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May 5, 2023

VIA ELECTRONIC FILING

Public Utility Commission of Oregon
Attn: Filing Center
201 High Street SE, Suite 100
Salem, OR 97301-3398

Re: RE 171—Annual Reliability Report for Calendar Year 2022

On May 1, 2023, PacifiCorp d/b/a Pacific Power (PacifiCorp or the Company) notified Staff that would need an extension to file its Annual Reliability Report. On May 2, 2023, the Company filed a petition for a limited waiver of OAR 860-023-0151(1) so it could file its report on May 5, 2023. The Company's waiver request is pending before the Commission. In accordance with its waiver request, PacifiCorp submits for filing its Annual Reliability Report for calendar year 2022. This filing is made in compliance with Oregon Administrative Rule 860-023-0151.

Please direct any questions on this report to Jennifer Angell, Regulatory Project Manager, at (503) 331-4414.

Sincerely,



Matthew McVee
Vice President, Regulatory Policy and Operations

Enclosure



**Pacific Power's
Annual Report:**

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

Calendar Year 2022 Review
(January 1 – December 31, 2022)

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RELIABILITY

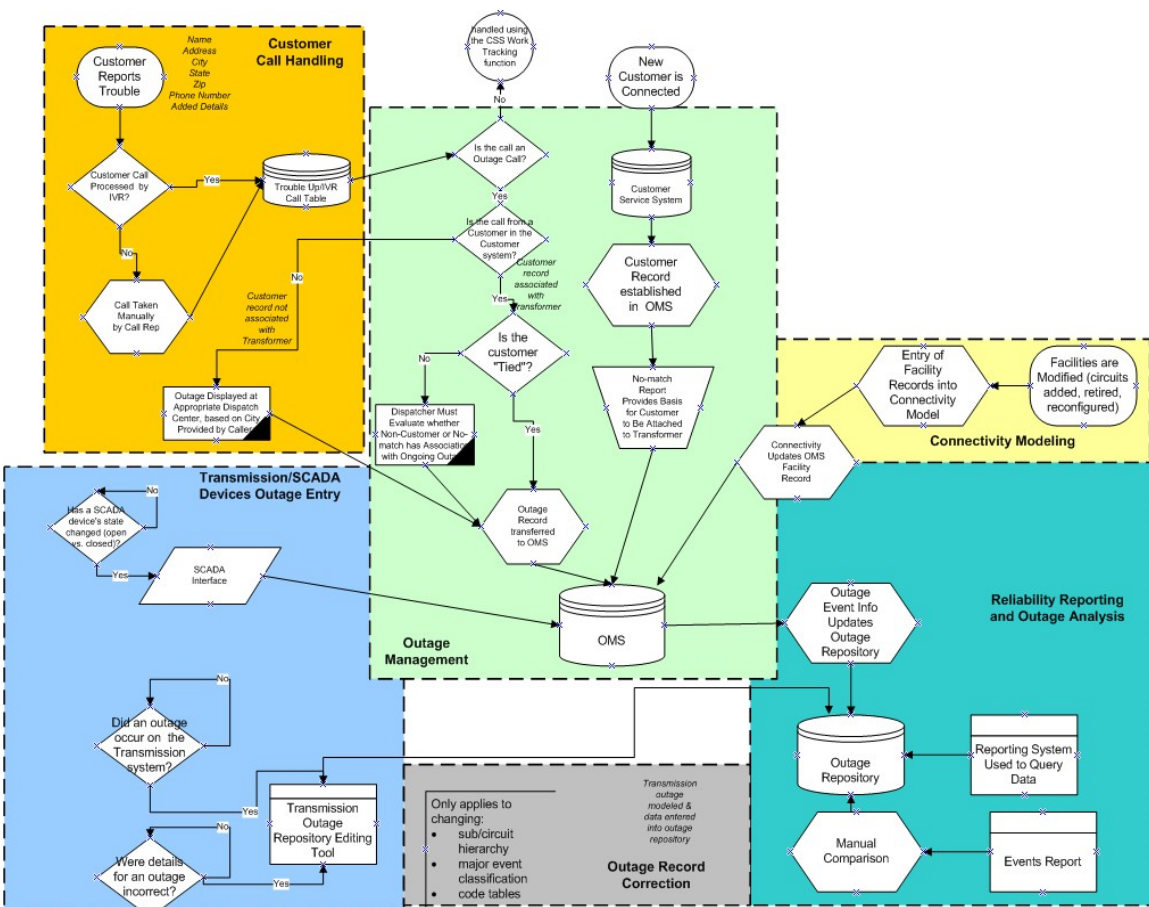
Introduction and Reliability Discussion

This year's reliability report includes a brief overview of Pacific Power's programs and initiatives to evaluate and enhance reliability. This report is consistent with Oregon Administration Rules (OARs) 860-023, 024 and 028.

Monitoring, Recording, and Reporting Reliability

How Pacific Power Monitors Reliability

Pacific Power operates automated outage management and reporting systems; a diagram of the data flow process is shown below. Customer trouble calls and SCADA events are interfaced with the Company's real-time network connectivity model, its CADOPS system (Computer Aided Distribution Operations System). By overlaying these events onto the network model, the program infers outages at the appropriate devices (such as a transformer, fuse, or other interrupting device) for all customers down line of the interrupting device. The outage is then routed to appropriate field operations staff for restoration and the outage event is recorded in the Company's Prosper/US outage repository. In addition to this real-time model of the system's electrical flow, the Company relies heavily upon the SCADA system it has in place. This includes the Dispatch Log System (an SQL database application), which serves to collect all events on SCADA-operable circuits. That data is then analyzed for momentary interruptions to establish state-level and circuit-level momentary interruption indices, per agreement with the Public Utility Commission of Oregon (OPUC) Staff. The Company has completed its implementation of an advanced metering infrastructure (AMI) system, which adds one more way in which the Company becomes aware of outages; this has resulted in methods used to weed out false positives, which continue to evolve. However, the Company has not identified substantial impacts regarding "metric uplift" (that could result in an inability to compare legacy metric levels against future performance levels) but recognizes that such might be recognized in the future. The Company is also reviewing whether AMI data can replace momentary interruption reporting data; however, its development of these analytics is still underway. In addition, the Company is midway through a transmission outage reporting system, which will also target modifications in momentary outage reporting, which may require the Company to restate history of these outage metrics. As reported previously, the Company has implemented a new transmission outage reporting system, enhanced its automated processing of SCADA-based information, and is building new functionality in interfacing this information into its outage reporting system.



Reliability Reporting: Interpreting Indices and Metrics

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

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

For performance reporting as contained within this document,¹ Pacific Power uses the current standard indices, applied at the state level as well as to its defined reliability reporting regions. In years preceding 2012 the major events excluded from performance during the period were determined using the historic “10% of operating area customers” method, not the IEEE 1366 “2.5 beta” T_{Med} method applied to these reliability reporting regions. Therefore, year-on-year comparisons need to be made carefully.

Regional reliability reporting areas were established by using statistical tools to determine the granular level at which performance complied with assumptions underlying the development of the major event thresholds

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

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.

To devise circuit-level performance measures, Pacific Power performed research into which metrics are appropriate for ranking reliability investments to better serve the needs of customers. The need to reliably serve the areas with the greatest numbers of customers must be balanced against the need to maintain focus on service levels where there are fewer customers. To do this, Pacific Power implemented in 1999 a balanced set of circuit performance indices (known as CPI⁹⁹) and methods that improve on those documented in IEEE 1366.

Circuit performance is reviewed at least annually against these various metrics to determine the selection of circuits to be addressed within the Company's Worst-Performing Feeders Program; as time has elapsed and tools have evolved, the Company has focused its analysis at a lower-level granularity than circuit. So, sub-circuit selection may have been chosen as the optimal improvement activity. Mining this data allows the Company to optimize cost against reliability metric improvements.

Reliability Tools: Improving Indices and Metrics

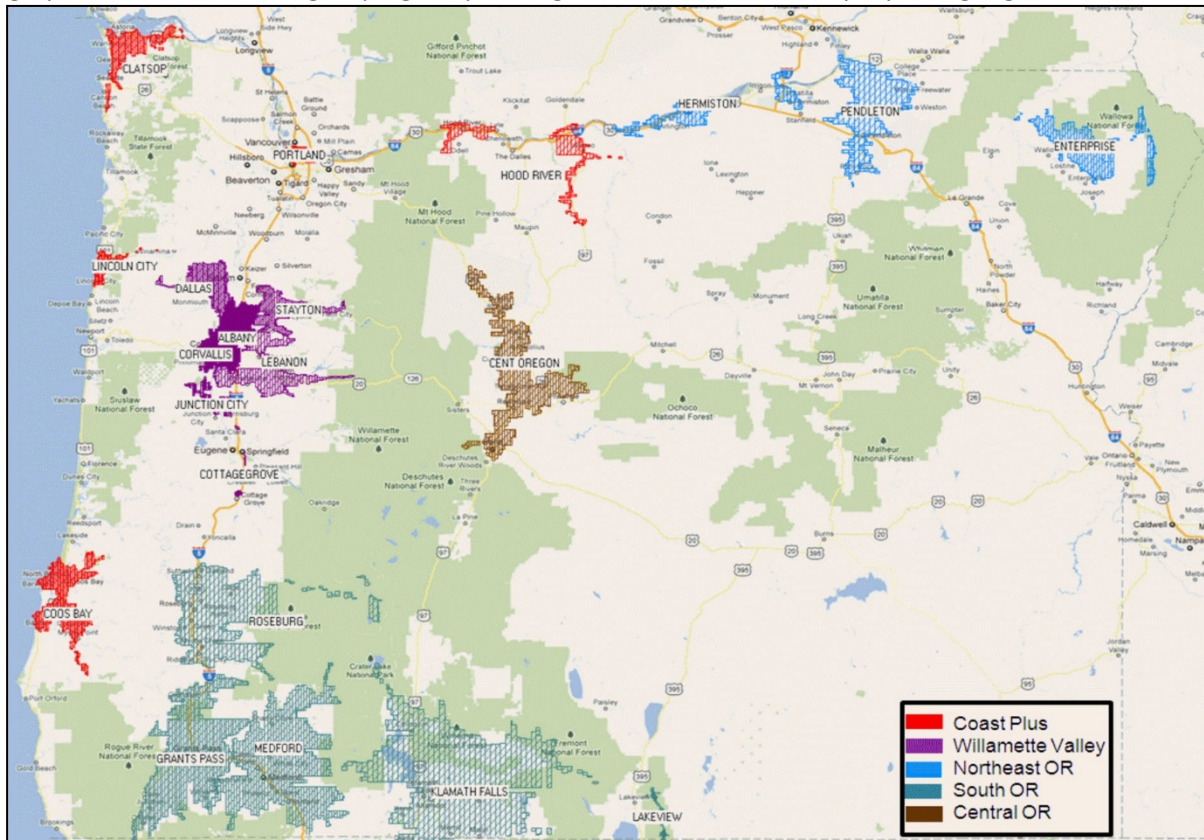
Pacific Power uses the reliability data in a variety of ways that are designed to improve reliability to its customers. It has devised methods that are contained in the recently adopted industry guide for electric reliability, IEEE 1782-2014.² Some of these analytical methods render the outage data in a tabular, graphical, and geospatial manner. All of them serve as input to developing projects that improve reliability, including the Company's fuse coordination program, Fuse It or Lose It (FIOLI), its circuit hardening program, Saving SAIDI, and its capital construction program, Network Initiatives. These programs are evaluated for their forecast improvements to network reliability, as measured by the avoidance of customer interruptions, customer minutes interrupted and momentary customer interruptions. Each project is assigned a value for reduced interruptions along with the cost for that project, and based upon the best cost projects, selected to align with budget and resource capacity targets.

Other tools the Company has created to deliver better reliability to customers include web-based notifications when interrupting devices (e.g., circuit breakers, reclosers or fuses) have experienced more operations within a given time period than expected. This enables field engineering and operations management team members to promptly evaluate means to modify performance in that area of the system. These ad-hoc activities augment the Company's reliability planning process, which is conducted annually with interim updates. Review of historic reliability performance demonstrates the process' efficacy. Annually the Company identifies five circuits that are designated as "underperforming circuits" against which the Company reports blended reliability metrics (SAIDI, SAIFI, MAIFI and breaker lockouts) to highlight performance changes for that family of circuits over the next five years. These circuits are reported later in this section.

² IEEE-1782 (PE/T&D) Guide for Collecting, Categorizing and Utilization of Information Related to Electric Power Distribution Interruption Events was approved on March 27, 2014, and contains many of the approaches used by Pacific Power to evaluate system reliability and determine areas where improvements should be deployed.

Reliability Reporting Regions Map

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



Elevated Fire Risk

As part of the Company’s wildfire mitigation programs, the Company may use protection coordination settings, referred to as “Elevated Fire Risk” (EFR) settings, that more substantially affected distribution system performance than standard settings. In 2021, the Company developed a method to estimate the reliability impacts of the device setting changes. EFR settings are applied when fire weather conditions, such as high winds, low fuel moisture, elevated temperature, low relative humidity, and volatile fuels, are greatest. When EFR settings are used, certain operational responses may also differ, which may result in more sustained outage events and longer outage duration. The underlying metrics reported are reduced by the quantities shown below.

2022 Region	Elevated Fire Risk During Non-Major Event				Elevated Fire Risk During a Major Event			
	CML	CI	State SAIDI	State SAIFI	CML	CI	Sate SAIDI	State SAIFI
Central OR	128,041	1,500	0.20	0.0024	-	-	-	-
Coast Plus	-	-	-	-	-	-	-	-
Northeast OR	62,240	385	0.10	0.0006	41,066	218	0.07	0.0003
South OR	5,524,890	51,808	8.78	0.0824	-	-	-	-
Willamette Valley	28,575	486	0.05	0.0008	-	-	-	-
Oregon	5,743,746	54,179	9.13	0.0861	41,066	218	0.07	0.0003

Major Event Thresholds

Effective CY2012, the administrative rules were modified to replace the 10% of operating area customers methodology with IEEE P1366 “2.5 beta” or T_{Med} methodology for determining major events. For Pacific Power’s service territory in Oregon, all operating areas were grouped into five reliability reporting regions and each reliability region’s threshold determined according to IEEE 1366-2003/2012. The tables below depict the composition of each region and its threshold as used during 2022 and for application during 2023. Since certain major events may be filed as a statewide event, the state threshold and history are also supplied.

2022 Major Event Threshold			
Reliability Region	T_{Med} SAIDI	T_{Med} CMI	Operating Areas within Region
Central OR	6.45	571,191	Bend/Redmond, Madras
Coast Plus	13.17	2,113,876	Clatsop/Astoria, Coos Bay/Coquille, Hood River, Lincoln City, Portland
Northeast OR	11.60	301,314	Enterprise, Hermiston, Milton-Freewater, Pendleton, Walla Walla
South OR	14.35	3,264,851	Grants Pass, Klamath Falls, Lakeview, Medford, Roseburg/Myrtle Creek
Willamette Valley	16.95	2,142,956	Albany, Corvallis, Cottage Grove/J. City, Dallas/Independence, Lebanon, Stayton
Oregon	7.30	4,589,806	

2023 Major Event Threshold			
Reliability Region	T_{Med} SAIDI	T_{Med} CMI	Operating Areas within Region
Central OR	6.90	618,295	Bend/Redmond, Madras
Coast Plus	14.14	2,266,070	Clatsop/Astoria, Coos Bay/Coquille, Hood River, Lincoln City, Portland
Northeast OR	13.67	354,802	Enterprise, Hermiston, Milton-Freewater, Pendleton, Walla Walla
South OR	13.82	3,141,383	Grants Pass, Klamath Falls, Lakeview, Medford, Roseburg/Myrtle Creek
Willamette Valley	16.81	2,124,801	Albany, Corvallis, Cottage Grove/J. City, Dallas/Independence, Lebanon, Stayton
Oregon	7.50	4,723,224	

The following table is a 5-year view of each region’s T_{Med} values.

Calendar Year	2023		2022		2021		2020		2019	
Region	CMI	SAIDI	CMI	SAIDI	CMI	SAIDI	CMI	SAIDI	CMI	SAIDI
Central OR	618,295	6.90	571,191	6.45	507,120	5.80	482,924	5.71	484,821	5.72
Coast Plus	2,266,070	14.14	2,113,876	13.17	2,025,865	12.75	1,965,286	12.50	1,860,107	11.91
Northeast OR	354,802	13.67	301,314	11.60	294,942	11.43	305,107	11.94	334,025	13.22
South OR	3,141,383	13.82	3,264,851	14.35	3,275,975	14.51	3,354,813	14.83	2,975,868	13.10
Willamette Valley	2,124,801	16.81	2,142,956	16.95	2,066,210	16.47	2,156,406	17.42	2,336,645	18.81
Oregon	4,723,224	7.50	4,589,806	7.30	4,375,795	7.02	4,480,143	7.26	4,379,315	7.09

Major Events Excluded Report

Pacific Power filed written documentation for two Major Events in 2022 that were excluded from underlying reliability performance results. They are summarized in the table below.

Oregon 2022 Major Events - Written Filings									
Event Date	Description	CML	CI	OPUC Report Required	Region TMED	Region SAIDI	Oregon SAIDI	Oregon SAIFI	Oregon CAIDI
December 26-30, 2022	Oregon - Winter Storm (Atmospheric River)	57,336,302	118,502	Yes	-	-	27.86	0.057	484
September 9-10, 2022	Oregon – Public Safety Power Shutoff (PSPS)	15,701,828	15,667	Yes	-	-	24.42	0.019	1,002
TOTAL Oregon Major Events Filed		73,038,130	134,169				116.11	0.213	545

In addition, the Company excluded 14 events where CAIDI was less than five hours (300 CAIDI minutes), for which no filing is required according to the OARs.

Oregon 2022 Major Events - Low CAIDI (<300) No Filings									
Event Date	Description	CML	CI	OPUC Report Required	Region TMED	Region SAIDI	Oregon SAIDI	Oregon SAIFI	Oregon CAIDI
January 1-5, 2022	Oregon - Loss of Supply	19,020,717	70,502	No	-	-	30.23	0.11	270
January 9-10, 2022	Northeast - Loss of Supply	2,029,396	10,611	No	11.43	78.68	3.26	0.02	191
March 12-13, 2022	Oregon - Windstorm	6,172,383	33,281	No	-	-	9.81	0.05	185
April 10-11, 2022	Oregon - Winter Storm	6,397,974	23,998	No	-	-	10.17	0.03	267
June 10, 2022	Willamette - Loss of Supply (from BPA)	3,275,481	18,551	No	16.82	25.91	5.21	0.03	177
July 2, 2022	Central - Loss of Supply	768,456	12,597	No	6.45	8.67	1.22	0.02	61
August 9, 2022	Central - Loss of Supply	1,878,190	35,496	No	6.45	21.2	2.99	0.06	53
August 10, 2022	Northeast - Loss of Supply (Lightning) and Trees	1,809,044	6,311	No	11.43	69.66	2.88	0.01	287
August 14-15, 2022	Central - Equipment Failure	668,685	3,774	No	6.45	7.55	1.06	0.01	177
November 4-5, 2022	Coast Plus - Loss of Supply and Trees	2,123,283	18,658	No	13.17	13.23	3.38	0.03	114
November 4-6, 2022	Northeast – Windstorm	984,196	10,479	No	11.43	37.9	1.56	0.02	94
November 26-27, 2022	Willamette - Loss of Substation	2,353,107	10,863	No	16.82	18.61	3.74	0.02	217
December 11-12, 2022	Central – Winter Storm	1,702,352	8,388	No	6.45	19.21	2.71	0.01	203
December 23-24, 2022	Coast Plus – Winter Storm	2,816,038	13,830	No	13.17	17.54	4.48	0.02	204
TOTAL Major Events with low CAIDI		51,999,302	277,339				82.7	0.44	187

Total Performance Summary

Oregon 2022 Major Events - Summary	CML	CI	OPUC Report Required	Oregon SAIDI	Oregon SAIFI	Oregon CAIDI
Oregon Total Performance - <u>Includes</u> Major Event	193,339,516	1,082,074	N/A	307.36	1.72	179
Total Oregon Major Events Filed	73,038,130	134,169	Yes	116.11	0.213	544
Total Major Events with low CAIDI (no filing required)³	51,999,302	277,339	No	82.67	0.441	187
TOTAL MAJOR EVENTS EXCLUDED	125,037,432	411,508		198.78	0.65	304
Oregon Elevated Fire Risk - Included in Major Event⁴	41,066	218	N/A	0.07	0.0003	188
Oregon Elevated Fire Risk - Excluded in Major Event	5,743,746	54,179	N/A	9.13	0.0861	106
Oregon Underlying Events - <u>Excludes</u> Major Event	62,558,454	616,387		99.45	0.98	101

³ Some of the events represented in this data were not flagged as major events.

⁴ Numbers are included in the total for the Major Events Excluded, and therefore already removed from the underlying metrics, with the subtraction of major events.

Targeted Reliability

The Company annually establishes a list of targeted reliability projects for which it calculates cost per forecast reliability improvements, expressed as mitigation costs factored by avoided customer minutes interrupted or \$/cmi. These projects often involve fuse coordination, circuit hardening (including animal, vehicle, and vegetation management efforts) and reconductoring. The current roster of projects intended to be constructed during 2023 and 2024 are shown below.

District	Circuit ID#	Program Type	Year Initiated	Expected Completion	Project Notes
Albany	4M249	Circuit Hardening	2023	2024	Convert trim line construction to standard construction in zones one and two
	4M117	FIOLI	2023	2024	Replace old cutouts and fuse taps in all zones
Astoria	5A10	FIOLI	2023	2023	Install recloser and visibility strips
Coos Bay	4C37	FIOLI	2023	2023	Replace recloser
	4C50	FIOLI	2023	2023	Replace recloser
	4C106	FIOLI	2023	2024	Verify and coordinate fusing and fuse taps in zones one and two
Crescent City	5R152	Reconductor	2023	2025	Reconductor zone one
	5R170	FIOLI	2023	2023	Install one set of fuses
	5R171	EFI	2023	2023	Install fault indicators
	5R195	Circuit Hardening	2023	2024	Reroute tap to remove frequently hit pole in zone two
Enterprise	5W28	Circuit Hardening	2023	2024	Replace old cutouts in all zones
Grants Pass	5R172	EFI	2023	2023	Install fault indicators
	5R267	EFI	2023	2023	Install fault indicators
	5R278	EFI	2023	2023	Install fault indicators
	5R52	Circuit Hardening	2023	2023	Patrol circuit and find ways to improve reliability
Hermiston	5W82		2023	2024	Create line extension for feeder tie
	4K46	FIOLI	2023	2023	Replace three sets of Fusesavers with reclosers
	5W658	Circuit Hardening	2023	2023	Replace old cutouts in all zones
	5W602	Circuit Hardening	2023	2023	Replace old cutouts in all zones
Klamath Falls	5L1	FIOLI	2023	2024	Replace Fusesaver with recloser and fuse taps in all zones
	5L14	FIOLI	2023	2023	Replace Fusesaver with recloser
Lincoln City	4A316	FIOLI	2023	2023	Replace hydraulic recloser
Pendleton	5W203	Circuit Hardening	2023	2024	Replace older style cutouts in zone one
	5W402	Circuit Hardening	2023	2024	Replace older style cutouts in zone one
	5W705	Circuit Hardening	2023	2024	Replace older style cutouts in zone one
Roseburg	4U39	FIOLI	2023	2023	Replace hydraulic recloser
	5U84	FIOLI	2023	2023	Replace hydraulic recloser
	5U89	FIOLI	2023	2024	Verify and coordinate fusing and fuse taps on east and west branches of the circuit; install fault indicators; install tree wire in cross country sections
Sunnyside	5Y243	Circuit Hardening	2023	2023	Install animal guard in all zones

District	Circuit ID#	Program Type	Year Initiated	Expected Completion	Project Notes
Tulelake	4L3	FIOLI	2023	2024	Perform fuse coordination and installation beyond specific point in zone two
	5L62	FIOLI	2023	2023	Install three sets of fuses
	5L82	Circuit Hardening	2023	2024	Inspect and correct entire circuit for spans with excessive slack
	5L77	FIOLI	2023	2024	Verify and coordinate fusing and fuse taps in zone one
Walla Walla	5W120	Circuit Hardening	2023	2024	Perform circuit hardening on specific branch in zone five
	5W305	FIOLI	2023	2024	Verify and coordinate fusing and fuse taps in zones one and two
Yakima	5Y380	Expense	2023	2023	Install visibility strips in specific section of zone three
	5Y690	Circuit Hardening	2023	2023	Install animal guard
	5Y338	FIOLI	2023	2023	Install three sets of fuses, two sets of Fusesavers, and two sets of FCIs
	5Y554	Reconductor	2023	2024	Reconductor in zones one and two and fuse taps in zones two and three
	5Y202	FIOLI	2023	2024	Verify and coordinate fusing and fuse taps in zone three
Yreka	5G31	FIOLI	2023	2023	Install two new reclosers and fuse taps in zone one
	5G23	Expense	2023	2023	Install visibility strips in zones two and three

Under-Performing Circuits

After the completion of the development of reliability improvement plans (as discussed above), the Company evaluates those circuits whose blended reliability scores rank low, using its Circuit Performance Indicator (CPI). This is the primary basis for the next year’s Worst Performing Feeders element of its Targeted Reliability Program. CPI is an acronym for Circuit Performance Indicator, which uses 3-year weighted reliability metrics of the circuit to identify underperformance. The Company targets a 20% average improvement in this metric to validate its effectiveness. The application of CPI⁹⁹ proved to demonstrate more consistently how performance comparisons could be made. The variables and equation for calculating CPI are:

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

Index: 10.645

SAIDI: Weighting Factor 0.30, Normalizing Factor 0.029

SAIFI: Weighting Factor 0.30, Normalizing Factor 2.439

MAIFI: Weighting Factor 0.20, Normalizing Factor 0.70

Lockouts: Weighting Factor 0.20, Normalizing Factor 2.00

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

The following distribution feeders were selected as under-performing based on CPI scores ending December 31, 2022, and identified as Program Year 2024 circuits in the Network Initiatives program:

Program Year 2023 UNDER-PERFORMING CIRCUITS				
CIRCUIT ID	CIRCUIT NAME	KV	OPERATING AREA	CPI ⁹⁹
5R267	Murphy	12	Grants Pass	166
5L14	Town	12.47	Klamath Falls	133
4K46	Boeing	34.5	Hermiston	117
5A10	Haystack	12.47	Astoria	108
4C50	Bunker Hill	20.78	Coos Bay	74
TARGET SCORE				96

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				
CIRCUIT ID	CIRCUIT NAME	OPERATING AREA	BASELINE	Performance 12/31/22
Circuit Performance Indicator (CPI99)				
Program Year 2023 (2022):				
5R52	Free & Easy	Grants Pass	93	95
5L19	Lakeshore	Klamath Falls	83	97
4M63	Tennessee	Lebanon	156	138
4A338	Siuslaw	Lincoln City	207	154
5U920	Diamond Lake	Roseburg/Myrtle Creek	562	706
TARGET SCORE = 176			220	238

