

2022 DIRT Report Findings

OUCC Board Meeting | September 20, 2023

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Executive Director
Oregon Utility Notification Center



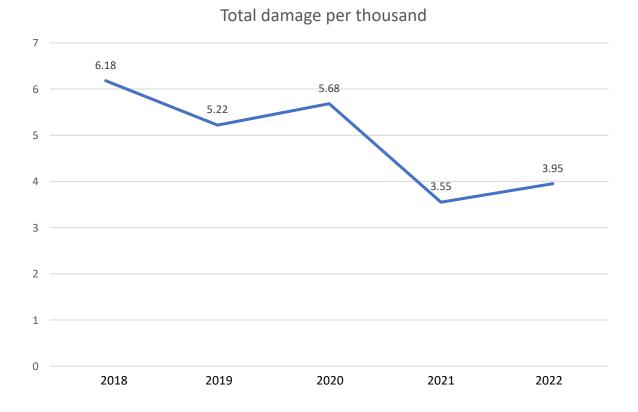
Primary Objectives

- 1. **GUIDING DIRECTION:** With all of the data available to us, how can we make better informed decisions about where to focus our efforts and allocate our resources?
- 2. PROVING EFFECTIVENESS: How can we use data to measure our effectiveness and prove our results?

Annual Results Over Five Years

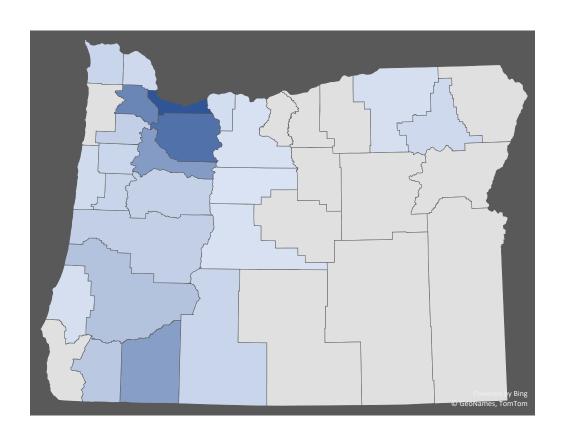
YEAR	TOTAL DAMAGES	DAMAGE PER THOUSAND
2022	1,405	3.95
2021	1,285	3.55
2020	1,989	5.68
2019	1,783	5.22
2018	2,034	6.18

(totals do not match previous reports, but pulled directly from the DIRT database)



Total Damages Map is Fairly Predictable

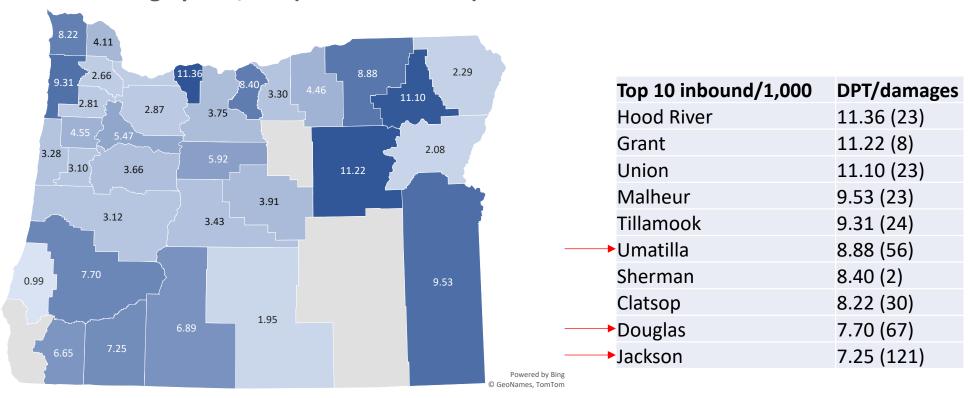
Higher population, more chances for damage to occur



2021 Top	Ten	2022 Top Ten			
Multnomah	177	Multnomah	183		
Clackamas	143	Marion	160		
Washington	117	Washington	134		
Marion	90	Jackson	121		
Jackson	87	Clackamas	114		
Douglas	42	Lane	75		
Josephine	35	Deschutes	73		
Lane	27	Douglas	67		
Yamhill	27	→ Umatilla	56		
Linn	24	Josephine	46		

