

**OREGON STATE**  
**Damage Prevention Report**

2020 – Year End



Previous Report: September 08, 2020  
Report Date: May 10, 2021  
Report By: Lynsay Demko – Cascade Natural Gas, Public Awareness & Damage Prevention

## **Data Disclaimers**

- Not all facility operator/owners are submitting their excavation damage information. Only regulated pipeline operators are mandated to collect/track excavation damage information.
- Oregon State does not require annual excavation damage information submissions to CGA DIRT. Submissions are voluntary based.
- Not all facility operator/owners are submitting their excavation damage information to the Oregon State Portal in CGA DIRT. CGA only allows the OUNC Board permission to access information submitted to the Oregon State Portal.
- Root Cause, Excavator Type, and Excavation Equipment Type selections include heavy use of the “other” and “unknown/other” category.

## Risk by County

Zone	County	Insufficient Locating Practices					Total Damages		In Bound Locate Requests			Out Bound Locate Requests		
		Total Damages	In Bound Damages per 1,000	Risk Rank	Out Bound Damages per 1,000	Risk Rank	Total Damages	Risk Rank	Total Locates	Damages per 1,000	Risk Rank	Total Locates	Damages per 1,000	Risk Rank
1	OR-Clatsop	8	2.54	1	0.42	1	20	14	3,149	6.35	1	19,196	1.04	5
3	OR-Douglas	11	1.16	2	0.22	2	54	7	9,482	5.70	2	50,742	1.06	4
5	OR-Union	1	0.45	15	0.11	10	12	18	2,203	5.45	3	9,375	1.28	1
1	OR-Marion	27	1.12	3	0.20	3	127	4	24,151	5.26	4	134,906	0.94	6
3	OR-Josephine	2	0.33	18	0.07	16	32	10	6,104	5.24	5	27,371	1.17	2
5	OR-Malheur	1	0.52	12	0.12	8	9	19	1,912	4.71	6	8,403	1.07	3
3	OR-Klamath	5	0.81	4	0.15	4	27	12	6,195	4.36	7	33,860	0.80	7
4	OR-Jefferson	1	0.53	10	0.09	12	8	20	1,885	4.24	8	10,793	0.74	9
3	OR-Jackson	6	0.33	17	0.05	19	66	6	18,007	3.67	9	120,085	0.55	16
1	OR-Yamhill	6	0.68	6	0.13	5	32	11	8,807	3.63	10	47,345	0.68	10
2	OR-Linn	6	0.58	8	0.12	7	37	9	10,272	3.60	11	49,354	0.75	8
1	OR-Multnomah	33	0.50	14	0.08	14	226	1	65,417	3.45	12	398,904	0.57	12
1	OR-Clackamas	28	0.69	5	0.11	9	138	3	40,842	3.38	13	248,687	0.55	15
1	OR-Polk	1	0.14	22	0.02	22	24	13	7,220	3.32	14	43,247	0.55	14
5	OR-Umatilla	2	0.35	16	0.06	17	18	15	5,728	3.14	15	32,140	0.56	13
4	OR-Hood River	1	0.51	13	0.09	13	6	22	1,969	3.05	16	11,434	0.52	18
1	OR-Washington	27	0.53	11	0.08	15	149	2	51,330	2.90	17	341,994	0.44	20
2	OR-Lincoln	3	0.61	7	0.10	11	14	16	4,911	2.85	18	29,315	0.48	19
2	OR-Lane	6	0.24	20	0.05	20	70	5	24,730	2.83	19	128,620	0.54	17
4	OR-Wasco	1	0.54	9	0.12	6	5	23	1,839	2.72	20	8,190	0.61	11
2	OR-Benton	2	0.30	19	0.06	18	13	17	6,594	1.97	21	35,259	0.37	22
4	OR-Deschutes	4	0.15	21	0.03	21	47	8	26,315	1.79	22	142,751	0.33	24
1	OR-Columbia	0	-	-	-	-	7	21	3,971	1.76	23	19,659	0.36	23
5	OR-Morrow	0	-	-	-	-	3	24	1,842	1.63	24	7,821	0.38	21
4	OR-Crook	0	-	-	-	-	2	25	2,519	0.79	25	13,331	0.15	25
5	OR-Baker	0	-	-	-	-	1	27	1,923	0.52	26	9,232	0.11	26
3	OR-Coos	0	-	-	-	-	2	26	3,917	0.51	27	19,058	0.10	27
1	OR-Tillamook	0	-	-	-	-	0	-	2,306	0.00	-	13,680	0.00	-
3	OR-Curry	0	-	-	-	-	0	-	1,408	0.00	-	6,109	0.00	-
3	OR-Lake	0	-	-	-	-	0	-	881	0.00	-	2,156	0.00	-
4	OR-Sherman	0	-	-	-	-	0	-	344	0.00	-	1,159	0.00	-
5	OR-Gilliam	0	-	-	-	-	0	-	313	0.00	-	887	0.00	-
5	OR-Wheeler	0	-	-	-	-	0	-	240	0.00	-	738	0.00	-
5	OR-Wallowa	0	-	-	-	-	0	-	449	0.00	-	1,059	0.00	-
5	OR-Grant	0	-	-	-	-	0	-	649	0.00	-	2,781	0.00	-
5	OR-Harney	0	-	-	-	-	0	-	520	0.00	-	1,901	0.00	-
	<b>Grand Total</b>	<b>182</b>	<b>0.52</b>		<b>0.09</b>		<b>1149</b>		<b>350,344</b>	<b>3.28</b>		<b>2,031,542</b>	<b>0.57</b>	