UNDER-PERFORMING CIRCUITS				
CIRCUIT ID	CIRCUIT NAME	OPERATING AREA	BASELINE	Performance 12/31/22
Program Year 2022 (2021):				
4M15	Ferry	Albany	118	63
5R114	Fruitdale	Grants Pass	136	146
5R287	Hummingbird	Medford	163	174
4K1	Sherman 208	Hood River	73	71
4M16	Water Street	Albany	87	91
TARGET SCORE = 92			116	109
Program Year 2021 (2020):				
4C37	Maple Street	Myrtle Point	43	116
4M17	Calapooia	Brownsville	158	16
4M243	Scravel Hill	Murder Creek	136	55
5P288	Cully #3-UG	Cully	74	27
5R245	Valley View	Ashland (Mtn. Ave., PUD)	78	63
TARGET SCORE = 78			98	55
Program Year 2020 (2019):				
5L43	Dairy	Klamath Falls	101	106
5R133	Glendale	Grants Pass	163	212
4M201	Industrial	Dallas/Independence	1,413	14
5A16	Mill (Warrenton)	Clatsop (Astoria)	129	68
5R63	Wood River	Grants Pass	143	149
TARGET MET			TARGET SCORE = 312	390
Program Year 19 (2018):				
L804	Bandon	Coos Bay/Coquille	138	69
4M238	Dallas	Dallas/Independence	161	90
4M94	Foster	Lebanon	199	94
4M125	Mint	Albany	151	229
4L50	Rocky Point Feeder (Running Y)	Klamath Falls	249	188
TARGET MET			TARGET SCORE = 143	180
Program Year 18 (2017):				
4M25	Buena Vista	Dallas/Independence	163	77
4C106	Coos River	Coos Bay/Coquille	212	196
4M120	Mill City	Stayton	261	203
5A211	Olney	Clatsop/Astoria	183	138
5R55	Siskiyou	Medford	220	77
TARGET MET			TARGET SCORE = 166	208
Program Year 17 (2016):				
5A20	SOUTH (Warrenton)	Warrenton	124	71
4C67	INDUSTRIAL	Coos Bay/Coquille	82	25
5L57	CRATER LAKE	Klamath Falls	200	115
4A316	LAKE (DEVILS LAKE)	Lincoln City	172	179
5U52	BEALS CREEK FEEDER	Roseburg/Myrtle Creek	188	98
TARGET MET			TARGET SCORE = 123	153
Program Year 16 (2015):				
4C108	EMPIRE	Coos Bay/Coquille	16	45
5A93	BRADWOOD	Clatsop (Astoria)	114	147
5K43	BELMONT	Hood River	118	36
5R232	MERLIN-HUGO	Grants Pass	41	16
5R65	DEER CREEK	Grants Pass	59	137
TARGET SCORE = 56			70	76

UNDER-PERFORMING CIRCUITS				
CIRCUIT ID	CIRCUIT NAME	OPERATING AREA	BASELINE	Performance 12/31/22
Circuit Performance Indicator (CPI99)				
Program Year 15 (2014):				
4M268	KINGS ROAD	Corvallis	115	37
4M269	29 TH STREET	Corvallis	133	40
4U5	DOUGLAS	Roseburg/Myrtle Creek	34	33
4C50	BUNKERHILL	Coos Bay/Coquille	152	74
5R63	WOOD RIVER	Grants Pass	193	149
TARGET MET		TARGET SCORE = 100	125	67
Program Year 14 (2013):				
4C42	TERRES HGHTS	Coos Bay/Coquille	158	103
5K70	EASTSIDE (Hood River)	Hood River	110	39
5R133	GLENDALE	Grants Pass	171	211
5R259	CHINOOK (Grants Pass)	Grants Pass	131	45
5R53	ROUGH & READY	Grants Pass	69	65
TARGET MET		TARGET SCORE = 102	128	112
Program Year 13 (2012):				
5D144	D.R.W.	Bend/Redmond	124	5
5D2	DESCHUTES S	Bend/Redmond	104	37
4U39	GOEDECK	Roseburg/Myrtle Creek	24	34
5U84	LITTLE RIVER	Roseburg/Myrtle Creek	70	77
5L59	WEST	Klamath Falls	45	19
TARGET MET		TARGET SCORE = 59	73	34

Oregon Five-Year Reliability Reporting Region Metrics

Excluding Major Events																								
Year	SAIDI						SAIFI						MAIFe						CAIDI					
	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON
2022	53	125	111	185	116	134	0.41	0.93	1.03	1.52	1.04	1.10	0.31	0.43	0.83	0.51	0.28	0.43	128	134	107	122	111	122
2021	53	111	93	107	140	106	0.47	0.88	0.75	0.93	1.33	0.93	0.84	0.36	2.76	1.73	2.03	1.07	115	126	124	115	105	115
2020	44	105	96	129	133	111	0.29	1.19	1.02	1.03	1.15	1.00	2.20	0.77	0.37	0.83	0.79	0.99	148	88	95	125	116	111
2019	30	114	84	119	139	108	0.23	1.11	0.54	1.08	1.17	0.97	1.50	1.56	3.46	1.71	2.92	1.92	134	102	154	110	119	112
2018	39	86	129	110	124	98	0.62	1.01	1.71	1.56	1.23	1.23	2.97	3.70	2.92	3.96	3.22	3.59	63	85	76	71	101	79

Including Major Events																								
Year	SAIDI						SAIFI						MAIFe						CAIDI					
	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON
2022	110	441	394	316	243	307	1.09	1.98	2.52	1.79	1.54	1.72	0.38	0.67	0.99	0.57	0.40	0.55	100	223	156	176	158	179
2021	143	446	138	196	1204	452	0.82	1.77	0.95	1.73	2.26	1.69	0.84	0.36	2.76	1.73	2.03	1.07	173	252	146	113	533	268
2020	229	388	261	434	270	354	0.64	1.97	1.79	1.63	1.94	1.65	2.20	0.77	0.37	0.83	0.79	0.99	360	197	146	267	139	215
2019	85	189	91	772	340	416	0.85	1.50	0.56	1.75	1.47	1.46	1.50	1.56	3.46	1.71	2.92	1.92	100	126	163	441	232	285
2018	83	158	164	166	131	146	1.09	1.28	1.80	1.83	1.26	1.47	2.97	3.70	2.92	3.96	3.22	3.59	76	124	91	91	105	99

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

Region	Op Area	CY 2022	CY2021	CY2020	CY2019	CY2018
Central OR	BEND/REDMOND	70,760	69,733	67,328	67,495	65,186
Central OR	MADRAS	17,853	17,692	17,235	17,312	16,897
Central OR		88,613	87,425	84,563	84,807	82,083
CoastPlus	CLATSOP (ASTORIA)	25,504	25,251	25,031	25,060	24,657
CoastPlus	COOS BAY/COQUILLE	26,647	26,382	26,390	26,606	26,409
CoastPlus	HOOD RIVER	9,691	9,595	9,546	9,668	9,409
CoastPlus	LINCOLN CITY	12,201	12,080	12,330	12,280	12,172
CoastPlus	PORTLAND	86,489	85,630	83,892	82,618	81,104
CoastPlus		160,532	158,938	157,189	156,232	153,751
Northeast OR	ENTERPRISE	5,568	5,531	5,476	5,510	5,432
Northeast OR	HERMISTON	4,995	4,906	4,829	4,802	4,696
Northeast OR	MILTON/FREEWATER	-	-	-	-	-
Northeast OR	PENDLETON	13,086	13,036	12,943	13,044	12,915
Northeast OR	WALLA WALLA OR	2,320	2,320	2,312	1,902	1,892
Northeast OR		25,969	25,793	25,560	25,258	24,935
South OR	GRANTS PASS	52,761	52,543	52,143	52,457	51,864
South OR	KLAMATH FALLS	38,185	38,015	37,763	38,097	37,704
South OR	LAKEVIEW	2,444	2,443	2,412	2,450	2,439
South OR	MEDFORD	90,781	89,893	91,033	91,202	89,904
South OR	ROSEBURG/MYRTLECREEK	43,303	42,940	42,857	42,952	42,616
South OR		227,474	225,834	226,208	227,158	224,527
Willamette Valley	ALBANY	32,938	32,925	32,228	32,471	31,783
Willamette Valley	CORVALLIS	30,825	30,457	29,956	29,875	29,657
Willamette Valley	COTTAGE GROVE/J.CITY	11,419	11,390	11,322	11,331	11,221
Willamette Valley	DALLAS/INDEPENDENCE	16,098	15,858	15,581	15,547	15,189
Willamette Valley	LEBANON	21,227	21,085	20,901	21,068	20,738
Willamette Valley	STAYTON	13,933	13,707	13,825	13,915	13,578
Willamette Valley		126,440	125,422	123,813	124,207	122,166
Oregon		629,028	623,412	617,333	617,662	607,462

Oregon Five-Year Cause Analysis by State

OAR Cause	2018 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	607,462	333	10,306,569	361,135	16.97	0.594	29	371	16,784,063	418,325	27.63	0.689	40
B Loss of Supply - Substation	607,462	7	792,353	5,882	1.30	0.010	135	17	4,585,938	20,219	7.55	0.033	227
C Distribution - Equipment	607,462	3,080	12,297,291	89,870	20.24	0.148	137	3,166	14,920,795	99,102	24.56	0.163	151
D Distribution - Lightning	607,462	224	1,726,130	9,770	2.84	0.016	177	225	1,726,284	9,771	2.84	0.016	177
E Distribution - Planned	607,462	2,251	16,142,761	114,130	26.57	0.188	141	2,283	16,557,364	117,101	27.26	0.193	141
F Distribution - Public	607,462	387	9,656,979	47,865	15.90	0.079	202	392	9,665,121	47,904	15.91	0.079	202
G Distribution - Vegetation	607,462	948	9,892,562	64,757	16.29	0.107	153	1,129	18,586,721	96,952	30.60	0.160	192
H Distribution - Weather	607,462	214	2,885,703	16,162	4.75	0.027	179	320	8,418,248	37,075	13.86	0.061	227
I Distribution - Wildlife	607,462	763	1,712,107	17,426	2.82	0.029	98	775	3,043,203	27,427	5.01	0.045	111
J Distribution - Unknown	607,462	907	4,790,709	57,412	7.89	0.095	83	925	5,030,038	58,082	8.28	0.096	87
K Distribution - Other	607,462	225	1,928,504	18,822	3.17	0.031	102	231	1,930,598	18,826	3.18	0.031	103
Grand Total	607,462	9,339	72,131,669	803,231	118.74	1.322	90	9,834	101,248,374	950,784	166.67	1.565	106

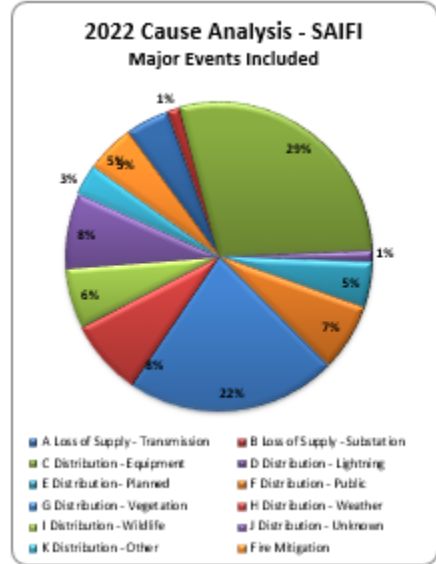
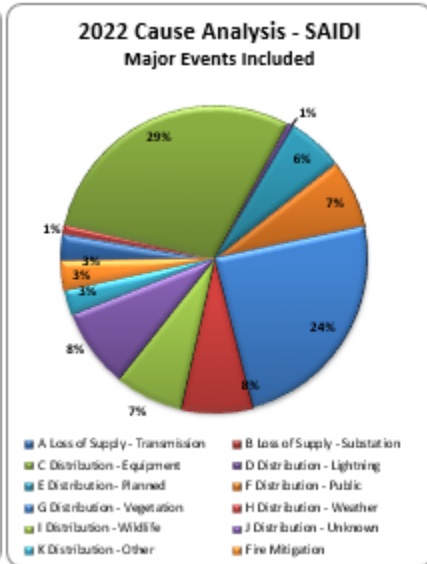
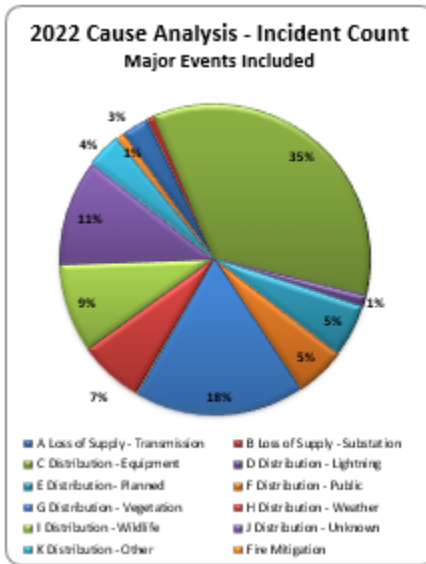
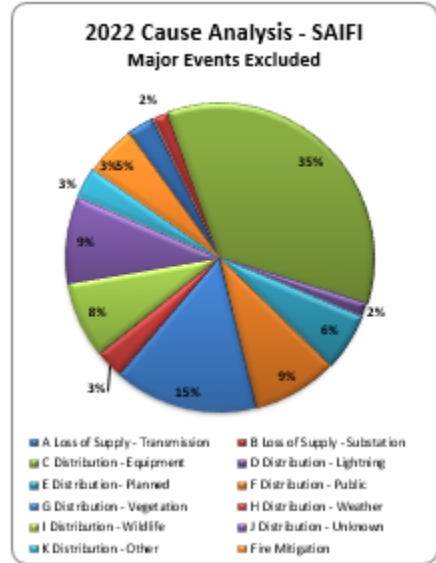
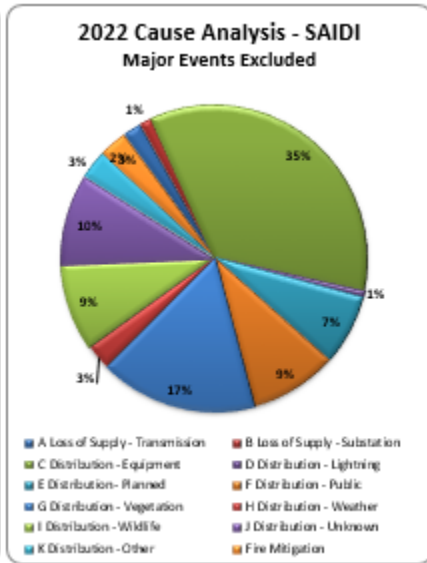
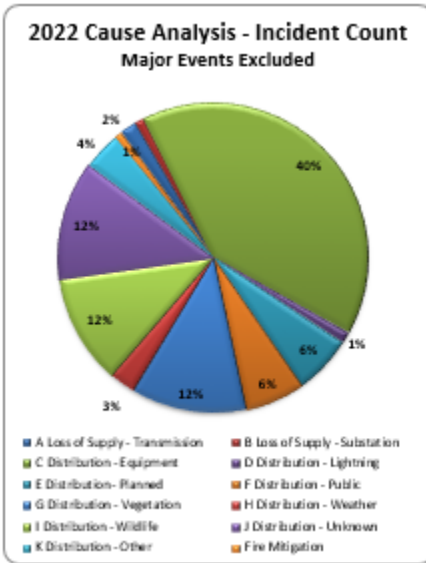
OAR Cause	2019 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	617,662	155	7,680,620	149,652	12.43	0.242	51	282	68,975,629	293,620	111.67	0.475	235
B Loss of Supply - Substation	617,662	19	2,500,151	28,222	4.05	0.046	89	29	9,068,740	45,069	14.68	0.073	201
C Distribution - Equipment	617,662	3,122	15,729,005	105,719	25.47	0.171	149	3,358	19,665,070	110,712	31.84	0.179	178
D Distribution - Lightning	617,662	202	1,155,702	5,689	1.87	0.009	203	232	2,130,831	9,258	3.45	0.015	230
E Distribution - Planned	617,662	3,192	13,298,653	106,917	21.53	0.173	124	3,299	15,216,761	121,375	24.64	0.197	125
F Distribution - Public	617,662	353	7,951,803	59,839	12.87	0.097	133	366	8,389,819	62,584	13.58	0.101	134
G Distribution - Vegetation	617,662	914	16,377,247	94,003	26.51	0.152	174	1,472	49,538,031	129,618	80.20	0.210	382
H Distribution - Weather	617,662	216	3,375,682	17,743	5.47	0.029	190	724	81,353,803	84,459	131.71	0.137	963
I Distribution - Wildlife	617,662	802	2,514,079	22,863	4.07	0.037	110	808	2,524,756	22,982	4.09	0.037	110
J Distribution - Unknown	617,662	796	6,207,698	62,453	10.05	0.101	99	842	8,157,134	74,258	13.21	0.120	110
K Distribution - Other	617,662	231	973,621	14,908	1.58	0.024	65	284	2,795,825	19,774	4.53	0.032	141
Grand Total	617,662	10,002	77,764,262	668,008	125.90	1.082	116	11,696	267,816,401	973,709	433.60	1.576	275

OAR Cause	2020 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	617,333	129	11,351,096	157,078	18.39	0.254	72	217	38,070,885	287,784	61.67	0.466	132
B Loss of Supply - Substation	617,333	15	1,296,634	9,177	2.10	0.015	141	19	2,788,875	13,373	4.52	0.022	209
C Distribution - Equipment	617,333	3,086	12,984,979	90,670	21.03	0.147	143	3,421	18,019,512	109,423	29.19	0.177	165
D Distribution - Lightning	617,333	65	131,200	1,206	0.21	0.002	109	164	2,088,273	6,013	3.38	0.010	347
E Distribution - Planned	617,333	4,586	13,209,282	100,049	21.40	0.162	132	4,853	138,107,823	138,859	223.72	0.225	995
F Distribution - Public	617,333	442	12,711,604	79,546	20.59	0.129	160	475	14,391,245	88,684	23.31	0.144	162
G Distribution - Vegetation	617,333	920	12,991,558	92,038	21.04	0.149	141	1,595	50,451,924	154,242	81.73	0.250	327
H Distribution - Weather	617,333	167	2,590,978	18,273	4.20	0.030	132	764	47,500,323	151,750	76.94	0.246	313
I Distribution - Wildlife	617,333	956	3,614,105	34,932	5.85	0.057	103	1,069	3,820,365	36,536	6.19	0.059	105
J Distribution - Unknown	617,333	809	4,858,982	63,074	7.87	0.102	77	909	5,554,994	67,607	9.00	0.110	82
K Distribution - Other	617,333	269	1,977,895	26,063	3.20	0.042	76	392	29,380,754	43,294	47.59	0.070	679
Grand Total	617,333	11,444	77,718,312	672,106	125.89	1.089	116	13,878	350,174,974	1,097,565	567.24	1.778	319

OAR Cause	2021 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	623,412	112	4,957,564	134,134	7.88	0.213	37	157	9,569,219	192,385	15.21	0.306	50
B Loss of Supply - Substation	623,412	27	1,991,671	42,617	3.17	0.068	47	142	10,203,423	195,219	16.22	0.310	52
C Distribution - Equipment	623,412	2,812	17,110,003	100,358	27.20	0.160	170	3,211	20,369,734	117,020	32.38	0.186	174
D Distribution - Lightning	623,412	68	363,538	1,758	0.58	0.003	207	70	386,087	1,829	0.61	0.003	211
E Distribution - Planned	623,412	4,653	15,391,625	136,062	24.47	0.216	113	4,938	22,677,038	163,254	36.05	0.260	139
F Distribution - Public	623,412	447	13,195,237	70,668	20.98	0.112	187	472	13,576,227	72,693	21.58	0.116	187
G Distribution - Vegetation	623,412	1,010	14,560,351	77,724	23.15	0.124	187	2,263	126,130,900	198,963	200.52	0.316	634
H Distribution - Weather	623,412	246	1,771,848	9,358	2.82	0.015	189	897	75,952,683	95,902	120.75	0.152	792
I Distribution - Wildlife	623,412	936	2,302,202	27,927	3.66	0.044	82	963	2,420,648	29,005	3.85	0.046	83
J Distribution - Unknown	623,412	927	4,429,144	45,550	7.04	0.072	97	1,035	6,826,446	53,988	10.85	0.086	126
K Distribution - Other	623,412	359	1,152,255	17,655	1.83	0.028	65	429	5,554,360	24,141	8.83	0.038	230
Fire Mitigation	623,412	46	2,915,495	17,470	4.63	0.028	167	50	3,649,082	21,075	5.80	0.034	173
Grand Total	623,412	11,444	77,718,312	672,106	123.55	1.068	116	13,878	350,174,974	1,097,565	556.69	1.745	319

Oregon Five-Year Cause Analysis by State

OAR Cause	2022 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	629,028	138	2,860,424	23,431	4.55	0.04	122	282	5,473,054	49,483	8.70	0.08	111
B Loss of Supply - Substation	629,028	76	1,917,290	12,750	3.05	0.02	150	86	1,988,561	14,180	3.16	0.02	140
C Distribution - Equipment	629,028	3,233	52,362,973	283,245	83.24	0.45	185	3,495	56,679,592	308,570	90.11	0.49	184
D Distribution - Lightning	629,028	90	1,131,764	12,021	1.80	0.02	94	125	1,270,397	12,768	2.02	0.02	99
E Distribution - Planned	629,028	497	11,024,332	48,414	17.53	0.08	228	540	11,311,429	51,801	17.98	0.08	218
F Distribution - Public	629,028	503	13,787,043	71,405	21.92	0.11	193	519	14,044,387	76,664	22.33	0.12	183
G Distribution - Vegetation	629,028	957	24,814,833	122,552	39.45	0.19	202	1,773	47,089,215	238,861	74.86	0.38	197
H Distribution - Weather	629,028	223	3,964,430	23,893	6.30	0.04	166	674	14,489,268	85,671	23.03	0.14	169
I Distribution - Wildlife	629,028	915	13,638,751	65,024	21.68	0.10	210	931	13,989,076	68,646	22.24	0.11	204
J Distribution - Unknown	629,028	992	14,354,355	73,279	22.82	0.12	196	1,110	16,084,634	85,607	25.57	0.14	188
K Distribution - Other	629,028	325	4,599,562	25,633	7.31	0.04	179	359	5,135,089	35,426	8.16	0.06	145
Fire Mitigation	629,028	62	4,364,229	43,020	6.94	0.07	101	82	5,784,813	54,397	9.20	0.09	106
Grand Total	629,028	8,011	148,819,987	804,667	236.59	1.279	185	9,976	193,339,516	1,082,074	307.36	1.720	179



Central Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2018 - Central Oregon Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	82,083	20	443,138	28,274	5.40	0.344	16	35	2,541,998	55,179	30.97	0.672	46
B Loss of Supply - Substation	82,083	-	-	-	-	-	-	-	-	-	-	-	-
C Distribution - Equipment	82,083	318	1,565,745	8,326	19.08	0.101	188	321	1,664,421	9,458	20.28	0.115	176
D Distribution - Lightning	82,083	22	37,474	174	0.46	0.002	215	23	37,628	175	0.46	0.002	215
E Distribution - Planned	82,083	96	301,427	4,505	3.67	0.055	67	97	302,522	4,535	3.69	0.055	67
F Distribution - Public	82,083	33	241,290	4,115	2.94	0.050	59	34	242,131	4,119	2.95	0.050	59
G Distribution - Vegetation	82,083	42	70,004	624	0.85	0.008	112	45	70,597	628	0.86	0.008	112
H Distribution - Weather	82,083	11	249,596	1,565	3.04	0.019	159	15	294,304	1,884	3.59	0.023	156
I Distribution - Wildlife	82,083	87	166,096	1,350	2.02	0.016	123	97	1,496,586	11,334	18.23	0.138	132
J Distribution - Unknown	82,083	80	284,981	3,493	3.47	0.043	82	82	286,355	3,507	3.49	0.043	82
K Distribution - Other	82,083	14	39,291	79	0.48	0.001	497	16	39,291	79	0.48	0.001	497
Grand Total	82,083	723	3,399,041	52,505	41.41	0.640	65	765	6,975,832	90,898	84.99	1.107	77

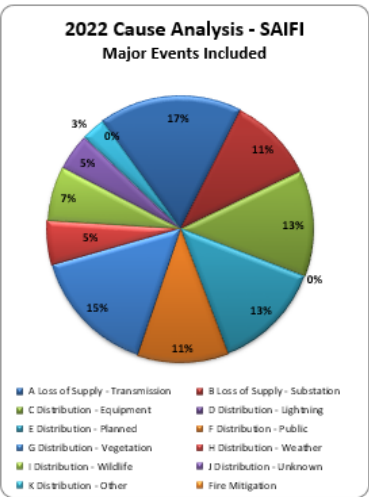
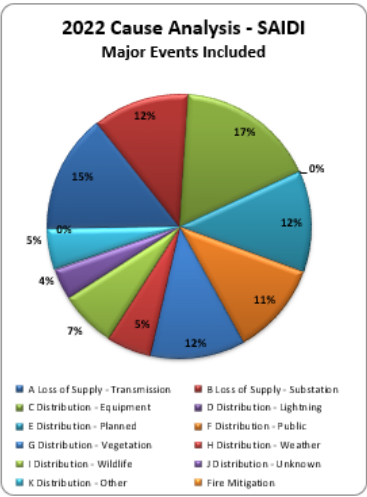
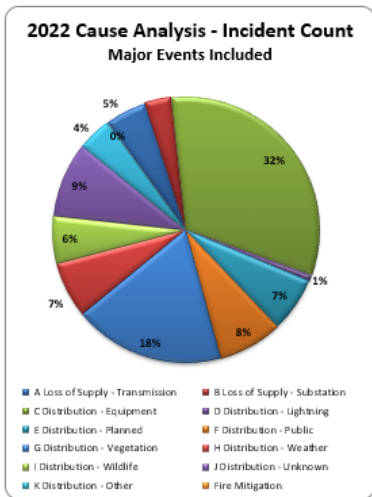
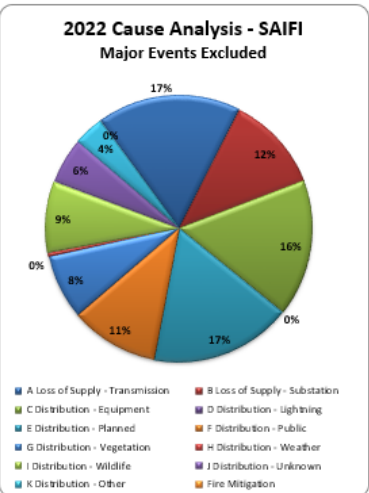
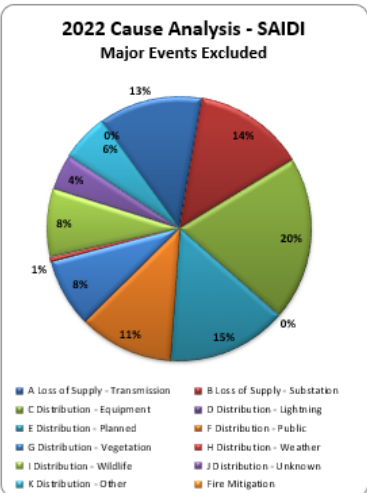
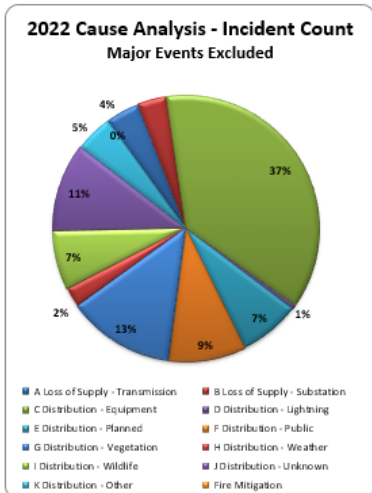
OAR Cause	2019 - Central Oregon Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	84,807	1	237	1	0.00	0.000	237	34	2,897,811	43,515	34.17	0.513	67
B Loss of Supply - Substation	84,807	-	-	-	-	-	-	-	-	-	-	-	-
C Distribution - Equipment	84,807	376	1,534,952	9,519	18.10	0.112	161	413	1,657,971	10,186	19.55	0.120	163
D Distribution - Lightning	84,807	27	253,286	1,227	2.99	0.014	206	57	1,228,415	4,796	14.48	0.057	256
E Distribution - Planned	84,807	119	1,161,191	7,670	13.69	0.090	151	124	1,164,810	7,725	13.73	0.091	151
F Distribution - Public	84,807	33	250,579	2,475	2.95	0.029	101	35	253,953	2,490	2.99	0.029	102
G Distribution - Vegetation	84,807	23	76,126	431	0.90	0.005	177	42	310,416	2,475	3.66	0.029	125
H Distribution - Weather	84,807	8	37,400	141	0.44	0.002	265	15	201,614	1,556	2.38	0.018	130
I Distribution - Wildlife	84,807	59	265,218	1,830	3.13	0.022	145	60	266,186	1,841	3.14	0.022	145
J Distribution - Unknown	84,807	47	60,139	491	0.71	0.006	122	55	302,294	2,468	3.56	0.029	122
K Distribution - Other	84,807	18	43,803	2,411	0.52	0.028	18	18	43,803	2,411	0.52	0.028	18
Grand Total	84,807	711	3,682,930	26,196	43.43	0.309	141	853	8,327,273	79,463	98.19	0.937	105