Top Counties by Damage Per Thousand

2022 Damage per 1,000 (inbound tickets)



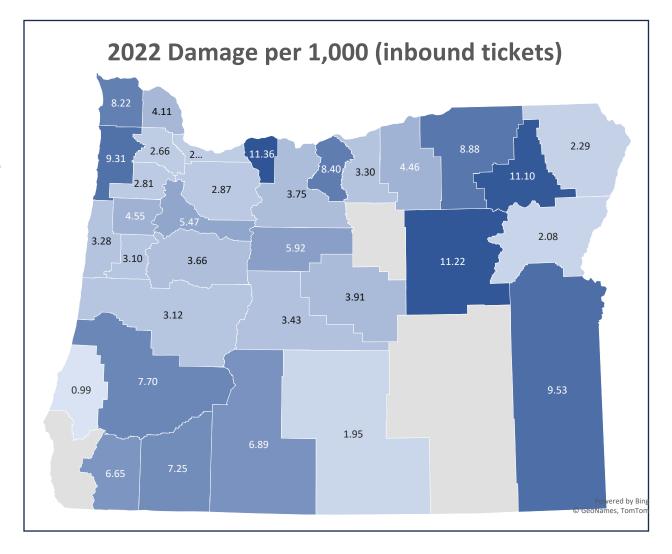
	Damages Reported	Locates inbound	Locates outbound		Damage per 1,000	out/1000	pop/1000
				·			
ZONE 1	720	214437	1226974	2485836	3.35762951	0.5868095	0.28964099
ZONE 2	152	46942	231375	661263	3.23803843	0.65694219	0.22986316
ZONE 3	278	45476	244078	588856	6.11311461	1.13898016	0.47210184
ZONE 4	126	29701	155908	310818	4.2422814	0.80816892	0.40538193
ZONE 5	129	19185	90853	193364	6.72400313	1.41987606	0.66713556

Oregon Damage Heat Map (DPT)

CONSIDERATIONS AND LIMITATIONS:

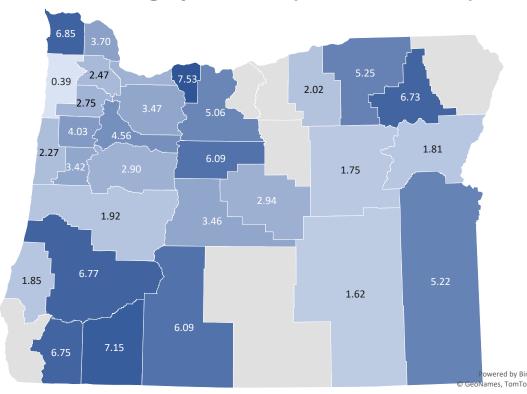
- Not all facility operators/owners submit excavation damage information.
 - Oregon does not require excavation damage reporting.
 - Only regulated pipeline operators are mandated to collect/track excavation damage information.
- Some flawed, conflicting, duplicate entries
- "Hot spots" are often not in the top ten list
- Heavy use of the "other" and "unknown/other" categories

The map shows higher damage rates, but also reflects consistent and reliable reporting.

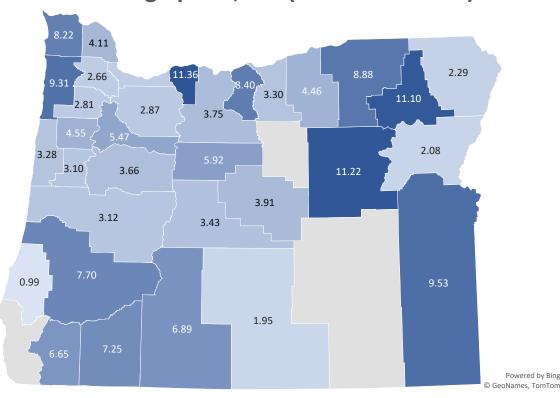


Year over Year Comparison

2021 Damage per 1,000 (inbound tickets)



2022 Damage per 1,000 (inbound tickets)



Total damages: 1,285 Damage per 1,000: 3.55 Total damages: 1,405 Damage per 1,000: 3.95