## Risk by Area

Zone	Area	Insufficient Locating Practices					Total Damages		In Bound Locate Requests			Out Bound Locate Requests		
		Total Damages	In Bound Damages per 1,000	Risk Rank	Out Bound Damages per 1,000	Risk Rank	Total Damages	Risk Rank	Total Locates	Damages per 1,000	Risk Rank	Total Locates	Damages per 1,000	Risk Rank
3	09-Douglas	11	1.16	1	0.22	1	54	6	9,482	5.70	1	50,742	1.06	2
1	03-Mid-Willamette	28	0.89	2	0.16	2	151	2	31,371	4.81	2	178,153	0.85	4
5	17-Union County	1	0.38	12	0.10	10	12	14	2,652	4.52	3	10,434	1.15	1
3	11-Rogue Basin	8	0.33	13	0.05	14	98	3	24,111	4.06	4	147,456	0.66	8
3	12-Klamath	5	0.71	4	0.14	4	27	9	7,076	3.82	5	36,016	0.75	6
5	19-Malheur	1	0.41	11	0.10	9	9	15	2,432	3.70	6	10,304	0.87	3
1	04-Yamhill	6	0.68	5	0.13	5	32	8	8,807	3.63	7	47,345	0.68	7
2	07-East Linn	6	0.58	7	0.12	6	37	7	10,272	3.60	8	49,354	0.75	5
1	02-Metro	88	0.56	8	0.09	11	513	1	157,589	3.26	9	989,585	0.52	12
4	13-Hood River	1	0.51	9	0.09	12	6	16	1,969	3.05	10	11,434	0.52	11
1	01-N Coast	8	0.85	3	0.15	3	27	10	9,426	2.86	11	52,535	0.51	13
2	05-Lincoln Co.	3	0.61	6	0.10	8	14	12	4,911	2.85	12	29,315	0.48	15
2	08-Lane	6	0.24	16	0.05	16	70	4	24,730	2.83	13	128,620	0.54	9
5	16-Umatilla, Morrow Gilliam Co	2	0.25	15	0.05	15	21	11	8,123	2.59	14	41,586	0.50	14
4	14-Wasco Co.	1	0.46	10	0.11	7	5	17	2,183	2.29	15	9,349	0.53	10
2	06-Linn-Benton	2	0.30	14	0.06	13	13	13	6,594	1.97	16	35,259	0.37	16
4	15-Central OR	5	0.16	17	0.03	17	57	5	30,719	1.86	17	166,875	0.34	17
5	18-Baker	0	0.00	19	0.00	19	1	19	2,572	0.39	18	12,013	0.08	18
3	10-S Coast	0	0.00	18	0.00	18	2	18	5,325	0.38	19	25,167	0.08	19
	<b>Grand Total</b>	<b>182</b>	<b>0.52</b>		<b>0.09</b>		<b>1149</b>		<b>350,344</b>	<b>3.28</b>		<b>2,031,542</b>	<b>0.57</b>	

## Damage Root Cause by County

Zone	County	No Notification Made to One-Call Center/811	Insufficient One-Call/811 Notification Practices	Insufficient Excavation Practices	Insufficient Locating Practices	Other	Grand Total
1	OR-Clatsop	5	0	6	8	1	20
1	OR-Columbia	4	1	2	0	0	7
1	OR-Tillamook	0	0	0	0	0	0
1	OR-Clackamas	40	2	65	28	3	138
1	OR-Multnomah	70	2	114	33	7	226
1	OR-Washington	36	3	78	27	5	149
1	OR-Marion	42	3	54	27	1	127
1	OR-Polk	10	2	11	1	0	24
1	OR-Yamhill	9	1	15	6	1	32
2	OR-Lincoln	5	0	6	3	0	14
2	OR-Benton	4	0	7	2	0	13
2	OR-Linn	20	4	7	6	0	37
2	OR-Lane	28	0	32	6	4	70
3	OR-Douglas	13	7	21	11	2	54
3	OR-Coos	1	0	1	0	0	2
3	OR-Curry	0	0	0	0	0	0
3	OR-Jackson	26	4	27	6	3	66
3	OR-Josephine	17	2	8	2	3	32
3	OR-Klamath	12	1	7	5	2	27
3	OR-Lake	0	0	0	0	0	0
4	OR-Hood River	3	0	2	1	0	6
4	OR-Sherman	0	0	0	0	0	0
4	OR-Wasco	1	0	3	1	0	5
4	OR-Crook	2	0	0	0	0	2
4	OR-Deschutes	23	1	18	4	1	47
4	OR-Jefferson	2	0	4	1	1	8
5	OR-Gilliam	0	0	0	0	0	0
5	OR-Morrow	2	0	1	0	0	3
5	OR-Umatilla	9	0	7	2	0	18
5	OR-Wheeler	0	0	0	0	0	0
5	OR-Union	6	0	5	1	0	12
5	OR-Wallowa	0	0	0	0	0	0
5	OR-Baker	0	1	0	0	0	1
5	OR-Grant	0	0	0	0	0	0
5	OR-Harney	0	0	0	0	0	0
5	OR-Malheur	5	1	2	1	0	9
	<b>Grand Total</b>	<b>395</b>	<b>35</b>	<b>503</b>	<b>182</b>	<b>34</b>	<b>1149</b>

