL	5R216	VOORHIES	1,580	142,041	540	2.926	263
South OR	MEDFORD	CAMPBELL	5R218	PHOENIX	3,436	720,049	1,512	2.272	476
South OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	1,487	49,652	1,319	1.127	38
South OR	MEDFORD	CAMPBELL	5R312	COBRA	2,739	137,969	1,529	1.791	90
South OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	3,646	563,708	1,655	2.203	341
South OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	410	73,637	1,369	0.299	54
South OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	807	38,644	765	1.055	51
South OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	1,321	90,403	1,158	1.141	78
South OR	MEDFORD	FRALEY	5R87	TABLE ROCK	13	2,076	516	0.025	4
South OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	322	32,543	384	0.839	85
South OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	1,394	429,689	2,032	0.686	211
South OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	2,873	53,228	2,557	1.124	21
South OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	1,907	42,000	1,694	1.126	25
South OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	821	31,841	679	1.209	47
South OR	MEDFORD	MEDCO	5R280	BOISE CASCADE	2	946	1	2.000	946
South OR	MEDFORD	MEDFORD	5R21	MELROSE	283	26,149	1,623	0.174	16
South OR	MEDFORD	MEDFORD	5R23	SPRING ST.	127	71,396	1,615	0.079	44
South OR	MEDFORD	MEDFORD	5R250	BIG Y	26	1,630	1,873	0.014	1
South OR	MEDFORD	MEDFORD	5R253	APPLE	42	13,581	1,128	0.037	12
South OR	MEDFORD	MEDFORD	5R257	PEAR	6	299	601	0.010	0
South OR	MEDFORD	MEDFORD	5R659	MCLEAN	309	77,504	690	0.448	112
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIS	5R284	STAGE RD	5,914	402,238	2,089	2.831	193
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIS	5R285	JACKSONVILLE HWY	2,475	99,087	2,091	1.184	47
South OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	2,897	958,188	1,604	1.806	597
South OR	MEDFORD	PROSPECT CENTRAL	5R40	NEW CASCADE	42	22,814	344	0.122	66

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South OR	MEDFORD	RED BLANKET	7R5	PROSPECT	380	135,878	399	0.952	341
South OR	MEDFORD	ROXY ANN	5R350	St. Bernard	1,069	246,116	1,030	1.038	239
South OR	MEDFORD	ROXY ANN	5R354	RACCOON	1,581	360,414	1,303	1.213	277
South OR	MEDFORD	RUCH	5R68	APPLEGATE	1,086	51,096	917	1.184	56
South OR	MEDFORD	RUCH	5R69	RUCH	631	13,924	554	1.139	25
South OR	MEDFORD	SAGE ROAD (OR)	5R209	TIMBER PROD	1	36	1	1.000	36
South OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	2,060	75,312	2,003	1.028	38
South OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	850	31,596	826	1.029	38
South OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	120	4,058	120	1.000	34
South OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	3,458	173,641	1,696	2.039	102
South OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	762	26,743	748	1.019	36
South OR	MEDFORD	SCENIC	5R174	UPTON	603	167,061	2,016	0.299	83
South OR	MEDFORD	SCENIC	5R180	HEAD RD	227	50,965	1,214	0.187	42
South OR	MEDFORD	SCENIC	5R182	TAYLOR RD	300	70,167	1,453	0.206	48
South OR	MEDFORD	SCENIC	5R184	CHENEY	138	58,236	1,445	0.096	40
South OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	100	15,432	1,364	0.073	11
South OR	MEDFORD	STEVENS ROAD	4R17	Stingray	2,542	445,497	2,471	1.029	180
South OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	4,076	770,263	1,897	2.149	406
South OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	3,163	713,423	2,645	1.196	270
South OR	MEDFORD	TALENT	5R237	TALENT	2,625	44,406	2,508	1.047	18
South OR	MEDFORD	TALENT	5R238	ANDERSON CRK	2,579	219,514	1,644	1.569	134
South OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	2,204	81,586	1,529	1.441	53
South OR	MEDFORD	TALENT	5R240	NORTH HWY	1,097	21,097	1,079	1.017	20
South OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	22	2,642	170	0.129	16
South OR	MEDFORD	TOLO	5R91	SAMS VALLEY	199	20,971	657	0.303	32
South OR	MEDFORD	TOLO	5R92	KIRTLAND RD	37	4,460	208	0.178	21
South OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	128	14,049	970	0.132	14
South OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	36	6,724	1,402	0.026	5
South OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	512	157,460	1,013	0.505	155
South OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	1,714	128,424	1,454	1.179	88
South OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	1	28	31	0.032	1
South OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	1	104	24	0.042	4
South OR	MEDFORD	WHITE CITY	5R14	AGATE	228	9,810	107	2.131	92
South OR	MEDFORD	WHITE CITY	5R19	3M	110	4,941	95	1.158	52
South OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	76	17,488	1,619	0.047	11
South OR	MEDFORD	WHITE CITY	5R76	AVE C	6	313	92	0.065	3
South OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	3	570	417	0.007	1
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #1 SUB	6U17	BRIGGS	3	0	0	0.000	0
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SUB	6U33	CLEARWATER	109	10,265	103	1.058	100

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South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	936	78,147	3,437	0.272	23
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	1,888	173,134	1,076	1.755	161
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	1,314	42,563	653	2.012	65
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	1,929	105,886	1,312	1.470	81
South OR	ROSEBURG/MYRTLECREEK	GAZLEY	5U46	CANYONVILLE	474	76,325	427	1.110	179
South OR	ROSEBURG/MYRTLECREEK	GAZLEY	5U52	BEALS CREEK FEED	2,573	519,128	912	2.821	569
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	2,113	261,843	1,004	2.105	261
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	3,148	338,927	1,350	2.332	251
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	2,945	198,045	2,283	1.290	87
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	32	3,839	1,440	0.022	3
South OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	723	143,171	179	4.039	800
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	3,339	216,494	1,563	2.136	139
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	6,049	544,933	2,332	2.594	234
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	5,861	483,215	1,352	4.335	357
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	1,660	130,685	549	3.024	238
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	3,203	264,528	1,021	3.137	259
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	3,353	263,166	1,611	2.081	163
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	270	2,813	269	1.004	10
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U23	FORD MILL	0	0	1	0.000	0
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	1	200	50	0.020	4
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	2,746	118,126	2,663	1.031	44
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	3,533	192,285	1,099	3.215	175
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	2,313	90,244	1,945	1.189	46
South OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	20	3,839	6	3.333	640
South OR	ROSEBURG/MYRTLECREEK	SODA SPRINGS HE PLT	6U1	DRY CREEK	1	144	24	0.042	6
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	2,329	175,862	1,596	1.459	110
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	1,513	52,194	1,371	1.104	38
South OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	21	9,996	21	1.000	476
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	5,373	244,284	1,328	4.046	184
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	4,562	276,403	1,315	3.469	210
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	1,584	111,271	487	3.253	228
South OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	863	215,557	323	2.672	667
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	19	2,732	19	1.000	144
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	4,731	406,184	1,665	2.841	244
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	1,772	69,565	1,749	1.013	40
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	1,707	96,230	746	2.288	129
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	823	34,711	746	1.103	47
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	3	291	878	0.003	0
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	654	50,091	1,478	0.442	34

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OR Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers In Incident Sustained	Customer Minutes Lost for Incident	Circuit Customer Count	SAIFI	SAIDI
WImVly	ALBANY	HAZELWOOD	4M335	WEST HIGH	356	35,479	1,484	0.240	24
WImVly	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELV	3,106	437,390	1,224	2.538	357
WImVly	ALBANY	JEFFERSON (OR)	4M117	MARION	269	75,857	733	0.367	103
WImVly	ALBANY	JEFFERSON (OR)	4M125	MINT	5,564	329,987	2,558	2.175	129
WImVly	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	938	118,277	3,765	0.249	31
WImVly	ALBANY	MURDER CREEK	4M245	RURAL NW	2,482	304,986	1,825	1.360	167
WImVly	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	142	25,524	1,241	0.114	21
WImVly	ALBANY	OREMET	4M295	OAK CREEK	9	884	109	0.083	8
WImVly	ALBANY	OREMET	4M296	ROGERSDALE	4,403	361,292	3,125	1.409	116
WImVly	ALBANY	OREMET	5M19	OREMET	3	182	3	1.000	61
WImVly	ALBANY	QUEEN AVE	4M217	SANTIAM	4,347	864,893	2,015	2.157	429
WImVly	ALBANY	QUEEN AVE	4M258	HILL STREET	4,653	647,600	2,127	2.188	304
WImVly	ALBANY	QUEEN AVE	4M261	WAVERLY	4,755	370,408	3,348	1.420	111
WImVly	ALBANY	QUEEN AVE	4M262	GEARY STREET	3,234	250,784	2,608	1.240	96
WImVly	ALBANY	VINE STREET	4M15	FERRY	7,082	290,153	2,219	3.192	131
WImVly	ALBANY	VINE STREET	4M16	WATER STREET	19,765	1,669,294	3,728	5.302	448
WImVly	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	190	47,643	2,469	0.077	19
WImVly	CORVALLIS	BUCHANAN	4M133	PEORIA	2,967	404,448	2,486	1.193	163
WImVly	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	697	90,719	2,606	0.267	35
WImVly	CORVALLIS	CIRCLE BLVD	4M394	H. P. #1	0	0	0	0.000	0
WImVly	CORVALLIS	CIRCLE BLVD	4M427	H. P. #3	0	0	0	0.000	0
WImVly	CORVALLIS	CIRCLE BLVD	4M429	H. P. #5	0	0	0	0.000	0
WImVly	CORVALLIS	CIRCLE BLVD	4M430	H. P. #6	1	845	0	0.000	0
WImVly	CORVALLIS	DIXON	7M26	FOURTH ST.	12	803	200	0.060	4
WImVly	CORVALLIS	DIXON	7M29	SECOND ST.	9	811	303	0.030	3
WImVly	CORVALLIS	GRANT	4M265	HIGH SCHOOL	2,138	389,114	2,512	0.851	155
WImVly	CORVALLIS	GRANT	4M266	CHINTIMINI	5,576	746,010	2,522	2.211	296
WImVly	CORVALLIS	GRANT	4M268	KINGS ROAD	272	29,366	2,566	0.106	11
WImVly	CORVALLIS	GRANT	4M269	29TH STREET	524	75,673	3,269	0.160	23
WImVly	CORVALLIS	HILLVIEW	4M180	WEST HILLS	1,223	76,779	1,698	0.720	45
WImVly	CORVALLIS	HILLVIEW	4M181	PHILOMATH	26	1,842	648	0.040	3
WImVly	CORVALLIS	HILLVIEW	4M182	SUNSET	373	29,826	1,535	0.243	19
WImVly	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	105	16,932	2,236	0.047	8
WImVly	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	1,161	119,285	3,582	0.324	33
WImVly	CORVALLIS	MARYS RIVER	4M152	AVERY	29	1,585	192	0.151	8
WImVly	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	5	2,175	161	0.031	14
WImVly	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	11	1,705	524	0.021	3
WImVly	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	142	37,355	1,661	0.085	22
WImVly	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	864	124,203	1,893	0.456	66

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WImVly	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	82	22,951	1,171	0.070	20
WImVly	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	330	32,806	933	0.354	35
WImVly	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	5,528	856,441	1,123	4.923	763
WImVly	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	472	92,078	2,386	0.198	39
WImVly	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	1,649	128,920	1,598	1.032	81
WImVly	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	12,310	1,902,493	4,373	2.815	435
WImVly	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	37	10,420	36	1.028	289
WImVly	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLENDALE	6,486	519,264	2,898	2.238	179
WImVly	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	7,508	1,192,352	2,304	3.259	518
WImVly	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	3,403	454,122	1,968	1.729	231
WImVly	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	4,894	283,816	3,095	1.581	92
WImVly	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	847	112,433	1,909	0.444	59
WImVly	LEBANON	CROWFOOT	4M204	CROWFOOT	4,215	1,230,156	1,528	2.759	805
WImVly	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBA	348	98,165	1,757	0.198	56
WImVly	LEBANON	LEBANON	4M61	TANGENT	401	53,277	2,470	0.162	22
WImVly	LEBANON	LEBANON	4M62	RALSTON	35	4,607	2,027	0.017	2
WImVly	LEBANON	LEBANON	4M63	TENNESSEE	4,095	741,880	1,847	2.217	402
WImVly	LEBANON	LEBANON	4M79	CROWN Z	2	315	935	0.002	0
WImVly	LEBANON	SWEET HOME	4M37	HOLLEY	2,778	847,536	2,050	1.355	413
WImVly	LEBANON	SWEET HOME	4M38	NARROWS	379	70,764	993	0.382	71
WImVly	LEBANON	SWEET HOME	4M93	AMES CREEK	215	35,033	1,708	0.126	21
WImVly	LEBANON	SWEET HOME	4M94	FOSTER	1,057	220,417	2,302	0.459	96
WImVly	STAYTON	NEW LYONS	4M120	MILL CITY	12,299	1,693,846	1,962	6.269	863
WImVly	STAYTON	NEW LYONS	4M70	MEHAMA	2,695	482,516	995	2.709	485
WImVly	STAYTON	NEW STAYTON	4M19	AUMSVILLE	955	210,218	3,127	0.305	67
WImVly	STAYTON	NEW STAYTON	4M353	WEST STAYTON	808	88,414	3,440	0.235	26
WImVly	STAYTON	NEW STAYTON	4M370	CASCADE	5,823	462,668	1,632	3.568	283
WImVly	STAYTON	NEW STAYTON	4M50	3RD STREET	203	38,450	930	0.218	41
WImVly	STAYTON	SCIO	5M126	THOMAS	2,055	341,192	1,589	1.293	215

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Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	185	27,669	2,304	0.080	12
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	34	2,921	957	0.036	3
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	69	10,620	1,472	0.047	7
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	328	105,433	1,658	0.198	64
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	7	1,159	1,293	0.005	1
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	717	126,836	2,251	0.319	56
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	76	17,789	1,566	0.049	11
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	57	9,925	2,341	0.024	4
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	33	3,114	881	0.037	4
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	1,135	112,816	961	1.181	117
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	343	73,024	1,398	0.245	52
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	4,263	875,561	3,035	1.405	288
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	205	35,070	794	0.258	44
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	99	10,325	1,314	0.075	8
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	5,932	487,186	1,732	3.425	281
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	2,292	196,345	759	3.020	259
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	1,941	30,060	685	2.834	44
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	3,680	61,614	1,384	2.659	45
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	1,363	205,698	448	3.042	459
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	672	39,336	681	0.987	58
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	3,375	252,993	2,621	1.288	97
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	1,449	95,257	1,296	1.118	74
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	2,045	133,094	1,853	1.104	72
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	1,918	133,453	1,797	1.067	74
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	2,752	108,551	2,521	1.092	43
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	4,551	970,795	2,366	1.923	410
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	39	10,773	676	0.058	16
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	633	105,087	1,445	0.438	73
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	4	527	808	0.005	1
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	6	1,196	1,429	0.004	1
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	300	39,204	2,676	0.112	15
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	167	22,454	1,331	0.125	17
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	417	16,569	413	1.010	40
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (V	99	25,809	2,604	0.038	10
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	245	67,457	2,850	0.086	24
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	524	41,388	499	1.050	83
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	5	820	1,433	0.003	1
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	424	50,721	389	1.090	130
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	580	44,807	142	4.085	316

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Central OR	MADRAS	CULVER	5D5	CULVER	4,229	474,403	1,766	2.395	269
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	1,213	316,132	1,022	1.187	309
Central OR	MADRAS	MADRAS	5D53	AGATE	1,332	376,681	1,319	1.010	286
Central OR	MADRAS	MADRAS	5D57	QUARTZ	1,536	420,139	1,416	1.085	297
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	1,654	448,360	1,328	1.245	338
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	196	55,860	604	0.325	92
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	631	50,890	2,239	0.282	23
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	125	13,968	1,261	0.099	11
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	1,727	124,141	982	1.759	126
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	446	47,653	1,646	0.271	29
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	738	59,458	643	1.148	92
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	2	335	77	0.026	4
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	1,649	158,391	1,598	1.032	99
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	2,166	218,778	1,069	2.026	205
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	3,848	297,169	1,534	2.508	194
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	3,184	608,089	1,254	2.539	485
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	703	36,716	262	2.683	140
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	1,351	448,793	103	13.117	4357
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	1,673	171,909	692	2.418	248
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	6,027	783,857	935	6.446	838
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	7,605	165,587	2,367	3.213	70
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	3,541	63,298	1,638	2.162	39
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	4,627	821,675	1,191	3.885	690
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	18,616	1,275,898	3,095	6.015	412
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	4,023	1,863,019	1,803	2.231	1033
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	1,122	275,259	517	2.170	532
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	2,128	1,242,188	1,495	1.423	831
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	1,499	242,020	1,229	1.220	197
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	1,382	609,718	1,124	1.230	542
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	1,145	284,927	956	1.198	298
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	676	109,069	186	3.634	586
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	5,721	1,121,642	1,273	4.494	881
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	6,689	1,604,075	970	6.896	1654
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	2,976	853,181	1,502	1.981	568
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	5,684	3,218,888	782	7.269	4116
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	7,247	5,435,946	1,405	5.158	3869
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	6,511	2,852,629	1,771	3.676	1611
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	13,946	2,974,049	1,637	8.519	1817
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	433	31,538	179	2.419	176

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CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C108	EMPIRE	4,012	320,238	1,744	2.300	184
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C89	SCOTT	3,088	60,397	1,421	2.173	43
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C90	CHARLESTON	9,751	1,194,230	2,171	4.491	550
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C11	WEYCO#2	2	15	1	2.000	15
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDA	64	1,216	29	2.207	42
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C48	CITY CENTER	3,403	207,002	1,611	2.112	128
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C49	EASTSIDE	1,786	62,379	799	2.235	78
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C5	GEORGIA-PAC	213	2,365	103	2.068	23
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C50	BUNKERHILL	13,711	4,517,448	1,901	7.213	2376
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C97	ENGLEWOOD	3,260	411,169	1,419	2.297	290
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE PO	1,480	810,154	362	4.088	2238
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	11,126	4,808,748	2,193	5.073	2193
CoastPlus	COOS BAY/COQUILLE	SOUTH DUNES	5C9	DOUGLAS CHIP	6	205	2	3.000	103
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	6,086	436,522	1,867	3.260	234
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	6,718	1,277,640	1,723	3.899	742
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	5,444	1,402,920	2,283	2.385	615
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	7,867	542,364	1,779	4.422	305
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	1,175	416,945	455	2.582	916
CoastPlus	HOOD RIVER	GRASS VALLEY	6K1	KENT	126	23,654	62	2.032	382
CoastPlus	HOOD RIVER	GRASS VALLEY	8K4	GRASS VALLEY CITY	201	37,137	98	2.051	379
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	5,436	1,665,667	1,954	2.782	852
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	4,405	1,309,106	1,096	4.019	1194
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER	184	405,464	1,751	0.105	232
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	3,582	4,709,927	1,034	3.464	4555
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER	935	1,360,927	1,620	0.577	840
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	1,812	4,120,462	722	2.510	5707
CoastPlus	HOOD RIVER	MORO	8K6	MORO	235	43,351	118	1.992	367
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	1,115	374,396	265	4.208	1413
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	6,997	1,386,047	2,056	3.403	674
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	6,292	2,803,156	2,880	2.185	973
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	27,097	13,027,384	4,472	6.059	2913
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	590	146,018	451	1.308	324
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	1,533	274,519	713	2.150	385
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	1,312	228,812	359	3.655	637
CoastPlus	LINCOLN CITY	NELSCOTT	7A390	NELSCOTT	1,195	186,128	357	3.347	521
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R136	BOYER	38	59,022	19	2.000	3106
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	1,703	1,015,143	711	2.395	1428
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	0	0	329	0.000	0
CoastPlus	PORTLAND	ALBINA	5P150	ALBINA 11C15	165	1,394	165	1.000	8

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CoastPlus	PORTLAND	ALBINA	5P200	11C20-UG	18	4,283	421	0.043	10
CoastPlus	PORTLAND	ALBINA	5P66	11C25	1	142	62	0.016	2
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	9	1,663	181	0.050	9
CoastPlus	PORTLAND	BLOSS	5P172	FURNACE	0	0	1	0.000	0
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	#2	2,655	36,141	2,610	1.017	14
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	340	4,349	337	1.009	13
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	1,137	79,137	564	2.016	140
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	3,344	236,661	703	4.757	337
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	1,817	321,040	989	1.837	325
CoastPlus	PORTLAND	COLUMBIA (OR)	5P480	COLUMBIA #5	21	246	21	1.000	12
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	835	105,443	761	1.097	139
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	61	4,471	2,374	0.026	2
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	1,008	343,145	2,919	0.345	118
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	93	8,860	1,319	0.071	7
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	1,799	189,955	1,660	1.084	114
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	144	19,032	2,125	0.068	9
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	933	27,888	1,698	0.549	16
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	284	9,528	2,346	0.121	4
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	207	37,813	398	0.520	95
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	16	5,129	440	0.036	12
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	319	82,125	2,757	0.116	30
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	120	12,091	2,204	0.054	5
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	64	5,352	2,476	0.026	2
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	479	63,059	1,153	0.415	55
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	19	1,981	2,251	0.008	1
CoastPlus	PORTLAND	KNOTT	5P372	11046	71	12,020	422	0.168	28
CoastPlus	PORTLAND	KNOTT	5P374	11020	16	1,266	1,022	0.016	1
CoastPlus	PORTLAND	LINCOLN (OR)	5P422	11D06-UG	1	247	552	0.002	0
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	1,962	26,811	1,908	1.028	14
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	3,539	52,546	3,140	1.127	17
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	120	8,391	3,112	0.039	3
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	269	44,569	3,099	0.087	14
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	686	56,346	671	1.022	84
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	1,902	153,338	1,807	1.053	85
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	6,664	503,657	3,028	2.201	166
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	2,208	74,364	2,122	1.041	35
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	78	31,083	3,221	0.024	10
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	1,372	43,723	1,307	1.050	33
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	2,756	139,636	2,732	1.009	51

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CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	70	9,206	2,483	0.028	4
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	2,742	385,891	3,006	0.912	128
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	3,342	124,559	3,159	1.058	39
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	35	3,053	2,160	0.016	1
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	2,987	445,782	1,443	2.070	309
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	1,086	356,173	959	1.132	371
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	1,775	158,744	1,071	1.657	148
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	2,174	255,628	866	2.510	295
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	26	3,976	13	2.000	306
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	363	114,859	178	2.039	645
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	111	35,086	54	2.056	650
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	2,959	261,849	871	3.397	301
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	1,810	402,600	548	3.303	735
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	50	15,895	25	2.000	636
Northeast OR	HERMISTON	DALREED	4K40	SIM/TAG	180	50,769	94	1.915	540
Northeast OR	HERMISTON	DALREED	4K46	BOEING	268	13,251	178	1.506	74
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	1,192	176,608	1,381	0.863	128
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	348	68,055	372	0.935	183
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	174	51,411	1,181	0.147	44
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	314	77,880	915	0.343	85
Northeast OR	HERMISTON	UMATILLA	5W664	PORT FEEDER	0	0	48	0.000	0
Northeast OR	MILTON/FREEWATER	UMAPINE	5W105	UMAPINE FEEDER	1,241	154,054	994	1.248	155
Northeast OR	PENDLETON	ATHENA	5W703	CITY	284	78,852	869	0.327	91
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	151	32,625	437	0.346	75
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	43	5,874	412	0.104	14
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	1,262	158,159	1,529	0.825	103
Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	1,042	42,059	1,636	0.637	26
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	668	74,924	1,749	0.382	43
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	648	129,880	2,126	0.305	61
Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	1,180	188,537	1,073	1.100	176
Northeast OR	PENDLETON	PENDLETON	7W452	NORTHWEST	15	1,392	523	0.029	3
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDE	32	2,156	338	0.095	6
Northeast OR	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	505	84,586	1,403	0.360	60
Northeast OR	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	820	154,470	466	1.760	331
Northeast OR	WALLA WALLA	UMAPINE	5W106	FERNDALE	1,767	263,132	1,416	1.248	186
South OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	367	91,687	889	0.413	103
South OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	379	305,679	865	0.438	353
South OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	9	6,685	907	0.010	7
South OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	404	212,553	1,017	0.397	209

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South OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	1,774	2,136,515	1,619	1.096	1320
South OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	176	77,941	1,249	0.141	62
South OR	GRANTS PASS	BEACON	5R105	BEACON ST	955	119,514	828	1.153	144
South OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	8,276	3,374,414	2,430	3.406	1389
South OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH &READY	2,258	3,126,037	1,576	1.433	1984
South OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	1,192	63,682	1,141	1.045	56
South OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	57	21,815	1,204	0.047	18
South OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	15	652	592	0.025	1
South OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	99	19,775	1,176	0.084	17
South OR	GRANTS PASS	DOWELL	5R331	DOVE	174	213,988	1,486	0.117	144
South OR	GRANTS PASS	DOWELL	5R334	DUCK	397	715,493	2,359	0.168	303
South OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	3,285	752,686	1,993	1.648	378
South OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	440	147,745	1,694	0.260	87
South OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	3,274	2,317,514	1,306	2.507	1775
South OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	3,809	1,952,695	1,620	2.351	1205
South OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	2,937	1,464,130	875	3.357	1673
South OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	11,124	7,507,016	1,976	5.630	3799
South OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	1,258	480,916	695	1.810	692
South OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	11,703	7,316,239	1,573	7.440	4651
South OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	8,996	4,544,677	1,526	5.895	2978
South OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	4,752	6,539,934	2,070	2.296	3159
South OR	GRANTS PASS	MERLIN	5R234	PARADISE	1,579	1,980,510	1,176	1.343	1684
South OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-N	3,509	3,797,106	1,833	1.914	2072
South OR	GRANTS PASS	MERLIN	5R251	BADGER	1,033	1,362,731	915	1.129	1489
South OR	GRANTS PASS	NEW O'BRIEN	5R106	O'BRIEN	1,978	3,046,893	460	4.300	6624
South OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	2,827	449,394	2,194	1.289	205
South OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	3,962	650,872	913	4.340	713
South OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	250	399,535	1,859	0.134	215
South OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	92	8,712	314	0.293	28
South OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	3,653	517,198	1,449	2.521	357
South OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	4,211	1,308,032	1,393	3.023	939
South OR	GRANTS PASS	ROGUE RIVER	4R7	EVANS VALLEY	238	49,521	235	1.013	211
South OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMER	82	27,087	1,798	0.046	15
South OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGU	3,304	267,934	1,061	3.114	253
South OR	GRANTS PASS	SELMA	5R65	DEER CREEK	9,225	3,857,551	1,230	7.500	3136
South OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	881	20,295	427	2.063	48
South OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	697	36,107	458	1.522	79
South OR	KLAMATH FALLS	BOISE CASCADE	7L9	BOISE CASCAD	1	122	0	0.000	0
South OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	2,744	232,812	449	6.111	519