OAR Cause	2020 - Central Oregon Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	84,563	1	317,579	982	3.76	0.012	323	4	3,988,828	6,197	47.17	0.073	644
B Loss of Supply - Substation	84,563	-	-	-	-	-	-	-	-	-	-	-	-
C Distribution - Equipment	84,563	306	1,412,552	6,739	16.70	0.080	210	343	2,232,911	10,195	26.41	0.121	219
D Distribution - Lightning	84,563	19	18,933	175	0.22	0.002	108	28	192,756	334	2.28	0.004	577
E Distribution - Planned	84,563	336	1,080,090	10,813	12.77	0.128	100	356	1,120,178	12,012	13.25	0.142	93
F Distribution - Public	84,563	46	778,277	6,716	9.20	0.079	116	53	1,856,853	10,573	21.96	0.125	176
G Distribution - Vegetation	84,563	32	67,848	414	0.80	0.005	164	72	3,313,299	7,677	39.18	0.091	432
H Distribution - Weather	84,563	12	39,065	315	0.46	0.004	124	57	6,654,735	7,895	78.70	0.093	843
I Distribution - Wildlife	84,563	89	48,332	537	0.57	0.006	90	92	49,029	544	0.58	0.006	90
J Distribution - Unknown	84,563	58	308,623	3,283	3.65	0.039	94	61	349,438	3,585	4.13	0.042	97
K Distribution - Other	84,563	34	463,740	2,066	5.48	0.024	224	39	464,812	2,078	5.50	0.025	224
Grand Total	84,563	933	4,535,040	32,040	53.63	0.379	142	1,105	20,222,841	61,090	239.15	0.722	331

Central Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - Central Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	87,425	1	21,846	996	0.25	0.011	22	9	644,546	13,344	7.37	0.153	48	
B Loss of Supply - Substation	87,425	6	383,828	6,786	4.39	0.078	-	7	849,567	9,723	9.72	0.111	-	
C Distribution - Equipment	87,425	305	1,637,048	9,162	18.73	0.105	179	348	2,358,135	12,519	26.97	0.143	188	
D Distribution - Lightning	87,425	10	2,730	16	0.03	0.000	171	12	25,279	87	0.29	0.001	291	
E Distribution - Planned	87,425	440	2,866,748	17,095	32.79	0.196	168	453	3,082,960	17,925	35.26	0.205	172	
F Distribution - Public	87,425	49	1,165,539	7,337	13.33	0.084	159	55	1,205,622	7,565	13.79	0.087	159	
G Distribution - Vegetation	87,425	28	174,088	670	1.99	0.008	260	46	3,922,578	6,339	44.87	0.073	619	
H Distribution - Weather	87,425	16	104,897	738	1.20	0.008	142	32	1,416,193	3,650	16.20	0.042	388	
I Distribution - Wildlife	87,425	95	524,193	8,001	6.00	0.092	66	97	524,579	8,005	6.00	0.092	66	
J Distribution - Unknown	87,425	68	212,976	1,371	2.44	0.016	155	81	633,054	3,885	7.24	0.044	163	
K Distribution - Other	87,425	21	229,256	1,494	2.62	0.017	153	24	457,091	2,077	5.23	0.024	220	
Fire Mitigation	87,425	4	686,737	3,839	7.86	0.044	179	7	1,192,697	6,179	13.64	0.077	178	
Grand Total	87,425	1,043	8,009,884	57,505	91.62	0.658	139	1,171	16,312,302	91,838	186.59	1.050	178	

OAR Cause	2022 - Central Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	88,613	29	1,031,577	12,980	11.64	0.15	79	44	1,415,830	16,884	15.98	0.19	84	
B Loss of Supply - Substation	88,613	25	1,098,936	8,788	12.40	0.10	125	28	1,147,420	10,110	12.95	0.11	113	
C Distribution - Equipment	88,613	261	1,622,664	12,313	18.31	0.14	132	281	1,662,393	12,554	18.76	0.14	132	
D Distribution - Lightning	88,613	4	3,103	24	0.04	0.00	129	7	3,286	26	0.04	0.00	126	
E Distribution - Planned	88,613	52	1,194,323	12,837	13.48	0.14	93	58	1,206,654	12,959	13.62	0.15	93	
F Distribution - Public	88,613	66	931,237	7,995	10.51	0.09	116	68	1,114,458	10,732	12.58	0.12	104	
G Distribution - Vegetation	88,613	92	674,736	5,832	7.61	0.07	116	160	1,126,957	14,940	12.72	0.17	75	
H Distribution - Weather	88,613	17	44,077	351	0.50	0.00	126	60	533,715	5,156	6.02	0.06	104	
I Distribution - Wildlife	88,613	50	670,952	6,471	7.57	0.07	104	50	670,952	6,471	7.57	0.07	-	
J Distribution - Unknown	88,613	76	354,660	4,171	4.00	0.05	85	80	366,038	4,321	4.13	0.05	85	
K Distribution - Other	88,613	32	467,602	2,716	5.28	0.03	172	36	487,425	2,813	5.50	0.03	173	
Fire Mitigation	88,613	-	-	-	-	-	-	-	-	-	-	-	-	
Grand Total	88,613	704	8,093,868	74,478	91.34	0.840	109	872	9,735,130	96,966	109.86	1.094	100	



CoastPlus Reporting Region Five-Year Cause Analysis

OAR Cause	2018 - CoastPlus Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	153,751	65	2,912,493	74,715	18.94	0.486	39	69	4,870,107	84,674	31.68	0.551	58
B Loss of Supply - Substation	153,751	-	-	-	-	-	-	1	194,654	1,071	1.27	0.007	182
C Distribution - Equipment	153,751	763	2,658,320	21,336	17.29	0.139	125	792	3,586,763	23,820	23.33	0.155	151
D Distribution - Lightning	153,751	14	27,593	110	0.18	0.001	251	14	27,593	110	0.18	0.001	251
E Distribution - Planned	153,751	481	7,634,839	34,849	49.66	0.227	219	488	7,730,580	35,614	50.28	0.232	217
F Distribution - Public	153,751	63	1,331,852	6,185	8.66	0.040	215	65	1,338,166	6,216	8.70	0.040	215
G Distribution - Vegetation	153,751	338	2,740,342	19,573	17.82	0.127	140	419	8,457,684	40,927	55.01	0.266	207
H Distribution - Weather	153,751	47	799,281	4,121	5.20	0.027	194	100	2,918,617	10,513	18.98	0.068	278
I Distribution - Wildlife	153,751	99	314,522	3,154	2.05	0.021	100	99	314,522	3,154	2.05	0.021	100
J Distribution - Unknown	153,751	87	717,843	7,421	4.67	0.048	97	91	868,699	7,587	5.65	0.049	114
K Distribution - Other	153,751	53	1,067,465	8,335	6.94	0.054	128	54	1,069,309	8,336	6.95	0.054	128
Grand Total	153,751	2,010	20,204,551	179,799	131.41	1.169	112	2,192	31,376,693	222,022	204.07	1.444	141

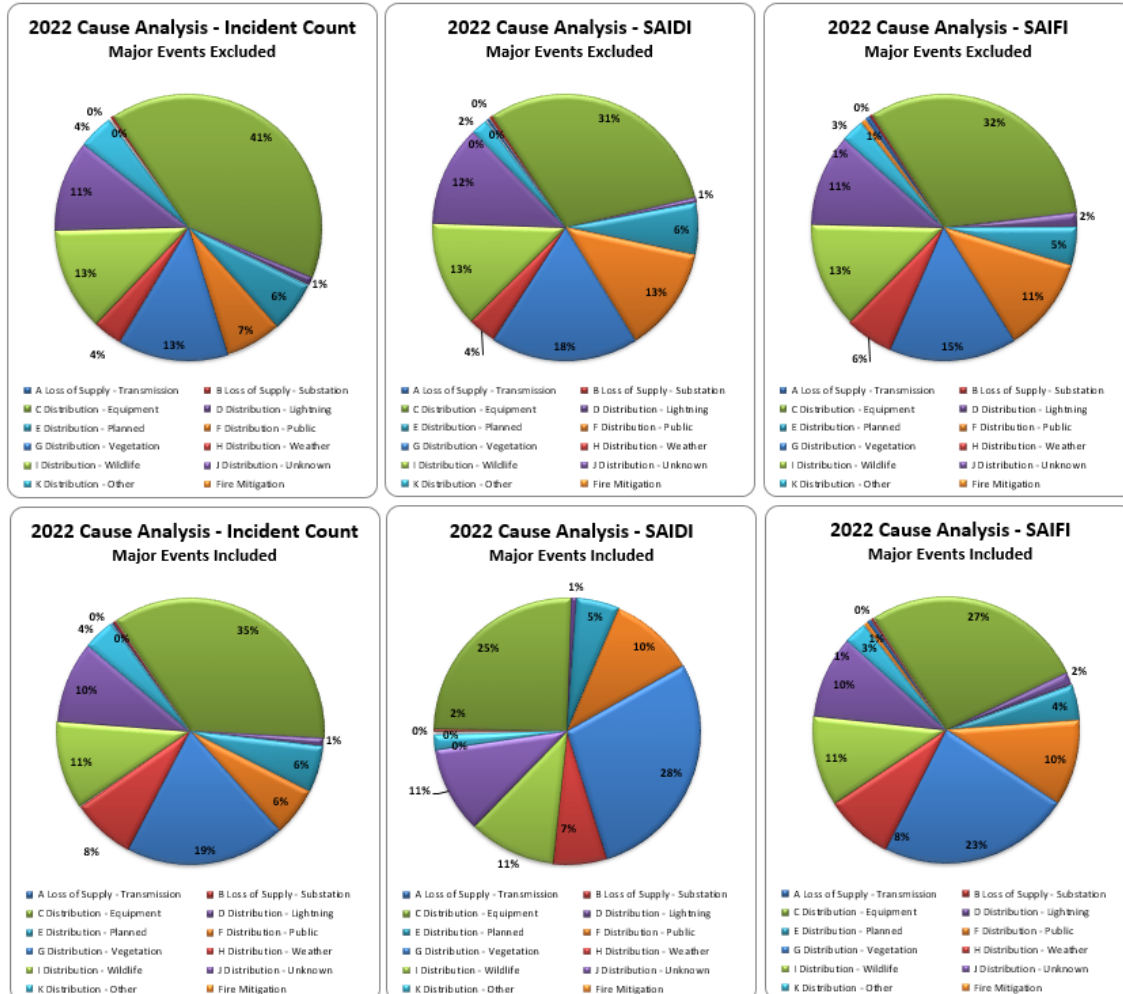
OAR Cause	2019 - CoastPlus Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	156,232	65	2,912,493	74,715	18.64	0.478	39	65	3,144,203	80,837	20.13	0.517	39
B Loss of Supply - Substation	156,232	-	-	-	-	-	-	12	4,817,144	21,842	30.83	0.140	221
C Distribution - Equipment	156,232	763	2,658,320	21,336	17.02	0.137	125	821	5,859,739	35,834	37.51	0.229	164
D Distribution - Lightning	156,232	14	27,593	110	0.18	0.001	251	14	78,416	345	0.50	0.002	227
E Distribution - Planned	156,232	481	7,634,839	34,849	48.87	0.223	219	653	6,571,881	43,778	42.06	0.280	150
F Distribution - Public	156,232	63	1,331,852	6,185	8.52	0.040	215	67	1,892,691	12,120	12.11	0.078	156
G Distribution - Vegetation	156,232	338	2,740,342	19,573	17.54	0.125	140	372	6,972,735	28,906	44.63	0.185	241
H Distribution - Weather	156,232	47	799,281	4,121	5.12	0.026	194	98	3,522,477	14,588	22.55	0.093	241
I Distribution - Wildlife	156,232	99	314,522	3,154	2.01	0.020	100	108	789,529	4,962	5.05	0.032	159
J Distribution - Unknown	156,232	87	717,843	7,421	4.59	0.047	97	95	1,424,702	16,717	9.12	0.107	85
K Distribution - Other	156,232	53	1,067,465	8,335	6.83	0.053	128	47	178,479	4,355	1.14	0.028	41
Grand Total	156,232	2,010	20,204,551	179,799	129.32	1.151	112	2,352	35,251,996	264,284	225.64	1.692	133

OAR Cause	2020 - CoastPlus Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	157,189	43	2,571,426	75,441	16.36	0.480	34	81	12,574,356	137,438	80.00	0.874	91
B Loss of Supply - Substation	157,189	-	-	-	-	-	-	2	738,370	991	4.70	0.006	745
C Distribution - Equipment	157,189	766	3,263,393	29,436	20.76	0.187	111	822	3,870,450	32,357	24.62	0.206	120
D Distribution - Lightning	157,189	8	36,634	459	0.23	0.003	80	11	53,086	465	0.34	0.003	114
E Distribution - Planned	157,189	833	3,050,080	24,282	19.40	0.154	126	877	31,847,588	34,434	202.61	0.219	925
F Distribution - Public	157,189	108	2,263,278	14,813	14.40	0.094	153	115	2,496,941	18,202	15.88	0.116	137
G Distribution - Vegetation	157,189	297	4,805,105	33,413	30.57	0.213	144	458	10,426,274	55,196	66.33	0.351	189
H Distribution - Weather	157,189	41	823,032	3,971	5.24	0.025	207	100	8,069,226	22,502	51.33	0.143	359
I Distribution - Wildlife	157,189	95	715,713	9,044	4.55	0.058	79	101	726,824	9,088	4.62	0.058	80
J Distribution - Unknown	157,189	100	728,075	7,734	4.63	0.049	94	117	781,370	8,099	4.97	0.052	96
K Distribution - Other	157,189	51	359,441	5,429	2.29	0.035	66	87	20,008,230	16,905	127.29	0.108	1,184
Grand Total	157,189	2,342	18,616,177	204,022	118.43	1.298	91	2,771	91,592,715	335,677	582.69	2.135	273

CoastPlus Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - CoastPlus Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	158,938	11	528,405	14,366	3.32	0.090	37	34	2,860,341	43,214	18.00	0.272	66	
B Loss of Supply - Substation	158,938	7	273,000	13,369	1.72	0.084	-	15	1,297,683	22,432	8.16	0.141	58	
C Distribution - Equipment	158,938	723	6,800,111	34,635	42.78	0.218	196	864	7,959,859	39,013	50.08	0.245	204	
D Distribution - Lightning	158,938	1	41	1	0.00	0.000	41	1	41	1	0.00	0.000	41	
E Distribution - Planned	158,938	891	3,529,703	40,432	22.21	0.254	87	951	6,319,495	52,513	39.76	0.330	120	
F Distribution - Public	158,938	101	2,817,858	16,908	17.73	0.106	167	108	2,828,425	16,944	17.80	0.107	167	
G Distribution - Vegetation	158,938	285	4,291,237	27,792	27.00	0.175	154	571	21,520,389	70,109	135.40	0.441	307	
H Distribution - Weather	158,938	65	381,409	2,852	2.40	0.018	134	191	25,554,201	46,411	160.78	0.292	551	
I Distribution - Wildlife	158,938	98	526,241	7,477	3.31	0.047	70	103	550,876	7,708	3.47	0.048	71	
J Distribution - Unknown	158,938	124	818,156	7,419	5.15	0.047	110	145	1,340,440	9,652	8.43	0.061	139	
K Distribution - Other	158,938	92	91,333	658	0.57	0.004	139	122	3,569,309	3,343	22.46	0.021	1,068	
Fire Mitigation	158,938	7	253,415	3,557	1.59	0.022	71	7	253,415	3,557	1.59	0.022	71	
Grand Total	158,938	2,405	20,310,908	169,466	127.79	1.066	120	3,112	74,054,474	314,897	465.93	1.981	235	

OAR Cause	2022 - CoastPlus Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	160,532	5	184,900	1,725	1.15	0.01	107	7	186,408	1,735	1.16	0.01	107	
B Loss of Supply - Substation	160,532	8	244,201	922	1.52	0.01	265	8	244,201	922	1.52	0.01	-	
C Distribution - Equipment	160,532	845	17,654,453	85,954	109.97	0.54	205	866	17,826,166	86,397	111.04	0.54	206	
D Distribution - Lightning	160,532	21	369,135	4,607	2.30	0.03	80	25	480,813	4,912	3.00	0.03	98	
E Distribution - Planned	160,532	130	3,629,948	12,490	22.61	0.08	291	138	3,695,458	13,760	23.02	0.09	269	
F Distribution - Public	160,532	143	7,373,105	30,673	45.93	0.19	240	145	7,420,294	33,070	46.22	0.21	224	
G Distribution - Vegetation	160,532	278	10,289,802	41,140	64.10	0.26	250	478	20,108,363	73,921	125.26	0.46	272	
H Distribution - Weather	160,532	75	2,035,544	15,656	12.68	0.10	130	190	4,602,485	26,294	28.67	0.16	175	
I Distribution - Wildlife	160,532	260	7,457,449	34,543	46.45	0.22	216	264	7,486,670	34,708	46.64	0.22	216	
J Distribution - Unknown	160,532	231	7,063,358	29,826	44.00	0.19	237	244	7,430,270	32,085	46.29	0.20	232	
K Distribution - Other	160,532	88	1,150,606	7,656	7.17	0.05	150	94	1,256,108	8,859	7.82	0.06	142	
Fire Mitigation	160,532	2	128,041	1,500	0.80	0.01	-	2	128,041	1,500	0.80	0.01	-	
Grand Total	160,532	2,086	57,580,541	266,692	358.69	1.661	216	2,461	70,865,277	318,163	441.44	1.982	223	



Northeast Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2018 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	24,935	33	838,895	21,685	33.64	0.870	39	34	866,092	22,061	34.73	0.885	39	
B Loss of Supply - Substation	24,935	2	68,637	1,396	2.75	0.056	49	2	68,637	1,396	2.75	0.056	49	
C Distribution - Equipment	24,935	192	730,473	3,740	29.30	0.150	195	202	1,515,877	5,160	60.79	0.207	294	
D Distribution - Lightning	24,935	25	27,466	120	1.10	0.005	229	25	27,466	120	1.10	0.005	229	
E Distribution - Planned	24,935	35	700,713	9,566	28.10	0.384	73	35	700,713	9,566	28.10	0.384	73	
F Distribution - Public	24,935	31	605,619	3,225	24.29	0.129	188	31	605,619	3,225	24.29	0.129	188	
G Distribution - Vegetation	24,935	44	164,592	672	6.60	0.027	245	49	174,555	697	7.00	0.028	250	
H Distribution - Weather	24,935	15	38,004	216	1.52	0.009	176	18	67,868	611	2.72	0.025	111	
I Distribution - Wildlife	24,935	81	59,201	605	2.37	0.024	98	81	59,201	605	2.37	0.024	98	
J Distribution - Unknown	24,935	102	179,359	1,497	7.19	0.060	120	106	194,684	1,649	7.81	0.066	118	
K Distribution - Other	24,935	10	301,581	1,850	12.09	0.074	163	10	301,581	1,850	12.09	0.074	163	
Grand Total	24,935	570	3,714,540	44,572	148.97	1.788	83	593	4,582,293	46,940	183.77	1.882	98	

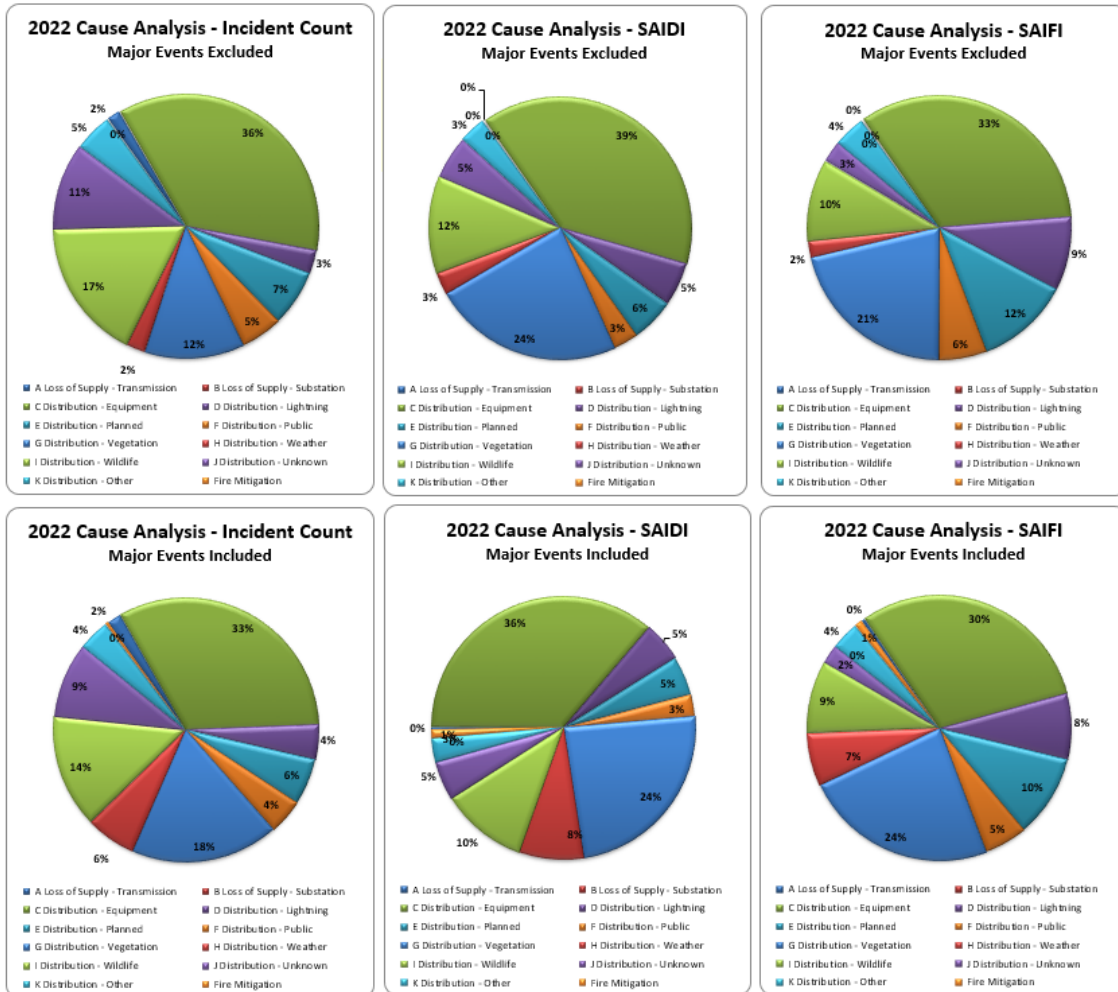
OAR Cause	2019 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	25,258	7	257,401	2,084	10.19	0.083	124	7	257,401	2,084	10.19	0.083	124	
B Loss of Supply - Substation	25,258	-	-	-	-	-	-	-	-	-	-	-	-	
C Distribution - Equipment	25,258	257	729,622	4,312	28.89	0.171	169	262	854,638	4,518	33.84	0.179	189	
D Distribution - Lightning	25,258	32	68,549	486	2.71	0.019	141	32	68,549	486	2.71	0.019	141	
E Distribution - Planned	25,258	54	493,300	2,900	19.53	0.115	170	54	493,300	2,900	19.53	0.115	170	
F Distribution - Public	25,258	15	400,017	2,614	15.84	0.103	153	15	400,017	2,614	15.84	0.103	153	
G Distribution - Vegetation	25,258	27	130,017	630	5.15	0.025	206	30	185,750	836	7.35	0.033	222	
H Distribution - Weather	25,258	27	190,182	759	7.53	0.030	251	28	202,405	788	8.01	0.031	257	
I Distribution - Wildlife	25,258	80	65,542	534	2.59	0.021	123	80	65,542	534	2.59	0.021	123	
J Distribution - Unknown	25,258	64	169,271	1,902	6.70	0.075	89	64	169,271	1,902	6.70	0.075	89	
K Distribution - Other	25,258	7	61,546	111	2.44	0.004	554	7	61,546	111	2.44	0.004	554	
Grand Total	25,258	570	2,565,447	16,332	101.57	0.647	157	579	2,758,419	16,773	109.21	0.664	164	

OAR Cause	2020 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	25,560	5	88,111	3,188	3.45	0.125	28	15	1,016,302	10,576	39.76	0.414	96	
B Loss of Supply - Substation	25,560	2	26,713	1,991	1.05	0.078	13	2	26,713	1,991	1.05	0.078	13	
C Distribution - Equipment	25,560	248	932,302	5,530	36.48	0.216	169	289	1,197,281	8,049	46.84	0.315	149	
D Distribution - Lightning	25,560	10	5,052	29	0.20	0.001	174	24	329,959	245	12.91	0.010	1,347	
E Distribution - Planned	25,560	194	390,991	4,869	15.30	0.190	80	211	493,057	6,605	19.29	0.258	75	
F Distribution - Public	25,560	18	194,736	1,854	7.62	0.073	105	24	216,942	1,927	8.49	0.075	113	
G Distribution - Vegetation	25,560	40	326,541	4,244	12.78	0.166	77	88	1,421,314	7,923	55.61	0.310	179	
H Distribution - Weather	25,560	42	258,488	1,051	10.11	0.041	246	84	1,766,273	5,348	69.10	0.209	330	
I Distribution - Wildlife	25,560	104	80,323	786	3.14	0.031	102	120	90,120	884	3.53	0.035	102	
J Distribution - Unknown	25,560	92	291,791	4,784	11.42	0.187	61	97	300,872	4,826	11.77	0.189	62	
K Distribution - Other	25,560	26	93,062	1,476	3.64	0.058	63	28	119,040	1,503	4.66	0.059	79	
Grand Total	25,560	781	2,688,110	29,802	105.17	1.166	90	982	6,977,873	49,877	273.00	1.951	140	