## Damage Root Cause by Area

Zone	Area	No Notification Made to One-Call Center/811	Insufficient One-Call/811 Notification Practices	Insufficient Excavation Practices	Insufficient Locating Practices	Other	Grand Total
1	01-N Coast	9	1	8	8	1	27
1	02-Metro	146	7	257	88	15	513
1	03-Mid-Willamette	52	5	65	28	1	151
1	04-Yamhill	9	1	15	6	1	32
2	05-Lincoln Co.	5	0	6	3	0	14
2	06-Linn-Benton	4	0	7	2	0	13
2	07-East Linn	20	4	7	6	0	37
2	08-Lane	28	0	32	6	4	70
3	09-Douglas	13	7	21	11	2	54
3	10-S Coast	1	0	1	0	0	2
3	11-Rogue Basin	43	6	35	8	6	98
3	12-Klamath	12	1	7	5	2	27
4	13-Hood River	3	0	2	1	0	6
4	14-Wasco Co.	1	0	3	1	0	5
4	15-Central OR	27	1	22	5	2	57
5	16-Umatilla, Morrow Gilliam Co	11	0	8	2	0	21
5	17-Union County	6	0	5	1	0	12
5	18-Baker	0	1	0	0	0	1
5	19-Malheur	5	1	2	1	0	9
	<b>Grand Total</b>	<b>395</b>	<b>35</b>	<b>503</b>	<b>182</b>	<b>34</b>	<b>1149</b>

## Incoming Locate Ticket Requests by Excavator Type

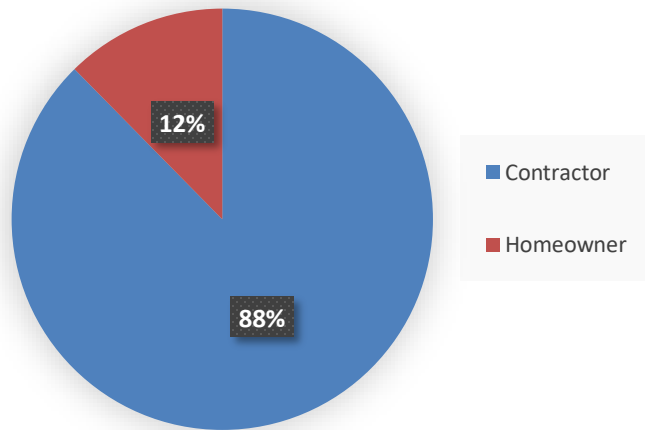
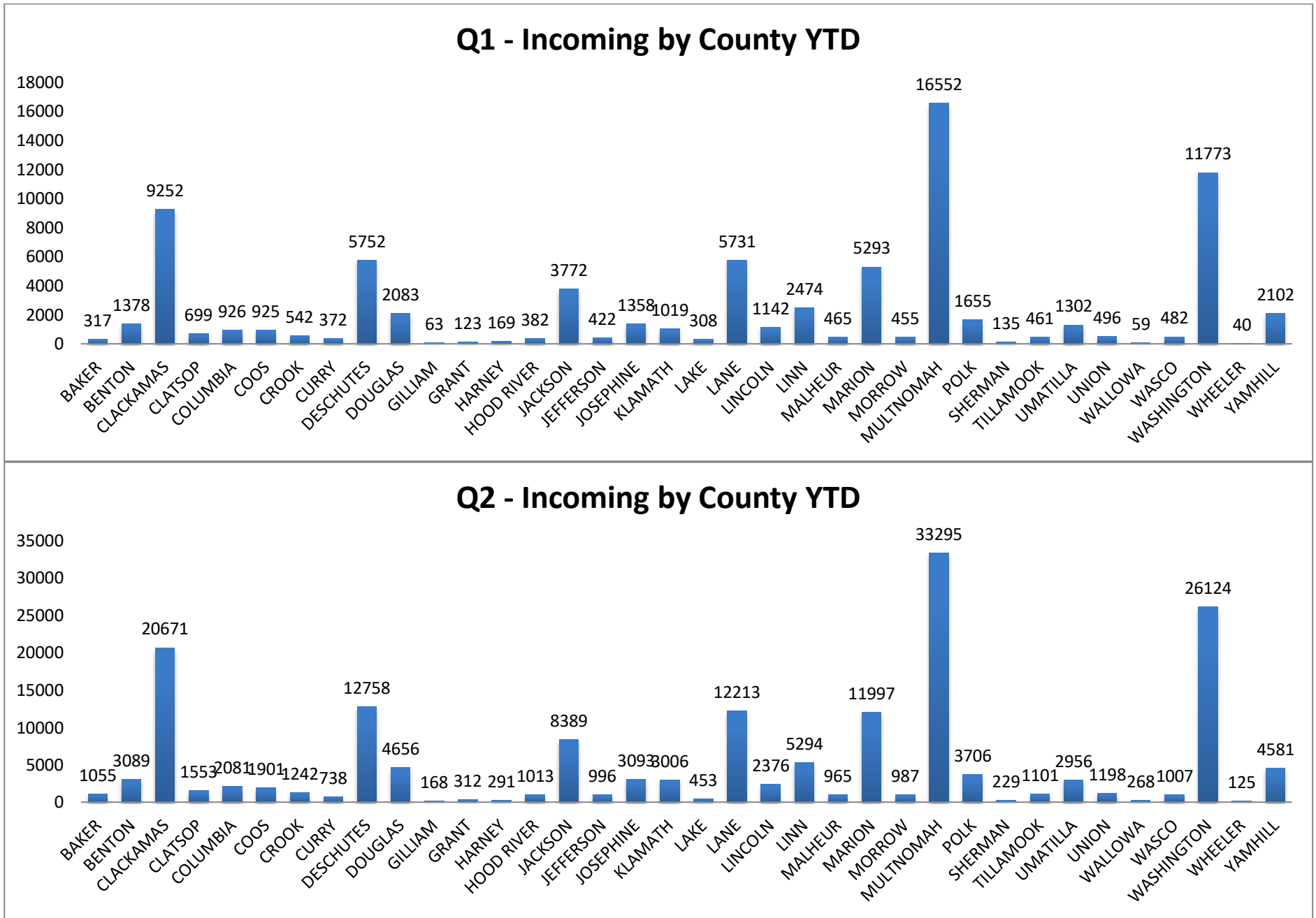
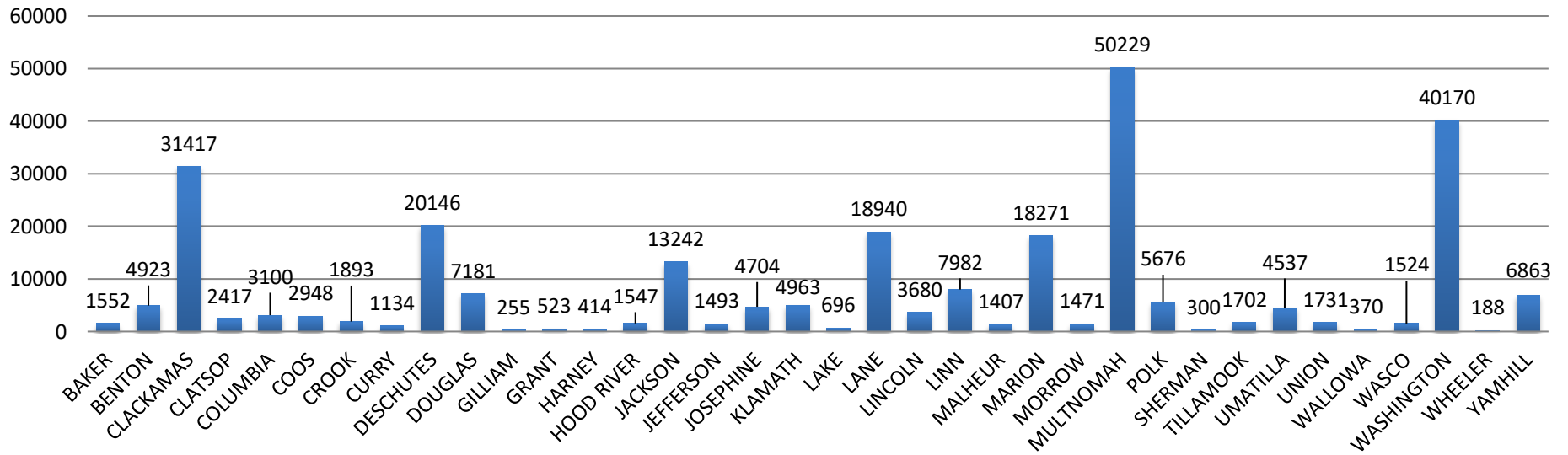