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South OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	4,411	198,233	2,191	2.013	90
South OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	1,953	94,079	1,883	1.037	50
South OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	5,941	422,303	2,009	2.957	210
South OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	2,650	110,238	2,488	1.065	44
South OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	3,021	198,082	1,203	2.511	165
South OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	484	86,298	1,107	0.437	78
South OR	KLAMATH FALLS	CHILOQUIN MARKET	5L37	WILLIAMSON	1,453	213,732	490	2.965	436
South OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	584	50,563	324	1.802	156
South OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	751	56,177	491	1.530	114
South OR	KLAMATH FALLS	HAMAKER	5L55	KENO	3,869	347,353	1,763	2.195	197
South OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	217	10,731	165	1.315	65
South OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	250	8,023	241	1.037	33
South OR	KLAMATH FALLS	HENLEY	5L59	WEST	686	39,723	553	1.241	72
South OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	16,301	2,139,685	2,688	6.064	796
South OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	3,209	392,253	1,496	2.145	262
South OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	221	15,227	207	1.068	74
South OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	5,514	388,675	2,477	2.226	157
South OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	8	530	7	1.143	76
South OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	2,242	149,787	1,037	2.162	144
South OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	982	78,084	561	1.750	139
South OR	KLAMATH FALLS	MODOC	5L36	MODOC	2,191	191,460	998	2.195	192
South OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	2,836	232,733	1,389	2.042	168
South OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	4,390	568,375	1,246	3.523	456
South OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEED	11,165	2,629,936	1,523	7.331	1727
South OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	1	78	441	0.002	0
South OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	632	23,157	522	1.211	44
South OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	3,246	226,917	1,237	2.624	183
South OR	KLAMATH FALLS	TEXUM	5L113	TOWER	772	23,747	331	2.332	72
South OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	4,205	294,034	1,541	2.729	191
South OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	2,146	221,131	852	2.519	260
South OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	451	37,463	333	1.354	113
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L12	ORINDALE	1,578	52,313	821	1.922	64
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L15	CALIFORNIA	4,209	478,807	1,402	3.002	342
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L16	MAIN ST (WEST SIDE)	119	4,082	121	0.983	34
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L17	PINE ST (WEST SIDE)	545	22,029	526	1.036	42
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L18	RIVERSIDE (WEST SIDE)	622	23,321	608	1.023	38
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L19	LAKESHORE	318	12,638	317	1.003	40
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	8L10	CITY WTR PMP	1	34	1	1.000	34
South OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	1,071	94,288	764	1.402	123

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OR Reliability Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers In Incident Sustained	Customer Minutes Lost for Incident	Circuit Customer Count	SAIFI	SAIDI
South OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	2,484	144,002	1,765	1.407	82
South OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	2,226	132,022	988	2.253	134
South OR	MEDFORD	BEALL LANE	5R359	BEEHIVE	2	122	2	1.000	61
South OR	MEDFORD	BEALL LANE	5R361	BULLDOG	1,673	103,301	1,658	1.009	62
South OR	MEDFORD	BEALL LANE	5R364	BOBCAT	2,258	142,529	2,199	1.027	65
South OR	MEDFORD	BELKNAP	5R1	KOGAP	1,139	38,435	1,023	1.113	38
South OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNA	2,116	127,595	681	3.107	187
South OR	MEDFORD	BELKNAP	5R3	BARNETT	1,773	90,726	1,553	1.142	58
South OR	MEDFORD	BELKNAP	5R47	STEWART	2,420	43,936	2,115	1.144	21
South OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	1,859	76,651	1,679	1.107	46
South OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHU	123	45,347	1,486	0.083	31
South OR	MEDFORD	BROOKHURST	5R32	ROXY	278	75,580	1,632	0.170	46
South OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	1,232	135,183	1,630	0.756	83
South OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHU	47	8,608	1,184	0.040	7
South OR	MEDFORD	CAMPBELL	5R216	VOORHIES	1,580	142,041	540	2.926	263
South OR	MEDFORD	CAMPBELL	5R218	PHOENIX	3,436	720,049	1,512	2.272	476
South OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	1,487	49,652	1,319	1.127	38
South OR	MEDFORD	CAMPBELL	5R312	COBRA	2,891	184,191	1,529	1.891	120
South OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	5,519	1,711,993	1,655	3.335	1034
South OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	2,040	1,138,907	1,369	1.490	832
South OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	807	38,644	765	1.055	51
South OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	1,321	90,403	1,158	1.141	78
South OR	MEDFORD	FRALEY	5R87	TABLE ROCK	530	350,172	516	1.027	679
South OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	707	245,733	384	1.841	640
South OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	1,534	526,934	2,032	0.755	259
South OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	2,873	53,228	2,557	1.124	21
South OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	2,116	64,299	1,694	1.249	38
South OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	860	49,199	679	1.267	72
South OR	MEDFORD	MEDCO	5R280	BOISE CASCADE	2	946	1	2.000	946
South OR	MEDFORD	MEDFORD	5R21	MELROSE	285	26,443	1,623	0.176	16
South OR	MEDFORD	MEDFORD	5R23	SPRING ST.	127	71,396	1,615	0.079	44
South OR	MEDFORD	MEDFORD	5R250	BIG Y	26	1,630	1,873	0.014	1
South OR	MEDFORD	MEDFORD	5R253	APPLE	42	13,581	1,128	0.037	12
South OR	MEDFORD	MEDFORD	5R257	PEAR	6	299	601	0.010	0
South OR	MEDFORD	MEDFORD	5R659	MCLEAN	309	77,504	690	0.448	112
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIS	5R284	STAGE RD	6,755	647,493	2,089	3.234	310
South OR	MEDFORD	NEW JACKSONVILLE SUB-DIS	5R285	JACKSONVILLE HWY	2,484	101,756	2,091	1.188	49
South OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	2,929	963,012	1,604	1.826	600
South OR	MEDFORD	PROSPECT CENTRAL	5R40	NEW CASCADE	71	39,789	344	0.206	116

Oregon 2012 Circuit Metrics (including major events)

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South OR	MEDFORD	RED BLANKET	7R5	PROSPECT	834	240,755	399	2.090	603
South OR	MEDFORD	ROXY ANN	5R350	St. Bernard	1,069	246,116	1,030	1.038	239
South OR	MEDFORD	ROXY ANN	5R354	RACCOON	1,581	360,414	1,303	1.213	277
South OR	MEDFORD	RUCH	5R68	APPLEGATE	2,167	788,075	917	2.363	859
South OR	MEDFORD	RUCH	5R69	RUCH	632	14,169	554	1.141	26
South OR	MEDFORD	SAGE ROAD (OR)	5R209	TIMBER PROD	1	36	1	1.000	36
South OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	4,055	436,964	2,003	2.024	218
South OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	850	31,596	826	1.029	38
South OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	120	4,058	120	1.000	34
South OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	3,458	173,641	1,696	2.039	102
South OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	762	26,743	748	1.019	36
South OR	MEDFORD	SCENIC	5R174	UPTON	603	167,061	2,016	0.299	83
South OR	MEDFORD	SCENIC	5R180	HEAD RD	245	53,712	1,214	0.202	44
South OR	MEDFORD	SCENIC	5R182	TAYLOR RD	300	70,167	1,453	0.206	48
South OR	MEDFORD	SCENIC	5R184	CHENEY	138	58,236	1,445	0.096	40
South OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	1,461	160,832	1,364	1.071	118
South OR	MEDFORD	STEVENS ROAD	4R17	Stingray	5,015	709,696	2,471	2.030	287
South OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	5,975	973,139	1,897	3.150	513
South OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	6,343	2,746,348	2,645	2.398	1038
South OR	MEDFORD	TALENT	5R237	TALENT	2,625	44,406	2,508	1.047	18
South OR	MEDFORD	TALENT	5R238	ANDERSON CRK	2,588	221,821	1,644	1.574	135
South OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	2,204	81,586	1,529	1.441	53
South OR	MEDFORD	TALENT	5R240	NORTH HWY	1,099	21,387	1,079	1.019	20
South OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	22	2,642	170	0.129	16
South OR	MEDFORD	TOLO	5R91	SAMS VALLEY	241	33,021	657	0.367	50
South OR	MEDFORD	TOLO	5R92	KIRTLAND RD	37	4,460	208	0.178	21
South OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	132	15,068	970	0.136	16
South OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	36	6,724	1,402	0.026	5
South OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	512	157,460	1,013	0.505	155
South OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	1,714	128,424	1,454	1.179	88
South OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	1	28	31	0.032	1
South OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	1	104	24	0.042	4
South OR	MEDFORD	WHITE CITY	5R14	AGATE	228	9,810	107	2.131	92
South OR	MEDFORD	WHITE CITY	5R19	3M	110	4,941	95	1.158	52
South OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	78	19,083	1,619	0.048	12
South OR	MEDFORD	WHITE CITY	5R76	AVE C	6	313	92	0.065	3
South OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	5	1,473	417	0.012	4
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #1 SUB	6U17	BRIGGS	2	494	3	0.667	165
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SUB	6U33	CLEARWATER	212	42,649	103	2.058	414

Oregon 2012 Circuit Metrics (including major events)

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South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	1,008	97,669	3,437	0.293	28
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	2,617	353,472	1,076	2.432	329
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	1,318	43,009	653	2.018	66
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	2,028	143,216	1,312	1.546	109
South OR	ROSEBURG/MYRTLECREEK	GAZLEY	5U46	CANYONVILLE	474	76,325	427	1.110	179
South OR	ROSEBURG/MYRTLECREEK	GAZLEY	5U52	BEALS CREEK FEED	2,578	522,031	912	2.827	572
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	2,224	325,943	1,004	2.215	325
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	3,519	415,803	1,350	2.607	308
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	3,298	268,302	2,283	1.445	118
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	39	6,562	1,440	0.027	5
South OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	726	144,616	179	4.056	808
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	3,344	217,485	1,563	2.139	139
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	6,049	544,933	2,332	2.594	234
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	5,995	514,306	1,352	4.434	380
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	1,660	130,685	549	3.024	238
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	3,203	264,528	1,021	3.137	259
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	3,353	263,166	1,611	2.081	163
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	270	2,813	269	1.004	10
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U23	FORD MILL	0	0	1	0.000	0
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	1	200	50	0.020	4
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	2,953	181,147	2,663	1.109	68
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	3,540	194,366	1,099	3.221	177
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	2,313	90,244	1,945	1.189	46
South OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	26	6,276	6	4.333	1046
South OR	ROSEBURG/MYRTLECREEK	SODA SPRINGS HE PLT	6U1	DRY CREEK	1	144	24	0.042	6
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	2,329	175,862	1,596	1.459	110
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	1,514	52,287	1,371	1.104	38
South OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	64	32,011	21	3.048	1524
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	5,377	245,163	1,328	4.049	185
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	4,562	276,403	1,315	3.469	210
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	1,584	111,271	487	3.253	228
South OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	863	215,557	323	2.672	667
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	19	2,732	19	1.000	144
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	4,733	406,704	1,665	2.843	244
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	2,293	98,246	1,749	1.311	56
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	2,453	235,642	746	3.288	316
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	823	34,711	746	1.103	47
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	3	291	878	0.003	0
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	2,132	293,995	1,478	1.442	199

Oregon 2012 Circuit Metrics (including major events)

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WImVly	ALBANY	HAZELWOOD	4M335	WEST HIGH	1,844	242,012	1,484	1.243	163
WImVly	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELV	5,697	821,255	1,224	4.654	671
WImVly	ALBANY	JEFFERSON (OR)	4M117	MARION	933	607,349	733	1.273	829
WImVly	ALBANY	JEFFERSON (OR)	4M125	MINT	6,541	440,069	2,558	2.557	172
WImVly	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	1,389	434,484	3,765	0.369	115
WImVly	ALBANY	MURDER CREEK	4M245	RURAL NW	2,985	492,262	1,825	1.636	270
WImVly	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	386	55,123	1,241	0.311	44
WImVly	ALBANY	OREMET	4M295	OAK CREEK	119	3,899	109	1.092	36
WImVly	ALBANY	OREMET	4M296	ROGERSDALE	8,384	548,994	3,125	2.683	176
WImVly	ALBANY	OREMET	5M19	OREMET	9	420	3	3.000	140
WImVly	ALBANY	QUEEN AVE	4M217	SANTIAM	4,347	864,893	2,015	2.157	429
WImVly	ALBANY	QUEEN AVE	4M258	HILL STREET	4,827	684,117	2,127	2.269	322
WImVly	ALBANY	QUEEN AVE	4M261	WAVERLY	4,942	441,485	3,348	1.476	132
WImVly	ALBANY	QUEEN AVE	4M262	GEARY STREET	3,243	252,881	2,608	1.243	97
WImVly	ALBANY	VINE STREET	4M15	FERRY	7,082	290,153	2,219	3.192	131
WImVly	ALBANY	VINE STREET	4M16	WATER STREET	24,623	2,669,918	3,728	6.605	716
WImVly	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	4,194	366,162	2,469	1.699	148
WImVly	CORVALLIS	BUCHANAN	4M133	PEORIA	5,816	1,135,655	2,486	2.340	457
WImVly	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	6,952	1,433,639	2,606	2.668	550
WImVly	CORVALLIS	CIRCLE BLVD	4M394	H. P. #1	1	128	0	0.000	0
WImVly	CORVALLIS	CIRCLE BLVD	4M427	H. P. #3	1	127	0	0.000	0
WImVly	CORVALLIS	CIRCLE BLVD	4M429	H. P. #5	1	129	0	0.000	0
WImVly	CORVALLIS	CIRCLE BLVD	4M430	H. P. #6	1	845	0	0.000	0
WImVly	CORVALLIS	DIXON	7M26	FOURTH ST.	264	24,936	200	1.320	125
WImVly	CORVALLIS	DIXON	7M29	SECOND ST.	263	25,136	303	0.868	83
WImVly	CORVALLIS	GRANT	4M265	HIGH SCHOOL	4,671	1,411,719	2,512	1.859	562
WImVly	CORVALLIS	GRANT	4M266	CHINTIMINI	8,198	1,452,695	2,522	3.251	576
WImVly	CORVALLIS	GRANT	4M268	KINGS ROAD	2,826	550,892	2,566	1.101	215
WImVly	CORVALLIS	GRANT	4M269	29TH STREET	4,417	1,786,437	3,269	1.351	546
WImVly	CORVALLIS	HILLVIEW	4M180	WEST HILLS	3,221	335,914	1,698	1.897	198
WImVly	CORVALLIS	HILLVIEW	4M181	PHILOMATH	677	42,703	648	1.045	66
WImVly	CORVALLIS	HILLVIEW	4M182	SUNSET	3,462	553,083	1,535	2.255	360
WImVly	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	2,379	174,106	2,236	1.064	78
WImVly	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	5,367	840,241	3,582	1.498	235
WImVly	CORVALLIS	MARYS RIVER	4M152	AVERY	220	16,821	192	1.146	88
WImVly	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	166	15,017	161	1.031	93
WImVly	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	13	5,133	524	0.025	10
WImVly	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	2,679	600,216	1,661	1.613	361
WImVly	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	1,047	223,418	1,893	0.553	118

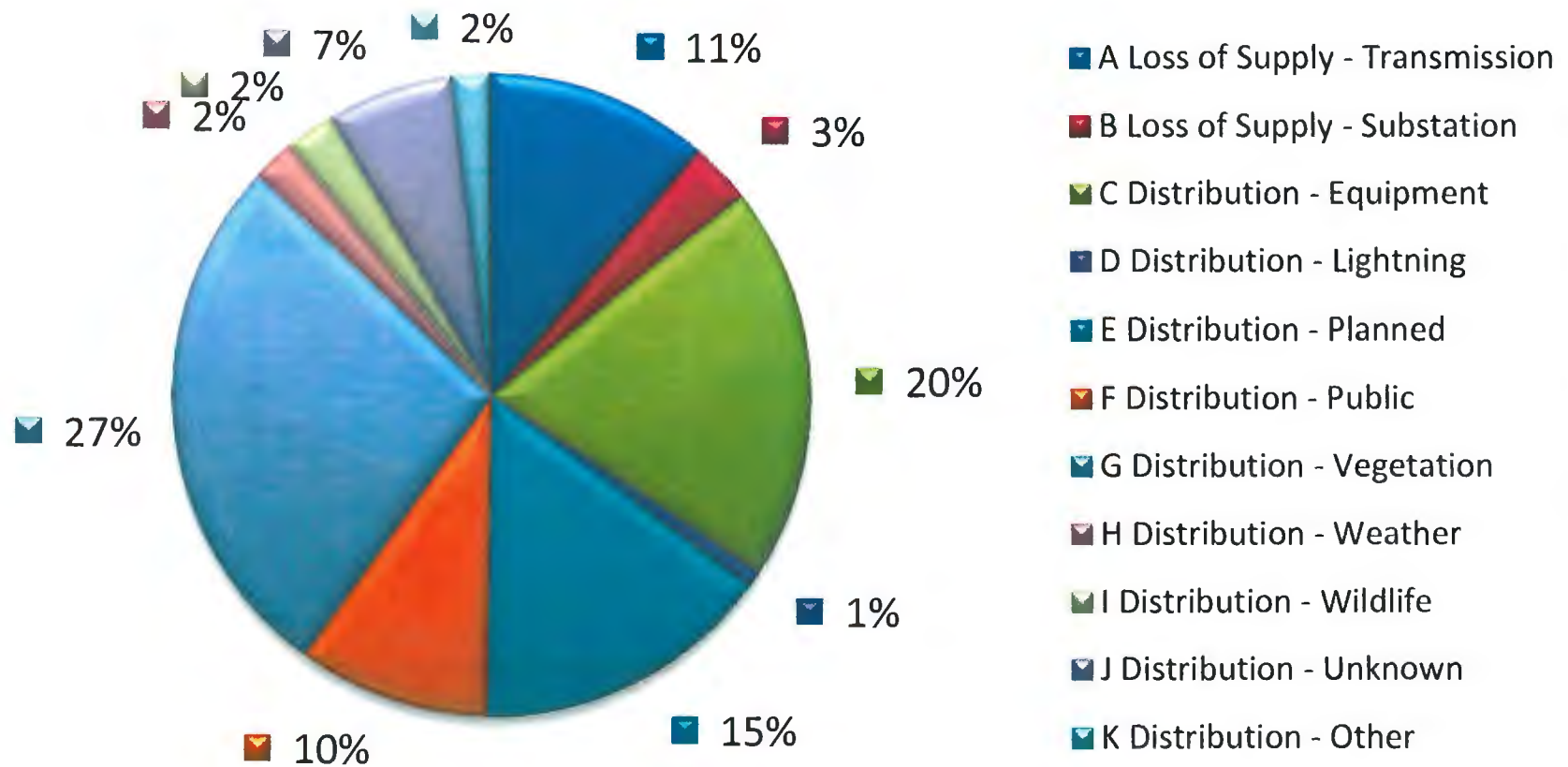
Oregon 2012 Circuit Metrics (including major events)

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WImVly	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	451	203,078	1,171	0.385	173
WImVly	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	1,398	127,860	933	1.498	137
WImVly	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	6,503	1,077,269	1,123	5.791	959
WImVly	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	625	146,548	2,386	0.262	61
WImVly	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	1,664	131,598	1,598	1.041	82
WImVly	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	16,997	2,211,157	4,373	3.887	506
WImVly	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	73	11,995	36	2.028	333
WImVly	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLEDALE	10,001	966,877	2,898	3.451	334
WImVly	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	11,431	1,537,641	2,304	4.961	667
WImVly	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	7,405	1,823,454	1,968	3.763	927
WImVly	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	14,520	2,684,623	3,095	4.691	867
WImVly	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	4,057	988,931	1,909	2.125	518
WImVly	LEBANON	CROWFOOT	4M204	CROWFOOT	7,145	2,406,139	1,528	4.676	1575
WImVly	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBA	417	131,130	1,757	0.237	75
WImVly	LEBANON	LEBANON	4M61	TANGENT	466	87,703	2,470	0.189	36
WImVly	LEBANON	LEBANON	4M62	RALSTON	152	142,370	2,027	0.075	70
WImVly	LEBANON	LEBANON	4M63	TENNESSEE	4,295	810,308	1,847	2.325	439
WImVly	LEBANON	LEBANON	4M79	CROWN Z	1,032	61,110	935	1.104	65
WImVly	LEBANON	SWEET HOME	4M37	HOLLEY	8,773	4,909,839	2,050	4.280	2395
WImVly	LEBANON	SWEET HOME	4M38	NARROWS	1,683	1,632,093	993	1.695	1644
WImVly	LEBANON	SWEET HOME	4M93	AMES CREEK	2,113	1,305,932	1,708	1.237	765
WImVly	LEBANON	SWEET HOME	4M94	FOSTER	6,361	2,832,502	2,302	2.763	1230
WImVly	STAYTON	NEW LYONS	4M120	MILL CITY	16,244	4,754,275	1,962	8.279	2423
WImVly	STAYTON	NEW LYONS	4M70	MEHAMA	4,436	1,338,124	995	4.458	1345
WImVly	STAYTON	NEW STAYTON	4M19	AUMSVILLE	956	210,286	3,127	0.306	67
WImVly	STAYTON	NEW STAYTON	4M353	WEST STAYTON	1,301	393,168	3,440	0.378	114
WImVly	STAYTON	NEW STAYTON	4M370	CASCADE	7,473	970,500	1,632	4.579	595
WImVly	STAYTON	NEW STAYTON	4M50	3RD STREET	1,134	154,932	930	1.219	167
WImVly	STAYTON	SCIO	5M126	THOMAS	5,427	589,451	1,589	3.415	371

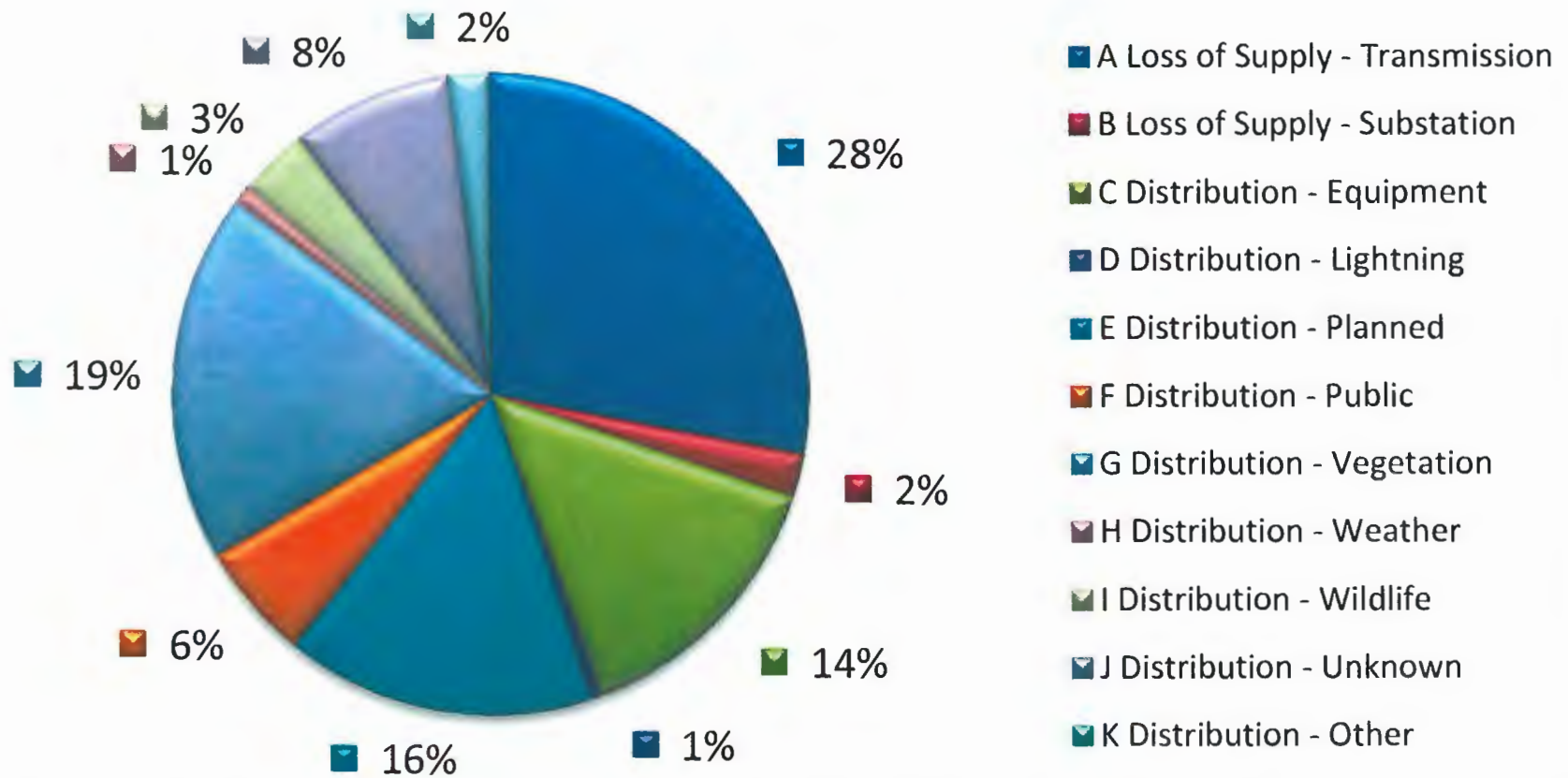
Oregon Cause Analysis by Summary (excluding major events)