Tracking Root Causes



2021

Root Cause Detail	Reported Unique Damages	% of total ▼
No notification made to One-Call Center / 811	39	3 26.86%
Marked inaccurately due to Locator error	15	4 10.36%
Root Cause not listed	133	9.31%
Excavator dug prior to verifying marks by test-hole (pot-hole)	13	9.14%
Excavator failed to maintain clearance after verifying marks	12:	2 8.24%
Improper excavation practice not listed above	12	8.09%
Not marked due to Locator error	9	3 6.24% [/]
Marks faded, lost or not maintained	6	5 4.39%
Excavator failed to protect/shore/support facilities	5	3.41%
Excavator dug prior to valid start date/time	4:	3 2.90%
Excavator dug after valid ticket expired	3	7 2.46%

The top three defined causes account for approximately half of total damages.

2022

	No notification made to One-Call Center / 811	342
	Root cause not listed	187
1	Improper excavation practice	168
1	Not marked due to Locator error	153
	Marked inaccurately due to Locator error	149
	Excavator dug prior to verifying marks by test-	4.40
\	hole (pot-hole)	140
	Excavator failed to maintain clearance after verifying marks	52
\	Excavator failed to protect/shore/support facilities	42
1	Marks faded, lost or not maintained	33
	Not marked due to Incorrect facility	
	records/maps	30

What types of projects and equipment are involved?



Type of Work Project	
Unknown/Other	309
Natural Gas	161
Sewer	143
Water	137
Electric	95
Telecommunications	71
Landscaping	65
Grading	61
Site Development	50
Building Construction	49
Fencing	47
Storm Drain/Culvert	41
Curb/Sidewalk	33
Road Work	32
Pole	31

Type of Equipment	
Backhoe/Trackhoe	696
Unknown/Other	248
Hand Tools	203
Trencher	64
Auger	54
Boring	49
Directional Drilling	42
Grader/Scraper	17
Drilling	12
Probing Device	8

Includes:

- Shovel
- Pickaxe
- Mattock
- Post hole digger
- Trench digger
- Spade

Observations:

- 1) Top 5 projects are also utilities we are working to protect.
- 2) These lists help prioritize our audiences and messaging.

What was damaged? Who caused it?

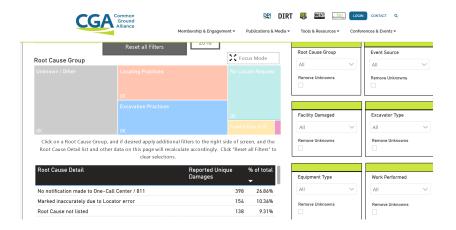


Facility Damaged	
Natural Gas	791
Telecommunications	423
Electric	140
Water	25
Sewer	13
Cable TV	8
Unknown/Other	5

Type of Excavator	
Contractor	789
Unknown/Other	357
Occupant	135
Utility	75
Municipality	36
Developer	6
County	3
Farmer	2
State	2

What Data is Available?

- Common Ground Alliance
 - Damage Information Reporting Tool
 - DIRT Dashboard
- One Call Concepts
 - Master report spreadsheet tickets (by day, month, year, county), in/out ratio, ITIC, billing details, ASA, subscribers
 - Past Due Accounts
 - Queries
- Oregon Public Utility Commission, Oregon OSHA complaint/enforcement data
- OUCC/UCCs qualitative reports/updates, case studies, some regular reporting
- Oregon utilities damage statistics and analysis; some is restricted/proprietary
- Excavation Safety Alliance topic-based Town Hall events
- Others?



Moving the needle and measuring results



- Leverage additional data sources to fill gaps
- Strengthen strategic partnerships, sharing of information
 - Utilities, OUCC/UCC, agencies, contractors, locators, trade organizations
- Target Publicity and outreach efforts; training
- Pursue measurable goals in concert with Strategic Plan
- Show presence at OUCC/UCC meetings, two-way communication
- Report to board, partners, Governor and Oregon Legislature
- Continue assessment, reassessment; contact for expert analysis?



Questions?