Figure 1 – Incoming Locate Ticket Requests by County



### Q3 - Incoming by County YTD



### Q4 - Incoming by County YTD

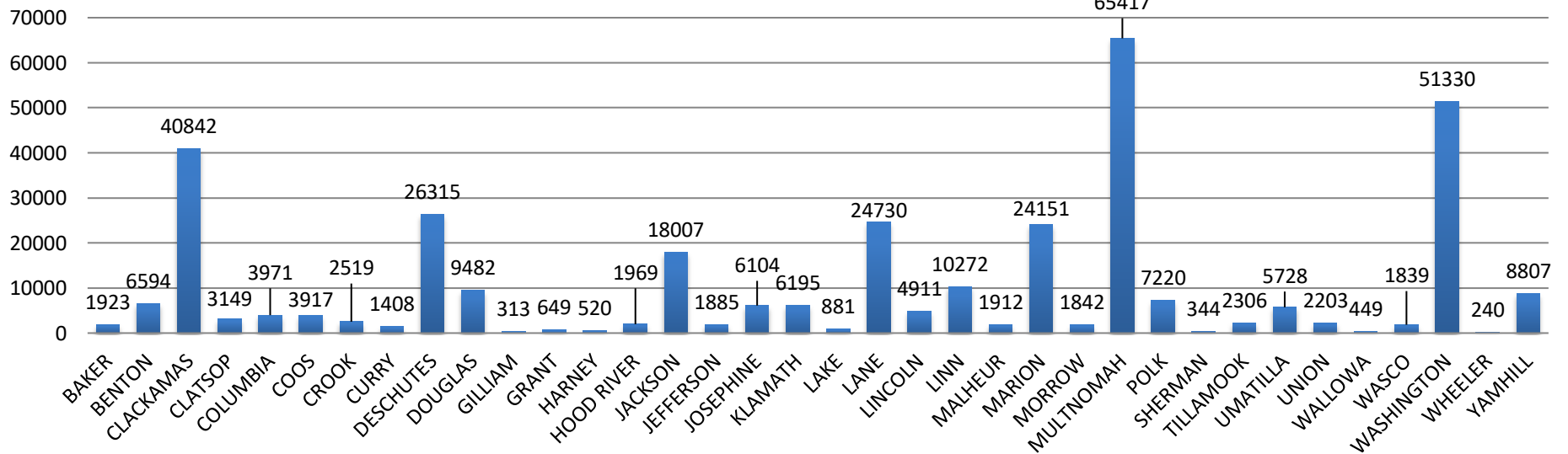
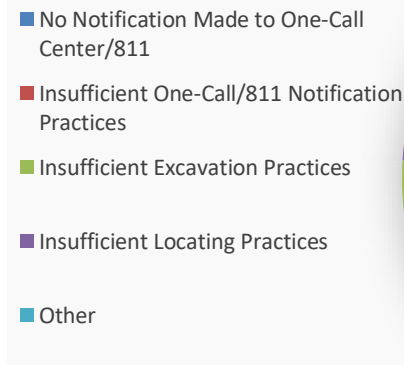
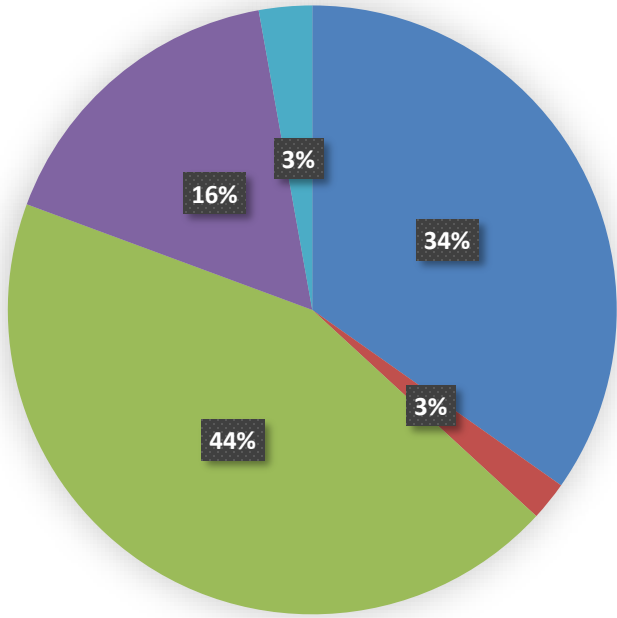