AFOR Cause Category	2008		2009		2010		2011		2012	
	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count
A Loss of Supply - Transmission	154,905	226	315,597	304	207,272	211	115,185	136	180,451	201
B Loss of Supply - Substation	42,006	54	17,467	25	18,832	31	15,297	13	14,452	15
C Distribution - Equipment	98,130	4,027	88,441	3,880	109,604	3,703	86,844	3,605	90,948	3,481
D Distribution - Lightning	11,850	321	10,159	449	6,772	180	2,850	192	3,837	196
E Distribution - Planned	98,398	1,945	92,474	2,081	109,952	2,213	81,532	2,085	101,289	2,211
F Distribution - Public	77,251	518	48,686	452	44,328	429	44,319	371	38,245	360
G Distribution - Vegetation	101,154	1,331	106,497	1,250	88,059	1,346	76,024	1,051	120,018	1,372
H Distribution - Weather	34,596	786	17,545	270	23,150	264	10,260	239	6,133	244
I Distribution - Wildlife	27,316	1,035	23,542	941	29,463	905	33,903	674	22,305	753
J Distribution - Unknown	54,602	1,221	52,878	1,203	67,541	1,310	52,065	1,107	52,849	990
K Distribution - Other	11,030	180	14,793	166	18,032	153	10,776	175	13,593	150
OREGON TOTALS	711,238	11,644	788,079	11,021	723,005	10,745	529,055	9,648	644,120	9,973

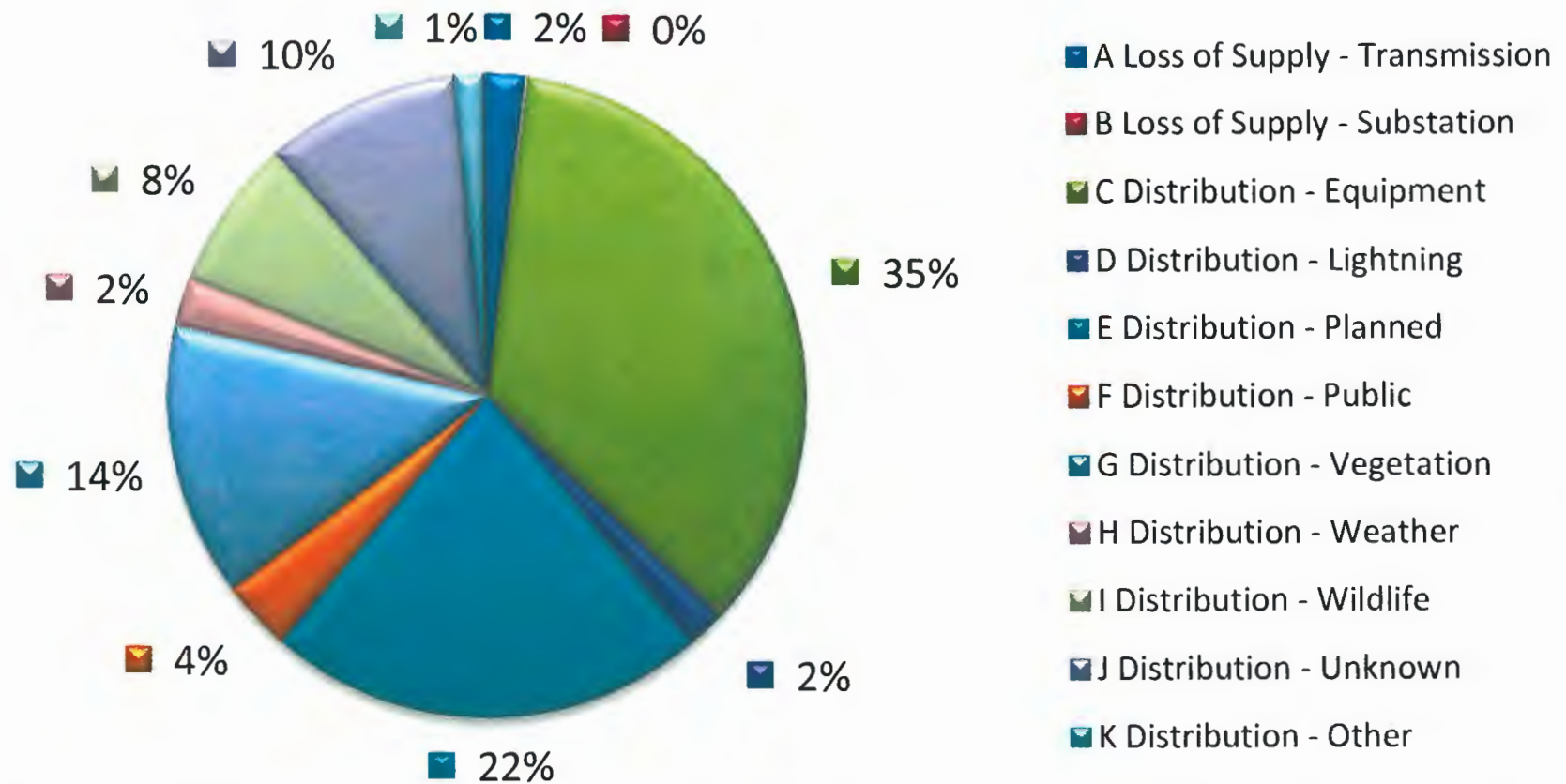
2012 Oregon Customer Minutes Lost for Incident



2012 Oregon Customer Interruptions Sustained



2012 Oregon Incidents



Oregon Cause Analysis by Reliability Region (excluding major events)

OR REGION	AFOR Cause	Direct Cause	2008		2009		2010		2011		2012	
			Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count
Central OR	A Loss of Supply - Transmission	LOSS OF FEED FROM					-	-			2,950	24
Central OR	A Loss of Supply - Transmission	LOSS OF TRANSMISSION LINE	10,250	9			10,684	9	15,538	15		
Central OR	A Loss of Supply - Transmission	RELAYS, BREAKERS,	-	1	-	2						
Central OR	A Loss of Supply - Transmission	STRUCTURES, INSULATORS,							-	3		
Central OR	B Loss of Supply - Substation	LOSS OF SUBSTATION	6,130	5							2,073	2
Central OR	C Distribution - Equipment	B/O EQUIPMENT	3,501	210	3,843	155	4,172	135	983	166	6,771	143
Central OR	C Distribution - Equipment	DETERIORATION OR ROTTING	4,067	177	4,067	266	5,736	202	5,629	217	3,428	208
Central OR	C Distribution - Equipment	NEARBY FAULT	13	1	1	1	98	1				
Central OR	C Distribution - Equipment	OVERLOAD	1,378	25	765	10	1	1	4	2		
Central OR	C Distribution - Equipment	POLE FIRE	289	5	153	2	132	4	190	4	122	4
Central OR	D Distribution - Lightning	LIGHTNING	2,997	123	1,275	67	2,321	37	1,811	68	118	25
Central OR	E Distribution - Planned	CONSTRUCTION	143	15	164	6	98	14	9	2	443	19
Central OR	E Distribution - Planned	CUSTOMER NOTICE GIVEN	4,513	118	485	65	1,295	52	1,439	65	789	46
Central OR	E Distribution - Planned	CUSTOMER REQUESTED	12	5	73	14	20	10	61	23	66	41
Central OR	E Distribution - Planned	EMERGENCY DAMAGE REPAIR	2,690	55	4,544	55	1,068	42	2,067	57	2,854	52
Central OR	E Distribution - Planned	INTENTIONAL TO CLEAR	3	1	88	8	22,793	17	38	7	1,064	6
Central OR	F Distribution - Public	DIG-IN (NON-PACIFICORP	395	10	10	8	165	9	1,162	11	732	14
Central OR	F Distribution - Public	OTHER INTERFERING OBJECT	73	3	11	4			311	7	15	1
Central OR	F Distribution - Public	OTHER UTILITY/CONTRACTOR	51	5	2,717	8	137	7	67	6	621	9
Central OR	F Distribution - Public	VANDALISM OR THEFT			3	3	1	1	1	1	1	1
Central OR	F Distribution - Public	VEHICLE ACCIDENT	4,473	39	1,586	27	2,037	16	1,915	25	1,739	36
Central OR	G Distribution - Vegetation	TREE - NON-PREVENTABLE	1,309	50	17,300	98	2,725	40	1,150	58	1,613	42
Central OR	G Distribution - Vegetation	TREE - TRIMMABLE	1	1			4	1			8	1
Central OR	H Distribution - Weather	FREEZING FOG & FROST					1	1				
Central OR	H Distribution - Weather	ICE	1	1	1	1						
Central OR	H Distribution - Weather	SNOW, SLEET AND BLIZZARD	1	1	140	24			525	45	49	3
Central OR	H Distribution - Weather	WIND	2,517	23	231	9	2,693	6	2,169	7	168	5
Central OR	I Distribution - Wildlife	ANIMALS	328	23	99	35	206	32	58	20	182	28
Central OR	I Distribution - Wildlife	BIRD MORTALITY (NON-	74	19	76	15	199	22	119	12	60	27
Central OR	I Distribution - Wildlife	BIRD MORTALITY (PROTECTED	47	5	2,481	8	1,101	10	7	2	27	6
Central OR	I Distribution - Wildlife	BIRD NEST (BMTS)	2,518	2	1,509	5			37	1	1	1
Central OR	I Distribution - Wildlife	BIRD SUSPECTED, NO	21	11	176	11	127	19	57	10	24	9
Central OR	J Distribution - Unknown	UNKNOWN	2,938	89	1,124	96	9,870	111	6,617	85	2,497	82
Central OR	K Distribution - Other	FAULTY INSTALL	48	1	2	2	6	2				
Central OR	K Distribution - Other	FIRE/SMOKE (NOT DUE TO	2	1	6	1	2	3	11	8	5	2
Central OR	K Distribution - Other	INCORRECT RECORDS	184	9	5	5	2	2	3	3	1	1
Central OR	K Distribution - Other	OTHER, KNOWN CAUSE	22	7	95	10	4,091	10	10	11	165	7
Central OR	K Distribution - Other	PACIFICORP EMPLOYEE -	-	-	4,294	10	-	-	2	2	147	2
Central OR	K Distribution - Other	TESTING/STARTUP ERROR	654	1								
Central OR	K Distribution - Other	UNSAFE SITUATION			5	1						
CoastPlus	A Loss of Supply - Transmission	FAILURE ON OTHER LINE OR	-	2								
CoastPlus	A Loss of Supply - Transmission	LOSS OF FEED FROM	3,885	8	2,758	14	10,565	9	1,980	5	8,725	7
CoastPlus	A Loss of Supply - Transmission	LOSS OF TRANSMISSION LINE	30,757	34	54,911	44	55,093	52	3,060	6	25,083	23
CoastPlus	A Loss of Supply - Transmission	RELAYS, BREAKERS,									-	1
CoastPlus	A Loss of Supply - Transmission	STRUCTURES, INSULATORS,	-	2	-	1	-	2	-	1	-	5
CoastPlus	B Loss of Supply - Substation	LOSS OF SUBSTATION	28,749	30	3,608	2	14,674	18	6,828	4	2,492	2

Oregon Cause Analysis by Reliability Region (excluding major events)

OR REGION	AFOR Cause	Direct Cause	2008		2009		2010		2011		2012	
			Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count
CoastPlus	C Distribution - Equipment	B/O EQUIPMENT	10,043	705	14,425	558	12,666	541	15,939	551	8,573	530
CoastPlus	C Distribution - Equipment	DETERIORATION OR ROTTING	6,690	553	6,654	594	14,997	647	8,630	542	3,883	428
CoastPlus	C Distribution - Equipment	NEARBY FAULT	-	-	2	2	1	1				
CoastPlus	C Distribution - Equipment	OVERLOAD	5	2	470	14	2,686	4	355	5	16	2
CoastPlus	C Distribution - Equipment	POLE FIRE	51	3	12	2	204	4	1,844	3	258	5
CoastPlus	D Distribution - Lightning	LIGHTNING	3,327	51	425	14	114	13	129	24	38	8
CoastPlus	E Distribution - Planned	CONSTRUCTION	61	12	150	25	107	15	172	6	1,036	89
CoastPlus	E Distribution - Planned	CUSTOMER NOTICE GIVEN	3,210	255	7,801	297	5,947	377	7,791	326	3,591	254
CoastPlus	E Distribution - Planned	CUSTOMER REQUESTED	50	12	782	40	302	34	50	35	128	67
CoastPlus	E Distribution - Planned	EMERGENCY DAMAGE REPAIR	12,332	107	15,426	183	15,918	138	13,705	136	12,418	153
CoastPlus	E Distribution - Planned	INTENTIONAL TO CLEAR	7,388	36	4,695	26	200	10	2,047	8	854	15
CoastPlus	E Distribution - Planned	TRANSMISSION REQUESTED			694	1	760	2	2,807	4		
CoastPlus	F Distribution - Public	DIG-IN (NON-PACIFICORP)	216	8	98	11	12	5	43	9	26	7
CoastPlus	F Distribution - Public	OTHER INTERFERING OBJECT	1,062	11	13	2	328	5	209	7	1,836	6
CoastPlus	F Distribution - Public	OTHER UTILITY/CONTRACTOR	6,200	20	213	15	21	12	2,088	23	2,838	11
CoastPlus	F Distribution - Public	TREE-FELLED BY LOGGER	-	2								
CoastPlus	F Distribution - Public	VANDALISM OR THEFT	34	5	42	6	4	4	15	5	102	5
CoastPlus	F Distribution - Public	VEHICLE ACCIDENT	15,475	79	18,401	69	10,421	75	3,495	47	6,052	40
CoastPlus	G Distribution - Vegetation	TREE - NON-PREVENTABLE	30,155	342	34,013	389	22,128	323	26,981	290	37,247	389
CoastPlus	G Distribution - Vegetation	TREE - TRIMMABLE	50	13	73	5	3	3	10	3	95	8
CoastPlus	H Distribution - Weather	CONDENSATION / MOISTURE	2	2	188	4	19	1				
CoastPlus	H Distribution - Weather	FREEZING FOG & FROST			61	5						
CoastPlus	H Distribution - Weather	ICE	32	6	410	10					8	3
CoastPlus	H Distribution - Weather	SNOW, SLEET AND BLIZZARD	1,060	31	19	3	39	2	262	12	186	57
CoastPlus	H Distribution - Weather	WIND	5,705	43	5,661	39	4,927	53	2,169	40	931	27
CoastPlus	I Distribution - Wildlife	ANIMALS	1,879	144	1,442	101	7,174	98	7,986	60	4,510	66
CoastPlus	I Distribution - Wildlife	BIRD MORTALITY (NON-PROTECTED)	51	9	150	14	44	6	408	8	19	5
CoastPlus	I Distribution - Wildlife	BIRD MORTALITY (PROTECTED)	415	24	303	13	1,862	16	10,911	20	1,897	19
CoastPlus	I Distribution - Wildlife	BIRD NEST (BMTS)	200	1	1,231	7			4	1	71	2
CoastPlus	I Distribution - Wildlife	BIRD SUSPECTED, NO	11	3	174	6	733	5	34	7	42	4
CoastPlus	J Distribution - Unknown	UNKNOWN	6,694	133	11,766	158	14,007	151	4,262	156	8,127	97
CoastPlus	K Distribution - Other	CONTACT BY PACIFICORP	1	1								
CoastPlus	K Distribution - Other	CONTAMINATION	14	6	20	8	4,461	16	1	1	578	1
CoastPlus	K Distribution - Other	FAULTY INSTALL	2	2	1	1	1	1	3	3		
CoastPlus	K Distribution - Other	FIRE/SMOKE (NOT DUE TO FLOODING)	10	5	4	4	15	2	4	4	1,803	4
CoastPlus	K Distribution - Other	IMPROPER PROTECTIVE			620	2	797	1				
CoastPlus	K Distribution - Other	INCORRECT RECORDS	39	10	7	3			17	6	3	3
CoastPlus	K Distribution - Other	INTERNAL CONTRACTOR			29	2						
CoastPlus	K Distribution - Other	INTERNAL TREE							1	1	14	1
CoastPlus	K Distribution - Other	OTHER, KNOWN CAUSE	193	22	2,537	13	13	7	2,790	13	167	17
CoastPlus	K Distribution - Other	PACIFICORP EMPLOYEE -	1	1	113	7	71	3	2	2	35	3
CoastPlus	K Distribution - Other	SWITCHING ERROR	1,096	1							-	-
CoastPlus	K Distribution - Other	TESTING/STARTUP ERROR	3,823	18								
CoastPlus	K Distribution - Other	UNSAFE SITUATION							6	1	9	1
Northeast	A Loss of Supply - Transmissior	FAILURE ON OTHER LINE OR						1				

Oregon Cause Analysis by Reliability Region (excluding major events)

OR REGION	AFOR Cause	Direct Cause	2008		2009		2010		2011		2012	
			Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count
Northeast	A Loss of Supply - Transmission	LOSS OF FEED FROM	220	2	2,150	7	793	4	978	5	464	4
Northeast	A Loss of Supply - Transmission	LOSS OF TRANSMISSION LINE	17,658	22	3,216	5	6,219	8	2,901	8	573	2
Northeast	A Loss of Supply - Transmission	STRUCTURES, INSULATORS,			-	1						
Northeast	A Loss of Supply - Transmission	SYSTEM PROTECTION	-	1								
Northeast	B Loss of Supply - Substation	LOSS OF SUBSTATION	449	1			92	1				
Northeast	C Distribution - Equipment	B/O EQUIPMENT	4,738	136	2,659	105	931	108	661	102	737	130
Northeast	C Distribution - Equipment	DETERIORATION OR ROTTING	3,905	96	3,144	105	2,054	108	991	119	1,299	91
Northeast	C Distribution - Equipment	OVERLOAD	52	1	6	3	2	1	12	3		
Northeast	C Distribution - Equipment	POLE FIRE	5,836	18	1,349	8	4,095	8	954	16	732	12
Northeast	D Distribution - Lightning	LIGHTNING	1,170	34	1,942	17	1,454	30	218	29	1,447	107
Northeast	E Distribution - Planned	CONSTRUCTION	-	-	3	1	14	2	872	1	-	8
Northeast	E Distribution - Planned	CUSTOMER NOTICE GIVEN	561	83	1,019	55	880	86	839	61	508	26
Northeast	E Distribution - Planned	CUSTOMER REQUESTED	3	3	4	4	6	6	10	6	12	12
Northeast	E Distribution - Planned	EMERGENCY DAMAGE REPAIR	766	12	3,284	25	2,956	23	1,035	27	2,322	36
Northeast	E Distribution - Planned	INTENTIONAL TO CLEAR	36	3	5	2	1,919	6	24	2	34	4
Northeast	E Distribution - Planned	TRANSMISSION REQUESTED	13	1	869	2	-	-			133	1
Northeast	F Distribution - Public	DIG-IN (NON-PACIFICORP	52	5	4	3	17	3	13	6	5	3
Northeast	F Distribution - Public	OTHER INTERFERING OBJECT	1,432	5	5	2	1	1	148	4	223	7
Northeast	F Distribution - Public	OTHER UTILITY/CONTRACTOR	12	4	95	2	197	3	11	2	1	1
Northeast	F Distribution - Public	VANDALISM OR THEFT	42	3			10	1			1	1
Northeast	F Distribution - Public	VEHICLE ACCIDENT	2,753	16	3,307	16	627	31	896	10	999	12
Northeast	G Distribution - Vegetation	TREE - NON-PREVENTABLE	4,257	52	2,279	69	1,061	55	5,075	40	1,952	63
Northeast	G Distribution - Vegetation	TREE - TRIMMABLE			1	1	1	1	57	1		
Northeast	H Distribution - Weather	FREEZING FOG & FROST							105	3		
Northeast	H Distribution - Weather	ICE	179	2	107	13			14	2	-	1
Northeast	H Distribution - Weather	SNOW, SLEET AND BLIZZARD	219	10	291	16	250	6	120	6	50	6
Northeast	H Distribution - Weather	WIND	5,442	96	1,700	16	5,635	26	346	12	338	31
Northeast	I Distribution - Wildlife	ANIMALS	1,912	110	318	79	566	74	1,944	75	368	74
Northeast	I Distribution - Wildlife	BIRD MORTALITY (NON-	29	20	912	26	28	14	60	26	86	35
Northeast	I Distribution - Wildlife	BIRD MORTALITY (PROTECTED	4	3	21	6	322	8	111	5	75	7
Northeast	I Distribution - Wildlife	BIRD NEST (BMTS)	14	1			15	1			114	2
Northeast	I Distribution - Wildlife	BIRD SUSPECTED, NO	27	8	20	10	135	14	15	7	11	7
Northeast	J Distribution - Unknown	UNKNOWN	1,437	93	2,638	111	6,423	132	2,305	119	1,190	99
Northeast	K Distribution - Other	CONTAMINATION	1	1					1	1	16	1
Northeast	K Distribution - Other	FIRE/SMOKE (NOT DUE TO	7	1	15	4	9	2	7	1	142	3
Northeast	K Distribution - Other	INCORRECT RECORDS	2	2	1	1	5	1	1	1	1	1
Northeast	K Distribution - Other	INTERNAL CONTRACTOR							275	3		
Northeast	K Distribution - Other	OTHER, KNOWN CAUSE	1,177	2	5	3	407	2	5	5	35	8
Northeast	K Distribution - Other	PACIFICORP EMPLOYEE -			1	1			998	3		
South OR	A Loss of Supply - Transmission	FAILURE ON OTHER LINE OR	-	3					-	1		
South OR	A Loss of Supply - Transmission	LOSS OF FEED FROM	54	4	64	1	19	1	66	6	104	6
South OR	A Loss of Supply - Transmission	LOSS OF GENERATOR					178	1				
South OR	A Loss of Supply - Transmission	LOSS OF TRANSMISSION LINE	78,123	112	209,253	191	52,506	80	66,921	69	126,428	114
South OR	A Loss of Supply - Transmission	RELAYS, BREAKERS,	-	3	-	-	-	1	-	3	2	2
South OR	A Loss of Supply - Transmission	STRUCTURES, INSULATORS,	-	4	-	6	-	3	-	1	-	5
South OR	A Loss of Supply - Transmission	SYSTEM PROTECTION	-	1			-	1			-	1

Oregon Cause Analysis by Reliability Region (excluding major events)

OR REGION	AFOR Cause	Direct Cause	2008		2009		2010		2011		2012	
			Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count
South OR	B Loss of Supply - Substation	LOSS OF SUBSTATION	6,678	18	13,614	21	4,066	12	8,469	9	5,475	9
South OR	C Distribution - Equipment	B/O EQUIPMENT	14,981	628	13,840	639	13,588	602	17,829	502	24,860	575
South OR	C Distribution - Equipment	DETERIORATION OR ROTTING	12,333	687	8,591	588	11,576	649	10,364	665	8,502	611
South OR	C Distribution - Equipment	NEARBY FAULT	603	5	75	5	2,664	3	2	1		
South OR	C Distribution - Equipment	OVERLOAD	578	13	5,884	29	5	4	640	18	79	9
South OR	C Distribution - Equipment	POLE FIRE	157	7	1,575	4	1,081	5	123	8	3,448	14
South OR	D Distribution - Lightning	LIGHTNING	3,892	98	3,618	291	2,221	85	489	32	635	47
South OR	E Distribution - Planned	CONSTRUCTION	922	36	526	32	373	39	401	21	2,787	164
South OR	E Distribution - Planned	CUSTOMER NOTICE GIVEN	9,037	542	4,459	354	7,271	400	5,449	447	9,560	353
South OR	E Distribution - Planned	CUSTOMER REQUESTED	1,135	31	244	30	167	69	440	104	520	155
South OR	E Distribution - Planned	EMERGENCY DAMAGE REPAIR	25,109	195	11,011	188	25,626	309	19,374	283	28,342	246
South OR	E Distribution - Planned	INTENTIONAL TO CLEAR	10,718	56	2,805	27	2,239	37	1,497	18	3,170	31
South OR	E Distribution - Planned	TRANSMISSION REQUESTED	4,260	6	5,455	3	5,923	10	18	2	4,838	5
South OR	F Distribution - Public	DIG-IN (NON-PACIFICORP)	81	26	140	21	125	19	370	17	109	19
South OR	F Distribution - Public	OTHER INTERFERING OBJECT	1,495	7	303	7	805	11	1,030	8	319	12
South OR	F Distribution - Public	OTHER UTILITY/CONTRACTOR	3,522	26	851	28	372	28	2,324	35	1,392	22
South OR	F Distribution - Public	TREE-FELLED BY LOGGER			-	1						
South OR	F Distribution - Public	VANDALISM OR THEFT	63	10	1,070	7	314	11	237	6	167	6
South OR	F Distribution - Public	VEHICLE ACCIDENT	14,944	91	12,451	85	9,454	77	7,823	69	5,921	49
South OR	G Distribution - Vegetation	TREE - NON-PREVENTABLE	50,174	618	19,651	327	36,093	525	22,241	403	42,857	502
South OR	G Distribution - Vegetation	TREE - TRIMMABLE	20	8	7	5	54	3	8	6	182	5
South OR	H Distribution - Weather	CONDENSATION / MOISTURE	1	1	1	1						
South OR	H Distribution - Weather	ICE	2	2							167	1
South OR	H Distribution - Weather	SNOW, SLEET AND BLIZZARD	12,027	258	389	24	5,023	79	313	27	790	36
South OR	H Distribution - Weather	WIND	4,977	181	2,359	48	4,163	69	1,483	58	2,286	28
South OR	I Distribution - Wildlife	ANIMALS	3,059	242	3,604	205	4,476	189	861	106	1,161	140
South OR	I Distribution - Wildlife	BIRD MORTALITY (NON-PROTECTED)	992	73	3,117	90	2,650	91	3,163	92	5,073	58
South OR	I Distribution - Wildlife	BIRD MORTALITY (PROTECTED)	1,558	20	1,571	31	473	17	442	20	2,172	28
South OR	I Distribution - Wildlife	BIRD NEST (BMTS)	2,431	16	788	15	1,561	10	188	10	421	12
South OR	I Distribution - Wildlife	BIRD SUSPECTED, NO	800	42	390	15	1,626	45	1,341	49	500	22
South OR	J Distribution - Unknown	UNKNOWN	25,644	561	20,651	506	21,082	586	21,928	460	24,416	412
South OR	K Distribution - Other	CONTACT BY PACIFICORP	8	1								
South OR	K Distribution - Other	CONTAMINATION									109	1
South OR	K Distribution - Other	FAULTY INSTALL	1,624	15	24	7	25	8	30	10	6	5
South OR	K Distribution - Other	FIRE/SMOKE (NOT DUE TO)	33	5	2	2	36	5	568	3	4	4
South OR	K Distribution - Other	FLOODING			2	1	1	1				
South OR	K Distribution - Other	IMPROPER PROTECTIVE	75	4	129	9	31	5	40	4	7	4
South OR	K Distribution - Other	INCORRECT RECORDS	6	6	88	10	5	5	49	7	51	10
South OR	K Distribution - Other	INTERNAL CONTRACTOR	12	1	-	-	527	2	103	1	45	2
South OR	K Distribution - Other	INTERNAL TREE					7	2				
South OR	K Distribution - Other	OTHER, KNOWN CAUSE	757	31	305	29	3,428	33	3,306	47	3,264	39
South OR	K Distribution - Other	PACIFICORP EMPLOYEE -	1	1	486	3	1,037	4	5	5	2,762	5
South OR	K Distribution - Other	PACIFICORP EMPLOYEE - SUB			-	-			2,191	1		
South OR	K Distribution - Other	TESTING/STARTUP ERROR			945	1						
South OR	K Distribution - Other	UNSAFE SITUATION	29	1					4	1	28	1
WlmVly	A Loss of Supply - Transmission	LOSS OF FEED FROM	-	-			5,614	3				