Northeast Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	25,793	3	14,738	1,798	0.57	0.070	8	8	719,318	4,620	27.89	0.179	156	
B Loss of Supply - Substation	25,793	3	137,969	1,962	5.35	0.076	70	3	137,969	1,962	5.35	0.076	70	
C Distribution - Equipment	25,793	163	1,062,350	7,243	41.19	0.281	147	182	1,131,896	7,557	43.88	0.293	150	
D Distribution - Lightning	25,793	9	55,351	102	2.15	0.004	543	9	55,351	102	2.15	0.004	543	
E Distribution - Planned	25,793	190	1,333,883	13,162	51.71	0.510	101	197	1,342,050	13,205	52.03	0.512	102	
F Distribution - Public	25,793	22	168,171	1,125	6.52	0.044	149	24	290,184	1,823	11.25	0.071	159	
G Distribution - Vegetation	25,793	40	258,742	1,257	10.03	0.049	206	54	316,130	1,562	12.26	0.061	202	
H Distribution - Weather	25,793	36	209,573	820	8.13	0.032	256	69	410,044	1,707	15.90	0.066	240	
I Distribution - Wildlife	25,793	97	99,838	1,139	3.87	0.044	88	99	99,937	1,141	3.87	0.044	88	
J Distribution - Unknown	25,793	87	198,337	1,971	7.69	0.076	101	94	202,581	1,997	7.85	0.077	101	
K Distribution - Other	25,793	28	38,566	943	1.50	0.037	41	30	39,154	947	1.52	0.037	41	
Fire Mitigation	25,793	-	-	-	-	-	-	-	-	-	-	-	-	
Grand Total	25,793	678	3,577,519	31,522	138.70	1.222	113	769	4,744,613	36,623	183.95	1.420	130	

OAR Cause	2022 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	25,969	10	19,690	157	0.76	0.01	125	14	33,756	252	1.30	0.01	134	
B Loss of Supply - Substation	25,969	1	5,822	16	0.22	0.00	364	1	5,822	16	0.22	0.00	-	
C Distribution - Equipment	25,969	235	3,541,025	19,387	136.36	0.75	183	265	3,695,058	19,866	142.29	0.76	186	
D Distribution - Lightning	25,969	19	483,962	5,180	18.64	0.20	93	34	498,019	5,281	19.18	0.20	94	
E Distribution - Planned	25,969	45	489,559	6,686	18.85	0.26	73	46	489,847	6,687	18.86	0.26	73	
F Distribution - Public	25,969	33	276,945	3,399	10.66	0.13	81	35	280,568	3,418	10.80	0.13	82	
G Distribution - Vegetation	25,969	79	2,121,571	12,319	81.70	0.47	172	147	2,449,195	15,519	94.31	0.60	158	
H Distribution - Weather	25,969	15	247,538	1,194	9.53	0.05	207	50	805,765	4,201	31.03	0.16	192	
I Distribution - Wildlife	25,969	112	1,084,067	5,828	41.74	0.22	186	113	1,085,907	5,838	41.82	0.22	186	
J Distribution - Unknown	25,969	69	481,700	1,530	18.55	0.06	315	75	485,196	1,541	18.68	0.06	315	
K Distribution - Other	25,969	30	296,796	2,259	11.43	0.09	131	31	296,865	2,260	11.43	0.09	131	
Fire Mitigation	25,969	1	149	1	0.01	0.00	-	3	103,306	603	3.98	0.02	-	
Grand Total	25,969	649	9,048,824	57,956	348.45	2.232	156	814	10,229,304	65,482	393.90	2.522	156	



Southern Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2018 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	224,527	191	5,588,500	210,694	24.89	0.938	27	209	7,982,323	230,644	35.55	1.027	35	
B Loss of Supply - Substation	224,527	5	723,716	4,486	3.22	0.020	161	14	4,322,647	17,752	19.25	0.079	244	
C Distribution - Equipment	224,527	1,180	4,796,929	31,379	21.36	0.140	153	1,215	5,498,426	35,261	24.49	0.157	156	
D Distribution - Lightning	224,527	145	1,549,801	9,035	6.90	0.040	172	145	1,549,801	9,035	6.90	0.040	172	
E Distribution - Planned	224,527	784	2,860,746	25,150	12.74	0.112	114	801	3,163,738	27,179	14.09	0.121	116	
F Distribution - Public	224,527	136	2,528,578	15,767	11.26	0.070	160	137	2,529,407	15,770	11.27	0.070	160	
G Distribution - Vegetation	224,527	273	4,103,349	24,051	18.28	0.107	171	327	6,464,548	32,975	28.79	0.147	196	
H Distribution - Weather	224,527	98	1,023,242	7,140	4.56	0.032	143	132	4,215,541	20,018	18.78	0.089	211	
I Distribution - Wildlife	224,527	308	804,225	8,225	3.58	0.037	98	309	804,278	8,226	3.58	0.037	98	
J Distribution - Unknown	224,527	325	1,773,741	19,299	7.90	0.086	92	329	1,806,284	19,448	8.04	0.087	93	
K Distribution - Other	224,527	79	403,696	5,334	1.80	0.024	76	82	403,947	5,337	1.80	0.024	76	
Grand Total	224,527	3,524	26,156,522	360,560	116.50	1.606	73	3,700	38,740,940	421,645	172.54	1.878	92	

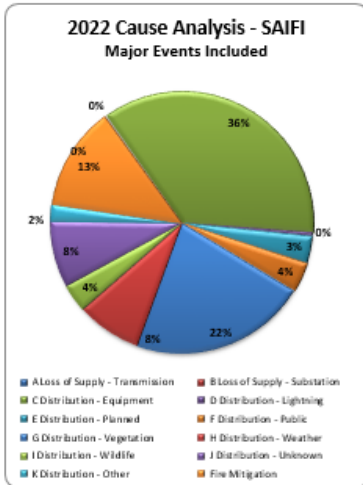
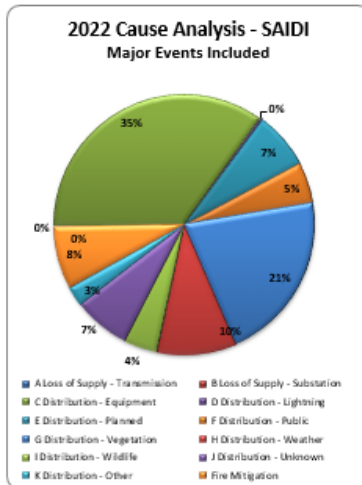
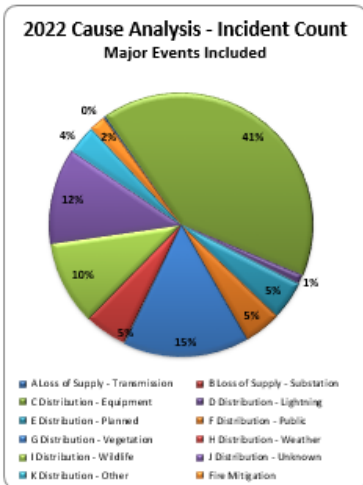
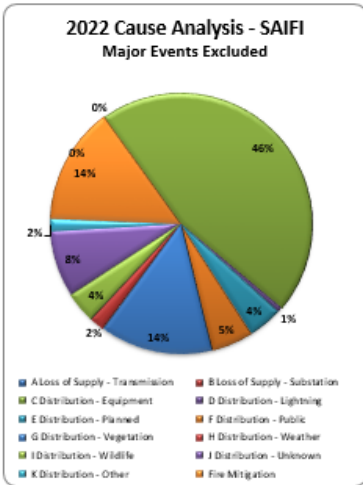
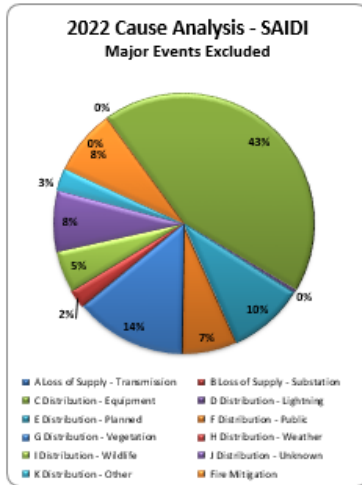
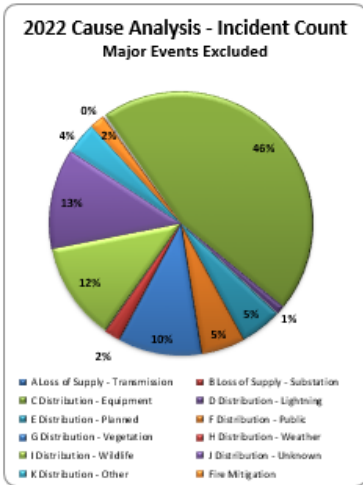
OAR Cause	2019 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	227,158	84	3,890,444	71,847	17.13	0.316	54	166	57,338,706	153,302	252.42	0.675	374	
B Loss of Supply - Substation	227,158	12	1,724,962	12,672	7.59	0.056	136	15	3,998,311	18,770	17.60	0.083	213	
C Distribution - Equipment	227,158	1,166	4,518,301	32,869	19.89	0.145	137	1,266	7,849,286	35,265	34.55	0.155	223	
D Distribution - Lightning	227,158	92	236,664	1,564	1.04	0.007	151	92	236,664	1,564	1.04	0.007	151	
E Distribution - Planned	227,158	1,256	2,955,447	32,556	13.01	0.143	91	1,293	3,531,193	33,591	15.55	0.148	105	
F Distribution - Public	227,158	127	2,698,638	21,441	11.88	0.094	126	132	2,719,859	21,706	11.97	0.096	125	
G Distribution - Vegetation	227,158	365	7,395,254	37,545	32.56	0.165	197	628	32,696,434	54,359	143.94	0.239	601	
H Distribution - Weather	227,158	119	1,881,793	11,052	8.28	0.049	170	444	62,867,546	50,008	276.76	0.220	1,257	
I Distribution - Wildlife	227,158	372	833,469	11,140	3.67	0.049	75	376	840,789	11,227	3.70	0.049	75	
J Distribution - Unknown	227,158	366	2,541,749	25,325	11.19	0.111	100	385	3,268,380	26,661	14.39	0.117	123	
K Distribution - Other	227,158	107	402,334	4,577	1.77	0.020	88	148	2,054,878	8,715	9.05	0.038	236	
Grand Total	227,158	4,066	29,079,055	262,588	128.01	1.156	111	4,945	177,402,047	415,168	780.96	1.828	427	

OAR Cause	2020 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	226,208	76	7,769,837	70,261	34.35	0.311	111	107	16,676,623	110,624	73.72	0.489	151	
B Loss of Supply - Substation	226,208	12	584,440	4,655	2.58	0.021	126	14	1,338,311	7,860	5.92	0.035	170	
C Distribution - Equipment	226,208	1,104	3,759,518	20,556	16.62	0.091	183	1,230	6,564,911	29,450	29.02	0.130	223	
D Distribution - Lightning	226,208	23	67,715	506	0.30	0.002	134	36	135,064	1,141	0.60	0.005	118	
E Distribution - Planned	226,208	1,933	5,094,748	34,352	22.52	0.152	148	2,045	98,610,381	52,836	435.93	0.234	1,866	
F Distribution - Public	226,208	157	5,259,220	29,029	23.25	0.128	181	165	5,374,578	29,346	23.76	0.130	183	
G Distribution - Vegetation	226,208	298	4,929,854	27,182	21.79	0.120	181	590	30,188,522	49,754	133.45	0.220	607	
H Distribution - Weather	226,208	48	1,091,750	9,716	4.83	0.043	112	404	23,998,882	51,804	106.09	0.229	463	
I Distribution - Wildlife	226,208	448	1,508,496	16,210	6.67	0.072	93	509	1,647,857	17,442	7.28	0.077	94	
J Distribution - Unknown	226,208	341	2,047,871	25,253	9.05	0.112	81	389	2,600,507	28,572	11.50	0.126	91	
K Distribution - Other	226,208	105	927,354	13,823	4.10	0.061	67	163	6,689,187	18,957	29.57	0.084	353	
Grand Total	226,208	4,545	33,040,804	251,543	146.06	1.112	131	5,652	193,824,821	397,786	856.84	1.758	487	

Southern Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	225,834	73	3,451,181	78,646	15.28	0.348	44	76	3,864,363	82,009	17.11	0.363	47	
B Loss of Supply - Substation	225,834	2	524,385	880	2.32	0.004	596	107	7,110,007	139,904	31.48	0.619	51	
C Distribution - Equipment	225,834	1,062	5,151,690	28,008	22.81	0.124	184	1,164	5,559,043	30,237	24.62	0.134	184	
D Distribution - Lightning	225,834	48	305,416	1,639	1.35	0.007	186	48	305,416	1,639	1.35	0.007	186	
E Distribution - Planned	225,834	1,761	3,731,070	35,361	16.52	0.157	106	1,841	4,158,055	38,626	18.41	0.171	108	
F Distribution - Public	225,834	129	2,179,521	14,279	9.65	0.063	153	135	2,280,165	14,831	10.10	0.066	154	
G Distribution - Vegetation	225,834	362	6,733,057	28,460	29.81	0.126	237	622	13,371,668	45,384	59.21	0.201	295	
H Distribution - Weather	225,834	103	1,054,849	4,821	4.67	0.021	219	290	5,157,012	14,664	22.84	0.065	352	
I Distribution - Wildlife	225,834	429	931,461	9,198	4.12	0.041	101	444	1,024,191	10,021	4.54	0.044	102	
J Distribution - Unknown	225,834	401	2,196,485	23,334	9.73	0.103	94	440	3,217,517	26,584	14.25	0.118	121	
K Distribution - Other	225,834	139	361,689	5,129	1.60	0.023	71	156	736,390	7,840	3.26	0.035	94	
Fire Mitigation	225,834	32	1,973,391	10,061	8.74	0.045	196	32	1,973,391	10,061	8.74	0.045	196	
Grand Total	225,834	4,541	28,594,196	239,816	126.62	1.062	119	5,355	48,757,219	421,860	215.90	1.868	116	

OAR Cause	2022 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	227,474	7	11,132	68	0.05	0.00	164	11	179,996	739	0.79	0.00	244	
B Loss of Supply - Substation	227,474	4	900	34	0.00	0.00	26	4	900	34	0.00	0.00	-	
C Distribution - Equipment	227,474	1,472	22,732,130	133,245	99.93	0.59	171	1,573	25,060,472	146,359	110.17	0.64	171	
D Distribution - Lightning	227,474	34	222,766	1,884	0.98	0.01	118	43	229,686	1,918	1.01	0.01	120	
E Distribution - Planned	227,474	167	4,943,619	12,119	21.73	0.05	408	182	5,111,052	13,944	22.47	0.06	367	
F Distribution - Public	227,474	172	3,620,290	15,063	15.92	0.07	240	176	3,632,456	15,113	15.97	0.07	240	
G Distribution - Vegetation	227,474	334	7,222,499	40,341	31.75	0.18	179	592	15,244,793	88,868	67.02	0.39	172	
H Distribution - Weather	227,474	64	1,235,656	5,419	5.43	0.02	228	203	6,986,998	32,598	30.72	0.14	214	
I Distribution - Wildlife	227,474	391	2,700,505	11,189	11.87	0.05	241	398	2,989,658	14,369	13.14	0.06	208	
J Distribution - Unknown	227,474	399	3,938,059	23,948	17.31	0.11	164	451	5,121,645	33,192	22.52	0.15	154	
K Distribution - Other	227,474	127	1,466,749	4,392	6.45	0.02	334	137	1,756,898	8,426	7.72	0.04	208	
Fire Mitigation	227,474	59	4,236,040	41,519	18.62	0.18	-	76	5,524,800	51,808	24.29	0.23	-	
Grand Total	227,474	3,230	52,330,344	289,221	230.05	1.271	181	3,846	71,839,353	407,368	315.81	1.791	176	



Willamette Valley Reporting Region Five-Year Cause Analysis

OAR Cause	2018 - Willamette Valley Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	122,166	24	523,543	25,767	4.29	0.211	20	24	523,543	25,767	4.29	0.211	20	
B Loss of Supply - Substation	122,166	-	-	-	-	-	-	-	-	-	-	-	-	
C Distribution - Equipment	122,166	627	2,545,824	25,089	20.84	0.205	101	636	2,655,308	25,403	21.74	0.208	105	
D Distribution - Lightning	122,166	18	83,796	331	0.69	0.003	253	18	83,796	331	0.69	0.003	253	
E Distribution - Planned	122,166	855	4,645,037	40,060	38.02	0.328	116	862	4,659,811	40,207	38.14	0.329	116	
F Distribution - Public	122,166	124	4,949,641	18,573	40.52	0.152	266	125	4,949,799	18,574	40.52	0.152	266	
G Distribution - Vegetation	122,166	251	2,814,275	19,837	23.04	0.162	142	289	3,419,337	21,725	27.99	0.178	157	
H Distribution - Weather	122,166	43	775,579	3,120	6.35	0.026	249	55	921,917	4,049	7.55	0.033	228	
I Distribution - Wildlife	122,166	188	368,064	4,092	3.01	0.033	90	189	368,616	4,108	3.02	0.034	90	
J Distribution - Unknown	122,166	313	1,834,784	25,702	15.02	0.210	71	317	1,874,017	25,891	15.34	0.212	72	
K Distribution - Other	122,166	69	116,471	3,224	0.95	0.026	36	69	116,471	3,224	0.95	0.026	36	
Grand Total	122,166	2,512	18,657,014	165,795	152.72	1.357	113	2,584	19,572,616	169,279	160.21	1.386	116	

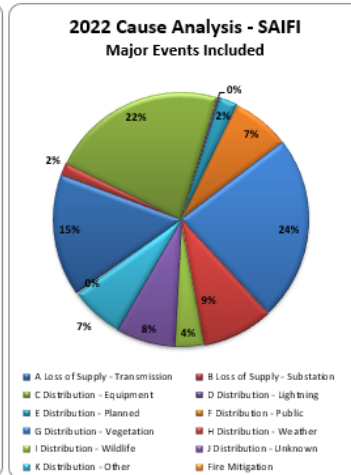
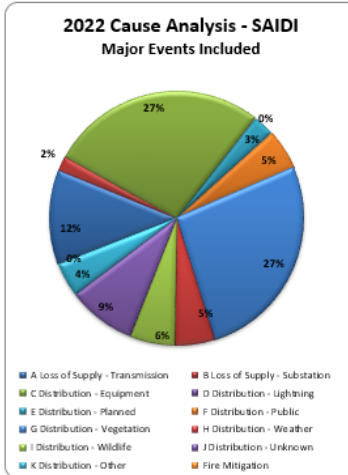
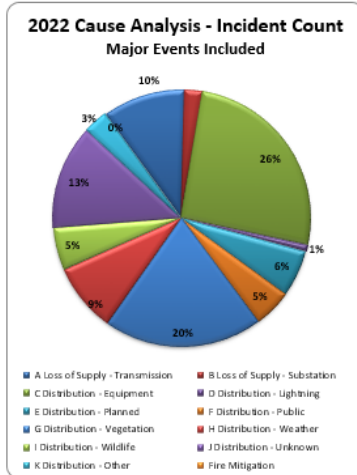
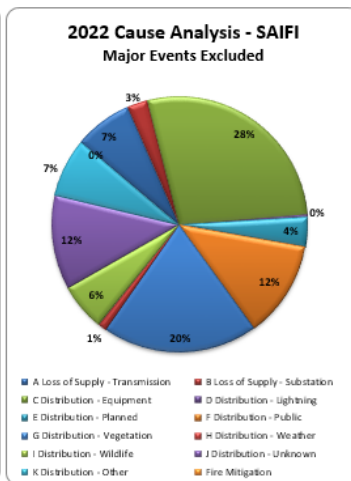
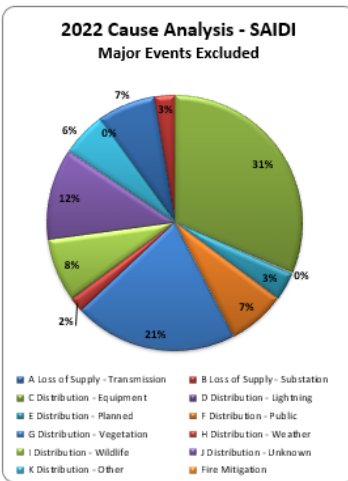
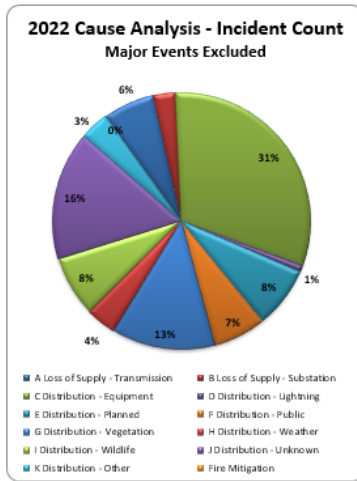
OAR Cause	2019 - Willamette Valley Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	124,207	6	763,494	9,024	6.15	0.073	85	10	5,337,509	13,882	42.97	0.112	384	
B Loss of Supply - Substation	124,207	2	253,285	4,457	2.04	0.036	57	2	253,285	4,457	2.04	0.036	57	
C Distribution - Equipment	124,207	567	3,295,512	24,218	26.53	0.195	136	596	3,443,437	24,909	27.72	0.201	138	
D Distribution - Lightning	124,207	37	518,787	2,067	4.18	0.017	251	37	518,787	2,067	4.18	0.017	251	
E Distribution - Planned	124,207	1,128	2,395,675	26,168	19.29	0.211	92	1,175	3,455,577	33,381	27.82	0.269	104	
F Distribution - Public	124,207	114	3,111,728	23,613	25.05	0.190	132	117	3,123,299	23,654	25.15	0.190	132	
G Distribution - Vegetation	124,207	251	4,688,796	33,495	37.75	0.270	140	400	9,372,696	43,042	75.46	0.347	218	
H Distribution - Weather	124,207	20	328,877	2,364	2.65	0.019	139	139	14,559,760	17,519	117.22	0.141	831	
I Distribution - Wildlife	124,207	183	560,321	4,397	4.51	0.035	127	184	562,710	4,418	4.53	0.036	127	
J Distribution - Unknown	124,207	237	2,742,386	26,113	22.08	0.210	105	243	2,992,487	26,510	24.09	0.213	113	
K Distribution - Other	124,207	60	319,558	3,590	2.57	0.029	89	64	457,119	4,182	3.68	0.034	109	
Grand Total	124,207	2,605	18,978,419	159,506	152.80	1.284	119	2,967	44,076,666	198,021	354.86	1.594	223	

OAR Cause	2020 - Willamette Valley Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	123,813	4	604,142	7,206	4.88	0.058	84	10	3,814,777	22,949	30.81	0.185	166	
B Loss of Supply - Substation	123,813	1	685,481	2,531	5.54	0.020	271	1	685,481	2,531	5.54	0.020	271	
C Distribution - Equipment	123,813	662	3,617,213	28,409	29.22	0.229	127	737	4,153,958	29,372	33.55	0.237	141	
D Distribution - Lightning	123,813	5	2,865	37	0.02	0.000	77	65	1,377,409	3,828	11.12	0.031	360	
E Distribution - Planned	123,813	1,290	3,593,373	25,733	29.02	0.208	140	1,364	6,036,619	32,972	48.76	0.266	183	
F Distribution - Public	123,813	113	4,216,093	27,134	34.05	0.219	155	118	4,445,931	28,636	35.91	0.231	155	
G Distribution - Vegetation	123,813	253	2,862,210	26,785	23.12	0.216	107	387	5,102,514	33,692	41.21	0.272	151	
H Distribution - Weather	123,813	24	378,643	3,220	3.06	0.026	118	119	7,011,208	64,201	56.63	0.519	109	
I Distribution - Wildlife	123,813	220	1,261,242	8,355	10.19	0.067	151	247	1,306,536	8,578	10.55	0.069	152	
J Distribution - Unknown	123,813	218	1,482,621	22,020	11.97	0.178	67	245	1,522,807	22,525	12.30	0.182	68	
K Distribution - Other	123,813	53	134,297	3,269	1.08	0.026	41	75	2,099,485	3,851	16.96	0.031	545	
Grand Total	123,813	2,843	18,838,181	154,699	152.15	1.249	122	3,368	37,556,725	253,135	303.33	2.044	148	

Willamette Valley Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - Willamette Valley Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	125,422	24	941,394	38,328	7.51	0.306	25	30	1,480,651	49,198	11.81	0.392	30	
B Loss of Supply - Substation	125,422	9	672,489	19,620	5.36	0.156	34	10	808,197	21,198	6.44	0.169	38	
C Distribution - Equipment	125,422	559	2,458,804	21,310	19.60	0.170	115	653	3,360,801	27,694	26.80	0.221	121	
D Distribution - Lightning	125,422	-	-	-	-	-	-	-	-	-	-	-	-	
E Distribution - Planned	125,422	1,371	3,930,222	30,012	31.34	0.239	131	1,496	7,774,477	40,985	61.99	0.327	190	
F Distribution - Public	125,422	146	6,864,149	31,019	54.73	0.247	221	150	6,971,831	31,530	55.59	0.251	221	
G Distribution - Vegetation	125,422	295	3,103,227	19,545	24.74	0.156	159	970	87,000,136	75,569	693.66	0.603	1,151	
H Distribution - Weather	125,422	26	21,121	127	0.17	0.001	166	315	43,415,233	29,470	346.15	0.235	1,473	
I Distribution - Wildlife	125,422	217	220,469	2,112	1.76	0.017	104	220	221,066	2,130	1.76	0.017	104	
J Distribution - Unknown	125,422	247	1,003,189	11,455	8.00	0.091	88	275	1,432,854	11,870	11.42	0.095	121	
K Distribution - Other	125,422	79	431,411	9,431	3.44	0.075	46	97	752,416	9,934	6.00	0.079	76	
Fire Mitigation	125,422	3	1,951	13	0.02	0.000	150	4	229,578	738	1.83	0.006	311	
Grand Total	125,422	2,976	19,648,427	182,972	156.66	1.459	107	4,220	153,447,240	300,316	1,223.45	2.394	511	