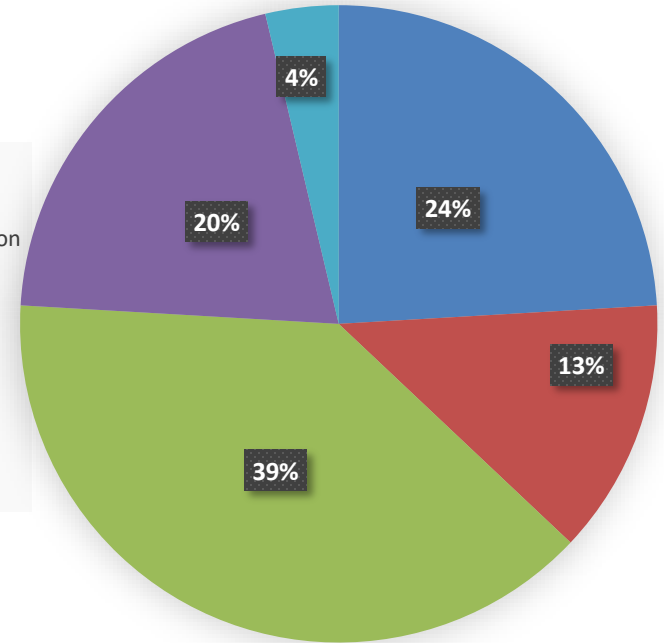


Figure 2 – Damages by Root Cause – Top 5 Damage Areas (determined by damages per 1,000 in bound locate ticket requests)