Oregon Cause Analysis by Reliability Region (excluding major events)

OR REGION	AFOR Cause	Direct Cause	2008		2009		2010		2011		2012	
			Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count	Customers In Incident Sustained	Sustained Incident Count
WlmVly	A Loss of Supply - Transmission	LOSS OF TRANSMISSION LINE	13,958	15	43,245	28	65,601	33	23,741	12	16,122	6
WlmVly	A Loss of Supply - Transmission	RELAYS, BREAKERS,	-	1								
WlmVly	A Loss of Supply - Transmission	STRUCTURES, INSULATORS,	-	2	-	3	-	3	-	1	-	1
WlmVly	A Loss of Supply - Transmission	SYSTEM PROTECTION			-	1						
WlmVly	B Loss of Supply - Substation	LOSS OF SUBSTATION			245	2	-	-			4,412	2
WlmVly	C Distribution - Equipment	B/O EQUIPMENT	18,837	435	10,714	366	16,487	315	14,437	308	21,160	359
WlmVly	C Distribution - Equipment	DETERIORATION OR ROTTING	6,678	310	9,826	417	16,428	360	7,006	365	6,660	338
WlmVly	C Distribution - Equipment	NEARBY FAULT	1,990	4					202	5	53	15
WlmVly	C Distribution - Equipment	OVERLOAD			350	6			30	2		
WlmVly	C Distribution - Equipment	POLE FIRE	1,405	6	36	1			19	1	367	7
WlmVly	D Distribution - Lightning	LIGHTNING	464	15	2,899	60	662	15	203	39	1,599	9
WlmVly	E Distribution - Planned	CONSTRUCTION	81	9	235	43	110	15	524	7	185	63
WlmVly	E Distribution - Planned	CUSTOMER NOTICE GIVEN	1,317	208	2,997	395	1,831	253	5,359	200	1,139	143
WlmVly	E Distribution - Planned	CUSTOMER REQUESTED	78	23	129	44	423	74	209	59	2,756	43
WlmVly	E Distribution - Planned	EMERGENCY DAMAGE REPAIR	12,051	93	20,356	137	11,132	153	9,592	156	19,280	160
WlmVly	E Distribution - Planned	INTENTIONAL TO CLEAR	1,909	28	4,161	15	574	20	603	16	2,460	19
WlmVly	E Distribution - Planned	TRANSMISSION REQUESTED			10	4			5,100	6		
WlmVly	F Distribution - Public	DIG-IN (NON-PACIFICORP	17	7	22	5	14	12	7	4	2	2
WlmVly	F Distribution - Public	OTHER INTERFERING OBJECT	683	22	660	30	2,520	37	1,936	9	385	15
WlmVly	F Distribution - Public	OTHER UTILITY/CONTRACTOR	70	11	902	13	1,734	15	5,191	19	253	11
WlmVly	F Distribution - Public	VANDALISM OR THEFT	3,018	8	5	5	3	3	2,301	3	19	11
WlmVly	F Distribution - Public	VEHICLE ACCIDENT	21,088	95	5,777	74	15,009	43	12,726	38	14,487	59
WlmVly	G Distribution - Vegetation	TREE - NON-PREVENTABLE	15,063	240	33,147	352	25,025	386	20,502	250	36,029	358
WlmVly	G Distribution - Vegetation	TREE - TRIMMABLE	125	7	26	4	965	9			35	4
WlmVly	H Distribution - Weather	ICE	272	4								
WlmVly	H Distribution - Weather	SNOW, SLEET AND BLIZZARD	1,086	97	40	19	9	1	25	1	850	38
WlmVly	H Distribution - Weather	WIND	1,073	28	5,947	38	391	20	2,729	26	310	8
WlmVly	I Distribution - Wildlife	ANIMALS	3,096	99	1,161	95	3,925	102	4,347	37	1,040	59
WlmVly	I Distribution - Wildlife	BIRD MORTALITY (NON-	2,535	92	3,440	99	1,134	85	246	58	3,440	93
WlmVly	I Distribution - Wildlife	BIRD MORTALITY (PROTECTED	5,017	30	130	20	690	26	736	17	591	21
WlmVly	I Distribution - Wildlife	BIRD NEST (BMTS)	141	19	91	9	9	2	25	9	13	7
WlmVly	I Distribution - Wildlife	BIRD SUSPECTED, NO	157	19	338	26	407	19	803	22	407	21
WlmVly	J Distribution - Unknown	UNKNOWN	17,889	345	16,699	332	16,159	330	16,953	287	16,619	300
WlmVly	K Distribution - Other	CONTACT BY PACIFICORP	1	1								
WlmVly	K Distribution - Other	CONTAMINATION	4	1			5	3	2	1	12	4
WlmVly	K Distribution - Other	FAULTY INSTALL	58	4	2	2					1	1
WlmVly	K Distribution - Other	FIRE/SMOKE (NOT DUE TO	1,050	6	2,183	3	9	4	22	4	1	1
WlmVly	K Distribution - Other	FLOODING							4	1	273	3
WlmVly	K Distribution - Other	IMPROPER PROTECTIVE			9	2	91	1	97	4		
WlmVly	K Distribution - Other	INCORRECT RECORDS	3	3	289	5	121	4	34	2	54	2
WlmVly	K Distribution - Other	INTERNAL CONTRACTOR			49	1			1	1	22	1
WlmVly	K Distribution - Other	INTERNAL TREE							1	1		
WlmVly	K Distribution - Other	OTHER, KNOWN CAUSE	13	7	19	9	325	14	142	10	1,507	11
WlmVly	K Distribution - Other	PACIFICORP EMPLOYEE -	38	1	49	2						
WlmVly	K Distribution - Other	TESTING/STARTUP ERROR	42	1	2,451	1			38	2		
WlmVly	K Distribution - Other	UNSAFE SITUATION			1	1			2	1		

Reliability Region and Operating Area Customer Counts

Region	Op Area	CY2012	CY2011	CY2010	CY2009	CY2008
Central OR	BEND/REDMOND	59,844	59,238	58,757	57,947	56,790
Central OR	MADRAS	17,113	17,006	16,919	16,813	16,608
Central OR		76,957	76,244	75,676	74,760	73,398
CoastPlus	CLATSOP (ASTORIA)	24,128	23,883	23,724	23,542	23,261
CoastPlus	COOS BAY/COQUILLE	27,210	27,080	26,929	26,793	26,594
CoastPlus	HOOD RIVER	9,180	9,067	8,924	8,835	8,686
CoastPlus	LINCOLN CITY	12,018	11,972	11,929	11,841	11,708
CoastPlus	PORTLAND	76,977	79,270	75,838	74,371	73,324
CoastPlus		149,513	151,272	147,344	145,382	143,573
Northeast OR	ENTERPRISE	5,457	5,412	5,383	5,335	5,273
Northeast OR	HERMISTON	4,745	4,686	4,614	4,577	4,513
Northeast OR	MILTON/FREEWATER	994	996	988	984	980
Northeast OR	PENDLETON	13,122	13,063	13,756	13,669	13,591
Northeast OR	WALLA WALLA OR	1,416	1,407	1,398	1,391	1,369
Northeast OR		25,734	25,564	26,139	25,956	25,726
South OR	GRANTS PASS	51,497	51,572	51,346	51,051	50,503
South OR	KLAMATH FALLS	38,925	38,763	38,492	38,246	37,825
South OR	LAKEVIEW	2,529	2,516	2,497	2,467	2,451
South OR	MEDFORD	87,985	87,397	86,957	86,269	85,315
South OR	ROSEBURG/MYRTLECREEK	42,807	42,694	42,553	42,376	41,112
South OR		223,743	222,942	221,845	220,409	217,206
WlmVly	ALBANY	32,119	31,907	31,710	31,171	30,740
WlmVly	CORVALLIS	28,981	28,820	28,695	28,527	28,356
WlmVly	COTTAGE GROVE/J.CITY	11,292	11,233	11,184	11,135	11,034
WlmVly	DALLAS/INDEPENDENCE	14,674	14,605	14,525	14,385	14,213
WlmVly	LEBANON	19,531	19,434	19,229	19,014	18,757
WlmVly	STAYTON	13,675	13,600	13,513	13,416	13,248
WlmVly		120,272	119,599	118,856	117,648	116,348

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	12.50	2,304
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	12.50	957
Central OR	BEND/REDMOND	BEND	5D12	DIVISION ST.	12.50	217
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	12.50	1,472
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	12.50	1,658
Central OR	BEND/REDMOND	BOND STREET	5D413	OLD MILL.	12.50	345
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	12.50	1,293
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	12.50	2,251
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	12.50	1,566
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	12.50	2,341
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	12.50	881
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	12.50	961
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	12.50	1,398
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	12.50	3,035
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	12.50	794
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	12.50	1,314
Central OR	BEND/REDMOND	CROOKED RIVER R	4D131	CANYON	20.80	1,732
Central OR	BEND/REDMOND	CROOKED RIVER R	4D30	CROOKED R.R.	20.80	759
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	12.50	685
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	12.50	1,384
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	12.50	448
Central OR	BEND/REDMOND	MIDPOINT	CO01-1	MIDPOINT-HEMMINGWAY-500KV	500.00	0
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	12.50	681
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	12.50	2,621
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	12.50	1,296
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	12.50	1,853
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	12.50	1,797
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	12.50	2,521
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	12.50	2,366
Central OR	BEND/REDMOND	PILOT BUTTE	CO08	BEND PLANT-PILOT BUTTE-69KV	69.00	0
Central OR	BEND/REDMOND	PILOT BUTTE	CO09	BEND-REDMOND-69KV	69.00	0
Central OR	BEND/REDMOND	PILOT BUTTE	CO17	PILOT BUTTE - CEC 69KV	69.00	0
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	12.50	676
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	12.50	1,445
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	12.50	808

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	12.50	1,429
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	12.50	2,676
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	12.50	1,331
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	12.50	413
Central OR	BEND/REDMOND	REDMOND	CO07	REMOND-REDMOND BPA-69KV	69.00	0
Central OR	BEND/REDMOND	REDMOND BPA	CO02	REDMOND BPA-REDMOND-115KV	115.00	0
Central OR	BEND/REDMOND	REDMOND BPA	CO03	REDMOND-PRINEVILLE-115KV	115.00	0
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	12.50	2,604
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	12.50	2,850
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	12.50	499
Central OR	BEND/REDMOND	SUMMER LAKE (BPA)	CO01-1A	SUMMER LAKE (BPA)-HEMMINGWAY-50	500.00	1
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	12.50	1,433
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	12.50	389
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	12.50	2,358
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	12.50	142
Central OR	MADRAS	COVE (OR)	CO06-2	COVE-WARM SPRINGS-REDMOND-69KV	69.00	0
Central OR	MADRAS	COVE (OR)	CO13	COVE-PELTON-WARM SPRINGS-69KV	69.00	0
Central OR	MADRAS	CULVER	5D5	CULVER	12.50	1,766
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	12.50	1,022
Central OR	MADRAS	MADRAS	5D53	AGATE	12.50	1,319
Central OR	MADRAS	MADRAS	5D57	QUARTZ	12.50	1,416
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	12.50	1,328
Central OR	MADRAS	OPAL SPRINGS	CO04	COVE - OPAL SPRINGS-69KV TAP	69.00	0
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	12.50	604
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	12.50	2,239
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	12.50	1,261
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	12.50	982
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	12.50	1,646
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	12.50	643
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	12.50	77
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	12.50	1,598
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	20.80	1,069
Central OR	MADRAS	WARM SPRINGS	CO05	MADRAS-WARM SPRINGS-69KV	69.00	0
CoastPlus	CLATSOP (ASTORIA)	ASTORIA	CL01-2	ASTORIA-BPA ALLSTON 115KV	115.00	0
CoastPlus	CLATSOP (ASTORIA)	ASTORIA	CL01-3	ASTORIA-TILLAMOOK-115KV	115.00	0

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	12.50	1,534
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	12.50	1,254
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	12.50	262
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	12.50	103
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	12.50	692
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	12.50	935
CoastPlus	CLATSOP (ASTORIA)	LEWIS & CLARK	CL03	LEWIS & CLARK-CLATSOP-BPA-115KV	115.00	0
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	12.50	2,367
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	12.50	1,638
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	12.50	1,191
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	12.50	3,095
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	12.50	1,803
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	12.50	517
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	12.50	1,495
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	12.50	1,229
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	12.50	1,124
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	12.50	956
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	12.50	186
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	12.50	1,273
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	12.50	970
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	12.50	1,502
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	CL01-1	YOUNGS BAY-ASTORIA-115KV	115.00	0
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	20.80	782
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	20.80	1,405
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	20.80	1,771
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	20.80	1,637
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	20.80	179
CoastPlus	COOS BAY/COQUILLE	COQUILLE	CB07	COQUILLE-MYRTLE POINT-115KV	115.00	0
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C108	EMPIRE	20.80	1,744
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C89	SCOTT	20.80	1,421
CoastPlus	COOS BAY/COQUILLE	EMPIRE NEW	4C90	CHARLESTON	20.80	2,171
CoastPlus	COOS BAY/COQUILLE	FAIRVIEW (BPA)	CB01	FAIRVIEW-ISTHMUS-230KV	230.00	0
CoastPlus	COOS BAY/COQUILLE	FAIRVIEW (BPA)	CB02	FAIRVIEW-LOCKHART-115KV	115.00	0
CoastPlus	COOS BAY/COQUILLE	G P COQUILLE	L804X	BANDON	20.80	0
CoastPlus	COOS BAY/COQUILLE	ISTHMUS	CB06	ISTHMUS-LOCKHART-115KV	115.00	0

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C11	WEYCO#2	12.50	1
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C24	WEYCO #8	12.50	28
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C5	MENASHA	12.50	0
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	12.50	29
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C48	CITY CENTER	20.80	1,611
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C49	EASTSIDE	20.80	799
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C5	GEORGIA-PAC	20.80	103
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C50	BUNKERHILL	20.80	1,901
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	4C97	ENGLEWOOD	20.80	1,419
CoastPlus	COOS BAY/COQUILLE	LOCKHART STREET	CB03	LOCKHART-STATE STREET-115KV	115.00	0
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	20.80	362
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	20.80	2,193
CoastPlus	COOS BAY/COQUILLE	SOUTH DUNES	5C9	DOUGLAS CHIP	12.50	2
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	20.80	1,867
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	20.80	1,723
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	20.80	2,283
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	20.80	1,779
CoastPlus	COOS BAY/COQUILLE	STATE STREET	CB05	STATE STREET-JORDAN POINT-115KV	115.00	0
CoastPlus	HOOD RIVER	DEE	3K15	US PLYWOOD (HOOD RIVER)	69.00	1
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	20.80	455
CoastPlus	HOOD RIVER	GRASS VALLEY	6K1	KENT	7.20	62
CoastPlus	HOOD RIVER	GRASS VALLEY	8K4	GRASS VALLEY CITY	2.40	98
CoastPlus	HOOD RIVER	HOOD RIVER	5K29	MOSIER FDR	12.50	0
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	12.50	1,954
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	12.50	1,096
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	12.50	1,751
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	7.20	1,034
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	12.50	1,620
CoastPlus	HOOD RIVER	HOOD RIVER	6K336	WEST SIDE	7.20	2
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	12.50	722
CoastPlus	HOOD RIVER	MORO	8K6	MORO	2.40	118
CoastPlus	HOOD RIVER	POWERDALE HE PL	HR03	CONDUIT-POWERDALE-69KV	69.00	0
CoastPlus	HOOD RIVER	TUCKER	3K24	INDIAN CREEK (TUCKER)	69.00	0
CoastPlus	HOOD RIVER	TUCKER	HR01	TUCKER-POWERDALE-69KV	69.00	0
CoastPlus	HOOD RIVER	TUCKER	HR04	TUCKER-POWERDALE-69KV	69.00	0

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	4.10	265
CoastPlus	LINCOLN CITY	BOYER	LC01	BOYER-DEVILS LAKE #1-115KV	115.00	0
CoastPlus	LINCOLN CITY	BOYER	LC02	BOYER-DEVILS LAKE #2-115KV	115.00	0
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	20.80	2,056
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	20.80	2,880
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	20.80	4,472
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	20.80	451
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	4.10	713
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	4.10	359
CoastPlus	LINCOLN CITY	NELSCOTT	7A390	NELSCOTT	4.10	357
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R136	BOYER	12.00	19
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	4.10	711
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	11.70	329
CoastPlus	PORTLAND	ALBINA	5P150	ALBINA 11C15	11.70	165
CoastPlus	PORTLAND	ALBINA	5P194	11C24-UG	11.70	22
CoastPlus	PORTLAND	ALBINA	5P196	11C16-UG	11.70	459
CoastPlus	PORTLAND	ALBINA	5P200	11C20-UG	11.70	421
CoastPlus	PORTLAND	ALBINA	5P66	11C25	11.70	62
CoastPlus	PORTLAND	ALBINA	5P91	11C11-UG	11.70	345
CoastPlus	PORTLAND	ALBINA	5P92	11C12-UG	11.70	348
CoastPlus	PORTLAND	ALDERWOOD 115/12	5P22	ALDERWOOD #2	12.50	206
CoastPlus	PORTLAND	ALDERWOOD 115/12	5P23	ALDERWOOD #1-UG	12.50	0
CoastPlus	PORTLAND	ALDERWOOD 115/12	5P604	ALDERWOOD #3	12.50	181
CoastPlus	PORTLAND	BLOSS	5P170	OFFICE	12.50	0
CoastPlus	PORTLAND	BLOSS	5P172	FURNACE	12.50	1
CoastPlus	PORTLAND	BPA ST JOHNS	P10-2	BPA ST JOHNS-ST JOHNS-115KV	115.00	0
CoastPlus	PORTLAND	BPA ST JOHNS	P11	ST JOHNS-KNOTT-115KV	115.00	0
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	#2	12.50	2,610
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	12.50	337
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	12.50	564
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	12.50	703
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	12.50	989
CoastPlus	PORTLAND	COLUMBIA (OR)	5P480	COLUMBIA #5	12.50	21
CoastPlus	PORTLAND	COLUMBIA (OR)	P23	COLUMBIA-KNOTT-57KV (OR)	57.00	0
CoastPlus	PORTLAND	COLUMBIA (OR)	P25	COLUMBIA-PARK ROSE-57KV	57.00	0

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	12.50	761
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	12.50	2,374
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	12.50	2,919
CoastPlus	PORTLAND	HARRISON	P18	HARRISON-LINCOLN-115KV	115.00	0
CoastPlus	PORTLAND	HOLLADAY (OR)	5P145	HOLLADAY #1-UG	11.70	9
CoastPlus	PORTLAND	HOLLADAY (OR)	5P146	HOLLADAY #2-UG	11.70	1
CoastPlus	PORTLAND	HOLLADAY (OR)	5P147	HOLLADAY #3-UG	11.70	27
CoastPlus	PORTLAND	HOLLADAY (OR)	5P156	HOLLADAY #4-UG	11.70	127
CoastPlus	PORTLAND	HOLLADAY (OR)	5P157	HOLLADAY #5-UG	11.70	318
CoastPlus	PORTLAND	HOLLADAY (OR)	5P158	HOLLADAY #6	11.70	835
CoastPlus	PORTLAND	HOLLADAY (OR)	P13	HOLLADAY-HARRISON-115KV	115.00	0
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	12.50	1,319
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	12.50	1,660
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	12.50	2,125
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	12.50	1,698
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	12.50	2,346
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	12.50	398
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	12.50	440
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	12.50	2,757
CoastPlus	PORTLAND	KILLINGSWORTH	5P88	KILLINGSWORTH #1-UG	12.50	16
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	12.50	2,204
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	12.50	2,476
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	12.50	1,153
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	12.50	2,251
CoastPlus	PORTLAND	KNOTT	5P366	11010	11.70	7
CoastPlus	PORTLAND	KNOTT	5P372	11046	11.70	422
CoastPlus	PORTLAND	KNOTT	5P374	11020	11.70	1,022
CoastPlus	PORTLAND	KNOTT	P26	KNOTT-PARKROSE-57KV	57.00	0
CoastPlus	PORTLAND	LINCOLN (OR)	5P418	11D17	11.70	55
CoastPlus	PORTLAND	LINCOLN (OR)	5P422	11D06-UG	11.70	552
CoastPlus	PORTLAND	LINCOLN (OR)	5P424	11D03-UG	11.70	1
CoastPlus	PORTLAND	LINCOLN (OR)	5P426	11D04-UG	11.70	14
CoastPlus	PORTLAND	LINCOLN (OR)	5P430	11D05-UG	11.70	366
CoastPlus	PORTLAND	LINCOLN (OR)	5P432	11D02-UG	11.70	12
CoastPlus	PORTLAND	LINCOLN (OR)	5P434	11D12-UG	11.70	17

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
CoastPlus	PORTLAND	LINCOLN (OR)	5P436	11G18-UG	11.70	105
CoastPlus	PORTLAND	LINCOLN (OR)	5P438	11D08-UG	11.70	163
CoastPlus	PORTLAND	LINCOLN (OR)	5P456	11D09-UG	11.70	809
CoastPlus	PORTLAND	LINCOLN (OR)	5P458	11D07-UG	11.70	216
CoastPlus	PORTLAND	LINCOLN (OR)	5P462	11G13-UG	11.70	33
CoastPlus	PORTLAND	LINCOLN (OR)	5P464	11G16-UG	11.60	58
CoastPlus	PORTLAND	LINCOLN (OR)	P16	LINCOLN-URBAN-115KV	115.00	0
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	12.80	1,908
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	12.80	3,140
CoastPlus	PORTLAND	MERWIN	P08	MERWIN-BPA CARDWELL-115KV	115.00	0
CoastPlus	PORTLAND	MERWIN	P09	MERWIN-YALE-115KV	115.00	0
CoastPlus	PORTLAND	MERWIN	P10-1	MERWIN-ST JOHNS-115KV	115.00	0
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	12.50	3,112
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	12.50	3,099
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	12.50	671
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	12.50	1,807
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	12.50	3,028
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	12.50	2,122
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	12.50	3,221
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	12.50	1,307
CoastPlus	PORTLAND	TROUTDALE	P14	TROUTDALE-KNOTT-115KV	115.00	0
CoastPlus	PORTLAND	TROUTDALE	P19	TROUTDALE-ALBINA-69KV	69.00	0
CoastPlus	PORTLAND	TROUTDALE	P22-1	TROUTDALE-LADY-SUB #8-69KV	69.00	0
CoastPlus	PORTLAND	TROUTDALE	P34	TROUTDALE-CPU RUNYAN-115KV	115.00	0
CoastPlus	PORTLAND	TROUTDALE TIE (B)	P03	BPA TROUTDALE-PGE GRESHAM-230KV	230.00	0
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	12.50	2,732
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	12.50	2,483
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	12.50	3,006
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	12.50	3,159
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	12.50	2,160
CoastPlus	PORTLAND	YALE	5P53	YALE VILLAGE	12.50	0
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	20.80	1,443
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	12.50	959
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	12.50	1,071
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	WW07	ENTERPRISE-ELGIN-69KV	69.00	0

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Northeast OR	ENTERPRISE	HURRICANE (OR)	WW08	HURRICANE-ENTERPRISE-69KV	69.00	0
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	12.50	866
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	12.50	13
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	19.90	178
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	19.90	54
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	12.50	871
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	12.50	548
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	12.50	25
Northeast OR	HERMISTON	COLD SPRINGS	WW16	COLD SPRINGS-HERMISTON-69KV	69.00	0
Northeast OR	HERMISTON	CREEK	4K30	WILLOW CREEK	34.50	0
Northeast OR	HERMISTON	CREEK	WW13	WILLOW CREEK-BPA DEMOSS-69KV	69.00	0
Northeast OR	HERMISTON	DALREED	4K40	SIM/TAG	34.50	94
Northeast OR	HERMISTON	DALREED	4K46	BOEING	34.50	178
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	12.50	1,381
Northeast OR	HERMISTON	HERMISTON	WW14	HERMISTON-PENDLETON-69KV	69.00	0
Northeast OR	HERMISTON	HINKLE	5W80	SIMPLOT	12.50	2
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	12.50	372
Northeast OR	HERMISTON	MCNARY (BPA)	WW15	BPA MCNARY-HERMISTON-69KV	69.00	0
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	12.50	1,181
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	12.50	915
Northeast OR	HERMISTON	UMATILLA	5W664	PORT FEEDER	12.50	48
Northeast OR	MILTON/FREEWATER	UMAPINE	5W105	UMAPINE FEEDER	12.50	994
Northeast OR	PENDLETON	ATHENA	5W703	CITY	12.50	869
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	12.50	437
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	12.50	412
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	12.50	1,529
Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	12.50	1,636
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	12.50	1,749
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	12.50	2,126
Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	12.50	1,073
Northeast OR	PENDLETON	PENDLETON	7W451	BUSINESS	4.10	260
Northeast OR	PENDLETON	PENDLETON	7W452	NORTHWEST	4.10	523
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDELTON)	4.10	338
Northeast OR	PENDLETON	PENDLETON	7W454	EAST END	4.10	283
Northeast OR	PENDLETON	PENDLETON	WW10	PENDLETON-BPA ROUNDUP-69KV	69.00	0