OAR Cause	2022 - Willamette Valley Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	126,440	87	1,613,125	8,501	12.76	0.07	190	206	3,657,064	29,873	28.92	0.24	122	
B Loss of Supply - Substation	126,440	38	567,432	2,990	4.49	0.02	190	45	590,218	3,098	4.67	0.02	191	
C Distribution - Equipment	126,440	420	6,812,701	32,346	53.88	0.26	211	510	8,435,503	43,394	66.72	0.34	194	
D Distribution - Lightning	126,440	12	52,799	326	0.42	0.00	162	16	58,593	631	0.46	0.00	93	
E Distribution - Planned	126,440	103	766,884	4,282	6.07	0.03	179	116	808,418	4,451	6.39	0.04	182	
F Distribution - Public	126,440	89	1,585,464	14,275	12.54	0.11	111	95	1,596,610	14,331	12.63	0.11	111	
G Distribution - Vegetation	126,440	174	4,506,226	22,920	35.64	0.18	197	396	8,159,909	45,613	64.54	0.36	179	
H Distribution - Weather	126,440	52	401,615	1,273	3.18	0.01	315	171	1,560,305	17,422	12.34	0.14	90	
I Distribution - Wildlife	126,440	102	1,725,778	6,993	13.65	0.06	247	106	1,755,889	7,260	13.89	0.06	242	
J Distribution - Unknown	126,440	217	2,516,578	13,804	19.90	0.11	182	260	2,681,485	14,468	21.21	0.11	185	
K Distribution - Other	126,440	48	1,217,809	8,610	9.63	0.07	141	61	1,337,883	13,068	10.58	0.10	102	
Fire Mitigation	126,440	-	-	-	-	-	-	1	28,575	486	0.23	0.00	-	
Grand Total	126,440	1,342	21,766,411	116,320	172.15	0.920	187	1,983	30,670,452	194,095	242.57	1.535	158	



Oregon 2022 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit ID	Circuit Name	kV	Circuit Customer Count
Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	12.5	2,469
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	12.5	1,314
Central OR	BEND/REDMOND	BEND	5D12	DIVISION ST.	12.5	214
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	12.5	1,427
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	12.5	2,956
Central OR	BEND/REDMOND	BOND STREET	5D413	OLD MILL.	12.5	530
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	12.5	1,374
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	12.5	2,330
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	12.5	1,728
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	12.5	2,522
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	12.5	1,280
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	12.5	1,060
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	12.5	1,505
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	12.5	4,082
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	12.5	975
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	12.5	1,207
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	20.8	1,836
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	20.8	820
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	12.5	1,143
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	12.5	1,033
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	12.5	1,515
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	12.5	1,962
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	12.5	2,722
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	12.5	1,794
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	12.5	1,449
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	12.5	893
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	12.5	1,584
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	12.5	2,447
Central OR	BEND/REDMOND	PILOT BUTTE	5D265	DOBBIN	12.5	1,823
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	12.5	847
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	12.5	1,580
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	12.5	890
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	12.5	1,561
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	12.5	3,331
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	12.5	1,303
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	12.5	424
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	12.5	2,533
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	12.5	1,584
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	12.5	2,929
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	12.5	2,481
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	12.5	395
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	12.5	2,902
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	12.5	149
Central OR	MADRAS	CULVER	5D5	CULVER	12.5	1,860
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	12.5	1,074
Central OR	MADRAS	MADRAS	5D53	AGATE	12.5	1,385
Central OR	MADRAS	MADRAS	5D57	QUARTZ	12.5	1,482
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	12.5	1,286
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	12.5	679
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	12.5	886
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	12.5	2,776

Oregon 2022 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit ID	Circuit Name	kV	Circuit Customer Count
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	12.5	1,009
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	12.5	1,096
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	12.5	635
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	12.5	903
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	12.5	1,642
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	20.8	991
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	12.5	1,640
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	12.5	1,221
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	12.5	272
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	12.5	387
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	12.5	738
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	12.5	937
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	12.5	2,402
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	12.5	1,620
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	12.5	1,238
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	12.5	3,483
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	12.5	273
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	12.5	2,293
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	12.5	1,761
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	12.5	1,182
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	12.5	1,195
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	12.5	1,005
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	12.5	327
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	12.5	940
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	12.5	1,103
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	12.5	1,408
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	20.8	769
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	20.8	1,369
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	20.8	1,684
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	20.8	1,561
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	20.8	148
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C108	EMPIRE	20.8	1,758
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C89	SCOTT	20.8	1,443
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C90	CHARLESTON	20.8	2,107
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C11	WEYCO#2	12.5	1
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	12.5	32
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C48	CITY CENTER	20.8	1,499
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C49	EASTSIDE	20.8	778
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C5	GEORGIA-PAC	20.8	81
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C50	BUNKERHILL	20.8	1,866
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C97	ENGLEWOOD	20.8	1,382
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	20.8	334
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	20.8	2,089
CoastPlus	COOS BAY/COQUILLE	SOUTH DUNES	5C9	DOUGLAS CHIP	12.5	3
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	20.8	1,814
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	20.8	1,718
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	20.8	2,217
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	20.8	1,813
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	20.8	715
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	12.5	2,061
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	12.5	1,278

Oregon 2022 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit ID	Circuit Name	kV	Circuit Customer Count
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	12.5	1,805
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	7.2	1,201
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	12.5	1,469
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	12.5	790
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	4.1	285
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	20.8	1,914
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	20.8	3,079
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	20.8	4,509
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	20.8	665
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	4.1	712
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	4.1	360
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R114	BOYER	12	19
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	4.1	724
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	11.7	602
CoastPlus	PORTLAND	ALBINA	5P150	ALBINA 11C15	11.7	136
CoastPlus	PORTLAND	ALBINA	5P194	11C24-UG	11.7	306
CoastPlus	PORTLAND	ALBINA	5P196	11C16-UG	11.7	537
CoastPlus	PORTLAND	ALBINA	5P200	11C20-UG	11.7	466
CoastPlus	PORTLAND	ALBINA	5P91	11C11-UG	11.7	380
CoastPlus	PORTLAND	ALBINA	5P92	11C12-UG	11.7	158
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P22	ALDERWOOD #2	12.5	202
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P23	ALDERWOOD #1-UG	12.5	1
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P33	ALDERWOOD #4	12.5	181
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	12.5	199
CoastPlus	PORTLAND	BLOSS	5P172	FURNACE	12.5	1
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	COLUMBIA #2	12.5	2,653
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	12.5	356
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	12.5	541
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	12.5	842
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	12.5	1,143
CoastPlus	PORTLAND	COLUMBIA (OR)	5P480	COLUMBIA #5	12.5	22
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	12.5	742
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	12.5	1,009
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	12.5	2,927
CoastPlus	PORTLAND	HOLLADAY (OR)	5P145	HOLLADAY #1-UG	11.7	203
CoastPlus	PORTLAND	HOLLADAY (OR)	5P146	HOLLADAY #2-UG	11.7	343
CoastPlus	PORTLAND	HOLLADAY (OR)	5P147	HOLLADAY #3-UG	11.7	168
CoastPlus	PORTLAND	HOLLADAY (OR)	5P156	HOLLADAY #4-UG	11.7	756
CoastPlus	PORTLAND	HOLLADAY (OR)	5P157	HOLLADAY #5-UG	11.7	128
CoastPlus	PORTLAND	HOLLADAY (OR)	5P158	HOLLADAY #6	11.7	917
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	12.5	1,533
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	12.5	433
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	12.5	2,355
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	12.5	3,674
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	12.5	2,349
CoastPlus	PORTLAND	KENNEDY	5P12	CB 5P12	12.5	1,374
CoastPlus	PORTLAND	KENNEDY	5P14	CB 5P14	12.5	1,942
CoastPlus	PORTLAND	KENNEDY	5P15	CB 5P15	12.5	1,325
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	12.5	317
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	12.5	299
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	12.5	1,006

Oregon 2022 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit ID	Circuit Name	kV	Circuit Customer Count
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	12.5	1,759
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	12.5	3,529
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	12.5	2,420
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	12.5	2,441
CoastPlus	PORTLAND	KNOTT	5P366	11010	11.7	56
CoastPlus	PORTLAND	KNOTT	5P368	11022	11.7	16
CoastPlus	PORTLAND	KNOTT	5P372	11046	11.7	779
CoastPlus	PORTLAND	KNOTT	5P374	11020	11.7	1,025
CoastPlus	PORTLAND	LINCOLN (OR)	5P418	11D17	11.7	131
CoastPlus	PORTLAND	LINCOLN (OR)	5P420	11D14	11.7	27
CoastPlus	PORTLAND	LINCOLN (OR)	5P422	11D06-UG	11.7	943
CoastPlus	PORTLAND	LINCOLN (OR)	5P424	11D03-UG	11.7	28
CoastPlus	PORTLAND	LINCOLN (OR)	5P426	11D04-UG	11.7	668
CoastPlus	PORTLAND	LINCOLN (OR)	5P430	11D05-UG	11.7	369
CoastPlus	PORTLAND	LINCOLN (OR)	5P432	11D02-UG	11.7	682
CoastPlus	PORTLAND	LINCOLN (OR)	5P434	11D12-UG	11.7	15
CoastPlus	PORTLAND	LINCOLN (OR)	5P436	11G18-UG	11.7	95
CoastPlus	PORTLAND	LINCOLN (OR)	5P438	11D08-UG	11.7	17
CoastPlus	PORTLAND	LINCOLN (OR)	5P456	11D09-UG	11.7	182
CoastPlus	PORTLAND	LINCOLN (OR)	5P458	11D07-UG	11.7	217
CoastPlus	PORTLAND	LINCOLN (OR)	5P460	11D01-UG	11.7	1
CoastPlus	PORTLAND	LINCOLN (OR)	5P462	11G13-UG	11.7	31
CoastPlus	PORTLAND	LINCOLN (OR)	5P464	11G16-UG	11.6	163
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	12.8	2,367
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	12.8	3,290
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	12.5	3,109
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	12.5	3,099
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	12.5	649
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	12.5	1,783
CoastPlus	PORTLAND	PARKROSE	5P717	PARKROSE 5	12.5	137
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	12.5	3,120
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	12.5	2,462
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	12.5	3,310
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	12.5	1,361
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	12.5	2,003
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	12.5	2,592
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	12.5	3,437
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	12.5	3,572
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	12.5	2,277
Northeast	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	20.8	1,505
Northeast	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	12.5	950
Northeast	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	12.5	1,107
Northeast	ENTERPRISE	JOSEPH	5W21	PRAIRIE	12.5	875
Northeast	ENTERPRISE	MINAM	5W18	MINAM	12.5	13
Northeast	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	19.9	172
Northeast	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	19.9	59
Northeast	ENTERPRISE	WALLOWA	5W28	CITY	12.5	887
Northeast	HERMISTON	ARLINGTON	5K25	ARLINGTON	12.5	519
Northeast	HERMISTON	BLALOCK	5K40	BLALOCK	12.5	21
Northeast	HERMISTON	DALREED	4K16	WILLOW COVE	34.5	70
Northeast	HERMISTON	DALREED	4K36	SIMTAG	34.5	21

Oregon 2022 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit ID	Circuit Name	kV	Circuit Customer Count
Northeast	HERMISTON	DALREED	4K46	BOEING	34.5	176
Northeast	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	12.5	1,457
Northeast	HERMISTON	HINKLE	5W82	MEADOWS	12.5	381
Northeast	HERMISTON	UMATILLA	5W658	UMATILLA	12.5	1,339
Northeast	HERMISTON	UMATILLA	5W660	MCNARY	12.5	951
Northeast	HERMISTON	UMATILLA	5W664	PORT FEEDER	12.5	60
Northeast	PENDLETON	ATHENA	5W703	CITY	12.5	850
Northeast	PENDLETON	ATHENA	5W705	HELIX	12.5	423
Northeast	PENDLETON	BUCKAROO	5W201	STATE HOSP.	12.5	392
Northeast	PENDLETON	BUCKAROO	5W202	REITH	12.5	719
Northeast	PENDLETON	BUCKAROO	5W203	MONTEE	12.5	1,070
Northeast	PENDLETON	MCKAY (OR)	5W856	MCKAY	12.47	1,812
Northeast	PENDLETON	MCKAY (OR)	5W857	WILDHORSE	12.47	142
Northeast	PENDLETON	PENDLETON	5W401	WEST HILLS	12.5	1,498
Northeast	PENDLETON	PENDLETON	5W402	HARRIS HTS	12.5	2,050
Northeast	PENDLETON	PENDLETON	5W403	MISSION	12.5	933
Northeast	PENDLETON	PENDLETON	7W451	BUSINESS	4.1	274
Northeast	PENDLETON	PENDLETON	7W452	NORTHWEST	4.1	531
Northeast	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDELTON)	4.1	329
Northeast	PENDLETON	PENDLETON	7W454	EAST END	4.1	242
Northeast	PENDLETON	PILOT ROCK	5W404	MILL (PILOT ROCK)	12.5	2
Northeast	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	12.5	1,350
Northeast	PENDLETON	WESTON NEW (OR)	5W40	WESTON CANNERY	12.5	15
Northeast	PENDLETON	WESTON NEW (OR)	5W7	SCOTT'S FEEDER	12.5	454
Northeast	WALLA WALLA	UMAPINE	5W105	UMAPINE FEEDER	12.5	967
Northeast	WALLA WALLA	UMAPINE	5W106	FERNDAL	12.5	1,353
Southern OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	12.5	883
Southern OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	12.5	884
Southern OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	12.5	1,012
Southern OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	12.5	1,070
Southern OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	12.5	1,330
Southern OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	12.5	1,275
Southern OR	GRANTS PASS	BEACON	5R105	BEACON ST	12.5	846
Southern OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	12.5	2,471
Southern OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH & READY	12.5	1,538
Southern OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	12.5	1,114
Southern OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	12.5	1,218
Southern OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	12.5	579
Southern OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	12.5	1,237
Southern OR	GRANTS PASS	DOWELL	5R331	DOVE	12.5	1,504
Southern OR	GRANTS PASS	DOWELL	5R334	DUCK	12.5	2,598
Southern OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	12.5	2,228
Southern OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	12.5	1,816
Southern OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	12.5	1,346
Southern OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	20.8	1,863
Southern OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	20.8	877
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	12.5	1,889
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	12.5	651
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	12.5	1,652
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	12.5	1,618
Southern OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	12.5	1,029

Oregon 2022 Circuit kV and Customer Counts

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Southern OR	GRANTS PASS	MERLIN	5R234	PARADISE	12.5	1,208
Southern OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	12.5	1,140
Southern OR	GRANTS PASS	MERLIN	5R251	BADGER	12.5	937
Southern OR	GRANTS PASS	MERLIN	5R288	MONARCH	12.5	1,769
Southern OR	GRANTS PASS	OBRIEN	5R106	O'BRIEN	12.5	435
Southern OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	12.5	2,214
Southern OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	12.5	1,006
Southern OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	12.5	2,195
Southern OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	12.5	324
Southern OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	12.5	1,393
Southern OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	12.5	1,455
Southern OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMMER	12.5	1,884
Southern OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	12.5	1,063
Southern OR	GRANTS PASS	SELMA	5R65	DEER CREEK	12.5	1,208
Southern OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	12.5	390
Southern OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	12.5	422
Southern OR	KLAMATH FALLS	BOISE CASCADE	7L9	BOISE CASCAD	4.1	1
Southern OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	12.5	470
Southern OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	12.5	2,145
Southern OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	12.5	1,832
Southern OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	12.5	1,953
Southern OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	12.5	2,473
Southern OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	20.8	1,174
Southern OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	12	1,035
Southern OR	KLAMATH FALLS	CHILOQUIN MRKT	5L37	WILLIAMSON	12.5	576
Southern OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	12.5	264
Southern OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	12.5	502
Southern OR	KLAMATH FALLS	HAMAKER	5L55	KENO	12.5	1,704
Southern OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	12.5	165
Southern OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	12.5	233
Southern OR	KLAMATH FALLS	HENLEY	5L59	WEST	12.5	537
Southern OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	12.5	2,896
Southern OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	12.5	1,500
Southern OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	12.5	230
Southern OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	12.5	2,456
Southern OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	12.5	7
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	12.5	973
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	12.5	558
Southern OR	KLAMATH FALLS	MODOC	5L36	MODOC	12.5	856
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	12.5	1,391
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	12.5	1,194
Southern OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	20.8	1,489
Southern OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	4.1	431
Southern OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	12.5	522
Southern OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	12.5	1,215
Southern OR	KLAMATH FALLS	TEXUM	5L113	TOWER	12.5	283
Southern OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	12.5	1,487
Southern OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	12.5	825
Southern OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	12.5	318
Southern OR	KLAMATH FALLS	WEST SIDE	5L12	ORINDALE	12.5	809
Southern OR	KLAMATH FALLS	WEST SIDE	5L15	CALIFORNIA	12.5	1,363

Oregon 2022 Circuit kV and Customer Counts

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Southern OR	KLAMATH FALLS	WEST SIDE	5L16	MAIN ST (WEST SIDE HE PLANT)	12.5	111
Southern OR	KLAMATH FALLS	WEST SIDE	5L17	PINE ST (WEST SIDE HE PLANT)	12.5	498
Southern OR	KLAMATH FALLS	WEST SIDE	5L18	RIVERSIDE (WEST SIDE HE PLANT)	12.5	591
Southern OR	KLAMATH FALLS	WEST SIDE	5L19	LAKESHORE	12.5	305
Southern OR	KLAMATH FALLS	WEST SIDE	8L10	CITY WTR PMP	2.4	1
Southern OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	12.5	707
Southern OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	12.5	1,737
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R241	CITY	12.5	12
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	12.5	915
Southern OR	MEDFORD	BEALL LANE	5R359	BEEHIVE	12.5	2
Southern OR	MEDFORD	BEALL LANE	5R361	BULLDOG	12.5	1,758
Southern OR	MEDFORD	BEALL LANE	5R364	BOBCAT	12.5	2,167
Southern OR	MEDFORD	BELKNAP	5R1	KOGAP	12.5	1,007
Southern OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	12.5	662
Southern OR	MEDFORD	BELKNAP	5R3	BARNETT	12.5	1,631
Southern OR	MEDFORD	BELKNAP	5R47	STEWART	12.5	2,298
Southern OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	12.5	1,947
Southern OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	12.5	1,722
Southern OR	MEDFORD	BROOKHURST	5R32	ROXY	12.5	1,834
Southern OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	12.5	1,724
Southern OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	12.5	1,229
Southern OR	MEDFORD	CAMPBELL	5R216	VOORHIES	12.5	854
Southern OR	MEDFORD	CAMPBELL	5R218	PHOENIX	12.5	719
Southern OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	12.5	1,228
Southern OR	MEDFORD	CAMPBELL	5R312	COBRA	12.5	1,528
Southern OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	20.8	1,622
Southern OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	20.8	1,386
Southern OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	12.5	773
Southern OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	12.5	1,166
Southern OR	MEDFORD	FRALEY	5R87	TABLE ROCK	12.5	529
Southern OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	12.5	255
Southern OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	12.5	2,059
Southern OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	12.5	2,753
Southern OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	12.5	1,772
Southern OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	12.5	692
Southern OR	MEDFORD	JACKSONVILLE	5R284	STAGE RD	12.5	2,114
Southern OR	MEDFORD	JACKSONVILLE	5R285	JACKSONVILLE HWY	12.5	2,226
Southern OR	MEDFORD	MEDCO	5R280	BOISE CASCADE	12.5	1
Southern OR	MEDFORD	MEDFORD	5R21	MELROSE	12.5	1,581
Southern OR	MEDFORD	MEDFORD	5R23	SPRING ST.	12.5	1,623
Southern OR	MEDFORD	MEDFORD	5R250	BIG Y	12.5	1,876
Southern OR	MEDFORD	MEDFORD	5R253	APPLE	12.5	1,110
Southern OR	MEDFORD	MEDFORD	5R257	PEAR	12.5	794
Southern OR	MEDFORD	MEDFORD	5R659	MCCLEAN	12.5	677
Southern OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	12.5	1,517
Southern OR	MEDFORD	OAK KNOLL	5R56	HIGHWAY 99	12.5	112
Southern OR	MEDFORD	PROSPECT 3	5R290	P-3 FOREBAY	12.5	1
Southern OR	MEDFORD	PROSPECT CNTRL	5R40	NEW CASCADE	12.5	332
Southern OR	MEDFORD	RED BLANKET	7R5	PROSPECT	4.1	395
Southern OR	MEDFORD	ROXY ANN	5R350	St. Bernard	12.5	1,348
Southern OR	MEDFORD	ROXY ANN	5R354	RACCOON	12.5	1,581

Oregon 2022 Circuit kV and Customer Counts

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Southern OR	MEDFORD	RUCH	5R68	APPLEGATE	12.5	942
Southern OR	MEDFORD	RUCH	5R69	RUCH	12.5	543
Southern OR	MEDFORD	SAGE ROAD (OR)	5R209	TIMBER PROD	12.5	1
Southern OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	12.5	1,792
Southern OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	12.5	922
Southern OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	12.5	111
Southern OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	12.5	2,133
Southern OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	12.5	726
Southern OR	MEDFORD	SCENIC	5R174	UPTON	12.5	2,008
Southern OR	MEDFORD	SCENIC	5R180	HEAD RD	12.5	1,189
Southern OR	MEDFORD	SCENIC	5R182	TAYLOR RD	12.5	1,542
Southern OR	MEDFORD	SCENIC	5R184	CHENEY	12.5	1,918
Southern OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	20.8	2,446
Southern OR	MEDFORD	STEVENS ROAD	4R17	Stingray	20.8	2,615
Southern OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	20.8	1,161
Southern OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	20.8	2,666
Southern OR	MEDFORD	TALENT	5R237	TALENT	12.5	2,067
Southern OR	MEDFORD	TALENT	5R238	ANDERSON CRK	12.5	1,663
Southern OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	12.5	1,551
Southern OR	MEDFORD	TALENT	5R240	NORTH HWY	12.5	944
Southern OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	12.5	161
Southern OR	MEDFORD	TOLO	5R91	SAMS VALLEY	12.5	654
Southern OR	MEDFORD	TOLO	5R92	KIRTLAND RD	12.5	221
Southern OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	12.5	972
Southern OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	12.5	1,478
Southern OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	12.5	910
Southern OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	12.5	1,489
Southern OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	12.5	37
Southern OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	12.5	24
Southern OR	MEDFORD	WHITE CITY	5R14	AGATE	12.5	231
Southern OR	MEDFORD	WHITE CITY	5R19	3M	12.5	129
Southern OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	12.5	1,923
Southern OR	MEDFORD	WHITE CITY	5R76	AVE C	12.5	78
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U46	CANYONVILLE	12.5	391
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U52	BEALS CREEK FEEDER	12.5	888
Southern OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	12.5	427
Southern OR	ROSEBURG/MYRTLECREEK	CLEARWATER #1 SUB	6U17	BRIGGS	7.2	3
Southern OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SUB	6U33	CLEARWATER	7.2	96
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U37	RUSA	20.8	1
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	20.8	2,983
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	20.8	1,281
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	20.8	805
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	20.8	1,398
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	12.5	917
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	12.5	1,371
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	12.5	2,265
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	12.5	1,648
Southern OR	ROSEBURG/MYRTLECREEK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOSER	7.2	27
Southern OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	12.5	178
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	12.5	1,547
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	12.5	1,205

Oregon 2022 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit ID	Circuit Name	kV	Circuit Customer Count
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	12.5	1,309
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	12.5	554
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	12.5	2,130
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	12.5	1,573
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	12.5	286
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U23	FORD MILL	12.5	1
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	12	30
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	20.8	2,522
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	20.8	1,243
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	20.8	2,170
Southern OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	7.2	4
Southern OR	ROSEBURG/MYRTLECREEK	SODA SPRINGS HE PLT	6U10	CB6U10	12.5	1
Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	20.8	1,639
Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	20.8	1,553
Southern OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	7.2	21
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	12.5	1,315
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	12.5	1,367
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	12.5	545
Southern OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	12.5	300
Southern OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	2.4	19
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	20.8	1,652
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	12.5	1,802
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	12.5	785
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	12.5	738
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	12.5	871
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	12.5	1,440
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	20.8	845
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	20.8	1,240
Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	20.8	720
Willamette Valley	ALBANY	JEFFERSON (OR)	4M125	MINT	20.8	2,527
Willamette Valley	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	20.8	4,156
Willamette Valley	ALBANY	MURDER CREEK	4M245	RURAL NW	20.8	2,352
Willamette Valley	ALBANY	MURDER CREEK	4M249	DURA-PACIFIC	20.8	179
Willamette Valley	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	20.8	4
Willamette Valley	ALBANY	MURDER CREEK	5M131	WAH CHANG SOUTH	12.5	1
Willamette Valley	ALBANY	OREMET	4M295	OAK CREEK	20.8	97
Willamette Valley	ALBANY	OREMET	4M296	ROGERSDALE	20.8	2,160
Willamette Valley	ALBANY	OREMET	5M19	OREMET	12.5	3
Willamette Valley	ALBANY	QUEEN AVE	4M217	SANTIAM	20.8	1,882
Willamette Valley	ALBANY	QUEEN AVE	4M258	HILL STREET	20.8	2,875
Willamette Valley	ALBANY	QUEEN AVE	4M261	WAVERLY	20.8	3,655
Willamette Valley	ALBANY	QUEEN AVE	4M262	GEARY STREET	20.8	2,637
Willamette Valley	ALBANY	VINE STREET	4M15	FERRY	20.8	3,224
Willamette Valley	ALBANY	VINE STREET	4M16	WATER STREET	20.8	4,379
Willamette Valley	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	20.8	2,956
Willamette Valley	CORVALLIS	BUCHANAN	4M133	PEORIA	20.8	2,432
Willamette Valley	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	20.8	2,596
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M394	H. P. #1	20.8	1
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M427	H. P. #3	20.8	1
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M429	H. P. #5	20.8	1
Willamette Valley	CORVALLIS	DIXON	7M26	FOURTH ST.	4.1	232

Oregon 2022 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit ID	Circuit Name	kV	Circuit Customer Count
Willamette Valley	CORVALLIS	DIXON	7M29	SECOND ST.	4.1	268
Willamette Valley	CORVALLIS	GRANT ST	4M265	HIGH SCHOOL	20.8	2,502
Willamette Valley	CORVALLIS	GRANT ST	4M266	CHINTIMINI	20.8	2,528
Willamette Valley	CORVALLIS	GRANT ST	4M268	KINGS ROAD	20.8	2,561
Willamette Valley	CORVALLIS	GRANT ST	4M269	29TH STREET	20.8	3,624
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	20.8	1,923
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	20.8	1,316
Willamette Valley	CORVALLIS	HILLVIEW	4M182	SUNSET	20.8	1,763
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	20.8	2,153
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	20.8	3,622
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	20.8	185
Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	20.8	159
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	20.8	587
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	20.8	1,626
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	20.8	1,864
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	20.8	1,155
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	20.8	1,001
Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	20.8	1,154
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	20.8	2,410
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	20.8	1,622
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	20.8	2,099
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	20.8	3,152
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLENDALE	20.8	3,098
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	20.8	2,343
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	20.8	3,172
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	20.8	2,234
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	12.5	1,712
Willamette Valley	LEBANON	CALAPOOYA	4M850	SPALDING	20.8	1,133
Willamette Valley	LEBANON	CALAPOOYA	4M851	BEAR	20.8	32
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	20.8	1,531
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	20.8	1,963
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	20.8	2,661
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	20.8	2,026
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	20.8	1,803
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	20.8	1,211
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	20.8	2,051
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	20.8	986
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	20.8	1,694
Willamette Valley	LEBANON	SWEET HOME	4M94	FOSTER	20.8	2,424
Willamette Valley	STAYTON	LYONS	4M120	MILL CITY	20.8	702
Willamette Valley	STAYTON	LYONS	4M70	MEHAMA	20.8	2,062
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	12.5	1,576
Willamette Valley	STAYTON	STAYTON	4M19	AUMSVILLE	20.8	3,504
Willamette Valley	STAYTON	STAYTON	4M353	WEST STAYTON	20.8	3,586
Willamette Valley	STAYTON	STAYTON	4M370	CASCADE	20.8	1,579
Willamette Valley	STAYTON	STAYTON	4M50	3RD STREET	20.8	924