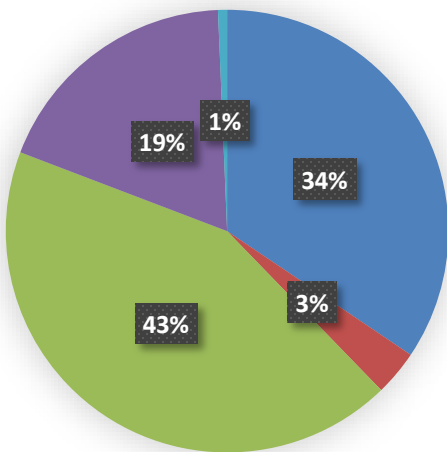
OR - ROOT CAUSE OF DAMAGES



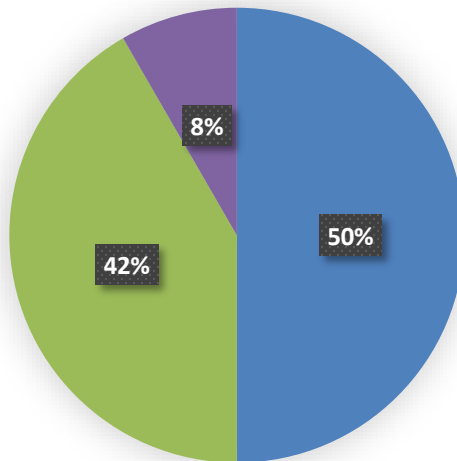
09-Douglas



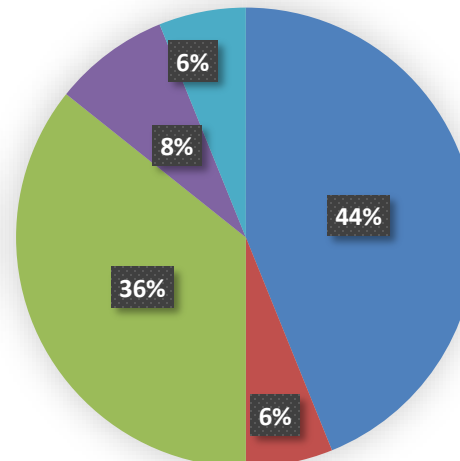
03-Mid-Willamette



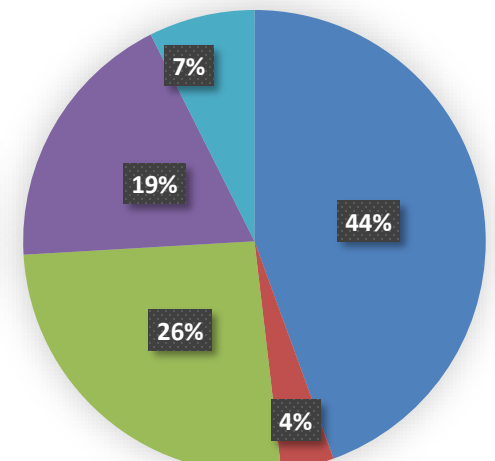
17-Union County



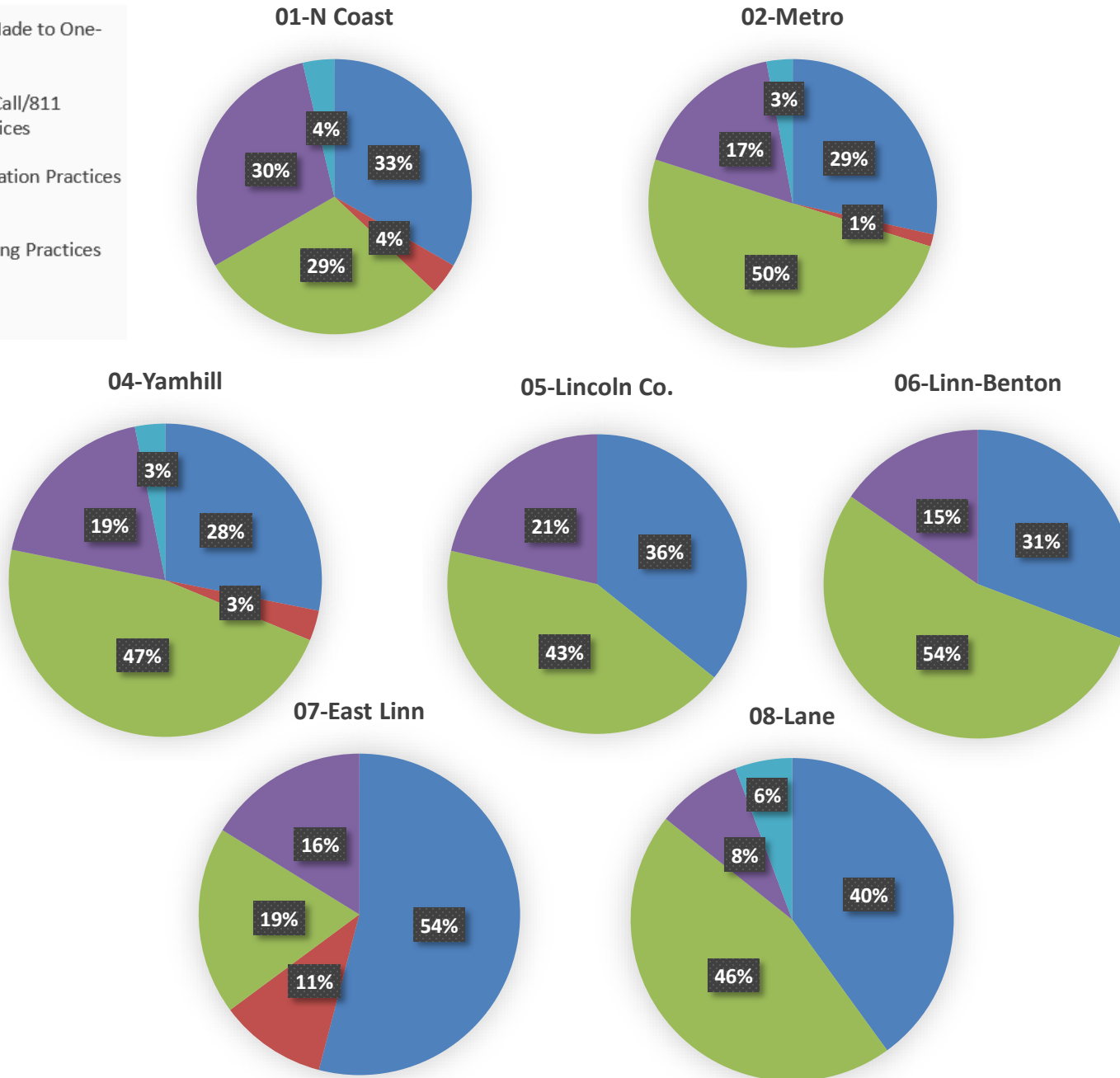
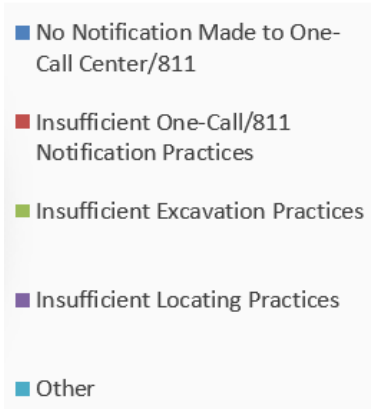
11-Rogue Basin



12-Klamath

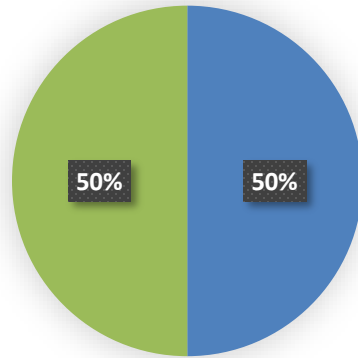


**Figure 3 – Damages by Root Cause – Remaining Areas (by damages per 1,000 in bound locate ticket requests)**

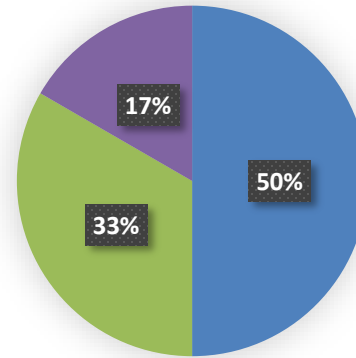


- No Notification Made to One-Call Center/811
- Insufficient One-Call/811 Notification Practices
- Insufficient Excavation Practices
- Insufficient Locating Practices
- Other