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Northeast OR	PENDLETON	PENDLETON	WW12	PENDLETON-BPA ROUNDUP-69KV	69.00	0
Northeast OR	PENDLETON	PILOT ROCK	5W404	MILL (PILOT ROCK)	12.50	3
Northeast OR	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	12.50	1,403
Northeast OR	PENDLETON	PILOT ROCK	5W417	USG - US Gypsum	12.50	1
Northeast OR	PENDLETON	ROUNDUP (BPA)	WW11	BPA ROUNDUP-PILOT ROCK-69KV	69.00	0
Northeast OR	PENDLETON	WESTON NEW (OR)	5W40	WESTON CANNERY	12.50	14
Northeast OR	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	12.50	466
Northeast OR	WALLA WALLA	UMAPINE	5W106	FERNDALE	12.50	1,416
South OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	12.50	889
South OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	12.50	865
South OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	12.50	907
South OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	12.50	1,017
South OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	12.50	1,619
South OR	GRANTS PASS	APPLEGATE	R23-A	APPLEGATE-PROVOLT-69KV	69.00	0
South OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	12.50	1,249
South OR	GRANTS PASS	BEACON	5R105	BEACON ST	12.50	828
South OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	12.50	2,430
South OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH &READY	12.50	1,576
South OR	GRANTS PASS	CAVE JUNCTION	R02-2	CAVE JCTN-DEL NORTE-115KV	115.00	0
South OR	GRANTS PASS	CAVE JUNCTION	R04	CAVE JCTN-DEL NORTE-115KV	115.00	0
South OR	GRANTS PASS	CAVE JUNCTION	S15	CAVE JCTN-HAPPY CAMP-69KV	69.00	0
South OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	12.50	1,141
South OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	12.50	1,204
South OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	12.50	592
South OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	12.50	1,176
South OR	GRANTS PASS	DOWELL	5R331	DUCK	12.50	1,486
South OR	GRANTS PASS	DOWELL	5R334	FEEDER #17 (SPARE)	12.50	2,359
South OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	12.50	1,993
South OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	12.50	1,694
South OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	12.50	1,306
South OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	20.80	1,620
South OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	20.80	875
South OR	GRANTS PASS	GLENDALE	5R133	GLENDALE	12.50	1,976
South OR	GRANTS PASS	GLENDALE	5R143	INDUSTRIAL	12.50	695
South OR	GRANTS PASS	GRANTS PASS	R01-B	GRANTS PASS-WHITE CITY-115KV	115.00	0

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South OR	GRANTS PASS	GRANTS PASS	R02-1	GRANTS PASS-APPLEGATE-115KV	115.00	0
South OR	GRANTS PASS	GRANTS PASS	R03	GRANTS PASS-CAVE JCTN-115KV	115.00	0
South OR	GRANTS PASS	GRANTS PASS	R05	GRANTS PASS-MERLIN-115KV	115.00	0
South OR	GRANTS PASS	GRANTS PASS	R07	GRANTS PASS-EASY VALLEY-115KV	115.00	0
South OR	GRANTS PASS	GRANTS PASS	R13-1	GRANTS PASS-ROGUE RIVER-69KV	69.00	0
South OR	GRANTS PASS	GRANTS PASS	R24	GRANTS PASS-BEACON-69KV	69.00	0
South OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	12.50	1,573
South OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	12.50	1,526
South OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	12.50	2,070
South OR	GRANTS PASS	MERLIN	5R234	PARADISE	12.50	1,176
South OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	12.50	1,833
South OR	GRANTS PASS	MERLIN	5R251	BADGER	12.50	915
South OR	GRANTS PASS	NEW O'BRIEN	5R106	O'BRIEN	12.50	460
South OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	12.50	2,194
South OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	12.50	913
South OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	12.50	1,859
South OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	12.50	314
South OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	12.50	1,449
South OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	12.50	1,393
South OR	GRANTS PASS	ROGUE RIVER	4R7	EVANS/VALLEY	20.80	235
South OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMER	12.50	1,798
South OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	12.50	1,061
South OR	GRANTS PASS	SCENIC	R13-2	SCENIC-GOLD HILL-69KV	69.00	0
South OR	GRANTS PASS	SELMA	5R65	DEER CREEK	12.50	1,230
South OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	12.50	427
South OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	12.50	458
South OR	KLAMATH FALLS	BOISE CASCADE	7L9	BOISE CASCAD	4.10	0
South OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	12.50	449
South OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	12.50	2,191
South OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	12.50	1,883
South OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	12.50	2,009
South OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	12.50	2,488
South OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	20.80	1,203
South OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	12.00	1,107
South OR	KLAMATH FALLS	CHILOQUIN	BB04-1	KLAMATH FALLS-CHILOQUIN-230KV	230.00	0

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South OR	KLAMATH FALLS	CHILOQUIN	BB04-2	CHILOQUIN-LA PINE-230KV	230.00	0
South OR	KLAMATH FALLS	CHILOQUIN	K02	CHILOQUIN-MILE HI-115KV	115.00	0
South OR	KLAMATH FALLS	CHILOQUIN	K11	CHILOQUIN-CHILOQUIN MARKET-69KV	69.00	0
South OR	KLAMATH FALLS	CHILOQUIN MARKE	5L37	WILLIAMSON	12.50	490
South OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	12.50	324
South OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	12.50	491
South OR	KLAMATH FALLS	DORRIS	K10	DORRIS-TUNNEL-69KV	69.00	0
South OR	KLAMATH FALLS	FISHHOLE	K05-2	FISHHOLE-SPRAGUE RIVER-69KV	69.00	0
South OR	KLAMATH FALLS	HAMAKER	5L55	KENO	12.50	1,763
South OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	12.50	165
South OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	12.50	241
South OR	KLAMATH FALLS	HENLEY	5L59	WEST	12.50	553
South OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	12.50	2,688
South OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	12.50	1,496
South OR	KLAMATH FALLS	JOHN C. BOYLE SUB	BB06-2	BOYLE-LONE PINE-230KV	230.00	0
South OR	KLAMATH FALLS	KLAMATH	BB06-1	BOYLE-KLAMATH FALLS-230KV	230.00	0
South OR	KLAMATH FALLS	KLAMATH	K05-1	KLAMATH FALLS-BONANZA-69KV	69.00	0
South OR	KLAMATH FALLS	KLAMATH	K07	KLAMATH FALLS-ROSS AVE-69KV	69.00	0
South OR	KLAMATH FALLS	KLAMATH	K08	KLAMATH FALLS-WEYERHAUSER-69KV	69.00	0
South OR	KLAMATH FALLS	KLAMATH	K12-1	KLAMATH FALLS-WEYERHAUSER-69KV	69.00	0
South OR	KLAMATH FALLS	KLAMATH	K13	KLAMATH FALLS-LAKEPORT-69KV	69.00	0
South OR	KLAMATH FALLS	KLAMATH COGEN 5	BB02-1	KLAMATH CO-GEN - CAPT JACK	500.00	0
South OR	KLAMATH FALLS	KLAMATH COGEN 5	BB02-2	KLAMATH COGEN-MERIDAN 500KV LINE	500.00	0
South OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	12.50	207
South OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	12.50	2,477
South OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	12.50	7
South OR	KLAMATH FALLS	MALIN	BB01	MALIN-ROUND MOUNTAIN #2-525KV	500.00	0
South OR	KLAMATH FALLS	MALIN	BB05	KLAMATH FALLS-MALIN-230KV	230.00	0
South OR	KLAMATH FALLS	MALIN	BB14	CAPTAIN JACK-MALIN-500KV	500.00	0
South OR	KLAMATH FALLS	MALIN	BB17	MALIN-BPA WARNER-230KV	230.00	0
South OR	KLAMATH FALLS	MALIN	K09	MALIN-NEWELL-69KV	69.00	0
South OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	12.50	1,037
South OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	12.50	561
South OR	KLAMATH FALLS	MILE-HI	K15	MILE HI-LAKEVIEW-69KV	69.00	0
South OR	KLAMATH FALLS	MODOC	5L36	MODOC	12.50	998

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	12.50	1,389
South OR	KLAMATH FALLS	ROSS AVENUE	5L47	FORT ROAD	12.50	0
South OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	12.50	1,246
South OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	20.80	1,523
South OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	4.10	441
South OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	12.50	522
South OR	KLAMATH FALLS	SUMMER LAKE (BPA)	CO01-2	MALIN-SUMMER LAKE-500KV	500.00	0
South OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	12.50	1,237
South OR	KLAMATH FALLS	TEXUM	5L113	TOWER	12.50	331
South OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	12.50	1,541
South OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	12.50	852
South OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	12.50	333
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L12	ORINDALE	12.50	821
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L15	CALIFORNIA	12.50	1,402
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L16	MAIN ST (WEST SIDE HE PLANT)	12.50	121
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L17	PINE ST (WEST SIDE HE PLANT)	12.50	526
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L18	RIVERSIDE (WEST SIDE HE PLANT)	12.50	608
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	5L19	LAKESHORE	12.50	317
South OR	KLAMATH FALLS	WEST SIDE HE PLANT	8L10	CITY WTR PMP	2.40	1
South OR	KLAMATH FALLS	WEYERHAEUSER	WT1	WEYERHAEUSER	69.00	1
South OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	12.50	764
South OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	12.50	1,765
South OR	LAKEVIEW	MILE-HI	K03	MILE HI-ALTURAS-115KV	115.00	0
South OR	MEDFORD	ASHLAND (MTN.AVE)	5R241	CITY	12.50	30
South OR	MEDFORD	ASHLAND (MTN.AVE)	5R245	VALLEY VIEW	12.50	988
South OR	MEDFORD	BEALL LANE	5R359	BEEHIVE	12.50	2
South OR	MEDFORD	BEALL LANE	5R361	BULLDOG	12.50	1,658
South OR	MEDFORD	BEALL LANE	5R364	BOBCAT	12.50	2,199
South OR	MEDFORD	BELKNAP	5R1	KOGAP	12.50	1,023
South OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	12.50	681
South OR	MEDFORD	BELKNAP	5R3	BARNETT	12.50	1,553
South OR	MEDFORD	BELKNAP	5R47	STEWART	12.50	2,115
South OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	12.50	1,679
South OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	12.50	1,486
South OR	MEDFORD	BROOKHURST	5R32	ROXY	12.50	1,632

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	12.50	1,630
South OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	12.50	1,184
South OR	MEDFORD	CAMPBELL	5R216	VOORHIES	12.50	540
South OR	MEDFORD	CAMPBELL	5R218	PHOENIX	12.50	1,512
South OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	12.50	1,319
South OR	MEDFORD	CAMPBELL	5R312	COBRA	12.50	1,529
South OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	20.80	1,655
South OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	20.80	1,369
South OR	MEDFORD	FOOTHILLS	5R252	HILLCREST ROAD	12.50	2
South OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	12.50	765
South OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	12.50	1,158
South OR	MEDFORD	FRALEY	5R87	TABLE ROCK	12.50	516
South OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	12.50	384
South OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	12.50	2,032
South OR	MEDFORD	GRIFFIN CREEK	5R200	ARNOLD LANE	12.50	0
South OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	12.50	2,557
South OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	12.50	1,694
South OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	12.50	679
South OR	MEDFORD	LONE PINE	R10	LONE PINE-SAGE ROAD-115KV	115.00	0
South OR	MEDFORD	LONE PINE	R11-1	LONE PINE-PROSPECT CENTRAL-115KV	115.00	0
South OR	MEDFORD	LONE PINE	R12	LONE PINE-PROSPECT CNTRL-69KV	69.00	0
South OR	MEDFORD	LONE PINE	R19	LONE PINE-TALENT-69KV	69.00	0
South OR	MEDFORD	LONE PINE	R25	LONE PINE-MEDFORD-69KV	69.00	0
South OR	MEDFORD	LONE PINE	R26	LONE PINE-SAGE ROAD-115KV	115.00	0
South OR	MEDFORD	MEDCO	5R280	BOISE CASCADE	12.50	1
South OR	MEDFORD	MEDFORD	5R21	MELROSE	12.50	1,623
South OR	MEDFORD	MEDFORD	5R23	SPRING ST.	12.50	1,615
South OR	MEDFORD	MEDFORD	5R250	BIG Y	12.50	1,873
South OR	MEDFORD	MEDFORD	5R253	APPLE	12.50	1,128
South OR	MEDFORD	MEDFORD	5R257	PEAR	12.50	601
South OR	MEDFORD	MEDFORD	5R659	MCLEAN	12.50	690
South OR	MEDFORD	MEDFORD	7R150	SE POWER	4.10	35
South OR	MEDFORD	MEDFORD	R23	MEDFORD-JACKSONVILLE-RUCH-PROV	69.00	0
South OR	MEDFORD	MERIDIAN	BB07	LONE PINE #1-MERIDIAN-230KV	230.00	0
South OR	MEDFORD	MERIDIAN	BB13	MERIDIAN-GRANTS PASS-230KV	230.00	0

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	MEDFORD	MERIDIAN	BB16	LONE PINE #2-MERIDIAN-230KV	230.00	0
South OR	MEDFORD	NEW JACKSONVILL	5R284	STAGE RD	12.50	2,089
South OR	MEDFORD	NEW JACKSONVILL	5R285	JACKSONVILLE HWY	12.50	2,091
South OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	12.50	1,604
South OR	MEDFORD	PROSPECT CENTRA	5R40	NEW CASCADE	12.50	344
South OR	MEDFORD	PROSPECT CENTRA	8R5	COTTAGES	2.40	5
South OR	MEDFORD	PROSPECT CENTRA	8R8	DAM & FOREBAY	2.40	2
South OR	MEDFORD	PROSPECT CENTRA	R14	PROSPECT CNTRL-PROSPECT #3-69KV	69.00	0
South OR	MEDFORD	PROSPECT CENTRA	R16	PROSPECT-PROSPECT CNTRL #2-69KV	69.00	0
South OR	MEDFORD	RED BLANKET	7R5	PROSPECT	4.10	399
South OR	MEDFORD	ROXY ANN	5R350	St. Bernard	12.50	1,030
South OR	MEDFORD	ROXY ANN	5R354	RACCOON	12.50	1,303
South OR	MEDFORD	RUCH	5R68	APPLEGATE	12.50	917
South OR	MEDFORD	RUCH	5R69	RUCH	12.50	554
South OR	MEDFORD	SAGE ROAD (OR)	5R209	TIMBER PROD	12.50	1
South OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	12.50	2,003
South OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	12.50	826
South OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	12.50	120
South OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	12.50	1,696
South OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	12.50	748
South OR	MEDFORD	SAGE ROAD (OR)	R01-C	SAGE ROAD-SCENIC-115KV	115.00	0
South OR	MEDFORD	SCENIC	5R174	UPTON	12.50	2,016
South OR	MEDFORD	SCENIC	5R180	HEAD RD	12.50	1,214
South OR	MEDFORD	SCENIC	5R182	TAYLOR RD	12.50	1,453
South OR	MEDFORD	SCENIC	5R184	CHENEY	12.50	1,445
South OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	20.80	1,364
South OR	MEDFORD	STEVENS ROAD	4R17	Stingray	20.80	2,471
South OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	20.80	1,897
South OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	20.80	2,645
South OR	MEDFORD	TALENT	5R237	TALENT	12.50	2,508
South OR	MEDFORD	TALENT	5R238	ANDERSON CRK	12.50	1,644
South OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	12.50	1,529
South OR	MEDFORD	TALENT	5R240	NORTH HWY	12.50	1,079
South OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	12.50	170
South OR	MEDFORD	TOLO	5R91	SAMS VALLEY	12.50	657

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	MEDFORD	TOLO	5R92	KIRTLAND RD	12.50	208
South OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	12.50	970
South OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	12.50	1,402
South OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	12.50	1,013
South OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	12.50	1,454
South OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	12.50	31
South OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	12.50	24
South OR	MEDFORD	WHITE CITY	5R14	AGATE	12.50	107
South OR	MEDFORD	WHITE CITY	5R19	3M	12.50	95
South OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	12.50	1,619
South OR	MEDFORD	WHITE CITY	5R76	AVE C	12.50	92
South OR	ROSEBURG/MYRTLECREEK	ALVEY (BPA)	BB03	ALVEY-DIXONVILLE-500KV	500.00	0
South OR	ROSEBURG/MYRTLECREEK	ALVEY (BPA)	WI03	ALVEY-DIXONVILLE-230KV	230.00	0
South OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	12.50	417
South OR	ROSEBURG/MYRTLECREEK	CARNES	5U45	GREEN	12.50	0
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER	U07	CLEARWATER-LEMOLO #1-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER	U08	CLEARWATER-LEMOLO #2-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER	U09	CLEARWATER-CLEARWATER #1-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #1 SW	6U17	BRIGGS	7.20	3
South OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SW	6U33	CLEARWATER	7.20	103
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U37	RUSA	20.80	1
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	20.80	3,437
South OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	20.80	1,076
South OR	ROSEBURG/MYRTLECREEK	DAYS CREEK	U01	DAYS CREEK-PROSPECT CNTRL-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	DAYS CREEK	U14	DAYS CREEK-MYRTLE CREEK-69KV	69.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	BB08	DIXONVILLE-GRANTS PASS-230KV	230.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	BB09	DIXONVILLE-RESTON-230KV	230.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	BB10	DIXONVILLE-MERIDIAN-500KV	500.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	BB12	DIXONVILLE 500KV-DIXONVILLE-230KV	230.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U02	DIXONVILLE-DAYS CREEK-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U03	DIXONVILLE-TOKETEE SW STA-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U05	DIXONVILLE-SODA SPRINGS-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U10-1	DIXONVILLE-LOOKING GLASS-69KV	69.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U11	DIXONVILLE-ROBERTS CREEK-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U12-1	DIXONVILLE-WINCHESTER-115KV	115.00	0

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U12-2	DIXONVILLE-OAKLAND-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	DIXONVILLE	U15	DIXONVILLE-DOUGLAS VENEER-69KV	69.00	0
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	20.80	653
South OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	20.80	1,312
South OR	ROSEBURG/MYRTLECREEK	GAZLEY	5U46	CANYONVILLE	12.50	427
South OR	ROSEBURG/MYRTLECREEK	GAZLEY	5U52	BEALS CREEK FEEDER	12.50	912
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	12.50	1,004
South OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	12.50	1,350
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATIO	5U32	SAFARI	12.50	2,283
South OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATIO	5U33	SUNNYSLOPE	12.50	1,440
South OR	ROSEBURG/MYRTLECREEK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOS	7.20	0
South OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	12.50	179
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	12.50	1,563
South OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	12.50	2,332
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	12.50	1,352
South OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	12.50	549
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	12.50	1,021
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	12.50	1,611
South OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	12.50	269
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U23	FORD MILL	12.50	1
South OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	12.00	50
South OR	ROSEBURG/MYRTLECREEK	ROBERTS CREEK	U10-3	ROBERTS CREEK-GREEN-69KV	69.00	0
South OR	ROSEBURG/MYRTLECREEK	ROBERTS CREEK	U13	ROBERTS CREEK-MYRTLE CREEK-69KV	69.00	0
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	20.80	2,663
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	20.80	1,099
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	20.80	1,945
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG	5U10	DIXON	12.50	0
South OR	ROSEBURG/MYRTLECREEK	ROSEBURG LUMBE	5U95	ROSEBURG LBR	12.50	1
South OR	ROSEBURG/MYRTLECREEK	SODA SPRINGS HE	U04	SODA SPRINGS-TOKETEE-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	20.80	1,596
South OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	20.80	1,371
South OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	7.20	21
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	12.50	1,328
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	12.50	1,315
South OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	12.50	487

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South OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	12.50	323
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	6U21	BACK UP FOR CLEARWATER 6U33	6.90	0
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	2.40	19
South OR	ROSEBURG/MYRTLECREEK	TOKETEE	U06	TOKETEE-CLEARWATER-115KV	115.00	0
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	20.80	1,665
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	12.50	1,749
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	12.50	746
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	12.50	746
South OR	ROSEBURG/MYRTLECREEK	WINCHESTER	U10-2	WINCHESTER-GARDEN VALLEY-69KV	69.00	0
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	12.50	878
South OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	12.50	1,478
Willamette Valley	ALBANY	BPA ALBANY	WI09	BPA ALBANY-HAZELWOOD-115KV	115.00	0
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	20.80	1,484
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	20.80	1,224
Willamette Valley	ALBANY	HAZELWOOD	WI07	HAZELWOOD-FRY-115KV	115.00	0
Willamette Valley	ALBANY	HAZELWOOD	WI10	HAZELWOOD-MARYS RIVER-115KV	115.00	0
Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	20.80	733
Willamette Valley	ALBANY	JEFFERSON (OR)	4M125	MINT	20.80	2,558
Willamette Valley	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	20.80	3,765
Willamette Valley	ALBANY	MURDER CREEK	4M245	RURAL NW	20.80	1,825
Willamette Valley	ALBANY	MURDER CREEK	4M249	DURA-PACIFIC	20.80	4
Willamette Valley	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	20.80	1,241
Willamette Valley	ALBANY	MURDER CREEK	5M131	WAH CHANG SOUTH	12.50	1
Willamette Valley	ALBANY	MURDER CREEK	5M132	WAH CHANG WEST	12.50	0
Willamette Valley	ALBANY	OREMET	4M295	OAK CREEK	20.80	109
Willamette Valley	ALBANY	OREMET	4M296	ROGERSDALE	20.80	3,125
Willamette Valley	ALBANY	OREMET	5M19	OREMET	12.50	3
Willamette Valley	ALBANY	OREMET	5M20	OREMET-BPA	12.50	0
Willamette Valley	ALBANY	QUEEN AVE	4M217	SANTIAM	20.80	2,015
Willamette Valley	ALBANY	QUEEN AVE	4M258	HILL STREET	20.80	2,127
Willamette Valley	ALBANY	QUEEN AVE	4M261	WAVERLY	20.80	3,348
Willamette Valley	ALBANY	QUEEN AVE	4M262	GEARY STREET	20.80	2,608
Willamette Valley	ALBANY	VINE STREET	4M15	FERRY	20.80	2,219
Willamette Valley	ALBANY	VINE STREET	4M16	WATER STREET	20.80	3,728
Willamette Valley	ALBANY	WESTERN KRAFT	5M24	WEST MAIN	12.50	1

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
Willamette Valley	ALBANY	WESTERN KRAFT	5M25	EAST MAIN	12.50	1
Willamette Valley	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	20.80	2,469
Willamette Valley	CORVALLIS	BUCHANAN	4M133	PEORIA	20.80	2,486
Willamette Valley	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	20.80	2,606
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M394	H. P. #1	20.80	0
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M396	H. P. #2	20.80	0
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M427	H. P. #3	20.80	0
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M428	H. P. #4	20.80	0
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M429	H. P. #5	20.80	0
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M430	H. P. #6	20.80	0
Willamette Valley	CORVALLIS	DIXON	7M26	FOURTH ST.	4.10	200
Willamette Valley	CORVALLIS	DIXON	7M29	SECOND ST.	4.10	303
Willamette Valley	CORVALLIS	GRANT	4M265	HIGH SCHOOL	20.80	2,512
Willamette Valley	CORVALLIS	GRANT	4M266	CHINTIMINI	20.80	2,522
Willamette Valley	CORVALLIS	GRANT	4M268	KINGS ROAD	20.80	2,566
Willamette Valley	CORVALLIS	GRANT	4M269	29TH STREET	20.80	3,269
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	20.80	1,698
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	20.80	648
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	20.80	2,236
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	20.80	3,582
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	20.80	192
Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	20.80	161
Willamette Valley	COTTAGE GROVE/J.CITY	ALVEY (BPA)	WI12	BPA ALVEY-VILLAGE GREEN-115KV	115.00	0
Willamette Valley	COTTAGE GROVE/J.CITY	CALAPOOYA	WI23	CALAPOOYA-HALSEY-69KV	69.00	0
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	20.80	524
Willamette Valley	COTTAGE GROVE/J.CITY	DIAMOND HILL	WI02-2	DIAMOND HILL-BPA ALVEY-230KV	230.00	0
Willamette Valley	COTTAGE GROVE/J.CITY	DIAMOND HILL	WI19	DIAMOND HILL-BROWNSVILLE-69KV	69.00	0
Willamette Valley	COTTAGE GROVE/J.CITY	DIAMOND HILL	WI20	DIAMOND HILL-EWEB MCKENZIE-69KV	69.00	0
Willamette Valley	COTTAGE GROVE/J.CITY	DIAMOND HILL	WI21	DIAMOND HILL-JUNCTION CITY-69KV	69.00	0
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	20.80	1,661
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	20.80	1,893
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	20.80	1,171
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	20.80	933
Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	20.80	1,123
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	20.80	2,386

Reliability Reporting Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	Kv	Customer Count
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	20.80	1,598
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	20.80	4,373
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	20.80	36
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLEDALE	20.80	2,898
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	20.80	2,304
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	20.80	1,968
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	20.80	3,095
Willamette Valley	DALLAS/INDEPENDENCE	MONPAC	WI05	MONPAC-BPA SALEM-115KV	115.00	0
Willamette Valley	DALLAS/INDEPENDENCE	MONPAC	WI13-2	MONPAC-VINE STREET-69KV	69.00	0
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	12.50	1,909
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	20.80	1,528
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	20.80	1,757
Willamette Valley	LEBANON	FRY	WI02-1	FRY-DIAMOND HILL	230.00	0
Willamette Valley	LEBANON	FRY	WI06	FRY-MARYS RIVER-115KV	115.00	0
Willamette Valley	LEBANON	FRY	WI08	FRY-WESTERN KRAFT-115KV	115.00	0
Willamette Valley	LEBANON	FRY	WI11	FRY-FOSTER-115KV	115.00	0
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	20.80	2,470
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	20.80	2,027
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	20.80	1,847
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	20.80	935
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	20.80	2,050
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	20.80	993
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	20.80	1,708
Willamette Valley	LEBANON	SWEET HOME	4M94	FOSTER	20.80	2,302
Willamette Valley	STAYTON	NEW LYONS	4M120	MILL CITY	20.80	1,962
Willamette Valley	STAYTON	NEW LYONS	4M70	MEHAMA	20.80	995
Willamette Valley	STAYTON	NEW STAYTON	4M19	AUMSVILLE	20.80	3,127
Willamette Valley	STAYTON	NEW STAYTON	4M353	WEST STAYTON	20.80	3,440
Willamette Valley	STAYTON	NEW STAYTON	4M370	CASCADE	20.80	1,632
Willamette Valley	STAYTON	NEW STAYTON	4M50	3RD STREET	20.80	930
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	12.50	1,589

X1 – VEGETATION MANAGEMENT

Program Overview

The Company *Specification Manual* includes program descriptions, specifications and protocols for all vegetation management work, including customer relations. The manual's objective is to provide direction for all vegetation management staff, from foresters, contract general foremen and supervisors, forest techs and utility tree workers on PacifiCorp's system. Furthermore, it provides important program information to all PacifiCorp employees about key facets of the Company's vegetation management practices.