Oregon 2022 Circuit Metrics (Excluding major events)

Oregon Regions	Op Area Name	Substation Name	Circuit ID	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	83	10,851	2,469	4.39	0.03
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	238	40,020	1,314	30.46	0.18
Central OR	BEND/REDMOND	BEND	5D12	DIVISION ST.	10	1,496	214	6.99	0.05
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	7	390	1,427	0.27	0.00
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	993	143,018	2,956	48.38	0.34
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	28	7,797	1,374	5.67	0.02
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	613	133,121	2,330	57.13	0.26
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	2,410	217,024	1,728	125.59	1.39
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	251	31,248	2,522	12.39	0.10
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	110	25,827	1,280	20.18	0.09
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	1,603	107,386	1,060	101.31	1.51
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	63	10,060	1,505	6.68	0.04
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPÉE	3,334	286,689	4,082	70.23	0.82
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	95	15,915	975	16.32	0.10
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	32	6,141	1,207	5.09	0.03
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	4,966	932,498	1,836	507.90	2.70
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	870	21,092	820	25.72	1.06
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	119	14,297	1,143	12.51	0.10
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	751	136,468	1,033	132.11	0.73
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	571	48,217	1,515	31.83	0.38
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	297	52,401	1,962	26.71	0.15
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	2,922	165,738	2,722	60.89	1.07
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	1,904	315,825	1,794	176.04	1.06
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	484	43,123	1,449	29.76	0.33
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	193	14,879	893	16.66	0.22
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	25	7,262	1,584	4.58	0.02
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	239	21,135	2,447	8.64	0.10
Central OR	BEND/REDMOND	PILOT BUTTE	5D265	DOBBIN	267	27,487	1,823	15.08	0.15
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	6	950	847	1.12	0.01
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	428	62,824	1,580	39.76	0.27
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	1,019	203,955	890	229.16	1.14
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	488	45,234	1,561	28.98	0.31
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	316	23,047	3,331	6.92	0.09
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	91	23,303	1,303	17.88	0.07
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	306	81,240	424	191.60	0.72
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	240	38,887	2,533	15.35	0.09
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	1	652	1,584	0.41	0.00
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	15	3,111	2,929	1.06	0.01
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	69	17,846	2,481	7.19	0.03
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	8	915	395	2.32	0.02
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	15	4,556	2,902	1.57	0.01
Central OR	MADRAS	CULVER	5D5	CULVER	1,223	199,353	1,860	107.18	0.66
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	1,854	195,211	1,074	181.76	1.73
Central OR	MADRAS	MADRAS	5D53	AGATE	227	55,482	1,385	40.06	0.16
Central OR	MADRAS	MADRAS	5D57	QUARTZ	122	25,649	1,482	17.31	0.08
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	400	85,440	1,286	66.44	0.31
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	132	25,105	679	36.97	0.19

Oregon 2022 Circuit Metrics (Excluding major events)

Oregon Regions	Op Area Name	Substation Name	Circuit ID	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	19	2,509	886	2.83	0.02
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	985	112,266	2,776	40.44	0.35
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	1,394	143,098	1,009	141.82	1.38
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	625	74,341	1,096	67.83	0.57
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	1,289	78,634	635	123.83	2.03
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	236	75,917	903	84.07	0.26
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	497	91,053	1,642	55.45	0.30
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	1,075	166,121	991	167.63	1.08
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	3,063	546,398	1,640	333.17	1.87
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	2,089	223,161	1,221	182.77	1.71
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	500	81,390	272	299.23	1.84
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	315	61,556	387	159.06	0.81
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	1,006	55,561	738	75.29	1.36
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	1,424	376,072	937	401.36	1.52
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	5,781	631,597	2,402	262.95	2.41
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	2,291	92,535	1,620	57.12	1.41
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	1,811	261,466	1,238	211.20	1.46
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	13,532	1,263,243	3,483	362.69	3.89
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	35	4,995	273	18.30	0.13
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	3,819	1,230,294	2,293	536.54	1.67
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	781	166,063	1,761	94.30	0.44
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	1,270	117,620	1,182	99.51	1.07
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	332	31,163	327	95.30	1.02
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	1,390	149,593	1,195	125.18	1.16
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	1,007	91,356	1,005	90.90	1.00
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	1,430	143,945	940	153.13	1.52
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	2,026	349,306	1,103	316.69	1.84
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	1,485	145,035	1,408	103.01	1.05
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	602	92,549	769	120.35	0.78
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	5,150	759,621	1,369	554.87	3.76
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	377	44,143	1,684	26.21	0.22
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	919	100,444	1,561	64.35	0.59
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	150	14,204	148	95.97	1.01
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C108	EMPIRE	912	114,573	1,758	65.17	0.52
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C89	SCOTT	35	6,259	1,443	4.34	0.02
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C90	CHARLESTON	576	71,805	2,107	34.08	0.27
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	2	258	32	8.05	0.06
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C48	CITY CENTER	76	8,088	1,499	5.40	0.05
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C49	EASTSIDE	37	4,543	778	5.84	0.05
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C50	BUNKERHILL	3,223	312,945	1,866	167.71	1.73
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C97	ENGLEWOOD	182	13,476	1,382	9.75	0.13
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	146	17,994	334	53.88	0.44
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	2,622	489,121	2,089	234.14	1.26
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	3,732	324,907	1,814	179.11	2.06
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	3,302	324,954	1,718	189.15	1.92
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	292	71,964	2,217	32.46	0.13
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	75	18,519	1,813	10.21	0.04

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Oregon Regions	Op Area Name	Substation Name	Circuit ID	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	248	87,415	715	122.26	0.35
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	932	129,942	2,061	63.05	0.45
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	124	17,295	1,278	13.53	0.10
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	113	19,338	1,805	10.71	0.06
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	343	125,657	1,201	104.63	0.29
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	621	73,034	1,469	49.72	0.42
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	1,789	283,579	790	358.96	2.26
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	290	49,450	285	173.51	1.02
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	5,206	598,466	1,914	312.68	2.72
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	7,644	651,500	3,079	211.59	2.48
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	7,228	1,002,220	4,509	222.27	1.60
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	1,801	166,687	665	250.66	2.71
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	2,039	514,101	712	722.05	2.86
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	590	68,663	360	190.73	1.64
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R114	BOYER	19	5,678	19	298.87	1.00
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	2,255	199,008	724	274.87	3.11
CoastPlus	PORTLAND	ALBINA	5P150	ALBINA 11C15	1	318	136	2.34	0.01
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P22	ALDERWOOD #2	1	152	202	0.75	0.00
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P33	ALDERWOOD #4	182	2,954	181	16.32	1.01
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	202	4,884	199	24.54	1.02
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	COLUMBIA #2	3,020	477,323	2,653	179.92	1.14
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	1	101	356	0.28	0.00
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	607	148,689	541	274.84	1.12
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	905	51,012	842	60.58	1.07
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	3,347	399,711	1,143	349.70	2.93
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	767	80,735	742	108.81	1.03
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	60	8,080	1,009	8.01	0.06
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	2,116	200,183	2,927	68.39	0.72
CoastPlus	PORTLAND	HOLLADAY (OR)	5P145	HOLLADAY #1-UG	200	67,443	203	332.23	0.99
CoastPlus	PORTLAND	HOLLADAY (OR)	5P146	HOLLADAY #2-UG	341	114,991	343	335.25	0.99
CoastPlus	PORTLAND	HOLLADAY (OR)	5P147	HOLLADAY #3-UG	167	56,446	168	335.99	0.99
CoastPlus	PORTLAND	HOLLADAY (OR)	5P158	HOLLADAY #6	1,894	87,661	917	95.60	2.07
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	1,620	105,609	1,533	68.89	1.06
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	485	74,854	433	172.87	1.12
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	4,153	358,924	2,355	152.41	1.76
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	989	185,672	3,674	50.54	0.27
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	1,765	418,023	2,349	177.96	0.75
CoastPlus	PORTLAND	KENNEDY	5P12	CB 5P12	126	30,497	1,374	22.20	0.09
CoastPlus	PORTLAND	KENNEDY	5P14	CB 5P14	110	15,451	1,942	7.96	0.06
CoastPlus	PORTLAND	KENNEDY	5P15	CB 5P15	784	72,776	1,325	54.93	0.59
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	24	3,473	299	11.62	0.08
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	151	13,907	317	43.87	0.48
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	302	54,737	1,006	54.41	0.30
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	5,129	928,645	1,759	527.94	2.92
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	654	58,652	3,529	16.62	0.19
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	56	10,654	2,420	4.40	0.02
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	2,543	269,834	2,441	110.54	1.04

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CoastPlus	PORTLAND	KNOTT	5P372	11046	11	2,291	779	2.94	0.01
CoastPlus	PORTLAND	KNOTT	5P374	11020	48	10,803	1,025	10.54	0.05
CoastPlus	PORTLAND	LINCOLN (OR)	5P426	11D04-UG	1	94	668	0.14	0.00
CoastPlus	PORTLAND	LINCOLN (OR)	5P462	11G13-UG	31	551	31	17.77	1.00
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	62	8,639	2,367	3.65	0.03
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	26	5,150	3,290	1.57	0.01
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	8,530	1,383,503	3,109	445.00	2.74
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	479	161,355	3,099	52.07	0.15
CoastPlus	PORTLAND	PARKROSE	5P717	PARKROSE 5	142	14,663	137	107.03	1.04
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	217	30,384	649	46.82	0.33
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	94	38,834	1,783	21.78	0.05
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	1,242	170,611	3,120	54.68	0.40
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	213	38,255	2,462	15.54	0.09
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	1,277	248,393	3,310	75.04	0.39
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	2,182	405,707	1,361	298.09	1.60
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	43	11,746	2,003	5.86	0.02
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	147	30,270	2,592	11.68	0.06
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	52	6,750	3,437	1.96	0.02
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	1,659	269,212	3,572	75.37	0.46
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	70	8,657	2,277	3.80	0.03
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	3,241	213,442	1,505	141.82	2.15
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	24	1,513	950	1.59	0.03
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	487	74,537	1,107	67.33	0.44
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	2,029	130,875	875	149.57	2.32
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	79	6,648	13	511.37	6.08
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	354	100,582	172	584.78	2.06
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	104	29,543	59	500.73	1.76
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	1,927	193,263	887	217.88	2.17
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	417	88,079	519	169.71	0.80
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	6	1,533	21	73.00	0.29
Northeast OR	HERMISTON	DALREED	4K16	WILLOW COVE	88	17,434	70	249.06	1.26
Northeast OR	HERMISTON	DALREED	4K36	SIMTAG	4	1,779	21	84.69	0.19
Northeast OR	HERMISTON	DALREED	4K46	BOEING	104	22,610	176	128.47	0.59
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	6,414	444,814	1,457	305.29	4.40
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	512	113,864	381	298.86	1.34
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	100	16,305	1,339	12.18	0.07
Northeast OR	HERMISTON	UMATILLA	5W664	PORT FEEDER	4	327	60	5.44	0.07
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	402	57,098	951	60.04	0.42
Northeast OR	PENDLETON	ATHENA	5W703	CITY	214	32,826	850	38.62	0.25
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	84	38,735	423	91.57	0.20
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	436	56,420	392	143.93	1.11
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	851	117,442	719	163.34	1.18
Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	46	2,676	1,070	2.50	0.04
Northeast OR	PENDLETON	MCKAY (OR)	5W856	MCKAY	1,005	110,334	1,812	60.89	0.55
Northeast OR	PENDLETON	MCKAY (OR)	5W857	WILDHORSE	24	3,653	142	25.73	0.17
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	433	42,980	1,498	28.69	0.29
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	712	135,220	2,050	65.96	0.35

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Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	963	128,444	933	137.67	1.03
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDELTON)	1	287	329	0.87	0.00
Northeast OR	PENDLETON	PILOT ROCK	5W404	MILL (PILOT ROCK)	3	154	2	76.79	1.50
Northeast OR	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	3,006	443,221	1,350	328.31	2.23
Northeast OR	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	105	16,295	454	35.89	0.23
Northeast OR	WALLA WALLA	UMAPINE	5W105	UMAPINE FEEDER	478	61,627	967	63.73	0.49
Northeast OR	WALLA WALLA	UMAPINE	5W106	FERNDALE	1,798	113,018	1,353	83.53	1.33
Southern OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	3,598	123,291	883	139.63	4.07
Southern OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	2,779	424,640	884	480.36	3.14
Southern OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	2,094	167,884	1,012	165.89	2.07
Southern OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	3,477	252,532	1,070	236.01	3.25
Southern OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	644	205,798	1,330	154.74	0.48
Southern OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	2,628	343,201	1,275	269.18	2.06
Southern OR	GRANTS PASS	BEACON	5R105	BEACON ST	863	173,640	846	205.25	1.02
Southern OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	8,444	1,119,401	2,471	453.02	3.42
Southern OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH & READY	4,048	554,270	1,538	360.38	2.63
Southern OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	1,171	188,410	1,114	169.13	1.05
Southern OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	28	9,122	1,218	7.49	0.02
Southern OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	231	30,213	579	52.18	0.40
Southern OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	186	14,951	1,237	12.09	0.15
Southern OR	GRANTS PASS	DOWELL	5R331	DOVE	143	32,948	1,504	21.91	0.10
Southern OR	GRANTS PASS	DOWELL	5R334	DUCK	268	31,238	2,598	12.02	0.10
Southern OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	331	38,081	2,228	17.09	0.15
Southern OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	737	165,445	1,816	91.10	0.41
Southern OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	665	156,715	1,346	116.43	0.49
Southern OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	3,183	408,485	1,863	219.26	1.71
Southern OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	1,215	328,162	877	374.19	1.39
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	7,651	827,205	1,889	437.91	4.05
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	1,339	158,885	651	244.06	2.06
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	4,610	710,820	1,652	430.28	2.79
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	6,405	1,286,443	1,618	795.08	3.96
Southern OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	117	34,596	1,029	33.62	0.11
Southern OR	GRANTS PASS	MERLIN	5R234	PARADISE	749	174,530	1,208	144.48	0.62
Southern OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	241	29,043	1,140	25.48	0.21
Southern OR	GRANTS PASS	MERLIN	5R251	BADGER	1,879	244,525	937	260.97	2.01
Southern OR	GRANTS PASS	MERLIN	5R288	MONARCH	5,593	130,777	1,769	73.93	3.16
Southern OR	GRANTS PASS	O'BRIEN	5R106	O'BRIEN	1,235	213,380	435	490.53	2.84
Southern OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	413	91,289	2,214	41.23	0.19
Southern OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	45	15,273	1,006	15.18	0.04
Southern OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	1,404	164,302	2,195	74.85	0.64
Southern OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	435	15,475	324	47.76	1.34
Southern OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	2,879	257,823	1,393	185.08	2.07
Southern OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	1,860	303,990	1,455	208.93	1.28
Southern OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMMER	10,541	1,271,795	1,884	675.05	5.60
Southern OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	4,272	622,889	1,063	585.97	4.02
Southern OR	GRANTS PASS	SELMA	5R65	DEER CREEK	2,549	951,404	1,208	787.59	2.11
Southern OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	2,317	308,907	390	792.07	5.94

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Southern OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	1,490	138,641	422	328.53	3.53
Southern OR	KLAMATH FALLS	BOISE CASCADE	7L9	BOISE CASCAD	1	565	1	565.22	1.00
Southern OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	888	86,945	470	184.99	1.89
Southern OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	2,185	103,119	2,145	48.07	1.02
Southern OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	1,872	88,799	1,832	48.47	1.02
Southern OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	3,947	311,980	1,953	159.74	2.02
Southern OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	2,640	133,338	2,473	53.92	1.07
Southern OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	3,781	552,415	1,174	470.54	3.22
Southern OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	2,305	362,224	1,035	349.97	2.23
Southern OR	KLAMATH FALLS	CHILOQUIN MRKT	5L37	WILLIAMSON	568	119,493	576	207.45	0.99
Southern OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	357	51,460	264	194.93	1.35
Southern OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	697	43,900	502	87.45	1.39
Southern OR	KLAMATH FALLS	HAMAKER	5L55	KENO	3,324	396,778	1,704	232.85	1.95
Southern OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	174	8,980	165	54.42	1.05
Southern OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	124	8,866	233	38.05	0.53
Southern OR	KLAMATH FALLS	HENLEY	5L59	WEST	2	231	537	0.43	0.00
Southern OR	KLAMATH FALLS	HORNET	5L44	HOMEDAILE	4,014	238,557	2,896	82.37	1.39
Southern OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	1,819	128,400	1,500	85.60	1.21
Southern OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	232	11,100	230	48.26	1.01
Southern OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	7	324	7	46.27	1.00
Southern OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	2,963	190,395	2,456	77.52	1.21
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	1,296	96,845	973	99.53	1.33
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	997	78,079	558	139.93	1.79
Southern OR	KLAMATH FALLS	MODOC	5L36	MODOC	1,969	566,346	856	661.62	2.30
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	1,412	66,048	1,391	47.48	1.02
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	1,210	56,932	1,194	47.68	1.01
Southern OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	7,159	1,048,150	1,489	703.93	4.81
Southern OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	853	51,428	431	119.32	1.98
Southern OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	1,552	162,671	522	311.63	2.97
Southern OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	2,689	89,953	1,215	74.04	2.21
Southern OR	KLAMATH FALLS	TEXUM	5L113	TOWER	424	24,607	283	86.95	1.50
Southern OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	2,026	122,078	1,487	82.10	1.36
Southern OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	885	65,078	825	78.88	1.07
Southern OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	244	53,485	318	168.19	0.77
Southern OR	KLAMATH FALLS	WEST SIDE	5L12	ORINDALE	1,629	114,634	809	141.70	2.01
Southern OR	KLAMATH FALLS	WEST SIDE	5L15	CALIFORNIA	2,705	189,498	1,363	139.03	1.98
Southern OR	KLAMATH FALLS	WEST SIDE	5L16	MAIN ST (WEST SIDE HE PLANT)	110	5,112	111	46.06	0.99
Southern OR	KLAMATH FALLS	WEST SIDE	5L17	PINE ST (WEST SIDE HE PLANT)	1,078	128,281	498	257.59	2.16
Southern OR	KLAMATH FALLS	WEST SIDE	5L18	RIVERSIDE (WEST SIDE HE PLANT)	1,240	114,070	591	193.01	2.10
Southern OR	KLAMATH FALLS	WEST SIDE	5L19	LAKESHORE	615	58,044	305	190.31	2.02
Southern OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	1,035	209,770	707	296.70	1.46
Southern OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	175	37,198	1,737	21.41	0.10
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R241	CITY	18	1,815	12	151.28	1.50
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	1,073	145,789	915	159.33	1.17
Southern OR	MEDFORD	BEALL LANE	5R361	BULLDOG	892	76,475	1,758	43.50	0.51
Southern OR	MEDFORD	BEALL LANE	5R364	BOBCAT	308	26,855	2,167	12.39	0.14
Southern OR	MEDFORD	BELKNAP	5R1	KOGAP	1,125	100,977	1,007	100.28	1.12

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Southern OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	1	42	662	0.06	0.00
Southern OR	MEDFORD	BELKNAP	5R3	BARNETT	205	43,623	1,631	26.75	0.13
Southern OR	MEDFORD	BELKNAP	5R47	STEWART	226	36,850	2,298	16.04	0.10
Southern OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	81	15,317	1,947	7.87	0.04
Southern OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	388	68,338	1,722	39.69	0.23
Southern OR	MEDFORD	BROOKHURST	5R32	ROXY	214	61,931	1,834	33.77	0.12
Southern OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	117	35,150	1,724	20.39	0.07
Southern OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	1,292	110,916	1,229	90.25	1.05
Southern OR	MEDFORD	CAMPBELL	5R218	PHOENIX	787	80,776	719	112.35	1.09
Southern OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	1,290	133,461	1,228	108.68	1.05
Southern OR	MEDFORD	CAMPBELL	5R312	COBRA	516	70,514	1,528	46.15	0.34
Southern OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	7,624	841,005	1,622	518.50	4.70
Southern OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	3,786	468,521	1,386	338.04	2.73
Southern OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	49	12,178	773	15.75	0.06
Southern OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	132	25,957	1,166	22.26	0.11
Southern OR	MEDFORD	FRALEY	5R87	TABLE ROCK	1,835	181,060	529	342.27	3.47
Southern OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	1,345	125,662	255	492.79	5.27
Southern OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	3,555	523,744	2,059	254.37	1.73
Southern OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	213	25,984	2,753	9.44	0.08
Southern OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	5,851	320,969	1,772	181.13	3.30
Southern OR	MEDFORD	HUMBURG CREEK	5R287	HUMMINGBIRD	343	104,157	692	150.52	0.50
Southern OR	MEDFORD	JACKSONVILLE	5R284	STAGE RD	1,615	282,925	2,114	133.83	0.76
Southern OR	MEDFORD	JACKSONVILLE	5R285	JACKSONVILLE HWY	175	33,867	2,226	15.21	0.08
Southern OR	MEDFORD	MEDFORD	5R21	MELROSE	3,349	99,041	1,581	62.64	2.12
Southern OR	MEDFORD	MEDFORD	5R23	SPRING ST.	178	46,632	1,623	28.73	0.11
Southern OR	MEDFORD	MEDFORD	5R250	BIG Y	2,081	70,136	1,876	37.39	1.11
Southern OR	MEDFORD	MEDFORD	5R253	APPLE	1,307	299,969	1,110	270.24	1.18
Southern OR	MEDFORD	MEDFORD	5R659	MCLEAN	114	27,001	677	39.88	0.17
Southern OR	MEDFORD	MEDFORD	5R257	PEAR	195	20,471	794	25.78	0.25
Southern OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	2,187	425,472	1,517	280.47	1.44
Southern OR	MEDFORD	OAK KNOLL	5R56	HIGHWAY 99	112	12,118	112	108.20	1.00
Southern OR	MEDFORD	PROSPECT CNTRL	5R40	CASCADE GORGE COTTAGES	26	4,041	332	12.17	0.08
Southern OR	MEDFORD	RED BLANKET	7R5	PROSPECT	980	321,008	395	812.68	2.48
Southern OR	MEDFORD	ROXY ANN	5R350	St. Bernard	390	44,503	1,348	33.01	0.29
Southern OR	MEDFORD	ROXY ANN	5R354	RACCOON	363	61,000	1,581	38.58	0.23
Southern OR	MEDFORD	RUCH	5R68	APPLEGATE	4,115	793,010	942	841.84	4.37
Southern OR	MEDFORD	RUCH	5R69	RUCH	198	83,074	543	152.99	0.36
Southern OR	MEDFORD	SAGE ROAD (OR)	5R209	TIMBER PROD	2	886	1	886.40	2.00
Southern OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	3,672	1,354,120	1,792	755.65	2.05
Southern OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	3,682	845,880	922	917.44	3.99
Southern OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	222	39,609	111	356.84	2.00
Southern OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	5,976	1,626,769	2,133	762.67	2.80
Southern OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	2,190	239,421	726	329.78	3.02
Southern OR	MEDFORD	SCENIC	5R174	UPTON	2,029	79,537	2,008	39.61	1.01
Southern OR	MEDFORD	SCENIC	5R180	HEAD RD	67	13,972	1,189	11.75	0.06
Southern OR	MEDFORD	SCENIC	5R182	TAYLOR RD	121	17,667	1,542	11.46	0.08
Southern OR	MEDFORD	SCENIC	5R184	CHENEY	92	9,031	1,918	4.71	0.05

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Southern OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	683	62,779	2,446	25.67	0.28
Southern OR	MEDFORD	STEVENS ROAD	4R17	Stingray	3,781	240,506	2,615	91.97	1.45
Southern OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	816	87,914	1,161	75.72	0.70
Southern OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	896	187,364	2,666	70.28	0.34
Southern OR	MEDFORD	TALENT	5R237	TALENT	350	51,100	2,067	24.72	0.17
Southern OR	MEDFORD	TALENT	5R238	ANDERSON CRK	781	47,077	1,663	28.31	0.47
Southern OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	283	18,878	1,551	12.17	0.18
Southern OR	MEDFORD	TALENT	5R240	NORTH HWY	219	35,003	944	37.08	0.23
Southern OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	19	2,437	161	15.14	0.12
Southern OR	MEDFORD	TOLO	5R91	SAMS VALLEY	1,393	151,438	654	231.56	2.13
Southern OR	MEDFORD	TOLO	5R92	KIRTLAND RD	258	15,796	221	71.47	1.17
Southern OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	318	69,917	972	71.93	0.33
Southern OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	2,275	199,399	1,478	134.91	1.54
Southern OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	921	6,201	910	6.81	1.01
Southern OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	1,659	124,983	1,489	83.94	1.11
Southern OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	-	-	37	-	-
Southern OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	28	2,128	24	88.67	1.17
Southern OR	MEDFORD	WHITE CITY	5R14	AGATE	456	40,088	231	173.54	1.97
Southern OR	MEDFORD	WHITE CITY	5R19	3M	143	8,238	129	63.86	1.11
Southern OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	2,306	207,776	1,923	108.05	1.20
Southern OR	MEDFORD	WHITE CITY	5R76	AVE C	89	8,426	78	108.02	1.14
Southern OR	ROSEBURG/MYRTLE CRK	CANYONVILLE	5U46	CANYONVILLE	391	25,802	391	65.99	1.00
Southern OR	ROSEBURG/MYRTLE CRK	CANYONVILLE	5U52	BEALS CREEK FEEDER	1,777	277,961	888	313.02	2.00
Southern OR	ROSEBURG/MYRTLE CRK	CARNES	5U44	RND PRARIE	1,765	164,828	427	386.01	4.13
Southern OR	ROSEBURG/MYRTLE CRK	CLEARWATER #1 SUB	6U17	BRIGGS	3	4,024	3	1,341.30	1.00
Southern OR	ROSEBURG/MYRTLE CRK	CLOAKE	4U38	HARVARD	200	34,393	2,983	11.53	0.07
Southern OR	ROSEBURG/MYRTLE CRK	CLOAKE	4U39	GOEDECK	563	69,794	1,281	54.48	0.44
Southern OR	ROSEBURG/MYRTLE CRK	GARDEN VALLEY	4U80	EDENBOWER	32	4,537	805	5.64	0.04
Southern OR	ROSEBURG/MYRTLE CRK	GARDEN VALLEY	4U81	VALLEY	1,325	78,777	1,398	56.35	0.95
Southern OR	ROSEBURG/MYRTLE CRK	GLIDE SUBSTATION	5U83	IDLEYLD	1,095	296,455	917	323.29	1.19
Southern OR	ROSEBURG/MYRTLE CRK	GLIDE SUBSTATION	5U84	LITTLE RIVER	1,324	212,469	1,371	154.97	0.97
Southern OR	ROSEBURG/MYRTLE CRK	GREEN SUBSTATION	5U32	SAFARI	3,928	470,176	2,265	207.58	1.73
Southern OR	ROSEBURG/MYRTLE CRK	GREEN SUBSTATION	5U33	SUNNYSLOPE	3,595	117,660	1,648	71.40	2.18
Southern OR	ROSEBURG/MYRTLE CRK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOSER	25	5,582	27	206.75	0.93
Southern OR	ROSEBURG/MYRTLE CRK	LEMOLO # 1	5U920	DIAMOND LAKE	846	352,920	178	1,982.70	4.75
Southern OR	ROSEBURG/MYRTLE CRK	MYRTLE CREEK	5U76	SUPER Y	2,356	217,265	1,547	140.44	1.52
Southern OR	ROSEBURG/MYRTLE CRK	MYRTLE CREEK	5U77	BOOMER HILL	3,506	461,182	1,205	382.72	2.91
Southern OR	ROSEBURG/MYRTLE CRK	OAKLAND (OR)	5U11	UMPQUA	168	34,988	1,309	26.73	0.13
Southern OR	ROSEBURG/MYRTLE CRK	OAKLAND (OR)	5U12	STAGECOACH	6	1,165	554	2.10	0.01
Southern OR	ROSEBURG/MYRTLE CRK	RIDDLE	5U1	TRI CITY	3,120	327,347	2,130	153.68	1.46
Southern OR	ROSEBURG/MYRTLE CRK	RIDDLE	5U2	COW CREEK	1,629	110,179	1,573	70.04	1.04
Southern OR	ROSEBURG/MYRTLE CRK	RIDDLE	5U3	HANNA	304	22,986	286	80.37	1.06
Southern OR	ROSEBURG/MYRTLE CRK	RIDDLE-VENEER	5U23	FORD MILL	1	66	1	66.40	1.00
Southern OR	ROSEBURG/MYRTLE CRK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	32	2,549	30	84.97	1.07
Southern OR	ROSEBURG/MYRTLE CRK	ROSEBURG	4U10	DIAMOND	6,289	526,735	2,522	208.86	2.49
Southern OR	ROSEBURG/MYRTLE CRK	ROSEBURG	4U22	DIXON	792	127,205	1,243	102.34	0.64
Southern OR	ROSEBURG/MYRTLE CRK	ROSEBURG	4U5	DOUGLAS	138	10,874	2,170	5.01	0.06