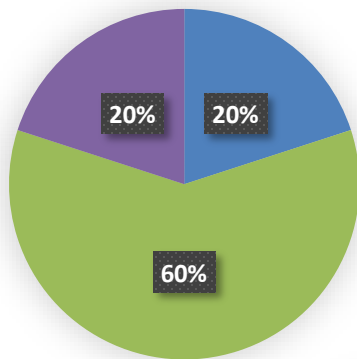
10-S Coast



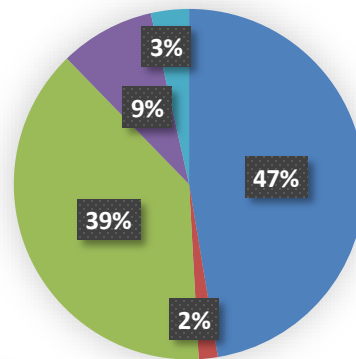
13-Hood River



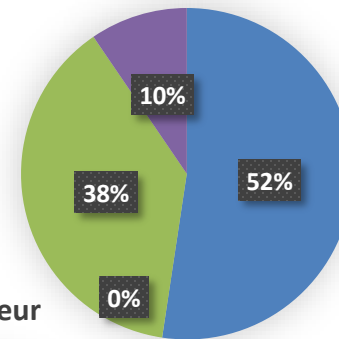
14-Wasco Co.



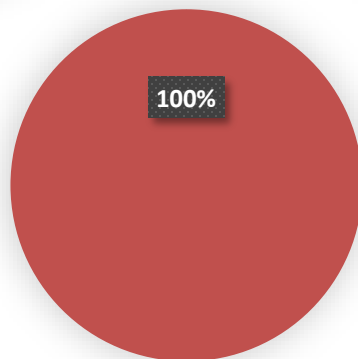
15-Central OR



16-Umatilla, Morrow Gilliam Co



18-Baker



19-Malheur

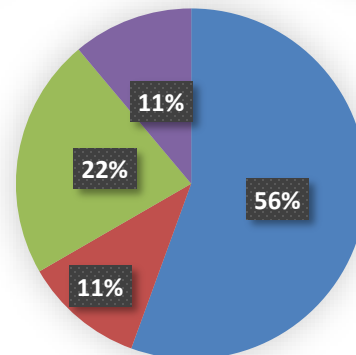
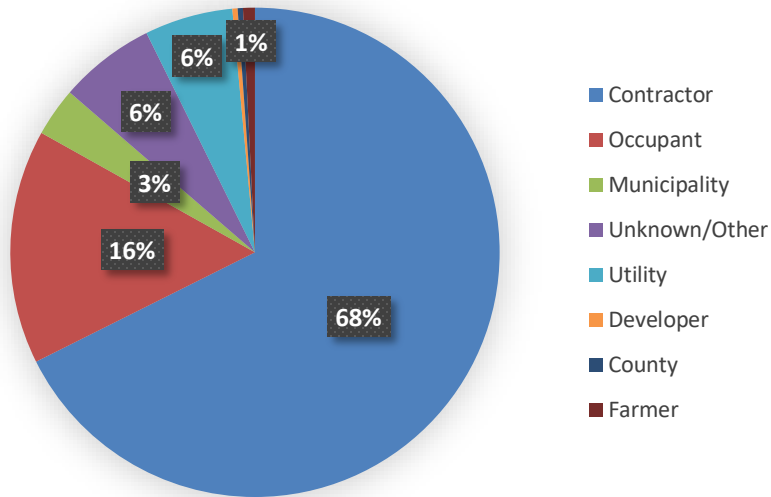
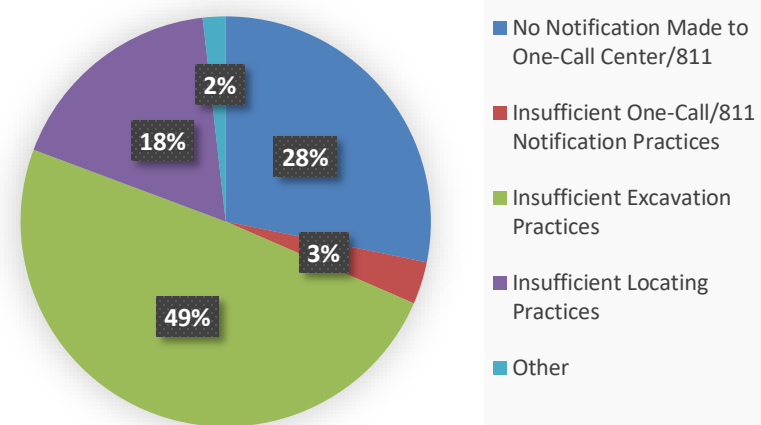