Qualifications

PacifiCorp employs a staff of professional foresters to manage its vegetation program and communicate effectively the community service it provides. Moreover, contractor front line managers, supervisors, forest techs, are required to be International Society of Arboriculture (ISA) Certified Arborists and ISA Certified Utility Specialists.

In addition, the program is founded on best practices from the ISA. These practices include systematic maintenance, scientifically-based pruning, tree removal, tree replacement, herbicide and tree growth regulator applications, as well as specialized tools and equipment. PacifiCorp takes a progressive approach in vegetation management by trying innovative methods, products and equipment in order to improve safety and productivity.

Tree Line USA

PacifiCorp has been a Tree Line USA recipient since 2001. Tree Line USA is an award from the National Arbor Day Foundation, which recognizes utilities for utilizing practices that protect America's urban forests. To qualify, utilities must apply scientifically-based tree care, conduct annual worker training, plant trees, and conduct public education, including participating in Arbor Day celebrations. Contract employees should participate in annual worker training to cooperate with and help PacifiCorp continue to merit this outstanding award.

Importance of Effective Vegetation Management

Trees growing into or near power lines can create safety and service reliability risks, so they are a constant concern for utilities such as PacifiCorp. Close growing branches can provide access for the public to contact high-voltage lines, with potential for serious injury or death. Branches touching power lines can spark and start fires and cause interruptions in electric supply. Furthermore, trees whipped by winds or weighed down by rain or snow often interrupt power, disrupting business and home life, as well as compromising important community infrastructure, such as hospitals and emergency services. Three recent major electric grid failures, including the catastrophic blackout on August 14, 2003, were initiated by tree-caused outages on transmission lines (U.S.-Canada Power System Outage Task Force 2003).

For these reasons and others, the National Electric Safety Code ANSI 1997) Section 218-A-1, states:

"Trees which may damage ungrounded supply conductors should be pruned or removed. Note: Normal tree growth, the combined movement of trees and conductors under adverse weather conditions, voltage and sagging of conductors at elevated temperatures are among the factors to be considered in determining the extent of trimming required."

Accordingly, electric utilities, such as PacifiCorp, manage their systems to reduce electric supply and service reliability risks by clearing trees from power lines. Often, particularly in the case of transmission lines, the best solution is to remove tall-growing trees and replace them with low-growing species that will never interfere with the high-voltage lines. However, it is not always possible to remove conflicting trees. Trees that may not be removed are pruned to clear the utility space using the modern arboriculturally-sound pruning practices.

X-1 Reports Provided

These reports are included in the following order:

- *Section A Operating Area/Circuit or Grid Distribution Detail Status Report*
Section A reports all circuits & grids by Operating Area. All Operating Areas except Portland manage their vegetation management programs by circuits. Within Portland, such an approach is not viable; therefore a grid-approach has been adopted for management of cycles and interim work.
- *Section B Operating Area Summary Distribution & Transmission Status Report*
Section B reports all work completed, both cycle and interim for all Operating Areas within Oregon. It summarizes distribution and transmission schedule adherence, and progress against cycle goals. It also provides the percent completion of distribution progress to date (for the reporting year) within that Operating Area.
- *Section C 10-Year Vegetation Management Plan*
Section C displays historical performance and future plans for vegetation management in Oregon.
- *Section D Tree-Related Safety Issues*
Section D provides information on four categories of tree-safety issues, including electrical contacts, powerline-cause fires, and climbable trees reported and corrected.
- *Section E Service Reliability Metrics: Outages*
Section E identifies outages reported as non-preventable and preventable tree causes during the year.
- *Section F Tree Crew Productivity Measures & Benchmarks*

Section F summarizes productivity benchmarks for the year, including costs for trees worked and trees removed, and percent of trees pruned versus trees removed.

- *Section G Scheduled versus Non-Scheduled Work Measures*

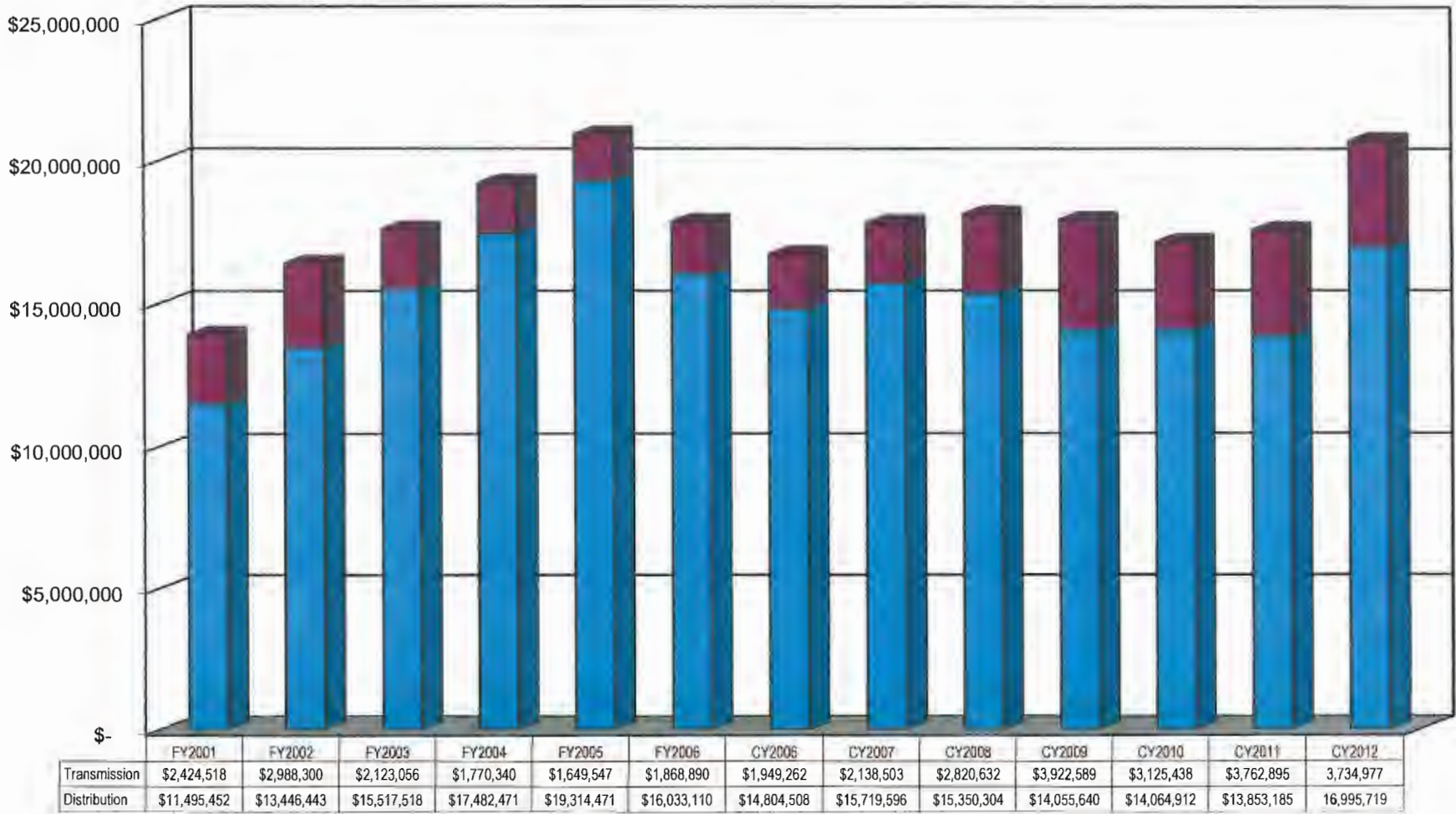
Section G provides an overview of the amount of programmed cycle and interim work that was performed during the year.

In addition to the annual reports above, this year’s Vegetation Management filing includes a special “one-time” data request for 5-year averages of crew counts, as provided in the table below.

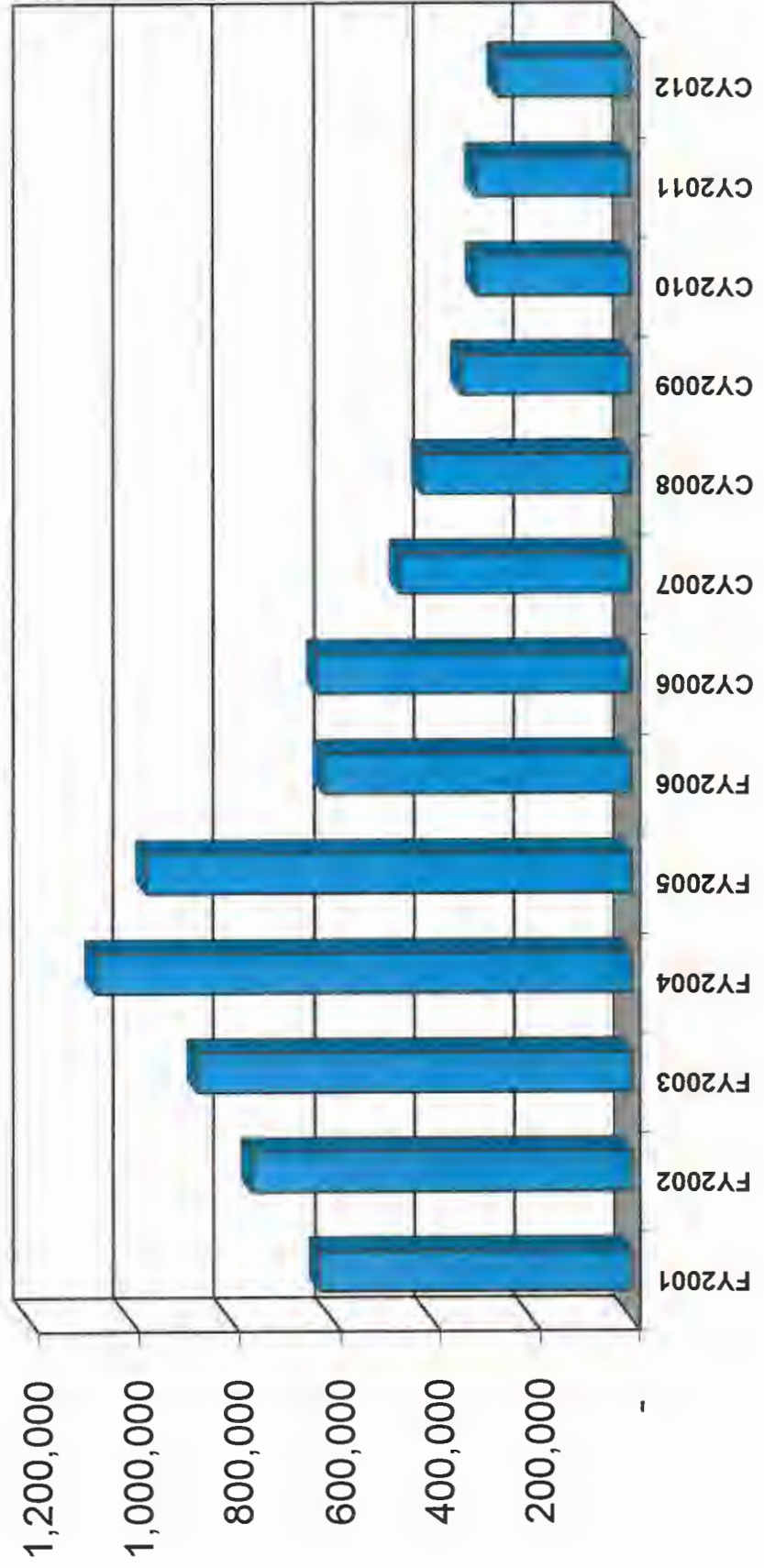
Oregon Vegetation Management - 5-Year Tree Crew Counts													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
2012	73	75	79	79	76	75	71	72	80	78	83	78	76
2011	60	57	57	63	64	65	72	64	70	60	57	61	63
2010	59	60	60	58	59	57	56	60	65	66	63	59	60
2009	63	63	64	59	58	57	52	55	55	62	63	63	60
2008	61	61	62	62	63	62	63	64	67	66	68	62	63

Vegetation Expenditure History

■ Distribution ■ Transmission



Distribution Trees Worked



OREGON

Tree Program Reporting (B)
Report as of December 31, 2012

Distribution Four Year Cycle 1/1/2012-12/31/2015

	Total		Current Year Reporting			Total Cycle Reporting			
	Total Line Miles	1/1/2012-12/31/2012 Miles Planned	1/1/2012-12/31/2012 Actual Miles	1/1/2012-12/31/2012 Ahead/Behind	1/1/2012-12/31/2012 % Ahead/Behind	1/1/2012 through end of cycle Miles Planned	1/1/2012 through end of cycle Actual Miles	1/1/2012 through end of cycle Ahead/Behind	1/1/2012 through end of cycle % Ahead/Behind
	column a	column b	column c	column d	column e	column f	column g	column h	column i
Oregon	14,373	3,730	1,653	-2,077	44.3%	3,730	1,653	-2,077	44.3%
ALBANY	708	177	14	-163	7.9%	177	14	-163	7.9%
CORVALLIS	295	74	117	43	158.6%	74	117	43	158.6%
COTTAGE GROVE	61	15	0	-15	0.0%	15	0	-15	0.0%
DALLAS	401	100	0	-100	0.0%	100	0	-100	0.0%
JUNCTION CITY	156	39	68	29	174.4%	39	68	29	174.4%
LEBANON	615	154	0	-154	0.0%	154	0	-154	0.0%
LINCOLN CITY	181	45	23	-22	50.8%	45	23	-22	50.8%
STAYTON	454	114	0	-114	0.0%	114	0	-114	0.0%
COOS BAY	727	182	10	-172	5.5%	182	10	-172	5.5%
GRANTS PASS	1,711	428	80	-348	18.7%	428	80	-348	18.7%
ROSEBURG	1,251	313	108	-205	34.5%	313	108	-205	34.5%
KLAMATH FALLS	1,840	460	330	-130	71.7%	460	330	-130	71.7%
LAKEVIEW	69	17	0	-17	0.0%	17	0	-17	0.0%
MEDFORD	1,911	478	92	-386	19.3%	478	92	-386	19.3%
CENTRAL OREGON	1,367	342	260	-82	76.1%	342	260	-82	76.1%
CLATSOP	415	104	40	-64	38.6%	104	40	-64	38.6%
ENTERPRISE	437	109	77	-32	70.5%	109	77	-32	70.5%
HERMISTON	247	62	66	4	106.9%	62	66	4	106.9%
HOOD RIVER	326	82	49	-33	60.1%	82	49	-33	60.1%
PENDLETON	509	127	108	-19	84.9%	127	108	-19	84.9%
PORTLAND	547	274	135	-139	49.4%	274	135	-139	49.4%
WALLA WALLA	145	36	76	40	209.7%	36	76	40	209.7%

Distribution cycle \$/tree: \$51.36
 Distribution cycle \$/mile: \$3,316
 Distribution cycle removal %: 51.33%

Transmission					
Total Line Miles	Line Miles Scheduled	Line Miles Worked	Miles Ahead(behind) Schedule	Miles on Schedule	% of miles on/behind Schedule
2,966	353	454	101	3,067	103%

Transmission \$/mile: \$8,501

Notes:

- Column a: Total overhead pole miles by district
- Column b: Total overhead pole miles planned for the period January 1, 2012 through December 31, 2012
- Column c: Actual overhead pole miles worked during the period January 1 2012 through December 31, 2012
- Column d: Miles ahead or behind for the period January 1, 2012 through December 31, 2012 (column c-column b)
- Column e: Percent of actual compared to planned for the period January 1, 2012 through December 31, 2012 ((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)

	2013 est. ^{1,2}	2014 est. ^{1,2}	2015 est. ^{1,2}	2016 est. ^{1,2}	2016 est. ^{1,2}	2017 est. ^{1,2}
Distribution Tree Budget	19,666,136	19,666,136	19,666,136	16,666,136	16,666,136	16,666,136
Transmission Tree Budget	3,033,067	3,033,067	3,033,067	3,033,067	3,033,067	3,033,067
Total Tree Budget	\$ 22,699,203	\$ 22,699,203	\$ 22,699,203	\$ 19,699,203	\$ 19,699,203	\$ 19,699,203

	CY2007	CY2008	CY2009	CY2010	2011	2012
Distribution Tree Actuals	\$ 15,719,793	\$ 15,350,304	13,846,144	14,064,912	13,853,185	16,995,719
Transmission Tree Actuals	\$ 2,138,502	\$ 2,820,632	3,033,066	3,125,438	3,762,895	3,734,977
Total Tree Actuals	\$ 17,858,295	\$ 18,170,935	\$ 16,879,210	\$ 17,190,350	\$ 17,616,080	\$ 20,730,696

	Distribution			Transmission		
	Actuals	Budget	Variance	Actuals	Budget	Variance
Calendar year 2012						
Jan	\$ 1,150,502	1,388,845	\$ (238,343)	\$ 229,113	\$ 195,881	\$ 33,232
Feb	\$ 1,348,365	1,322,709	\$ 25,656	\$ 257,043	\$ 209,183	\$ 47,860
Mar	\$ 1,435,255	1,454,980	\$ (19,725)	\$ 362,145	\$ 244,793	\$ 117,352
Apr	\$ 1,540,206	1,388,845	\$ 151,361	\$ 302,925	\$ 275,314	\$ 27,611
May	\$ 1,770,080	1,454,980	\$ 315,100	\$ 357,789	\$ 290,897	\$ 66,892
Jun	\$ 1,260,929	1,388,845	\$ (127,916)	\$ 422,405	\$ 235,968	\$ 186,437
Jul	\$ 1,396,851	1,388,845	\$ 8,006	\$ 301,104	\$ 333,639	\$ (32,535)
Aug	\$ 1,396,707	1,521,116	\$ (124,409)	\$ 396,894	\$ 308,888	\$ 88,006
Sep	\$ 852,464	1,256,573	\$ (404,109)	\$ 325,820	\$ 284,883	\$ 40,937
Oct	\$ 1,817,365	1,521,116	\$ 296,249	\$ 470,631	\$ 273,152	\$ 197,479
Nov	\$ 1,458,779	1,256,574	\$ 202,205	\$ 192,538	\$ 196,006	\$ (3,468)
Dec	\$ 1,568,216	\$ 1,322,709	\$ 245,507	\$ 116,570	\$ 184,463	\$ (67,893)
Total	\$ 16,995,719	\$ 16,666,136	\$ 329,582	\$ 3,734,977	\$ 3,033,067	\$ 701,910

Average # Tree Crews on Property (YTD) 76

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.

OREGON
Tree Program Reporting (D, E, F, G)

D. Tree Related Safety Issues

# Public electrical contacts involving trees	0
# Powerline caused fires	1
# Readily climbable trees reported	1
# Readily climbable trees corrected	1

E. Service Reliability

# Non-preventable tree related outages	3,300
# Preventable tree related outages	21
# Total tree related outages	3,321

F. Tree Crew Productivity and Benchmarking

Distribution cycle \$/tree:	51.36
Distribution cycle \$/mile:	3315.87
Distribution cycle removal %	51.3%

G. Scheduled Work vs. Non-scheduled work

Distribution non-scheduled work compared to total annual costs:	4% non-scheduled	96% scheduled
Transmission non-scheduled work compared to total annual costs:	5% non-scheduled	95% scheduled

INCIDENT REPORT
TREE-RELATED FIRE

1 Incident Date: 7/11/2012

Date Reported: 7/11/2012

Location: 4957 West Evans Creek Rd,

Address:

City: Rogue River

Description of incident: An oak tree about 16 feet outside of the right of way had a limb break off and hit the power line.
A fire was started in the light forest duff and burned an area the equivalent of 1/100th of an acre.
Three fir trees were hit by the oak limb that broke out and were also removed by tree crews as they were compromised by the impact.

2 Incident Date:

Date Reported:

Location:

Address:

City:

Description of incident:

3 Incident Date:

Date Reported:

X2 & X3 – INSPECTION AND MAINTENANCE PROGRAMS

Inspection and Repairs

In Calendar Year 2012 (January 01 through December 31, 2012), among distribution and transmission facilities (both overhead and underground), 1,600 ‘A’ Priority conditions were recorded and 1,600 were corrected.

For ‘B’ priority conditions, 23,223 were identified and 16,392 (70.6%) were corrected in CY2012.

For ‘C’ priority conditions, 10,013 were identified and 6,822 (68.1%) were corrected in CY2012.

Some condition types have been removed from the condition counts report for CY2012:

Vegetation Management:

Vegetation Management issues regarding tree trimming and tree climbing that do not pose an imminent threat are not logged into PacifiCorp’s main reporting system if found during normal line inspections. These issues are routinely and consistently resolved through the internal cyclical vegetation maintenance program managed by PacifiCorp’s Vegetation Management Department. Consequently, these conditions have been removed from the condition counts reported above for CY2012. The total vegetation conditions excluded are as follows:

TREECLMB

Identified: 1

Corrected: 1

TREETRIM

Identified: 153

Corrected: 129

Customer Issues:

All conditions for which a customer correction is required are excluded from the condition counts reported in CY2012. The total numbers of customer conditions excluded from the condition counts reported above are as follows:

OWNERPRB

Identified: 0

Corrected/Changed to CUSTRESP: 6

LOWWHEAD

Identified: 5,384

Corrected: 253

CUSTRESP

Identified: 1,088

Corrected: 411

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 CY2012, 44,745 Distribution poles, 3,595 Local Transmission poles and 12,144 Main Grid Transmission poles were Detail inspected. Detail inspections were performed on 13.1% of the total 460,144 overhead facilities. Additionally 752 Distribution poles were given a second Detail inspection in CY2012 due to failure of the internal audit process of the initial inspection results or as a follow up aerial inspection of woodpecker damage.
- 41,865 Distribution poles, 2,797 Local Transmission poles and 549 Main Grid Transmission poles were Tested and Treated. Test and Treatment was performed on 9.8% of the total 460,144 overhead facilities.
- PacifiCorp replaced or reinforced 996 poles that were rejected through the inspection program. The CY2012 rejection rate was 2.24% for Distribution, 3.43% for Local Transmission and 11.11% for Main Grid Transmission. The overall reject rate for CY2012 was 2.42%.

A. Visual Inspections

The drive-by visual inspection of the Distribution and Transmission system is on a 2-year cycle. In CY2012, 200,530 Distribution poles, 17,869 Local Transmission poles and 24,678 Main Grid poles were inspected for a total of 243,077 poles which equates to 52.8% of the total overhead facilities. Random samples by operations managers were completed 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 CY2012, 11,013 facilities were inspected; 9.5% of 116,327 underground facilities.

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 281 substation and communication facilities in Oregon. PacifiCorp met 100% of the Security inspection requirement in CY2012.

C. Marina Inspection Program

The inspection of marinas is annual. In CY2012, 100% of marinas were inspected.

D. Major Equipment Maintenance

1. 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.

2. Substation Equipment

Substation 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 100% of the Oregon Quarterly Inspection requirement in CY2012.

Annual Operational Tests

Operation of circuit breakers is performed on an annual basis.

Reference PacifiCorp Maintenance Policy 034 - Substation Inspection Policy and form 3274F-Substation Inspection and PacifiCorp Maintenance Policy 001-Maintenance Intervals for Apparatus, Relay, and Communications Equipment.

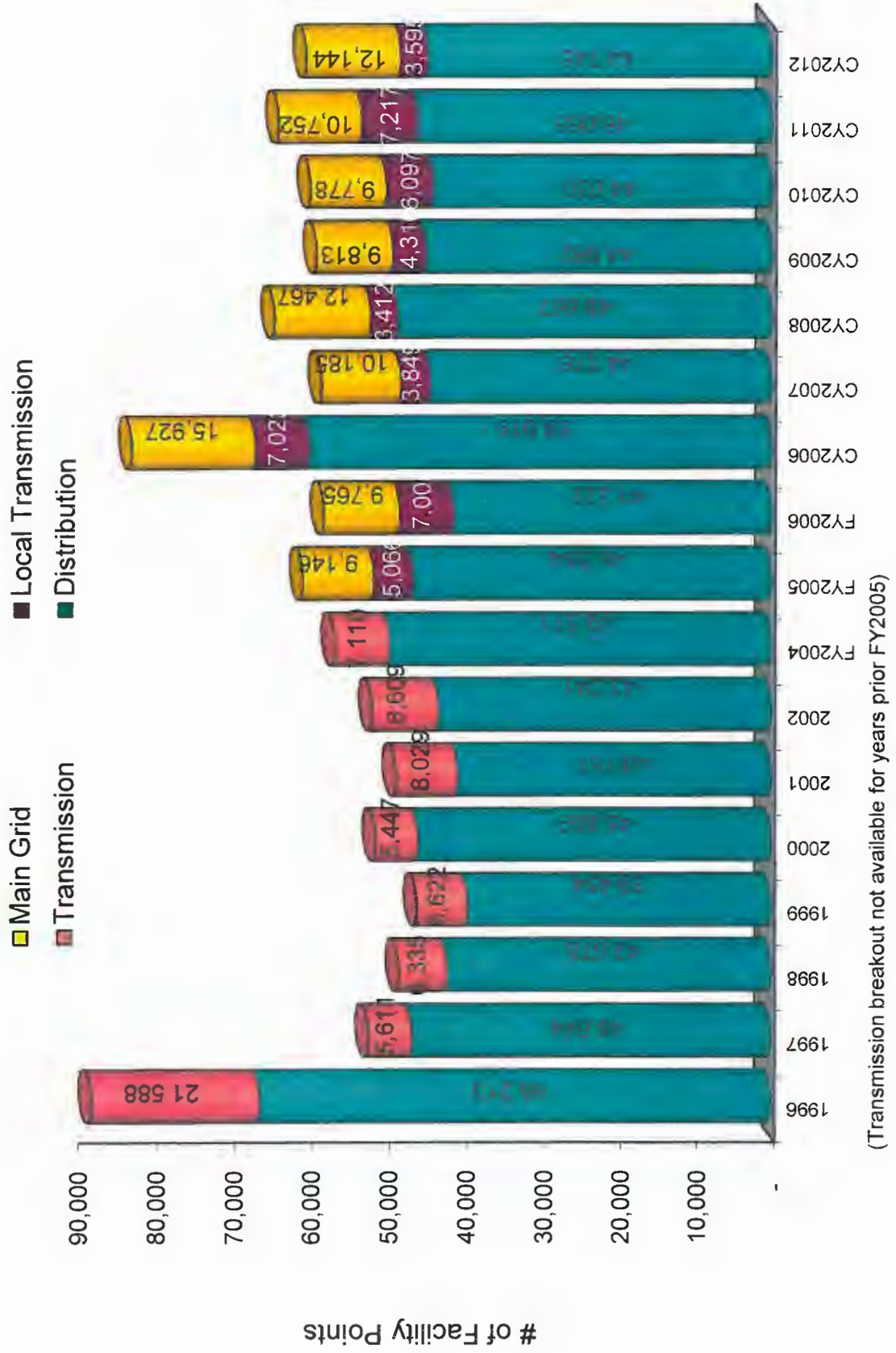
In CY2012, PacifiCorp performed 98% of the Annual Operational test requirements.