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Southern OR	ROSEBURG/MYRTLE CRK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	3	1,224	4	305.95	0.75
Southern OR	ROSEBURG/MYRTLE CRK	SODA SPRINGS HE PLT	6U10	CB6U10	1	408	1	407.72	1.00
Southern OR	ROSEBURG/MYRTLE CRK	SOUTHGATE	4U30	SHADY POINT	482	156,776	1,639	95.65	0.29
Southern OR	ROSEBURG/MYRTLE CRK	SOUTHGATE	4U31	BOOTH	1,807	140,417	1,553	90.42	1.16
Southern OR	ROSEBURG/MYRTLE CRK	SUTHERLIN	5U35	NON-PAREIL	71	15,590	1,315	11.86	0.05
Southern OR	ROSEBURG/MYRTLE CRK	SUTHERLIN	5U36	DEADY	316	41,278	1,367	30.20	0.23
Southern OR	ROSEBURG/MYRTLE CRK	SUTHERLIN	5U56	Industrial	1	362	545	0.66	0.00
Southern OR	ROSEBURG/MYRTLE CRK	TILLER	5U89	JACKSON CRK	919	174,385	300	581.28	3.06
Southern OR	ROSEBURG/MYRTLE CRK	TOKETEE	6U21	BACK UP FOR CLEARWATER 6U33	20	799	-	-	-
Southern OR	ROSEBURG/MYRTLE CRK	WINCHESTER	4U18	WILBUR	376	61,500	1,652	37.23	0.23
Southern OR	ROSEBURG/MYRTLE CRK	WINCHESTER	5U15	NEWTON CREEK	1,838	92,376	1,802	51.26	1.02
Southern OR	ROSEBURG/MYRTLE CRK	WINCHESTER	5U17	FISHER	665	138,987	785	177.05	0.85
Southern OR	ROSEBURG/MYRTLE CRK	WINCHESTER	5U19	EVANS	32	10,162	738	13.77	0.04
Southern OR	ROSEBURG/MYRTLE CRK	WINSTON	5U48	BROCKWAY	1,896	200,708	871	230.43	2.18
Southern OR	ROSEBURG/MYRTLE CRK	WINSTON	5U49	DILLARD	5,916	587,899	1,440	408.26	4.11
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	67	9,049	845	10.71	0.08
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	685	95,754	1,240	77.22	0.55
Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	2,883	330,066	720	458.43	4.00
Willamette Valley	ALBANY	JEFFERSON (OR)	4M125	MINT	12,519	1,507,306	2,527	596.48	4.95
Willamette Valley	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	6,941	621,520	4,156	149.55	1.67
Willamette Valley	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	8	740	4	184.90	2.00
Willamette Valley	ALBANY	MURDER CREEK	5M131	WAH CHANG SOUTH	2	182	1	181.50	2.00
Willamette Valley	ALBANY	MURDER CREEK	4M245	RURAL NW	4,980	304,259	2,352	129.36	2.12
Willamette Valley	ALBANY	MURDER CREEK	4M249	DURA-PACIFIC	2,448	150,749	179	842.17	13.68
Willamette Valley	ALBANY	OREMET	4M295	OAK CREEK	1	54	97	0.56	0.01
Willamette Valley	ALBANY	OREMET	4M296	ROGERSDALE	5,152	436,367	2,160	202.02	2.39
Willamette Valley	ALBANY	QUEEN AVE	4M217	SANTIAM	3,830	289,228	1,882	153.68	2.04
Willamette Valley	ALBANY	QUEEN AVE	4M258	HILL STREET	3,620	236,749	2,875	82.35	1.26
Willamette Valley	ALBANY	QUEEN AVE	4M261	WAVERLY	9,167	807,689	3,655	220.98	2.51
Willamette Valley	ALBANY	QUEEN AVE	4M262	GEARY STREET	8,186	460,937	2,637	174.80	3.10
Willamette Valley	ALBANY	VINE STREET	4M15	FERRY	133	19,324	3,224	5.99	0.04
Willamette Valley	ALBANY	VINE STREET	4M16	WATER STREET	1,701	262,826	4,379	60.02	0.39
Willamette Valley	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	3,243	827,524	2,956	279.95	1.10
Willamette Valley	CORVALLIS	BUCHANAN	4M133	PEORIA	6,960	1,197,468	2,432	492.38	2.86
Willamette Valley	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	456	71,306	2,596	27.47	0.18
Willamette Valley	CORVALLIS	DIXON	7M26	FOURTH ST.	1	37	232	0.16	0.00
Willamette Valley	CORVALLIS	DIXON	7M29	SECOND ST.	272	42,278	268	157.75	1.01
Willamette Valley	CORVALLIS	GRANT ST	4M265	HIGH SCHOOL	34	7,184	2,502	2.87	0.01
Willamette Valley	CORVALLIS	GRANT ST	4M266	CHINTIMINI	194	19,283	2,528	7.63	0.08
Willamette Valley	CORVALLIS	GRANT ST	4M268	KINGS ROAD	1,045	146,538	2,561	57.22	0.41
Willamette Valley	CORVALLIS	GRANT ST	4M269	29TH STREET	1,004	161,150	3,624	44.47	0.28
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	71	8,142	1,923	4.23	0.04
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	153	35,787	1,316	27.19	0.12
Willamette Valley	CORVALLIS	HILLVIEW	4M182	SUNSET	608	113,729	1,763	64.51	0.34
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	86	17,083	2,153	7.93	0.04
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	605	131,132	3,622	36.20	0.17
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	-	-	185	-	-

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Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	1	299	159	1.88	0.01
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	1,198	146,046	587	248.80	2.04
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	1,776	69,545	1,626	42.77	1.09
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	711	88,047	1,864	47.24	0.38
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	320	54,114	1,155	46.85	0.28
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	5	1,013	1,001	1.01	0.00
Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	2,705	308,723	1,154	267.52	2.34
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	5,029	199,839	2,410	82.92	2.09
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	1,728	19,084	1,622	11.77	1.07
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	400	135,725	2,099	64.66	0.19
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	683	140,251	3,152	44.50	0.22
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLENDALE	651	130,776	3,098	42.21	0.21
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	3,734	623,885	2,343	266.28	1.59
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	3,743	463,041	3,172	145.98	1.18
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	938	135,775	2,234	60.78	0.42
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	239	24,006	1,712	14.02	0.14
Willamette Valley	LEBANON	CALAPOOYA	4M850	SPAULDING	286	32,540	1,133	28.72	0.25
Willamette Valley	LEBANON	CALAPOOYA	4M851	BEAR	32	482	32	15.08	1.00
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	4,931	899,155	1,531	587.30	3.22
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	9	835	1,963	0.43	0.00
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	749	288,315	2,661	108.35	0.28
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	185	21,728	2,026	10.72	0.09
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	1,018	125,899	1,803	69.83	0.56
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	20	2,291	1,211	1.89	0.02
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	1,542	320,134	2,051	156.09	0.75
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	868	79,824	986	80.96	0.88
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	579	50,529	1,694	29.83	0.34
Willamette Valley	LEBANON	SWEET HOME	4M94	FOSTER	6,317	311,843	2,424	128.65	2.61
Willamette Valley	STAYTON	LYONS	4M120	MILL CITY	1,718	217,915	702	310.42	2.45
Willamette Valley	STAYTON	LYONS	4M70	MEHAMA	2,172	350,350	2,062	169.91	1.05
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	1,809	228,603	1,576	145.05	1.15
Willamette Valley	STAYTON	STAYTON	4M19	AUMSVILLE	554	92,324	3,504	26.35	0.16
Willamette Valley	STAYTON	STAYTON	4M353	WEST STAYTON	4,095	359,085	3,586	100.14	1.14
Willamette Valley	STAYTON	STAYTON	4M370	CASCADE	2,665	294,538	1,579	186.53	1.69
Willamette Valley	STAYTON	STAYTON	4M50	3RD STREET	264	48,999	924	53.03	0.29

Oregon 2022 Circuit Metrics (Including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit ID	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	84	10,911	2,469	4.42	0.03
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	238	40,020	1,314	30.46	0.18
Central OR	BEND/REDMOND	BEND	5D12	DIVISION ST.	10	1,496	214	6.99	0.05
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	7	390	1,427	0.27	0.00
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	3,947	401,370	2,956	135.78	1.34
Central OR	BEND/REDMOND	BOND STREET	5D413	OLD MILL.	529	46,261	530	87.29	1.00
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	1,395	127,341	1,374	92.68	1.02
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	2,992	218,694	2,330	93.86	1.28
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	4,140	270,827	1,728	156.73	2.40
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	2,765	109,566	2,522	43.44	1.10
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	1,574	87,435	1,280	68.31	1.23
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	2,693	143,530	1,060	135.41	2.54
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	1,608	58,163	1,505	38.65	1.07
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	6,492	384,903	4,082	94.29	1.59
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSDIAN	2,152	88,085	975	90.34	2.21
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	1,525	83,254	1,207	68.98	1.26
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	5,587	1,174,286	1,836	639.59	3.04
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	2,731	544,670	820	664.23	3.33
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	1,279	36,972	1,143	32.35	1.12
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	1,816	155,844	1,033	150.87	1.76
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	2,077	201,527	1,515	133.02	1.37
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	4,221	503,252	1,962	256.50	2.15
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	5,655	347,665	2,722	127.72	2.08
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	5,541	785,664	1,794	437.94	3.09
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	1,930	138,246	1,449	95.41	1.33
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	1,142	77,308	893	86.57	1.28
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	1,674	53,599	1,584	33.84	1.06
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	2,826	111,524	2,447	45.58	1.15
Central OR	BEND/REDMOND	PILOT BUTTE	5D265	DOBBIN	2,127	79,753	1,823	43.75	1.17
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	11	1,871	847	2.21	0.01
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	582	144,921	1,580	91.72	0.37
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	1,019	203,955	890	229.16	1.14
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	525	50,343	1,561	32.25	0.34
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	426	34,542	3,331	10.37	0.13
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	92	23,498	1,303	18.03	0.07
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	383	120,436	424	284.05	0.90
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	2,775	272,064	2,533	107.41	1.10
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	1,587	145,930	1,584	92.13	1.00
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	2,986	275,947	2,929	94.21	1.02
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	143	41,773	2,481	16.84	0.06
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	9	992	395	2.51	0.02
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	17	5,433	2,902	1.87	0.01
Central OR	MADRAS	CULVER	5D5	CULVER	2,034	602,060	1,860	323.69	1.09
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	1,940	233,407	1,074	217.32	1.81
Central OR	MADRAS	MADRAS	5D53	AGATE	1,687	144,527	1,385	104.35	1.22
Central OR	MADRAS	MADRAS	5D57	QUARTZ	1,792	151,102	1,482	101.96	1.21
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	1,676	157,878	1,286	122.77	1.30
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	335	76,566	679	112.76	0.49
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	19	2,509	886	2.83	0.02
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	985	112,266	2,776	40.44	0.35

Oregon 2022 Circuit Metrics (Including major events)

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Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	1,419	145,961	1,009	144.66	1.41
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	625	74,341	1,096	67.83	0.57
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	1,295	79,773	635	125.63	2.04
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	236	75,917	903	84.07	0.26
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	512	92,606	1,642	56.40	0.31
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	1,095	181,769	991	183.42	1.10
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	14,651	2,555,117	1,640	1,558.00	8.93
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	6,531	734,130	1,221	601.25	5.35
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	1,042	408,722	272	1,502.65	3.83
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	702	262,316	387	677.82	1.81
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	2,733	1,180,529	738	1,599.63	3.70
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	1,892	804,609	937	858.71	2.02
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	16,032	2,160,286	2,402	899.37	6.67
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	12,801	836,214	1,620	516.18	7.90
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	11,526	2,768,383	1,238	2,236.17	9.31
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	28,244	5,995,229	3,483	1,721.28	8.11
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	577	273,858	273	1,003.14	2.11
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	11,761	4,380,665	2,293	1,910.45	5.13
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	4,411	2,088,447	1,761	1,185.94	2.50
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	3,707	516,806	1,182	437.23	3.14
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	1,948	507,551	1,195	424.73	1.63
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	1,126	166,096	1,005	165.27	1.12
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	332	31,163	327	95.30	1.02
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	1,940	555,084	940	590.52	2.06
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	3,522	1,255,097	1,103	1,137.89	3.19
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	3,044	1,024,833	1,408	727.86	2.16
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	2,156	2,513,417	769	3,268.42	2.80
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	9,065	4,051,402	1,369	2,959.39	6.62
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	4,796	1,393,415	1,684	827.44	2.85
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	1,805	408,201	1,561	261.50	1.16
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	150	14,204	148	95.97	1.01
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C108	EMPIRE	3,212	699,688	1,758	398.00	1.83
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C89	SCOTT	42	22,196	1,443	15.38	0.03
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C90	CHARLESTON	3,740	2,053,494	2,107	974.61	1.78
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	2	258	32	8.05	0.06
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C48	CITY CENTER	90	29,133	1,499	19.44	0.06
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C49	EASTSIDE	145	154,345	778	198.39	0.19
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C5	GEORGIA-PAC	1	1,909	81	23.57	0.01
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C50	BUNKERHILL	4,380	1,137,644	1,866	609.67	2.35
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C97	ENGLEWOOD	510	262,788	1,382	190.15	0.37
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	805	629,498	334	1,884.73	2.41
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	6,990	2,709,394	2,089	1,296.98	3.35
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	5,579	675,032	1,814	372.12	3.08
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	4,986	882,275	1,718	513.55	2.90
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	2,678	159,908	2,217	72.13	1.21
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	1,926	120,480	1,813	66.45	1.06
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	249	87,549	715	122.45	0.35
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	935	130,451	2,061	63.29	0.45
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	1,640	165,534	1,278	129.53	1.28
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	113	19,338	1,805	10.71	0.06

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CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	2,170	520,324	1,201	433.24	1.81
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	660	89,743	1,469	61.09	0.45
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	3,156	559,873	790	708.70	3.99
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	290	49,450	285	173.51	1.02
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	9,574	1,315,353	1,914	687.23	5.00
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	7,744	671,182	3,079	217.99	2.52
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	13,701	2,253,167	4,509	499.70	3.04
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	2,505	514,278	665	773.35	3.77
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	3,150	805,502	712	1,131.32	4.42
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	950	195,161	360	542.11	2.64
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R114	BOYER	19	5,678	19	298.87	1.00
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	2,277	208,999	724	288.67	3.15
CoastPlus	PORTLAND	ALBINA	5P150	ALBINA 11C15	1	318	136	2.34	0.01
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P22	ALDERWOOD #2	1	152	202	0.75	0.00
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P33	ALDERWOOD #4	182	2,954	181	16.32	1.01
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	202	4,884	199	24.54	1.02
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	COLUMBIA #2	3,020	477,323	2,653	179.92	1.14
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	3	342	356	0.96	0.01
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	1,144	257,700	541	476.34	2.11
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	1,742	238,485	842	283.24	2.07
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	4,492	630,750	1,143	551.84	3.93
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	767	80,735	742	108.81	1.03
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	60	8,080	1,009	8.01	0.06
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	2,178	226,992	2,927	77.55	0.74
CoastPlus	PORTLAND	HOLLADAY (OR)	5P145	HOLLADAY #1-UG	200	67,443	203	332.23	0.99
CoastPlus	PORTLAND	HOLLADAY (OR)	5P147	HOLLADAY #3-UG	167	56,446	168	335.99	0.99
CoastPlus	PORTLAND	HOLLADAY (OR)	5P146	HOLLADAY #2-UG	341	114,991	343	335.25	0.99
CoastPlus	PORTLAND	HOLLADAY (OR)	5P158	HOLLADAY #6	1,894	87,661	917	95.60	2.07
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	1,620	105,609	1,533	68.89	1.06
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	490	75,613	433	174.63	1.13
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	6,660	650,257	2,355	276.12	2.83
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	1,111	254,712	3,674	69.33	0.30
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	1,956	440,186	2,349	187.39	0.83
CoastPlus	PORTLAND	KENNEDY	5P12	CB 5P12	126	30,497	1,374	22.20	0.09
CoastPlus	PORTLAND	KENNEDY	5P14	CB 5P14	151	35,144	1,942	18.10	0.08
CoastPlus	PORTLAND	KENNEDY	5P15	CB 5P15	881	106,761	1,325	80.57	0.66
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	156	14,246	317	44.94	0.49
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	24	3,473	299	11.62	0.08
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	404	108,997	1,006	108.35	0.40
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	11,899	1,740,771	1,759	989.64	6.76
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	678	76,768	3,529	21.75	0.19
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	420	116,091	2,420	47.97	0.17
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	2,544	269,939	2,441	110.59	1.04
CoastPlus	PORTLAND	KNOTT	5P372	11046	11	2,291	779	2.94	0.01
CoastPlus	PORTLAND	KNOTT	5P374	11020	48	10,803	1,025	10.54	0.05
CoastPlus	PORTLAND	LINCOLN (OR)	5P426	11D04-UG	1	94	668	0.14	0.00
CoastPlus	PORTLAND	LINCOLN (OR)	5P462	11G13-UG	31	551	31	17.77	1.00
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	63	9,805	2,367	4.14	0.03
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	49	9,446	3,290	2.87	0.01
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	12,720	2,774,696	3,109	892.47	4.09

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Oregon Regions	Op Area Name	Substation Name	Circuit ID	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
CoastPlus	PORTLAND	PARKROSE	5P717	PARKROSE 5	142	14,663	137	107.03	1.04
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	1,609	547,303	3,099	176.61	0.52
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	380	53,593	649	82.58	0.59
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	1,880	465,883	1,783	261.29	1.05
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	4,801	1,133,303	3,120	363.24	1.54
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	3,650	875,747	2,462	355.71	1.48
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	4,726	1,255,941	3,310	379.44	1.43
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	2,458	500,081	1,361	367.44	1.81
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	2,111	993,632	2,003	496.07	1.05
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	3,512	838,280	2,592	323.41	1.35
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	52	6,750	3,437	1.96	0.02
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	3,208	979,768	3,572	274.29	0.90
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	71	8,726	2,277	3.83	0.03
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	12,794	1,673,312	1,505	1,111.83	8.50
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	4,084	777,829	950	818.77	4.30
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	6,706	1,648,027	1,107	1,488.73	6.06
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	8,357	802,154	875	916.75	9.55
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	118	26,233	13	2,017.92	9.08
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	354	100,582	172	584.78	2.06
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	104	29,543	59	500.73	1.76
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	7,100	1,680,062	887	1,894.09	8.00
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	417	88,079	519	169.71	0.80
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	6	1,533	21	73.00	0.29
Northeast OR	HERMISTON	DALREED	4K16	WILLOW COVE	90	17,805	70	254.35	1.29
Northeast OR	HERMISTON	DALREED	4K36	SIMTAG	4	1,779	21	84.69	0.19
Northeast OR	HERMISTON	DALREED	4K46	BOEING	104	22,610	176	128.47	0.59
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	6,514	461,332	1,457	316.63	4.47
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	516	120,749	381	316.93	1.35
Northeast OR	HERMISTON	UMATILLA	5W664	PORT FEEDER	4	327	60	5.44	0.07
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	100	16,305	1,339	12.18	0.07
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	402	57,098	951	60.04	0.42
Northeast OR	PENDLETON	ATHENA	5W703	CITY	237	73,955	850	87.01	0.28
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	85	39,545	423	93.49	0.20
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	436	56,420	392	143.93	1.11
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	1,582	310,360	719	431.66	2.20
Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	46	2,676	1,070	2.50	0.04
Northeast OR	PENDLETON	MCKAY (OR)	5W856	MCKAY	2,853	470,356	1,812	259.58	1.57
Northeast OR	PENDLETON	MCKAY (OR)	5W857	WILDHORSE	24	3,653	142	25.73	0.17
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	520	97,420	1,498	65.03	0.35
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	1,054	248,616	2,050	121.28	0.51
Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	1,611	219,180	933	234.92	1.73
Northeast OR	PENDLETON	PENDLETON	7W452	NORTHWEST	1	1,468	531	2.76	0.00
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDLETON)	2	2,092	329	6.36	0.01
Northeast OR	PENDLETON	PILOT ROCK	5W404	MILL (PILOT ROCK)	3	154	2	76.79	1.50
Northeast OR	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	6,074	616,656	1,350	456.78	4.50
Northeast OR	PENDLETON	WESTON NEW (OR)	5W7	SCOTT'S FEEDER	107	16,493	454	36.33	0.24
Northeast OR	WALLA WALLA	UMAPINE	5W105	UMAPINE FEEDER	677	217,835	967	225.27	0.70
Northeast OR	WALLA WALLA	UMAPINE	5W106	FERNDALE	2,395	326,935	1,353	241.64	1.77
Southern OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	4,607	503,601	883	570.33	5.22
Southern OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	3,586	502,014	884	567.89	4.06

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Southern OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	2,094	167,884	1,012	165.89	2.07
Southern OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	5,071	2,464,645	1,070	2,303.41	4.74
Southern OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	2,247	1,072,645	1,330	806.50	1.69
Southern OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	2,632	355,449	1,275	278.78	2.06
Southern OR	GRANTS PASS	BEACON	5R105	BEACON ST	863	173,640	846	205.25	1.02
Southern OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	20,651	8,037,433	2,471	3,252.70	8.36
Southern OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH & READY	6,027	2,006,560	1,538	1,304.66	3.92
Southern OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	1,320	217,537	1,114	195.28	1.18
Southern OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	28	9,122	1,218	7.49	0.02
Southern OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	231	30,213	579	52.18	0.40
Southern OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	186	14,951	1,237	12.09	0.15
Southern OR	GRANTS PASS	DOWELL	5R331	DOVE	220	55,482	1,504	36.89	0.15
Southern OR	GRANTS PASS	DOWELL	5R334	DUCK	364	294,994	2,598	113.55	0.14
Southern OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	344	44,242	2,228	19.86	0.15
Southern OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	737	165,445	1,816	91.10	0.41
Southern OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	3,951	616,906	1,346	458.33	2.94
Southern OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	3,187	416,441	1,863	223.53	1.71
Southern OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	2,536	604,835	877	689.66	2.89
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	12,398	1,957,113	1,889	1,036.06	6.56
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	1,987	201,005	651	308.76	3.05
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	11,263	3,810,224	1,652	2,306.43	6.82
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	9,000	1,724,928	1,618	1,066.09	5.56
Southern OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	167	40,466	1,029	39.33	0.16
Southern OR	GRANTS PASS	MERLIN	5R234	PARADISE	781	199,443	1,208	165.10	0.65
Southern OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	1,375	74,761	1,140	65.58	1.21
Southern OR	GRANTS PASS	MERLIN	5R251	BADGER	1,880	244,592	937	261.04	2.01
Southern OR	GRANTS PASS	MERLIN	5R288	MONARCH	5,598	131,215	1,769	74.17	3.16
Southern OR	GRANTS PASS	O'BRIEN	5R106	O'BRIEN	2,249	1,367,179	435	3,142.94	5.17
Southern OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	439	188,605	2,214	85.19	0.20
Southern OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	45	15,273	1,006	15.18	0.04
Southern OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	2,050	975,065	2,195	444.22	0.93
Southern OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	435	15,475	324	47.76	1.34
Southern OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	2,879	257,823	1,393	185.08	2.07
Southern OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	7,292	4,116,442	1,455	2,829.17	5.01
Southern OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMER	15,171	2,946,057	1,884	1,563.72	8.05
Southern OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	4,346	771,859	1,063	726.11	4.09
Southern OR	GRANTS PASS	SELMA	5R65	DEER CREEK	5,871	2,024,325	1,208	1,675.77	4.86
Southern OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	3,285	391,086	390	1,002.79	8.42
Southern OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	1,498	140,048	422	331.87	3.55
Southern OR	KLAMATH FALLS	BOISE CASCADE	7L9	BOISE CASCAD	1	565	1	565.22	1.00
Southern OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	1,581	212,693	470	452.54	3.36
Southern OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	2,185	103,119	2,145	48.07	1.02
Southern OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	1,874	89,016	1,832	48.59	1.02
Southern OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	3,947	311,980	1,953	159.74	2.02
Southern OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	2,640	133,338	2,473	53.92	1.07
Southern OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	5,442	800,235	1,174	681.63	4.64
Southern OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	2,689	397,194	1,035	383.76	2.60
Southern OR	KLAMATH FALLS	CHILOQUIN MRKT	5L37	WILLIAMSON	569	119,544	576	207.54	0.99
Southern OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	357	51,460	264	194.93	1.35
Southern OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	750	52,903	502	105.39	1.49