Figure 4 – Damages by Excavator Type and Work Performed

EXCAVATOR TYPE



CONTRACTOR - DAMAGE REASON



DAMAGE BY WORK PERFORMED

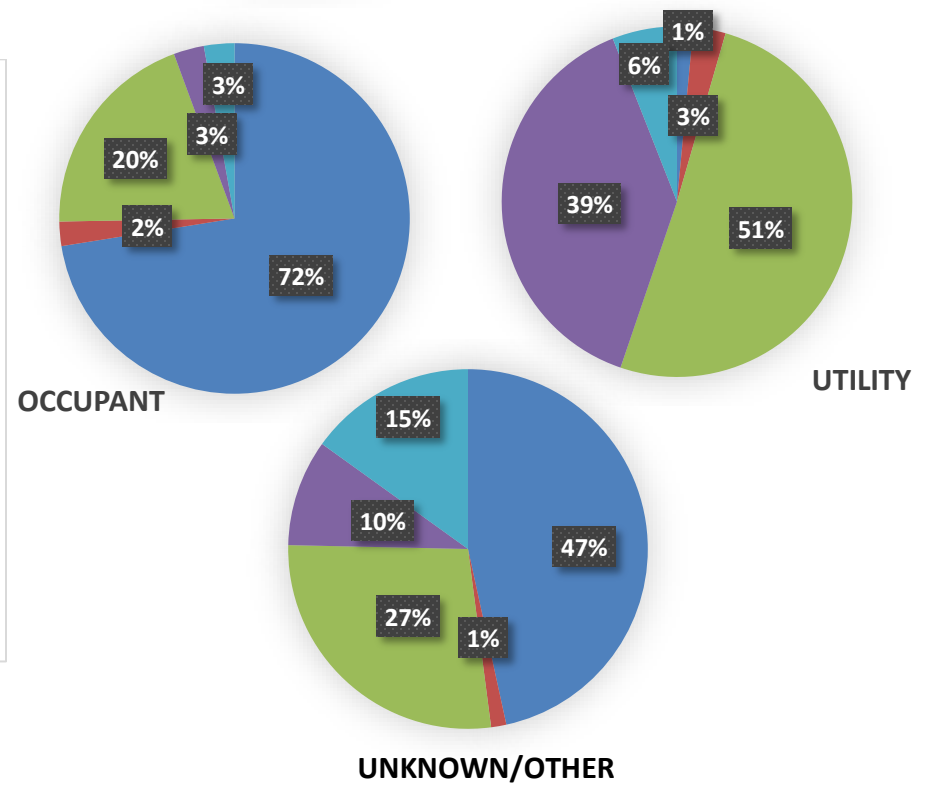
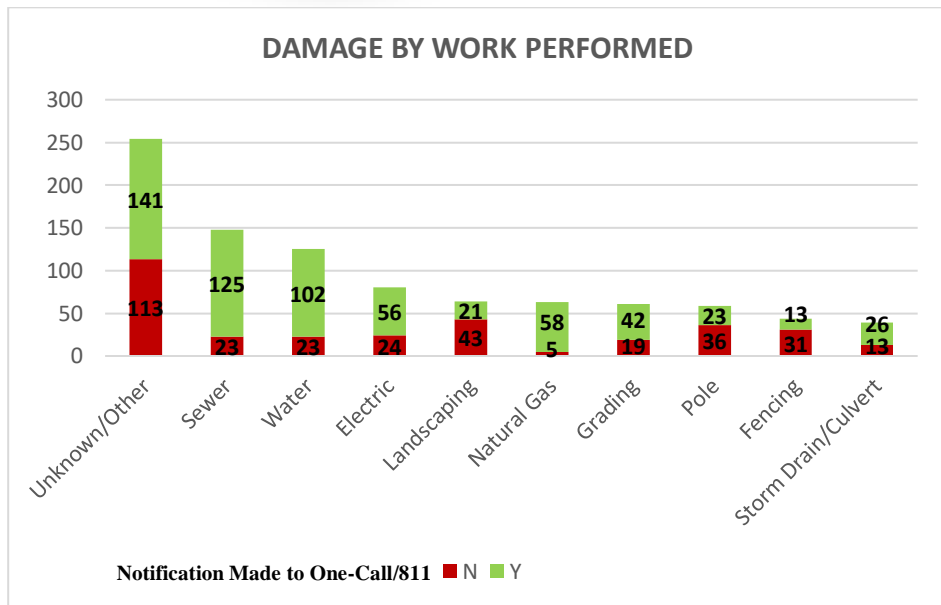


Figure 5 – Facility Type Damaged

Facility Damaged	Total Damages	Total Damage Percentage
Natural Gas	859	75%
Electric	195	17%
Cable TV	66	6%
Water	14	1%
Telecommunications	8	1%
Sewer	3	0%
Liquid Pipeline	2	0%
Steam	2	0%
<b>Grand Total</b>	<b>1149</b>	

Figure 6 –Insufficient Locating Practices Breakdown

Facility Damaged	Total Damages	Total Damage Percentage
Natural Gas	119	65%
Electric	40	22%
Cable TV	13	7%
Telecommunications	6	3%
Sewer	2	1%
Water	1	1%
Steam	1	1%
<b>Grand Total</b>	<b>182</b>	

	Marked inaccurately due to Locator error	Marked inaccurately due to Incorrect facility record/maps	Marked inaccurately due to Tracer wire issue	Marked inaccurately due to Abandoned Facility	Not marked due to Locator error	Not marked due to Incorrect facility records/maps	Site marked but incomplete at damage location	Unlocatable facility	No response from operator/contract locator	Not marked due to Tracer wire issue	Not Marked - Other	Grand Total
Cable TV	0	0	0	0	10	0	0	0	3	0	0	13
Electric	5	3	0	0	21	4	3	1	2	1	0	40
Natural Gas	65	2	3	0	11	27	8	1	0	0	2	119
Sewer	0	0	0	0	2	0	0	0	0	0	0	2
Water	1	0	0	0	0	0	0	0	0	0	0	1
Steam	0	0	0	0	1	0	0	0	0	0	0	1
Telecommunications	0	0	0	1	4	0	0	0	0	0	1	6
<b>Grand Total</b>	<b>71</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>49</b>	<b>31</b>	<b>11</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>182</b>