Infrared Inspection

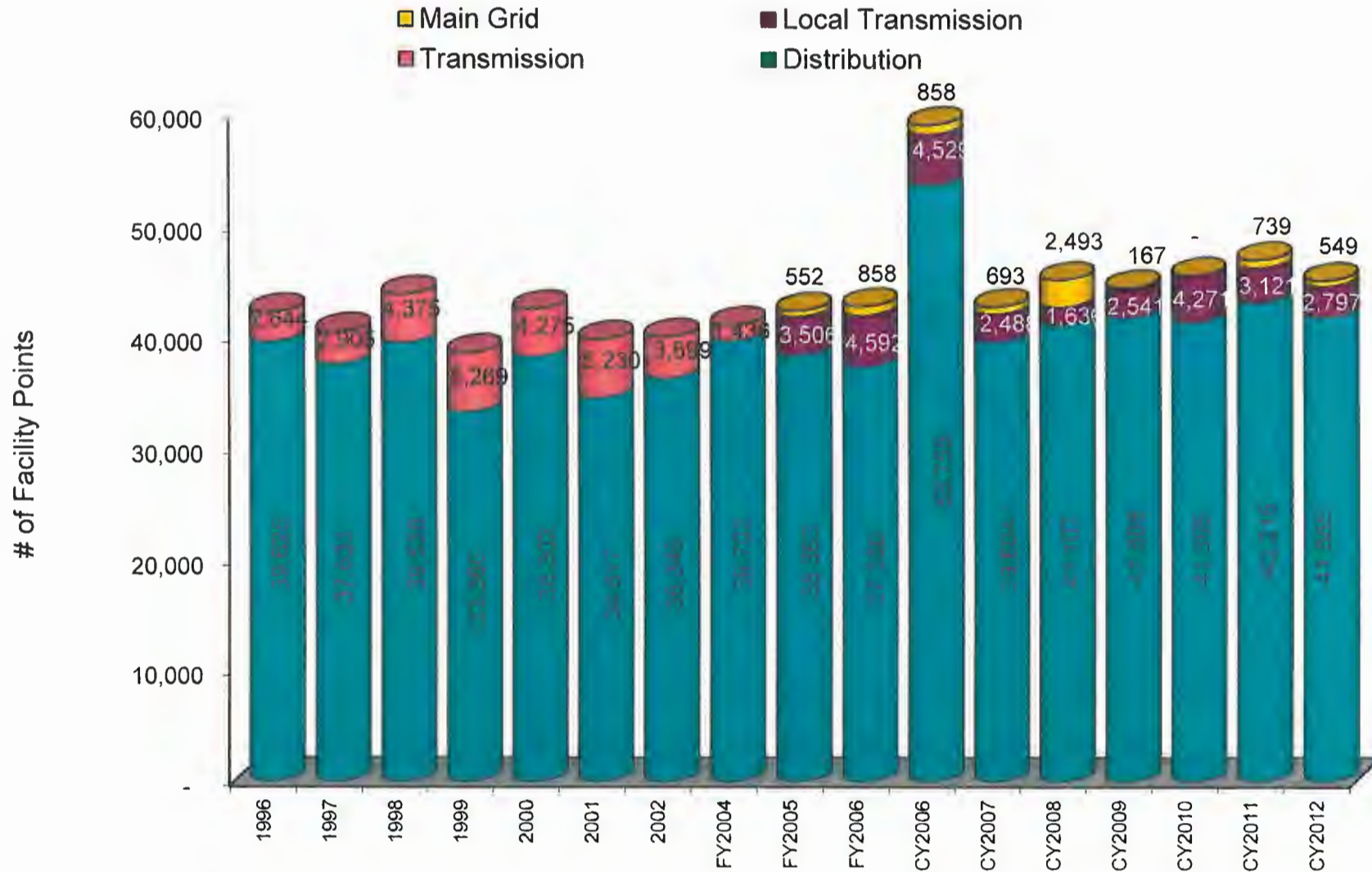
Substation equipment, including disconnect switches and connectors are inspected and infrared scanned for proper operation. Transmission (main grid transmission and local transmission) substations are infrared inspected annually, and distribution facilities are on a 2-year cycle.

PacifiCorp performed 100% of the infrared inspections on the transmission substations and 100% of the planned inspections on distribution facilities.

CY2012 Overhead Detail Inspection History

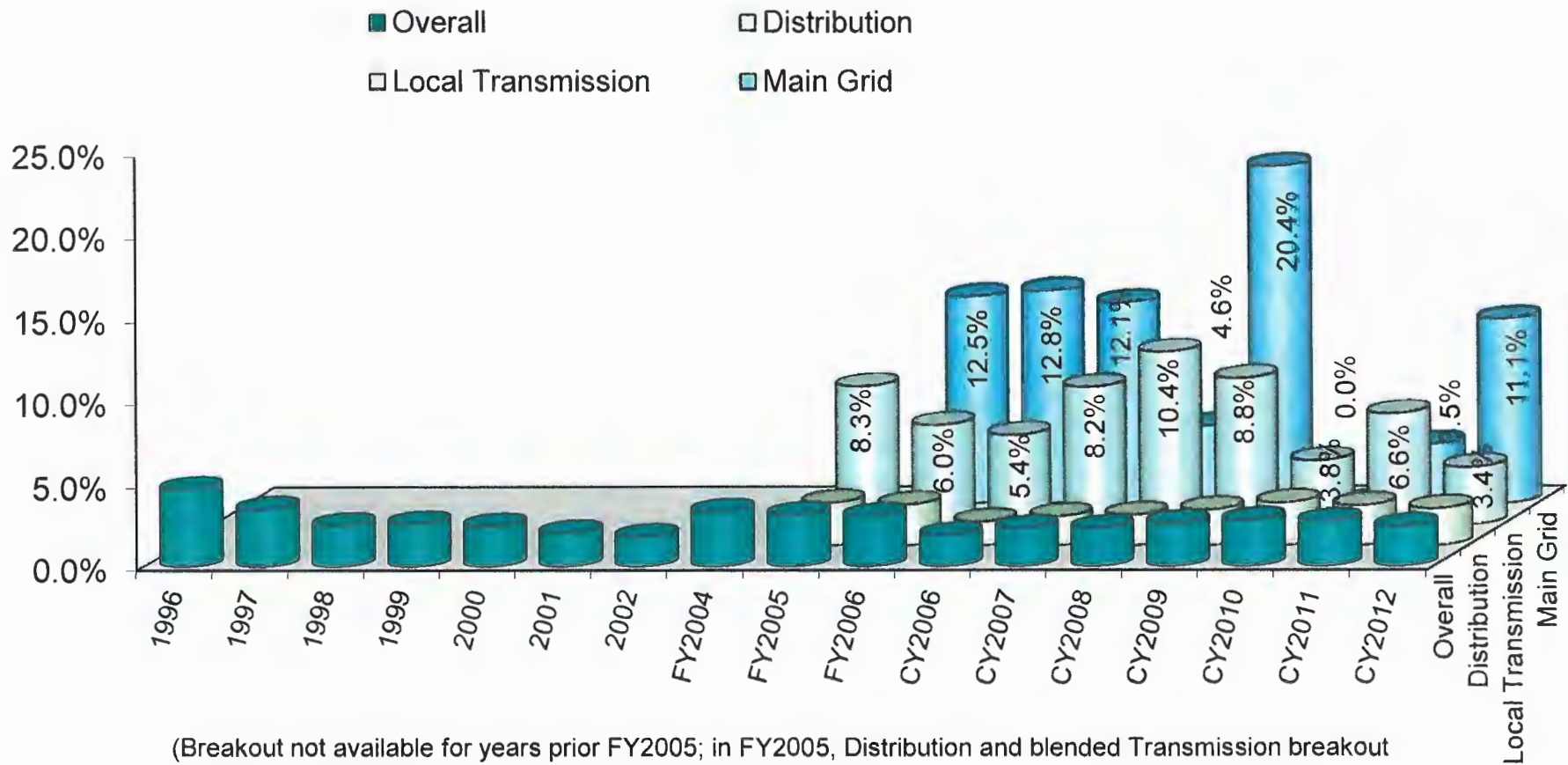


CY2012 Test & Treat History



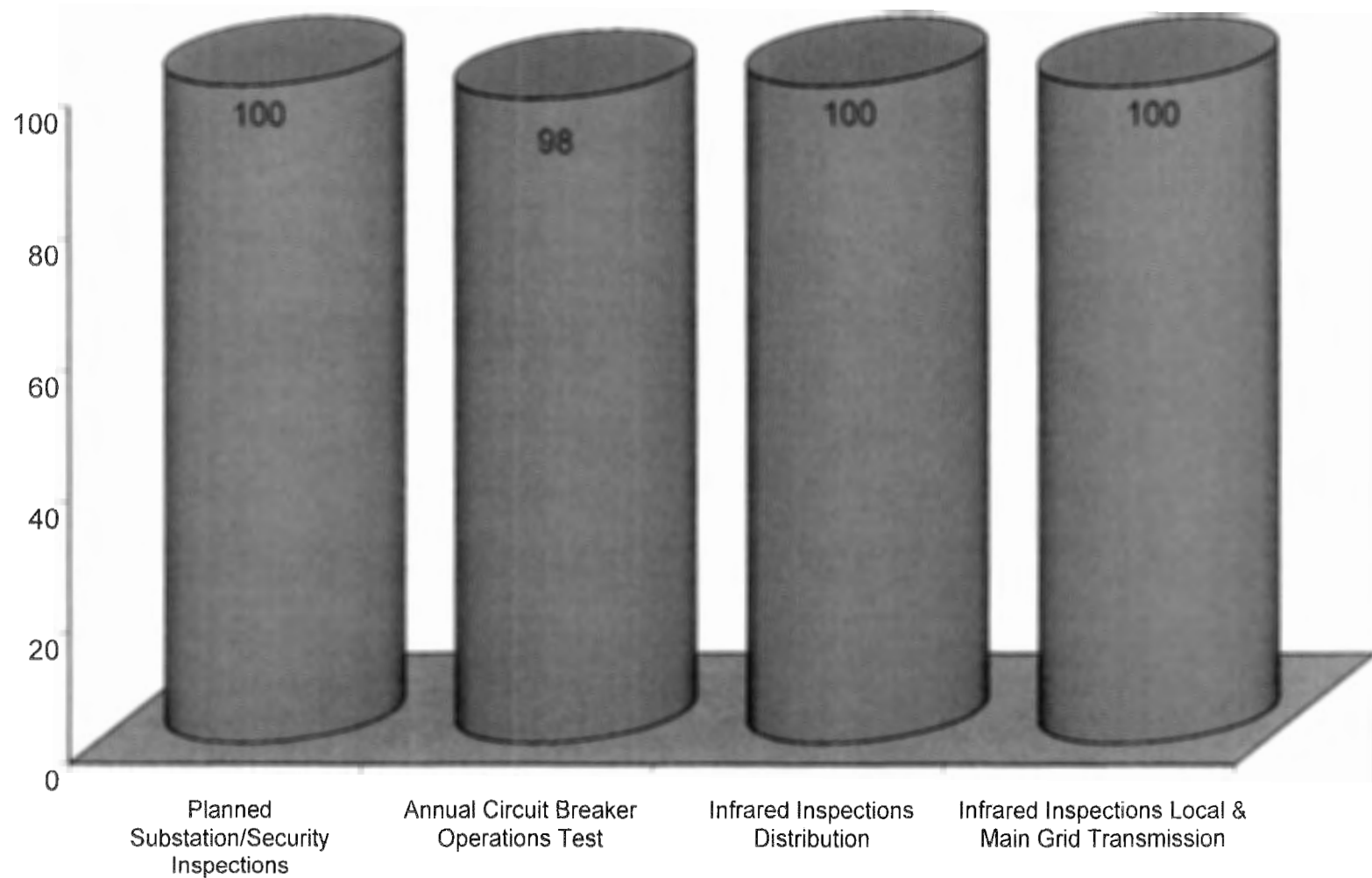
(Transmission breakout not available for years prior FY2005)

CY2012 Test & Treat 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.)

CY2012 Substation Inspections Percent Compliance



Substation Compliance Rates

Operating Area	Planned Substation/Security Inspections	Annual Circuit Breaker Operations Test	Infrared Inspections Distribution	Infrared Inspections Local & Main Grid Transmission
Albany	100%	99%	100%	100%
Bend	100%	99%	100%	100%
Klamath	99%	92%	100%	100%
Medford	99%	99%	100%	100%
Portland	100%	100%	100%	100%
Roseburg	100%	99%	100%	100%
Milton Freewater	100%	100%	100%	100%
Percent Completed	100%	98%	100%	100%

X2 – METERS

New Meter Quality Assurance Program

The meter manufacturers test all new single-phase and polyphase meters before being shipped to the company and provide certified test data for these meters.

The company analyzes all new meter certified test data to assure that company expectations, requirements and specifications are met. Any meters that do not meet the analysis criteria are rejected and returned to the manufacturer.

The company has a sample quality assurance (QA) evaluation and testing program for new residential type meters. As part of this program, the company conducts inspections of manufacturer's facilities, and district meter shops are asked to randomly select, inspect and test a pallet of new residential meters. In addition, the main Meter Test Facility may retest meters selected from one of several district shops. QA testing is conducted in order to validate:

- That meter shipping and handling is not causing accuracy or other problems.
- The laboratory accuracy standardization process between the company and the manufacturers.
- That the quality of the new meters delivered meets company expectations and specifications.

The company has a 100% QA evaluation and testing program for new instrument-rated meters. District meter shops, before or within 90 days of installation, test all new single- and polyphase instrument-rated meters.

In-Service Sample Test Program

The company conducts an annual in-service sample test program. Random samples with billing multipliers less than 40 are selected from each homogeneous meter group. Manufacturer, electrical-phase, model and serial number are used to group the meter populations selected for sample testing and analysis. Over 5,000 meters company-wide were sample tested this past year.

In year 2008, the Westinghouse model C and the GE I-14, 16 and 20 single-phase meter groups were removed from the scheduled testing due to the population size not being large enough for an adequate sample. These meter groups are already on the company's meter retirement list with instructions to retire whenever a site is visited and to retire any in stock. In addition, a certain number of these models are selected and assigned to be removed on a monthly basis.

For three consecutive years, 2010, 2011, and 2012, the Westinghouse model D5 did not meet ANSI Z1.9 criteria and failed the annual in-service sample test program. This meter model is listed on the company's meter retirement list with instructions to retire whenever a site is visited and to retire any in stock. PacifiCorp's retirement program helps ensure removal of these meters from service on a timely basis.

For two consecutive years, 2011 and 2012, the GE model EV did not meet ANSI Z1.9 criteria and failed the annual in-service sample test program. This meter model is listed on the company's meter retirement list with instructions to retire whenever a site is visited and to

retire any in stock. PacifiCorp's retirement program helps ensure removal of these meters from service on a timely basis.

In-Service Periodic Test Program

The company has an annual periodic testing and site inspection program in place divided into 2-year, 8-year and 16-year intervals based on the billing multiplier of the meter. This program is to assure proper and accurate metering equipment operation for accounts with billing multipliers of 40 or greater. The number of periodic tests company-wide was over 4,700 this past year.

The company's metermen conduct inspections looking for evidence of meter tampering, energy theft and unsafe conditions. Tests are performed to verify wiring, instrument transformer ratio and burden performance, phase-angles and power factor, and meter accuracy. The company's Customer Service System (CSS) is also reviewed to verify the correctness of the rate schedule, billing multiplier and other metering information needed for accurate billing.

Uniquely Defective Meter Analysis

When visiting the sample and periodic test sites, the metermen assign each meter with an "as-found condition code". These codes are analyzed for trends as part of the Uniquely Defective Meter analysis.

The company's metering department evaluates the uniquely defective meter lists developed from the sample and periodic testing programs. The evaluation process is intended to recognize meter groups with design or manufacturing deficiencies in addition to those developing a history of poor performance.

The evaluation includes the analysis of design or manufacturing deficiencies that could eventually lead to accuracy or other meter problems. Meter groups with problems are identified and, if appropriate, a retirement program is established.

The analysis includes examination of logical sub-groups within homogeneous groups, geographic areas, serial number ranges, meter age and consultations with manufacturers.

Meter Retirement Programs

The company's metering assets and technology group evaluates the Sample Test Program as well as the Uniquely Defective Meter Reports, for both Sample and Periodic Test Programs, to determine if a retirement program should be established for any identifiable meter groups, models or subgroups.

The state of Oregon has additional meter retirement programs that list the categories High Maintenance, Special Problem and Failed Sample meter models and groups.

Watt-hour Standards Certification

The company maintains a certification program for watt-hour standards that are used to test meters. The metermen's field working standards are certified annually to an accuracy of +/- 0.05%.

The company uses the Radian RD-22 as a portable standard between the Radian RD-23 Lab Standard and the metermen's field working standards. The transfer standards are certified quarterly.

The company maintains a basic watt-hour reference standard, the Radian RD-23 Lab Standard, that is certified annually with results traceable to the National Institute of Standards and Technology.

Energy Theft and Revenue Protection

Metering assets and technology processes and summarizes a monthly inspection report on metering problems found by metermen. The type of meter problem, calculated dollar losses, and the resolution on collection of the losses are documented.

X2 – STANDARDS

PacifiCorp's Standards mission is to produce policies and practices that enhance consistently high construction quality and provide highly durable materials at the lowest possible cost. Additionally, it is incumbent upon the Company to ensure that aged facilities are also properly inspected and maintained to ensure safe and reliable operations throughout its life. In delivering this mission, many of the responsibilities to ensure this high quality and low cost delivery are integrated throughout the Company. The products and services that achieve this mission are listed below:

Policies and Practices

The Company develops, evaluates and publishes construction, maintenance and inspection Policies and Practices. These cover the wide gamut of older facilities and construction to newly evolving technologies and materials for the electrical system.

Electrical Service Requirements Manual

In FY2006, the Company developed a company-wide Electric Service Requirements manual. The new manual incorporates all six states' ESR and was reviewed by each state's regulatory staff. This manual provides customers with information to follow to effectively receive electric service. Guidance is given regarding safety clearance requirements and typical installation practices so that the Company can work with the customer to deliver safe electric service.

Automated Construction Design Tool

The Company uses an automated Construction Design Tool, which provides cost estimating, material ordering, proper engineering design and financial accounting data. Company estimators and planners use the system to specify properly engineered designs and materials. Construction forces use this system to order the materials needed to provide a safe, highly reliable and highly durable electrical system at the lowest customer cost. It is also used to by Purchasing to purchase the type and quantities of materials needed by the Company. This allows optimum negotiation, yielding the lowest possible costs for high quality materials. Company accountants are supported in the proper accounting of material costs, labor charges and overhead costs, due to its automatic integration into the Company financial systems.

Code Support

Code expertise is provided to answer questions of compliance with applicable NESC (National Electrical Safety Code), NEC (National Electrical Code), state regulations, as well as other codes, rules and regulations.

Standards Support

Respond to day to day questions about proper construction and engineering practices. The department answers questions and provides engineering expertise and design

resources (in the form of engineering data or computer programs) to help field designers provide our customers with the highest possible levels of quality and service.

Document Support

The Company maintains detailed construction drawings, construction procedures, training material and engineering data, which is published in hardcopy form and also within the company web site.

Operations Advisory Group

In order to prioritize activities that deliver the highest value in meeting the goals of low cost, high quality delivery of electricity, the Company established the Operations Advisory Group, which is comprised of field construction employees who advise of needed policies and priorities for such development.

Engineering and Quality Evaluations

The Company ensures the quality of a variety of services and goods provided, including that of materials and material suppliers, construction and inspection services.

Quality Assurance Programs

The Company conducts random audits across a variety of goods and services rendered to ensure that appropriate quality levels are being delivered by its vendors. Substantial effort is made to increase the delivered quality of services provided.

X3 - UNDERGROUND CABLE REPLACEMENT

Background

The life expectancy performance of underground cable is a function of the quality of the design, manufacturing process, installation, load characteristics and environmental conditions of the cable. Since PacifiCorp's use of underground cable began in the 1960's, design improvements have over the years provided substantial improvements in the life expectancy of underground cable. The underground cable replacement program identifies cable that is approaching the end of its serviceable life and replaces it to maintain acceptable customer service levels.

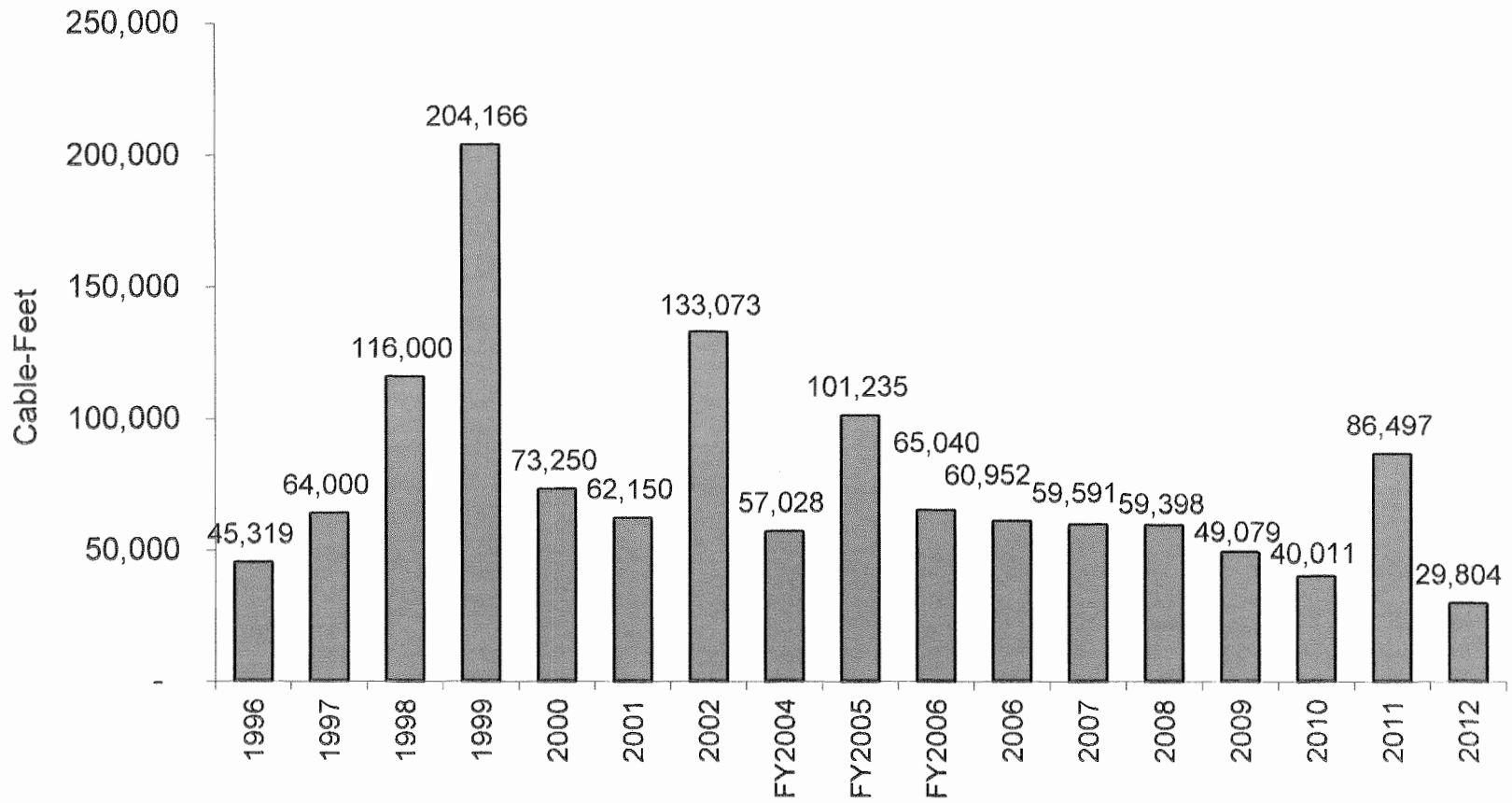
Actions Taken

- Consistent company-wide criteria implemented to prioritize cable replacement prior to the beginning of each budget year.
- Approximately 11.3% of the underground cable installed in Oregon in 2012 was used to replace existing cable that had reached the end of its serviceable life.
- Approximately 29,804 feet of primary underground cable were replaced in Oregon in 2012 out of 264,307 total feet installed.