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Southern OR	KLAMATH FALLS	HAMAKER	5L55	KENO	5,241	645,139	1,704	378.60	3.08
Southern OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	340	30,726	165	186.22	2.06
Southern OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	124	8,866	233	38.05	0.53
Southern OR	KLAMATH FALLS	HENLEY	5L59	WEST	170	24,379	537	45.40	0.32
Southern OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	4,016	238,783	2,896	82.45	1.39
Southern OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	1,924	157,348	1,500	104.90	1.28
Southern OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	232	11,100	230	48.26	1.01
Southern OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	7	324	7	46.27	1.00
Southern OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	3,382	232,286	2,456	94.58	1.38
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	1,300	97,273	973	99.97	1.34
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	1,028	80,326	558	143.95	1.84
Southern OR	KLAMATH FALLS	MODOC	5L36	MODOC	1,970	566,522	856	661.82	2.30
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	1,413	66,209	1,391	47.60	1.02
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	1,292	63,842	1,194	53.47	1.08
Southern OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	9,014	1,283,909	1,489	862.26	6.05
Southern OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	853	51,428	431	119.32	1.98
Southern OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	1,552	162,671	522	311.63	2.97
Southern OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	2,692	90,310	1,215	74.33	2.22
Southern OR	KLAMATH FALLS	TEXUM	5L113	TOWER	424	24,607	283	86.95	1.50
Southern OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	2,106	135,369	1,487	91.03	1.42
Southern OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	1,413	77,947	825	94.48	1.71
Southern OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	246	53,750	318	169.02	0.77
Southern OR	KLAMATH FALLS	WEST SIDE	5L12	ORINDALE	2,375	243,817	809	301.38	2.94
Southern OR	KLAMATH FALLS	WEST SIDE	5L15	CALIFORNIA	2,705	189,498	1,363	139.03	1.98
Southern OR	KLAMATH FALLS	WEST SIDE	5L16	MAIN ST (WEST SIDE HE PLANT)	120	6,628	111	59.71	1.08
Southern OR	KLAMATH FALLS	WEST SIDE	5L17	PINE ST (WEST SIDE HE PLANT)	1,078	128,281	498	257.59	2.16
Southern OR	KLAMATH FALLS	WEST SIDE	5L18	RIVERSIDE (WEST SIDE HE PLANT)	1,240	114,070	591	193.01	2.10
Southern OR	KLAMATH FALLS	WEST SIDE	5L19	LAKESHORE	615	58,044	305	190.31	2.02
Southern OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	1,757	331,292	707	468.59	2.49
Southern OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	178	37,331	1,737	21.49	0.10
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R241	CITY	18	1,815	12	151.28	1.50
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	1,076	146,743	915	160.38	1.18
Southern OR	MEDFORD	BEALL LANE	5R361	BULLDOG	892	76,475	1,758	43.50	0.51
Southern OR	MEDFORD	BEALL LANE	5R364	BOBCAT	308	26,855	2,167	12.39	0.14
Southern OR	MEDFORD	BELKNAP	5R1	KOGAP	1,125	100,977	1,007	100.28	1.12
Southern OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	664	67,745	662	102.33	1.00
Southern OR	MEDFORD	BELKNAP	5R3	BARNETT	206	43,686	1,631	26.78	0.13
Southern OR	MEDFORD	BELKNAP	5R47	STEWART	227	37,186	2,298	16.18	0.10
Southern OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	81	15,317	1,947	7.87	0.04
Southern OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	388	68,338	1,722	39.69	0.23
Southern OR	MEDFORD	BROOKHURST	5R32	ROXY	214	61,931	1,834	33.77	0.12
Southern OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	117	35,150	1,724	20.39	0.07
Southern OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	1,339	122,123	1,229	99.37	1.09
Southern OR	MEDFORD	CAMPBELL	5R218	PHOENIX	787	80,776	719	112.35	1.09
Southern OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	1,291	133,696	1,228	108.87	1.05
Southern OR	MEDFORD	CAMPBELL	5R312	COBRA	519	71,025	1,528	46.48	0.34
Southern OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	9,251	927,480	1,622	571.81	5.70
Southern OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	5,023	596,235	1,386	430.18	3.62
Southern OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	49	12,178	773	15.75	0.06
Southern OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	132	25,957	1,166	22.26	0.11

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Southern OR	MEDFORD	FRALEY	5R87	TABLE ROCK	1,837	181,199	529	342.53	3.47
Southern OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	1,855	174,947	255	686.06	7.27
Southern OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	3,965	600,190	2,059	291.50	1.93
Southern OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	214	26,146	2,753	9.50	0.08
Southern OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	9,432	685,295	1,772	386.74	5.32
Southern OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	2,564	468,555	692	677.10	3.71
Southern OR	MEDFORD	JACKSONVILLE	5R284	STAGE RD	3,781	496,328	2,114	234.78	1.79
Southern OR	MEDFORD	JACKSONVILLE	5R285	JACKSONVILLE HWY	394	91,027	2,226	40.89	0.18
Southern OR	MEDFORD	MEDFORD	5R21	MELROSE	3,353	99,707	1,581	63.07	2.12
Southern OR	MEDFORD	MEDFORD	5R23	SPRING ST.	179	46,687	1,623	28.77	0.11
Southern OR	MEDFORD	MEDFORD	5R250	BIG Y	2,081	70,136	1,876	37.39	1.11
Southern OR	MEDFORD	MEDFORD	5R253	APPLE	1,307	299,969	1,110	270.24	1.18
Southern OR	MEDFORD	MEDFORD	5R257	PEAR	195	20,471	794	25.78	0.25
Southern OR	MEDFORD	MEDFORD	5R659	MCLEAN	114	27,001	677	39.88	0.17
Southern OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	3,719	675,593	1,517	445.35	2.45
Southern OR	MEDFORD	OAK KNOLL	5R56	HIGHWAY 99	132	16,979	112	151.60	1.18
Southern OR	MEDFORD	PROSPECT CNTRL	5R40	CASCADE GORGE COTTAGES	357	57,602	332	173.50	1.08
Southern OR	MEDFORD	RED BLANKET	7R5	PROSPECT	1,447	525,300	395	1,329.87	3.66
Southern OR	MEDFORD	ROXY ANN	5R350	St. Bernard	390	44,503	1,348	33.01	0.29
Southern OR	MEDFORD	ROXY ANN	5R354	RACCOON	363	61,000	1,581	38.58	0.23
Southern OR	MEDFORD	RUCH	5R68	APPLEGATE	9,260	2,195,416	942	2,330.59	9.83
Southern OR	MEDFORD	RUCH	5R69	RUCH	742	170,649	543	314.27	1.37
Southern OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	3,672	1,354,120	1,792	755.65	2.05
Southern OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	3,682	845,880	922	917.44	3.99
Southern OR	MEDFORD	SAGE ROAD (OR)	5R209	TIMBER PROD	2	886	1	886.40	2.00
Southern OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	222	39,609	111	356.84	2.00
Southern OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	5,976	1,626,769	2,133	762.67	2.80
Southern OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	2,195	239,884	726	330.42	3.02
Southern OR	MEDFORD	SCENIC	5R174	UPTON	2,278	170,306	2,008	84.81	1.13
Southern OR	MEDFORD	SCENIC	5R180	HEAD RD	76	14,363	1,189	12.08	0.06
Southern OR	MEDFORD	SCENIC	5R182	TAYLOR RD	398	46,101	1,542	29.90	0.26
Southern OR	MEDFORD	SCENIC	5R184	CHENEY	92	9,031	1,918	4.71	0.05
Southern OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	3,137	96,686	2,446	39.53	1.28
Southern OR	MEDFORD	STEVENS ROAD	4R17	Stingray	6,412	276,952	2,615	105.91	2.45
Southern OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	1,979	104,945	1,161	90.39	1.70
Southern OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	6,237	794,818	2,666	298.13	2.34
Southern OR	MEDFORD	TALENT	5R237	TALENT	350	51,100	2,067	24.72	0.17
Southern OR	MEDFORD	TALENT	5R238	ANDERSON CRK	4,628	363,081	1,663	218.33	2.78
Southern OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	283	18,878	1,551	12.17	0.18
Southern OR	MEDFORD	TALENT	5R240	NORTH HWY	219	35,003	944	37.08	0.23
Southern OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	19	2,437	161	15.14	0.12
Southern OR	MEDFORD	TOLO	5R91	SAMS VALLEY	1,482	161,637	654	247.15	2.27
Southern OR	MEDFORD	TOLO	5R92	KIRTLAND RD	258	15,796	221	71.47	1.17
Southern OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	318	69,917	972	71.93	0.33
Southern OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	2,275	199,399	1,478	134.91	1.54
Southern OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	921	6,201	910	6.81	1.01
Southern OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	1,659	124,983	1,489	83.94	1.11
Southern OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	28	2,128	24	88.67	1.17
Southern OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	-	-	37	55	-
Southern OR	MEDFORD	WHITE CITY	5R14	AGATE	456	40,088	231	173.54	1.97

Oregon 2022 Circuit Metrics (Including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit ID	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Southern OR	MEDFORD	WHITE CITY	5R19	3M	143	8,238	129	63.86	1.11
Southern OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	2,306	207,776	1,923	108.05	1.20
Southern OR	MEDFORD	WHITE CITY	5R76	AVE C	89	8,426	78	108.02	1.14
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U46	CANYONVILLE	396	26,860	391	68.70	1.01
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U52	BEALS CREEK FEEDER	1,795	279,742	888	315.03	2.02
Southern OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	1,799	170,263	427	398.74	4.21
Southern OR	ROSEBURG/MYRTLECREEK	CLEARWATER #1 SUB	6U17	BRIGGS	3	4,024	3	1,341.30	1.00
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	200	34,393	2,983	11.53	0.07
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	569	70,692	1,281	55.19	0.44
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	32	4,537	805	5.64	0.04
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	1,357	100,017	1,398	71.54	0.97
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	2,624	512,033	917	558.38	2.86
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	3,685	974,515	1,371	710.81	2.69
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	6,104	1,038,921	2,265	458.68	2.69
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	3,596	118,155	1,648	71.70	2.18
Southern OR	ROSEBURG/MYRTLECREEK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOSER	50	10,343	27	383.06	1.85
Southern OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	1,204	516,508	178	2,901.73	6.76
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	4,347	455,965	1,547	294.74	2.81
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	4,776	638,479	1,205	529.86	3.96
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	200	76,549	1,309	58.48	0.15
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	6	1,165	554	2.10	0.01
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	3,121	328,269	2,130	154.12	1.47
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	1,698	123,918	1,573	78.78	1.08
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	382	37,271	286	130.32	1.34
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U23	FORD MILL	1	66	1	66.40	1.00
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	32	2,549	30	84.97	1.07
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	6,289	526,735	2,522	208.86	2.49
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	894	186,102	1,243	149.72	0.72
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	139	11,060	2,170	5.10	0.06
Southern OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	3	1,224	4	305.95	0.75
Southern OR	ROSEBURG/MYRTLECREEK	SODA SPRINGS HE PLT	6U10	CB6U10	1	408	1	407.72	1.00
Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	547	204,831	1,639	124.97	0.33
Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	1,807	140,417	1,553	90.42	1.16
Southern OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	42	34,191	21	1,628.15	2.00
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	72	16,065	1,315	12.22	0.05
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	319	41,871	1,367	30.63	0.23
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	1	362	545	0.66	0.00
Southern OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	1,187	405,758	300	1,352.53	3.96
Southern OR	ROSEBURG/MYRTLECREEK	TOKETEE	6U21	BACK UP FOR CLEARWATER 6U33	20	799	-	-	-
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	376	61,500	1,652	37.23	0.23
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	1,844	92,655	1,802	51.42	1.02
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	665	138,987	785	177.05	0.85
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	32	10,162	738	13.77	0.04
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	1,896	200,708	871	230.43	2.18
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	6,319	768,803	1,440	533.89	4.39
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	67	9,049	845	10.71	0.08
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	986	115,886	1,240	93.46	0.80
Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	2,899	351,817	720	488.63	4.03
Willamette Valley	ALBANY	JEFFERSON (OR)	4M125	MINT	12,533	1,515,089	2,527	599.56	4.96
Willamette Valley	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	6,967	635,679	4,156	152.95	1.68

Oregon 2022 Circuit Metrics (Including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit ID	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Willamette Valley	ALBANY	MURDER CREEK	4M245	RURAL NW	5,176	465,741	2,352	198.02	2.20
Willamette Valley	ALBANY	MURDER CREEK	4M249	DURA-PACIFIC	2,458	153,193	179	855.83	13.73
Willamette Valley	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	8	740	4	184.90	2.00
Willamette Valley	ALBANY	MURDER CREEK	5M131	WAH CHANG SOUTH	2	182	1	181.50	2.00
Willamette Valley	ALBANY	OREMET	4M295	OAK CREEK	1	54	97	0.56	0.01
Willamette Valley	ALBANY	OREMET	4M296	ROGERSDALE	5,152	436,367	2,160	202.02	2.39
Willamette Valley	ALBANY	QUEEN AVE	4M217	SANTIAM	3,830	289,228	1,882	153.68	2.04
Willamette Valley	ALBANY	QUEEN AVE	4M258	HILL STREET	3,620	236,749	2,875	82.35	1.26
Willamette Valley	ALBANY	QUEEN AVE	4M261	WAVERLY	9,167	807,689	3,655	220.98	2.51
Willamette Valley	ALBANY	QUEEN AVE	4M262	GEARY STREET	8,187	460,991	2,637	174.82	3.10
Willamette Valley	ALBANY	VINE STREET	4M15	FERRY	218	83,562	3,224	25.92	0.07
Willamette Valley	ALBANY	VINE STREET	4M16	WATER STREET	6,281	1,644,107	4,379	375.45	1.43
Willamette Valley	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	3,243	827,524	2,956	279.95	1.10
Willamette Valley	CORVALLIS	BUCHANAN	4M133	PEORIA	8,086	1,446,078	2,432	594.60	3.32
Willamette Valley	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	527	92,799	2,596	35.75	0.20
Willamette Valley	CORVALLIS	DIXON	7M26	FOURTH ST.	1	37	232	0.16	0.00
Willamette Valley	CORVALLIS	DIXON	7M29	SECOND ST.	272	42,278	268	157.75	1.01
Willamette Valley	CORVALLIS	GRANT ST	4M265	HIGH SCHOOL	41	7,824	2,502	3.13	0.02
Willamette Valley	CORVALLIS	GRANT ST	4M266	CHINTIMINI	3,842	42,918	2,528	16.98	1.52
Willamette Valley	CORVALLIS	GRANT ST	4M268	KINGS ROAD	1,048	149,012	2,561	58.18	0.41
Willamette Valley	CORVALLIS	GRANT ST	4M269	29TH STREET	1,100	204,706	3,624	56.49	0.30
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	2,007	600,564	1,923	312.31	1.04
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	1,472	591,111	1,316	449.17	1.12
Willamette Valley	CORVALLIS	HILLVIEW	4M182	SUNSET	2,511	423,997	1,763	240.50	1.42
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	2,403	972,472	2,153	451.68	1.12
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	636	138,169	3,622	38.15	0.18
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	26	18,137	185	98.04	0.14
Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	1	299	159	1.88	0.01
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	1,198	146,046	587	248.80	2.04
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	3,400	92,215	1,626	56.71	2.09
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	1,324	275,763	1,864	147.94	0.71
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	327	56,569	1,155	48.98	0.28
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	1,002	37,304	1,001	37.27	1.00
Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	3,929	802,409	1,154	695.33	3.40
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	7,587	280,773	2,410	116.50	3.15
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	3,406	68,690	1,622	42.35	2.10
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	2,633	771,849	2,099	367.72	1.25
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	3,827	966,996	3,152	306.79	1.21
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLEDALE	3,895	1,221,791	3,098	394.38	1.26
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	7,037	1,604,214	2,343	684.68	3.00
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	7,142	760,470	3,172	239.74	2.25
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	3,722	623,914	2,234	279.28	1.67
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	278	87,180	1,712	50.92	0.16
Willamette Valley	LEBANON	CALAPOOYA	4M850	SPAULDING	1,647	315,917	1,133	278.83	1.45
Willamette Valley	LEBANON	CALAPOOYA	4M851	BEAR	32	482	32	15.08	1.00
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	5,943	1,370,896	1,531	895.42	3.88
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	9	835	1,963	0.43	0.00
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	1,045	333,780	2,661	125.43	0.39
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	195	24,445	2,026	12.07	0.10
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	2,801	1,139,058	1,803	631.76	1.55

Oregon 2022 Circuit Metrics (Including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit ID	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	20	2,291	1,211	1.89	0.02
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	3,550	1,247,894	2,051	608.43	1.73
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	1,424	180,806	986	183.37	1.44
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	633	86,440	1,694	51.03	0.37
Willamette Valley	LEBANON	SWEET HOME	4M94	FOSTER	9,906	1,511,828	2,424	623.69	4.09
Willamette Valley	STAYTON	LYONS	4M120	MILL CITY	3,346	499,172	702	711.07	4.77
Willamette Valley	STAYTON	LYONS	4M70	MEHAMA	6,025	1,483,699	2,062	719.54	2.92
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	4,025	983,157	1,576	623.83	2.55
Willamette Valley	STAYTON	STAYTON	4M19	AUMSVILLE	693	119,932	3,504	34.23	0.20
Willamette Valley	STAYTON	STAYTON	4M353	WEST STAYTON	4,302	449,307	3,586	125.29	1.20
Willamette Valley	STAYTON	STAYTON	4M370	CASCADE	2,759	310,983	1,579	196.95	1.75
Willamette Valley	STAYTON	STAYTON	4M50	3RD STREET	264	48,999	924	53.03	0.29

VEGETATION MANAGEMENT

OREGON									
Tree Program Reporting									
Report as of Mar 31, 2023									
Distribution Three Year Cycle Jan 1,2022 - Dec 31,2024									
Total					Total Cycle Reporting				
Total Line Miles	1/1/2023 - 12/31/2023 Miles Planned	1/1/2023 - 12/31/2023 Miles Actual	1/1/2023 - 12/31/2023 Remaining	1/1/2023 - 12/31/2023 % Complete	1/1/2022 through end of cycle Miles Planned	1/1/2022 through end of cycle Miles Actual	1/1/2022 through end of cycle Remaining	1/1/2022 through end of cycle % Complete	
column a	column b	column c	column d	column e	column f	column g	column h	column i	
Oregon	13,934	4,747	1,687	(3,061)	36%	14,121	6,389	(7,732)	45%
ALBANY	538	-	-	-	0%	538	214	(324)	40%
CENTRAL OREGON	1,347	475	268	(207)	56%	1,347	710	(637)	53%
CLATSOP	375	137	56	(81)	41%	375	180	(195)	48%
COOS BAY	645	239	59	(180)	25%	645	291	(354)	45%
CORVALLIS	305	219	3	(216)	1%	305	3	(302)	1%
COTTAGE GROVE	52	-	-	-	0%	52	52	-	100%
DALLAS	408	232	32	(200)	14%	408	32	(377)	8%
ENTERPRISE	429	72	-	(72)	0%	429	194	(235)	45%
GRANTS PASS	1,627	557	214	(343)	38%	1,627	751	(876)	46%
HERMISTON	254	56	-	(56)	0%	254	106	(148)	42%
HOOD RIVER	320	77	35	(42)	45%	320	203	(117)	63%
JUNCTION CITY	155	-	-	-	0%	155	155	-	100%
KLAMATH FALLS	1,831	621	290	(331)	47%	1,831	922	(909)	50%
LAKEVIEW	61	-	-	-	0%	61	22	(39)	36%
LEBANON	696	-	-	-	0%	696	386	(310)	55%
LINCOLN CITY	164	46	46	-	100%	164	127	(37)	78%
MEDFORD	1,010	342	60	(282)	18%	1,010	386	(625)	38%
MILTON FREEWATER/WALLA WALLA(OR)	131	78	-	(78)	0%	131	41	(90)	32%
NO MEDFORD	894	300	107	(192)	36%	894	405	(490)	45%
PENDLETON	610	201	66	(135)	33%	610	180	(430)	29%
PORTLAND*	445	259	85	(174)	33%	632	272	(361)	43%
ROSEBURG	1,193	392	171	(221)	44%	1,193	565	(628)	47%
STAYTON	444	444	193	(251)	43%	444	193	(251)	43%
*Portland is on a two-year cycle									
Notes:									
Column a: Total overhead pole miles by district									
Column b: Total overhead pole miles planned for the year reported for performance from Jan 1, 2023, through Dec 31 2023									
Column c: Actual overhead pole miles worked for the year during the performance period Jan 1, 2023, through Dec 31 2023									
Column d: Miles remaining for the period Jan 1, 2023, through Dec 31, 2023 (column c-column b)									
Column e: Percent complete for the period Jan 1, 2023, through Dec 31, 2023 ((column c÷b)×100)									
Column f: Total overhead pole miles planned for the period Jan 1, 2022, through end of cycle									
Column g: Actual overhead pole miles worked during the period Jan 1, 2022, through end of cycle									
Column h: Miles remaining for the period Jan 1, 2022, through end of cycle (column g-column f)									
Column i: Percent complete for the period Jan 1, 2022, through end of cycle ((column g÷f)×100)									
* Conversion calculation for sq ft of brush to a tree was changed for in 2014 from 10 sq ft of brush = 1 tree to 100 sq ft of brush = 1 tree.									

VEGETATION MANAGEMENT

OREGON

Tree Program Reporting (C)

	2023	2024 est	2025 est	2026 est	2027 est	2028 est
Distribution						
Tree Budget	79,943,018	78,882,865	81,254,418	79,943,018	78,882,865	81,254,418
Transmission						
Tree Budget	6,059,365	5,734,673	6,012,389	6,059,365	5,734,673	6,012,389
Total Tree Budget	\$ 86,002,383	\$ 84,617,538	\$ 87,266,807	\$ 86,002,383	\$ 84,617,538	\$ 87,266,807

	2017	2018	2019	2020	2021	2022
Distribution						
Tree Actuals	18,646,639	18,502,712	22,848,077	34,190,176	42,336,338	77,118,337
Transmission						
Tree Actuals	2,660,821	2,528,003	2,524,520	2,267,173	2,392,704	4,064,943
Total Tree Actuals	\$ 21,307,460	\$ 21,030,715	\$ 25,372,597	\$ 36,457,349	\$ 44,729,042	\$ 81,183,280

Calendar Year 2023	Distribution		
	Actuals	Budget	Variance
Jan	\$ 6,595,072	\$ 3,741,915	\$ 2,853,157
Feb	\$ 7,945,491	\$ 5,343,150	\$ 2,602,341
Mar	\$ 9,284,732	\$ 6,751,574	\$ 2,533,157
Apr	\$ -		\$ -
May	\$ -		\$ -
Jun	\$ -		\$ -
Jul	\$ -		\$ -
Aug	\$ -		\$ -
Sep	\$ -		\$ -
Oct	\$ -		\$ -
Nov	\$ -		\$ -
Dec	\$ -		\$ -
Total	\$ 23,825,294	\$ 15,836,639	\$ 7,988,655

Transmission		
Actuals	Budget	Variance
\$ 57,573	\$ 226,209	\$ (168,636)
\$ 389,976	\$ 196,709	\$ 193,267
\$ 474,615	\$ 444,150	\$ 30,465
\$ -		\$ -
\$ -		\$ -
\$ -		\$ -
\$ -		\$ -
\$ -		\$ -
\$ -		\$ -
\$ -		\$ -
\$ -		\$ -
\$ -		\$ -
\$ -		\$ -
\$ 922,165	\$ 867,069	\$ 55,096

Average # Tree Crews on Property (YTD)	99
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INSPECTION AND MAINTENANCE PROGRAMS

Inspection and Repairs

In Calendar Year 2022 (January 01 through December 31, 2022), among distribution and transmission facilities (both overhead and underground), 2,441 'A' Priority conditions were recorded and 2,352 were corrected.

For 'B' priority conditions, 19,368 were identified and 20,299 were corrected in CY2022.

Reporting of 'C' priority conditions was terminated early 2014, however some are still occasionally entered into the inspection system inadvertently. 19 were identified in 2022 and these will be reviewed and reprioritized as required. 47 of 'C' priority conditions were corrected.

Pole and Overhead Facilities

- PacifiCorp is currently on a 5-year year cycle in Fire High Consequence Areas (FHCA) or High Fire Consequence Zones (HFRZ) and 10-year cycle for non-FHCA or non-HFRZ areas for the Detail inspections and 10-year cycle for treatment of overhead Distribution and Transmission facilities. In CY2022, 50,214 Distribution, 3,641 Local Transmission and 6,120 Main Grid Transmission Detail inspections were performed. Detail inspections were performed on 13.15% of the total 456,008 overhead facilities.
- 36,950 Distribution poles, 743 Local Transmission poles and 497 Main Grid Transmission poles were Tested and Treated. Test and Treatment was performed on 8.37% of the total 456,008 overhead facilities.
- PacifiCorp replaced or reinforced 1,354 poles that were rejected through the Test and Treat inspection program. The CY2022 rejection rate was 2.38%.

A. *Visual Inspections*

The visual inspection of the Distribution and Transmission systems is on a 1-year cycle in Fire High Consequence Areas (FHCA) or High Fire Consequence Zones (HFRZ) and 2-year cycle for non-FHCA or non-HFRZ areas. In CY2022, 218,068 Distribution, 21,662 Local Transmission and 11,641 Main Grid inspections were performed for a total of 251,371 inspections which equates to 55.12% of the total overhead facilities. Operations managers performed random re-inspections 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 CY2022, 12,216 inspections were performed: 9.01% of 135,643 underground facilities.

C. *Marina Inspection Program*

The inspection of marinas is annual. In CY2022, 100% of marinas were inspected.

D. *Line Equipment Maintenance*

Line Equipment – Overhead Reclosers, Sectionalizers, Regulators, Switches

INSPECTION AND MAINTENANCE PROGRAMS

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

SUBSTATION MAINTENANCE PROGRAMS

A. *Performance Measure X3 Substation Maintenance Programs*

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

B. *Substation Security Inspections*

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

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

PacifiCorp operates 282 substation and communication facilities in Oregon. PacifiCorp performed 96.64% of the planned substation security inspections in CY2022.

C. *Substation Equipment Inspections*

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

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

PacifiCorp performed 96.64% of the planned substation equipment inspections in Oregon in CY2022.

INSPECTION AND MAINTENANCE PROGRAMS

BUDGET

Pole Inspect & Treat			ACTUALS	BUDGET
Distribution	T&T	515	\$2,637,312	\$2,385,833
	Detail	520	-\$276,960	\$0
Transmission	T&T	843,883	\$172,295	\$172,735
	Detail	840,880	\$357,501	\$289,836
Total			\$2,890,149	\$2,848,404

Pole Replacements			ACTUALS	BUDGET
Distribution			\$14,777,336	\$9,873,107
Transmission			\$7,241,296	\$6,101,828
Total			\$22,018,632	\$15,974,935

Repair and Replace Facilities			ACTUALS	BUDGET
Distribution	500, 501, 502, 503, 504, 505, 509, 518, 526, 527, 595, 624, 625, 626, 905		\$15,700,932	\$14,550,878
Transmission	845, 847, 846, 865, 884, 886, 848, 889		\$1,183,007	\$3,309,156
Total			\$16,883,939	\$17,860,033

Visual Inspections (Includes Equipment Inspections)			ACTUALS	BUDGET
Distribution		521	\$278,282	\$476,372
Transmission		841,881	\$316,250	\$348,251
Total			\$594,532	\$824,623

Underground Inspections			ACTUALS	BUDGET
Distribution		508	\$497,423	\$376,191
Total			\$497,423	\$376,191

Substation Maintenance			ACTUALS	BUDGET
Distribution Preventative Maintenance			\$2,427,250	\$2,574,425
Distribution Corrective Maintenance			\$1,447,077	\$1,445,342
Transmission Preventative Maintenance			\$2,207,761	\$2,749,258
Transmission Corrective Maintenance			\$1,230,472	\$1,204,467
Total			\$7,312,560	\$7,973,492