UNDERGROUND CABLE REPLACEMENTS	Feet Replaced
DALB/2012/C/DRA/5602484 - GRNT ST: 4M269 CBL RPLCMNT 131105/270501	304
DALB/2012/C/DRA/5603929 - GRNT: 4M266 CBL RPLCMNT 1105/340680	740
DALB/2012/C/DRA/5631252 - SWT HM: 4M37 CBL RPLCMNT 351 STRWBRR LP	547
DALB/2012/C/DRA/5645172 - BCHNN: 4M133 CBL RPLCMNT NE CONIFER CORV	34
DALB/2012/C/DRA/5652566 - JFFRSN: 4M125 CBL RPLCMNT 612 LOREE PL	21
DALB/2012/C/DRA/5668738 - SCIO: 5M126 CBL RPLCMNT 38591 GOAR RD	477
DALB/2012/C/DRA/5681018 - CRWFT: 4M206 CBL RPLCMNT 3176 LUPINE LEB	443
DALB/2012/C/DRA/5698963 - GRNT ST: 4M268 CBL RPLCMNT ARTHUR PL COR	499
DALB/2012/C/DRA/5699608 - JFFRSN: 4M117 CBL RPLCMNT 4736 MRION HIL	1,115
DAST/2011/C/DRA/5588898 - CNBC:5A8:RPL DET CABLE:ECOLA PARK RD	554
DAST/2012/C/DRA/5713331 - CNBC:5A10:CBL RPLCMNT:CHINOOK CANNON BEA	487
DAST/2012/C/DRA/5731129 - SEAS:5A82:RPL FLD CBLE:JUNCTION RD.	51
DBEN/2011/C/DRA/5551805 - 5D38CLV REPL B/O CABLE POLARIS & SUN LN	18
DBEN/2011/C/DRA/5599935 - CLV-5D94/TAPADERA UG CABLE REPLACEMENT	80
DBEN/2012/C/DRA/5647440 - 5D38-CLV-1303 SE ARMOUR-P.P.-D. PATERSON	88
DBEN/2012/C/DRA/5678038 - 5D2;CABLE R/P 1612/305880;HIGHLAND RD	152
DBEN/2012/C/DRA/5700937 - BST5D411-PPL CABLE REPL CEDARWOOD DR	708
DBEN/2012/C/DRA/5709775 - RDD-5D323-IEW-CABLE 5063 S HWY 97	361
DBEN/2012/C/DRA/5709848 - 5D263;B/O SECOND;ROCK HARBOR M HOME PARK	147
DBEN/2012/C/DRA/5712643 - 5D96-CLV-61461 LITTLE JOHN LN-PACIFIC P.	762
DBEN/2012/C/DRA/5727359 - 5D238;MARKEN ST CABLE REPLACEMENT	333
DBEN/2012/C/DRA/5727360 - 5D238;ROBERT WY CABLE REPLACEMENT	399
DBEN/2012/C/DRA/5727362 - 5D94;FRANKE LN CABLE REPLACEMENT	561
DCOO/2011/C/DRA/5585108 - STST:4C112:RPL DET UG PRIMARY CABLE	62
DCOO/2011/C/DRA/5607925 - 4C106:RPL EXPOSED/DET UG PRI 2612/081300	526
DCOO/2012/C/DRA/5615513 - LCKHRT 4C5-RPL 3PH PRI UG CBL,FP# 359482	31
DCOO/2012/C/DRA/5642531 - EMPIRE 4C108:RPL UG SEC/SVC,665 SHORPINE	144
DCOO/2012/C/DRA/5655427 - ATF: 1051 N. CEDAR PT COQUILLE	106
DCOT/2012/C/DRA/5623635 - GSHN: 4M360 CBL RPLCMNT S. 2ND ST CRSSWL	639
DDAL/2012/C/DRA/5612290 - DAL/MCBEE RD URD CABLE REPLACEMENT	344
DDAL/2012/C/DRA/5706413 - DLLS: 4M100 CBL RPLCMNT LOT 128 S. GREEN	658
DDAL/2013/C/DRA/5727769 - DLLS: 4M238 CBL RPLCMNT MC BEE RD DALLAS	506
DENT/2011/C/DRA/5581841 - ENT: 5W15: 800' UG CABLE REPL: PACE ST	403
DGRA/2012/C/DRA/5662274 - AGN:5R172:RPL200'350TX:257 GORDON WAY N	198
DGRA/2012/C/DRA/5668881 - APP 5R278 BAD CBL 369481C	30
DGRA/2012/C/DRA/5684775 - PKS 5R121 CABLE REPAIR 1901 COLORADO	241
DGRA/2012/C/DRA/5692767 - APP 5R278 RPL SERVICE 170 ARROYO GP	274
DGRA/2012/C/DRA/5699106 - CVJ:5R53:RPL FLD SVC CABLE:222 OLLIS RD	450
DGRA/2012/C/DRA/5702708 - ATF:9/12/12:BEA:5R104:RPL BO UG PRIMARY	206
DGRA/2012/C/DRA/5704463 - EYV 5R125 RPL BAD CABLE B3704-B11724	290
DGRA/2012/C/DRA/5709858 - EYV 5R125 RPL BAD CABLE B4990-B12930	995
DGRA/2012/C/DRA/5713496 - DRA 10/5/12 EYV 5R259 FLD UG PRI AZALEA	108
DGRA/2012/C/DRA/5718208 - APP:5R278:RPL 250' #2AL:7255 N APPLGATE	123
DGRA/2012/C/DRA/5718309 - AGN:5R172:RPL 1980' #2AL:TOM PEARCE PARK	44

DGRA/2012/C/DRA/5733161 - PKS:5R114:RPR BO UG PRIMARY CABLE:ATF	120
DHER/2011/C/DRA/5581734 - BCK:5W203:RPL 4 SECTS #2AL:248 SW 28TH	21
DHER/2012/C/DRA/5644092 - ARL: 5K25: B/O PRIMRY CABLE-1400 MAIN ST	263
DHER/2012/C/DRA/5692836 - HER:5W602:SHERMAN ST. 350' UG CABLE REPL	151
DHOO/2011/C/DRA/5548553 - HDR,5K74,DRA, PACIFIC AVENUE, HR	12
DHOO/2011/C/DRA/5579204 - DRA, 5K70, ROWENA DELL, MOSIER	10
DKLA/2010/C/DRA/5508812 - CABLE REPLACEMENT TAMERA DR MOYINA HTS	14
DKLA/2011/C/DRA/5561747 - UG CBL RPL 1331 AVALON APTS, K-FALLS	175
DKLA/2012/C/DRA/5663812 - WSI 5L116 CABLE REP 6767 TINGLEY, K-FALL	25
DKLA/2012/C/DRA/5706426 - TEX 5L116 CBL RPL C-678 CROSS RD K-FALLS	611
DKLA/2012/C/DRA/5734987 - BRYANT 5L3 CBL REP 1331 AVALON K-FALLS.	13
DLIN/2011/C/DRA/5595928 - DVK:4A312:RPL UG PRIMARY:0611/349281	19
DLIN/2011/C/DRA/5606274 - DVK:4A310:B/O UG DX: SE 44TH AND INLET	48
DLIN/2013/C/DRA/5694571 - DVK:4A316:CABLE RPLCMNT:OLD RANCH RD	36
DMAD/2012/C/DRA/5621628 - WSP-4D68/1844 POOSH AVE UG CABLE RPLC	282
DMED/2011/C/DRA/5576864 - BRO-5R75 DRA 2433 CAPITAL AVE., MEDFORD	2,686
DMED/2011/C/DRA/5609060 - FHL-5R39-2267 BRENTWOOD ST, MEDFORD	825
DMED/2012/C/DRA/5593219 - BRO-5R33 DRA 2443 AMARYLLIS AVE, MEDFORD	388
DMED/2012/C/DRA/5608434 - BRO-5R135 DRA CRATER LK AVE & ALPINE, MD	459
DMED/2012/C/DRA/5611936 - BKN-5R3 DRA 2561 FREEDOM WAY, MEDFORD	202
DMED/2012/C/DRA/5622128 - ATF REPL BAD UG CABLE BIDDLE & MORROW MD	285
DMED/2012/C/DRA/5628344 - ATF REPL B/O UG CABLE 409 W 4TH PHOENIX	163
DMED/2012/C/DRA/5638111 - MFD:5R659:RPL CBL; ROYAL CT & ROYAL AVE	839
DMED/2012/C/DRA/5650316 - RUC-5R68-BO UG SVC-1315 UPPER APPLGATE	199
DMED/2012/C/DRA/5660176 - STV-4R13 421 STEVENS RD., SPC 40, E.P.	220
DMED/2012/C/DRA/5667107 - TAL:5R240:MAKE LOOP FEED:100 W. BOLZ RD	571
DMED/2012/C/DRA/5682116 - VIL-5R146 DRA 5915 PEACE LANE, CENTRALPT	584
DMED/2012/C/DRA/5692187 - WHC-5R11 3600 AVE. G, WHITE CITY, OR.	399
DMED/2012/C/DRA/5697769 - SCE-5R180 DRA 626 KINGS CT, CENTRALPOINT	580
DMED/2012/C/DRA/5698783 - CAM-5R218-BO URD PRI-3966 S PACIFIC HWY	388
DMED/2012/C/DRA/5708549 - SCE-5R182 DRA 3358 TAYLOR RD., CENTRALPT	165
DMED/2012/C/DRA/5715149 - RUC-5R68-BO PRI CABLE-10370 HWY 238	269
DMED/2012/C/DRA/5716179 - PRI A BO UG PRI CABLE-COACHMAN/CONESTOGA	111
DMED/2012/C/DRA/5730039 - BKN:5R3:B/O SERVICE:2744 TONIA CIR: MED	208
DMED/2013/C/DRA/5726329 - BRO-5R33 DRA 1857 INNER CIRCLE, MEDFORD	210
DPEN/2012/C/DRA/5630406 - BCK: 5W202: REPL B/O UG CABLES-JERICO LN	817
DPEN/2012/C/DRA/5723111 - BCK:5W203:UG CABLE REPL:097080 TO 097083	159
DPOR/2011/C/DRA/5526738 - PP&L-10608 NE WYGANT REPL B/O PRI 5P252	20
DPOR/2012/C/DRA/5603439 - KLLN:5P41:REPLACE B/O UG PRIMARY CABLE	9
DPOR/2012/C/DRA/5668843 - ATF:05/29/12:ADW:5P604 B/O UG/Frontge RD	290
DROS/2012/C/DRA/5640623 - WIN 5U19 RPL 4,500' PRI UG COLLEGE DR	49
DROS/2012/C/DRA/5642186 - WIN 5U19 RPL XXXX' PRI UG N RIVER DR	34
DROS/2012/C/DRA/5643052 - RSB 4U10 RPL 1,270' PRI UG 1350 STEPHENS	1,606
DROS/2012/C/DRA/5665467 - WIN 5U19 RPL 283' PRI UG 1140 UMPQ COLL	13
Total	29,804

Oregon UG Cable Replacement History



X2 & X3 - CY 2012 Actuals and Budget

X2 : Pole Inspect & Treat				ACTUALS	BUDGET
* Distribution	T&T	515		\$2,310,601	\$2,280,928
	Detail	520		\$0	\$0
Transmission	T&T	843, 883		\$207,983	\$241,938
	Detail	840, 880		\$426,985	\$400,273
Total				\$2,945,569	\$2,923,139

X2 : Pole Replacements				ACTUALS	BUDGET
Distribution				\$5,159,143	\$3,933,884
Transmission				\$5,231,512	\$5,083,458
Total				\$10,390,655	\$9,017,342

X2 : Repair and Replace Facilities				ACTUALS	BUDGET
Distribution	500, 501, 502, 503, 504, 505, 509, 518, 526, 527, 595, 625, 626			\$16,874,592	\$18,370,399
Transmission	845, 847, 846, 865, 884, 886, 848, 889			\$810,156	\$1,405,309
Total				\$17,684,748	\$19,775,708

X2 : Visual Inspections (Includes Equipment Inspections)				ACTUALS	BUDGET
Distribution	521			\$390,687	\$427,984
Transmission	841, 881			\$179,032	\$187,937
Total				\$569,719	\$615,921

X2 : Underground Inspections				ACTUALS	BUDGET
508				\$281,518	\$296,367
Total				\$281,518	\$296,367

X3 : Substation Maintenance				ACTUALS	BUDGET
Distribution Preventative Maintenance				\$2,206,791	\$2,555,945
Distribution Corrective Maintenance				\$974,812	\$1,084,692
Transmission Preventative Maintenance				\$1,951,138	\$1,964,431
Transmission Corrective Maintenance				\$923,695	\$923,459
Total				\$6,056,436	\$6,528,527

Oregon Workforce CY2012		
	Number of Workers	
Field Operations & Maintenance	Budget	Actual
Intern	0	2
Sevicemen	32	28
Lineman	151	119
Line / General Foreman	59	54
Underground Equipment/Cable Splicer	4	4
Clerks	38	29
Estimators	50	41
Field Inspectors	3	3
Field Engineers	11	8
Support Staff	8	2
Managers/Supervision	28	26
Field Operations & Maintenance Total	384	316
Metering	Budget	Actual
Collectors	27	27
Meter Readers	114	95
Connect/Disconnect/Collectors	7	6
Meterman	29	26
Engineers	7	4
Clerks	6	4
Contractor		1
Intern		2
Support Staff	7	9
Managers/Supervision	11	11
Metering Total	208	185
Plant and Dispatch	Budget	Actual
Contractors	2	1
Substation Foreman	11	11
Substation Journeyman	14	13
Communication Technicians	13	14
Meter Relay Technicians	24	20
Wireman Foreman	4	3
Wireman	7	4
Incident Coordinators	5	5
Engineers	8	7
Dispatchers	43	39
Clerks	13	10
Support Staff	23	21
Managers/Supervision	30	32
Plant & Dispatch Total	197	180
Transportation and Logistics	Budget	Actual
Contractors		1
Clerks		
Logistics Workers	33	32
Mechanics	15	15
Support Staff	3	3
Managers/Supervisors	4	3
Transportation & Logistics Total	55	54

Oregon Workforce CY2012

	Number of Workers	
	Budget	Actual
Procurement		
Contractors		
Clerks		
Buyers	16	15
Support Staff	4	3
Managers/Supervision	6	7
Procurement Total	26	25
Customer Service @ Portland Business Center	Budget	Actual
Contractors	14	9
Customer Service Employees	186	159
Support staff	7	6
Managers/Supervisors	17	16
Portland Business Center Total	224	190
Customer Service @ Wasatch Business Center	Budget	Actual
<i>(Note: Calls can be routed to both Business Centers.)</i>		
Clerks	1	1
Contractors	5	
Customer Service Employees	110	105
Support staff	4	5
Managers/Supervisors	10	10
Wasatch Business Center Total	130	121
OREGON LABOR	Budget	Actual
TOTAL NON-SUPPORT, NON-MANAGEMENT STAFF	1062	917
TOTAL SUPPORT STAFF	56	49
TOTAL MANAGEMENT STAFF	106	105
Oregon Workforce Total	1224	1071

NOTE: Number of Workers reflects the counts of Actual number of workers on record as of 12/31/2012.

PacifiCorp Vegetation Management

Date: 12/31/2012

District	Distribution & Local Trans													Main Grid Trans						Sub Total	Total Crews	
	2 Man Lift	3 Man Lift	3 Man Climb	4 Man Climb	3 Man Skidder	2 Man Mow	2 Man Slash	2 Man Pole Clear	1 Man Chem	2 Man Flagger	For. Tech.	Billed Super	Crew Sub-Total	3 Man Climb	3 Man Skidder	2 Man Slash	2 Man Pole Clear	1 Man Chem	Forest Techs			
Phillips																						
KLAMATH FALLS	4	1								0	0.75	0.75	5							0	5	
LAKEVIEW													0							0	0	
MEDFORD	11	3	1			2				2	3.5	2	19							0	19	
Total	15	4	1	0	0	2	0	0	0	2	4.25	2.75	24	0	0	0	0	0	0	0	24	
Hooley																						
ALBANY	4	3								1	1	1	8							0	8	
CORVALLIS													0							0	0	
COTTAGE GROVE													0							0	0	
DALLAS JUNCTION													0							0	0	
CITY													0							0	0	
LEBANON													0							0	0	
LINCOLN CITY	6	2								1	1	1	9							0	9	
STAYTON													0							0	0	
Total	10	5	0	0	0	0	0	0	0	2	2	2	17	0	0	0	0	0	0	0	17	
Partridge																						
COOS BAY	1	1				1	1			0.5	0.5	0.5	4.5	1	1					2	6.5	
GRANTS																						
PASS	6	3	1							2	2.5	1.75	12	0						0	12	
ROSEBURG	2	2							0.5	0.5	2	1	5	3						3	8	
Total	9	6	1	0	0	1	1	0	0.5	3	5	3.25	21.5	4	1	0	0	0	0	5	26.5	

X1 – VEGETATION MANAGEMENT

Program Overview

The Company *Specification Manual* includes program descriptions, specifications and protocols for all vegetation management work, including customer relations. The manual's objective is to provide direction for all vegetation management staff, from foresters, contract general foremen and supervisors, forest techs and utility tree workers on PacifiCorp's system. Furthermore, it provides important program information to all PacifiCorp employees about key facets of the Company's vegetation management practices.

Qualifications

PacifiCorp employs a staff of professional foresters to manage its vegetation program and communicate effectively the community service it provides. Moreover, contractor front line managers, supervisors, forest techs, are required to be International Society of Arboriculture (ISA) Certified Arborists and ISA Certified Utility Specialists.

PacifiCorp's vegetation management program is founded on best practices from the ISA. These practices include systematic maintenance, scientifically-based pruning, tree removal, tree replacement, herbicide and tree growth regulator applications, as well as specialized tools and equipment. PacifiCorp takes a progressive approach in vegetation management by trying innovative methods, products and equipment in order to improve safety and productivity.

Tree Line USA

PacifiCorp has been a Tree Line USA recipient since 2001. Tree Line USA is an award from the National Arbor Day Foundation, which recognizes utilities for utilizing practices that protect America's urban forests. To qualify, utilities must apply scientifically-based tree care, conduct annual worker training, plant trees, and conduct public education, including participating in Arbor Day celebrations. Contract employees should participate in annual worker training to cooperate with and help PacifiCorp continue to merit this outstanding award.

Importance of Effective Vegetation Management

Trees growing into or near power lines can create safety and service reliability risks, so they are a constant concern for utilities such as PacifiCorp. Close growing branches can provide access for the public to contact high-voltage lines, with potential for serious injury or death. Branches touching power lines can spark and start fires and cause interruptions in electric supply. Furthermore, trees whipped by winds or weighed down by rain or snow often interrupt power, disrupting business and home life, as well as compromising important community infrastructure, such as hospitals and emergency services. Three major electric grid failures, including the catastrophic blackout on August 14, 2003, were initiated by tree-caused outages on transmission lines.

For these reasons and others, the National Electric Safety Code Section 218-A-1, states:

"Trees which may damage ungrounded supply conductors should be trimmed or removed. Note: Normal tree growth, the combined movement of trees and conductors under adverse weather conditions, voltage and sagging of conductors at elevated temperatures are among the factors to be considered in determining the extent of trimming required."

Accordingly, electric utilities, such as PacifiCorp, manage their systems to reduce electric supply and service reliability risks by clearing trees from power lines. Often, the best solution is to remove tall-growing trees and replace them with low-growing species that will never interfere with the high-voltage lines, especially for transmission line. However, it is not always possible to remove conflicting trees. Trees that may not be removed are pruned to clear the utility space using the modern arboriculturally-sound pruning practices.

X-1 Reports Provided

These reports are included in the following order:

- *Section A&B Operating Area Summary Distribution & Transmission Status Report*

Sections A&B report distribution cycle line miles completed against schedule, and provides distribution cost per tree and mile along with removal rates. It further summarizes transmission schedule adherence, and progress against cycle goals.

- *Section C 10-Year Vegetation Management Plan*

Section C displays historical performance and future plans for vegetation management in Oregon.

- *Section D Tree-Related Safety Issues*

Section D provides information on four categories of tree-safety issues, including electrical contacts, powerline-cause fires, and climbable trees reported and corrected.

- *Section E Service Reliability Metrics: Outages*

Section E identifies outages reported as non-preventable and preventable tree causes during the year.

- *Section F Scheduled versus Non-Scheduled Work Measures*

Section F provides an overview of the amount of programmed scheduled versus nonscheduled (response to customer requests) performed during the year.

In addition to the annual reports above, this year's Vegetation Management filing includes a special "one-time" data request for 5-year averages of crew counts, as provided in the table below.

Oregon Vegetation Management - 5-Year Tree Crew Counts

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
2012	73	75	79	79	76	75	71	72	80	78	83	78	76
2011	60	57	57	63	64	65	72	64	70	60	57	61	63
2010	59	60	60	58	59	57	56	60	65	66	63	59	60
2009	63	63	64	59	58	57	52	55	55	62	63	63	60
2008	61	61	62	62	63	62	63	64	67	66	68	62	63

X3 - B. Substation Signage Summary

The Company reviewed and revised its signage standards and completed them by March 10, 2011. They were modified as shown below.

During 2012, no modified signs were installed within Oregon.

Substation High-Voltage Warning Signs

A. Scope

This standard specifies the details of, and installation procedures for high-voltage warning signs. These signs shall be placed on all fenced enclosures containing high-voltage electrical equipment.

B. References

The following publications also pertain to substation high-voltage warning signs:

- ANSI Z535.1-2006, *Safety Color Code*
- ANSI Z535.2-2006, *Environmental and Facility Safety Signs*
- ANSI Z535.3-2006, *Criteria for Safety Symbols*
- ANSI Z535.5-2006, *Accident Prevention Tags (For Temporary Hazards)*
- NESCA Handbook 5th Edition, Appendix B, *Safety Signs*
- PacifiCorp Substation Engineering Handbook Document 6B.5, *Fence Application and Construction*.

Figure 1—English High-Voltage Warning Sign for Pacific Power (SI# 7999851)

Substations and High-Voltage Equipment Construction Standard	Substation High-Voltage Warning Signs	 PACIFICCORP <small>A MIDAMERICAN ENERGY HOLDINGS COMPANY</small>
Engineer (I. Morar): <i>IM</i> Standards Manager (G. Lyons): <i>GL</i>	© 2011 by PacifiCorp. All rights reserved.	17 Mar 11 SG 001 Page 1 of 4

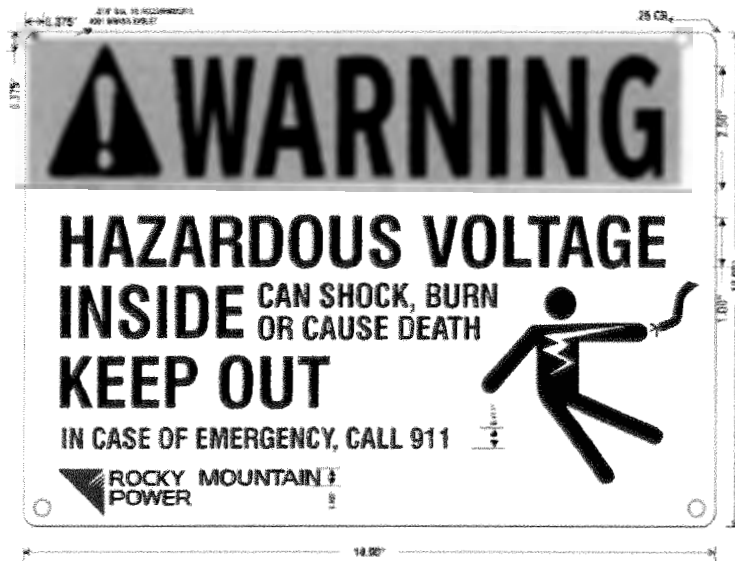


Figure 2—English High-Voltage Warning Sign for Rocky Mountain Power (SI# 7999852)



Figure 3—Spanish High-Voltage Warning Sign for Pacific Power (SI# 7999853)


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Figure 4—Spanish High-Voltage Warning Sign for Rocky Mountain Power (SI# 7999854)

C. Sign Description and Layout

1. Substation high-voltage warning signs are 10" x 14" in size, of an Everlast material, with a white background. A black signal word 2.5" high is placed in a safety-orange colored rectangular box across the top of the sign. A safety alert symbol 2.5" tall (the symbol is triangular and contains an exclamation point) precedes the signal word.
2. A warning message in black letters 1" tall follows the signal word and safety alert symbol. The warning message is printed in black, on the sign's white background.
3. An electrical "person with wire" safety symbol follows the warning message (it may also precede the warning message). This symbol is printed in black, on the sign's white background.
4. Signal and message wording is printed in a sans-serif font. Signal wording is always in uppercase. Message wording may be a combination of upper and lowercase letters, with the first word in the sentence capitalized. Message wording in uppercase is acceptable for short messages or emphasis of individual words.
5. Text justification is left-aligned for the word messages. Signal words are centered.
6. The signs are available in either English or Spanish. The utilization of signs in one or both languages is up to the area manager.

<p>Substations and High-Voltage Equipment Construction Standard</p>	<p>Substation High-Voltage Warning Signs</p>	 <p>A MIDAMERICAN ENERGY HOLDINGS COMPANY</p>
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7. On the English sign, the signal word reads, "WARNING." The warning message reads, "HAZARDOUS VOLTAGE INSIDE KEEP OUT." Additional wording includes, "CAN SHOCK, BURN OR CAUSE DEATH" and "IN CASE OF EMERGENCY, CALL 911." The Pacific Power or Rocky Mountain Power logo follows as shown in Figure 1 and Figure 2.
8. On the Spanish sign, the signal word reads, "RIESGOSO." The warning message reads, "VOLTAJE PELIGROSO ADENTRO NO ENTRE." Additional wording includes, "PUEDE CAUSAR CHOQUE ELECTRICO, QUEMADURAS O MUERTE" and "EN CASO DE EMERGENCIA LLAME AL 911." The Pacific Power or Rocky Mountain Power logo follows as shown in Figure 3 and Figure 4.


D. Placement and Spacing

1. Signs shall be placed on each side of the substation's perimeter fence at a maximum spacing distance of 65 feet.
2. Signs shall also be placed on each gate, and shall be placed on the left-hand leaf of double gate.
3. Signs shall be placed on the outside of the fence (not the inside) at an approximate height of 5'-6" from the center of the sign to the ground. Sign location and height may be adjusted as needed to ensure maximum visibility. (For example, signs should not be obstructed by bushes, trees, berms, etc.)

E. Ordering, Installation and Inspection

1. Substation Engineering will order signs for new installations.
2. On existing installations, Technical Operations will inspect signs, verify placement, address conditions, and secure or order signs where and if needed.
3. Order high voltage warning signs with internal stock item number:
 English Pacific Power sign: SI# 7999851
 Spanish Pacific Power sign: SI# 7999853
 English Rocky Mountain Power sign: SI# 7999852
 Spanish Rocky Mountain Power sign: SI# 7999854
4. Order mounting hardware for mounting the sign on the substation fence, with internal Stock Item Number 7999092.

Description: The mounting hardware is comprised of aluminum brackets with 1" temper-proof bolts and locking nuts. The bolts are installed through the sign's front, and screw into the aluminum brackets located on the interior of the fence. Four sets of mounting hardware are needed for each sign.

		Substation High-Voltage Warning Signs	Substations and High-Voltage Equipment Construction Standard	
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