



URL: <http://www.cga-dirt.com>

Common Ground Alliance

Presented By:

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CGA Data Reporting Committee Member



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CGA Committees

- Best Practices
- One Call Systems International, OCSI
- Technology (Formerly R and D)
- Educational Programs/Marketing and Membership
- Regional Partners
- Data Reporting and Evaluation

Damage Information Reporting Tool (DIRT)

- Online data collection tool
- Secure
- Anonymous
- Multiple Record Loading Options
 - Automated Data Loader
 - Universal Front End Loader
- Support



**CGA DIRT Analysis & Recommendations
2009 Vol. VI**

This report may be referenced as DIRT Annual Report for 2009.



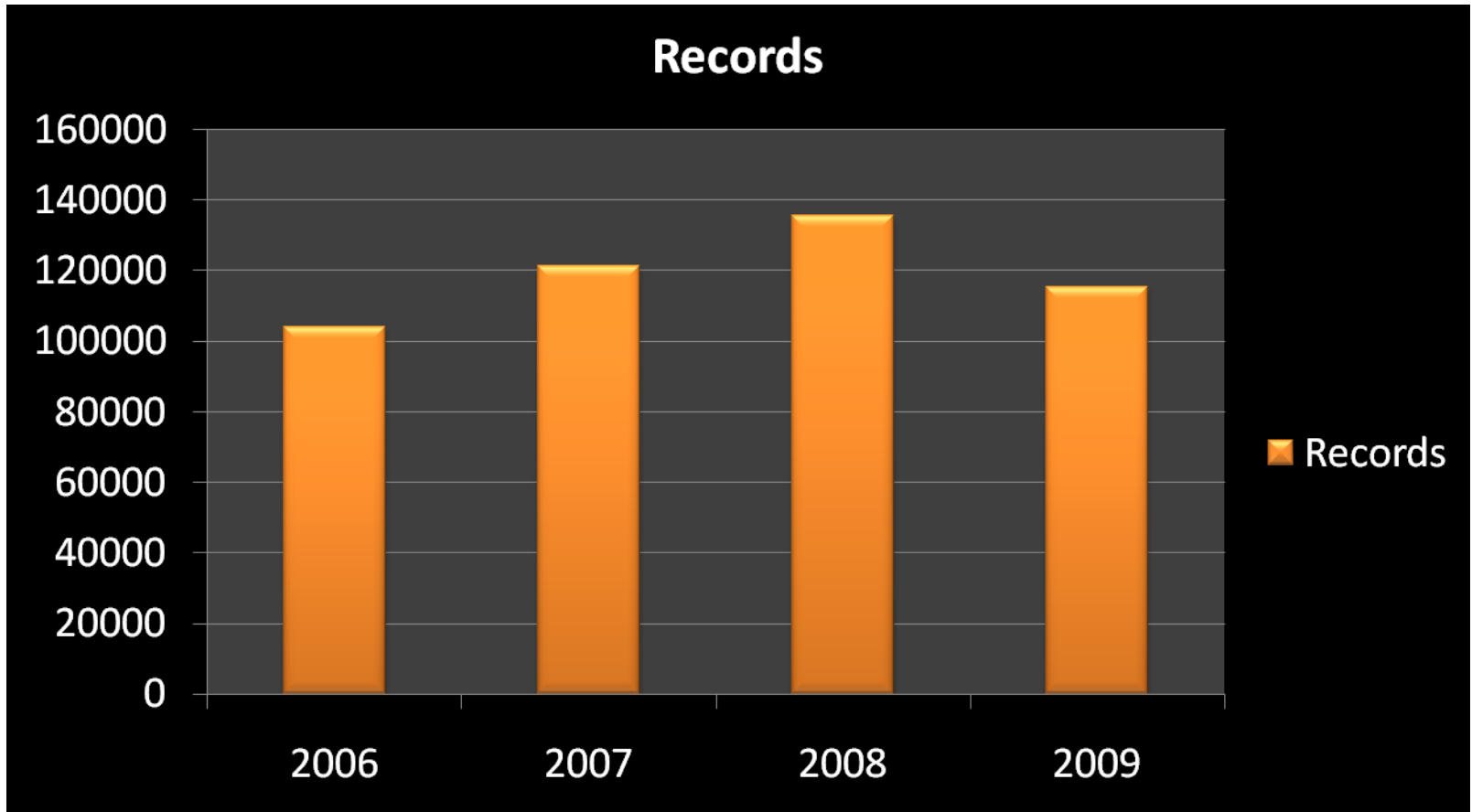
Damage Information Reporting Tool

URL: <http://www.cga-dirt.com>

2009 DIRT Report

- Collects damage and near miss data
- Voluntary
- Statistically valid
 - PhD Analysis
 - Report Writer
- Managed by a proven committee process

Records Input By Year

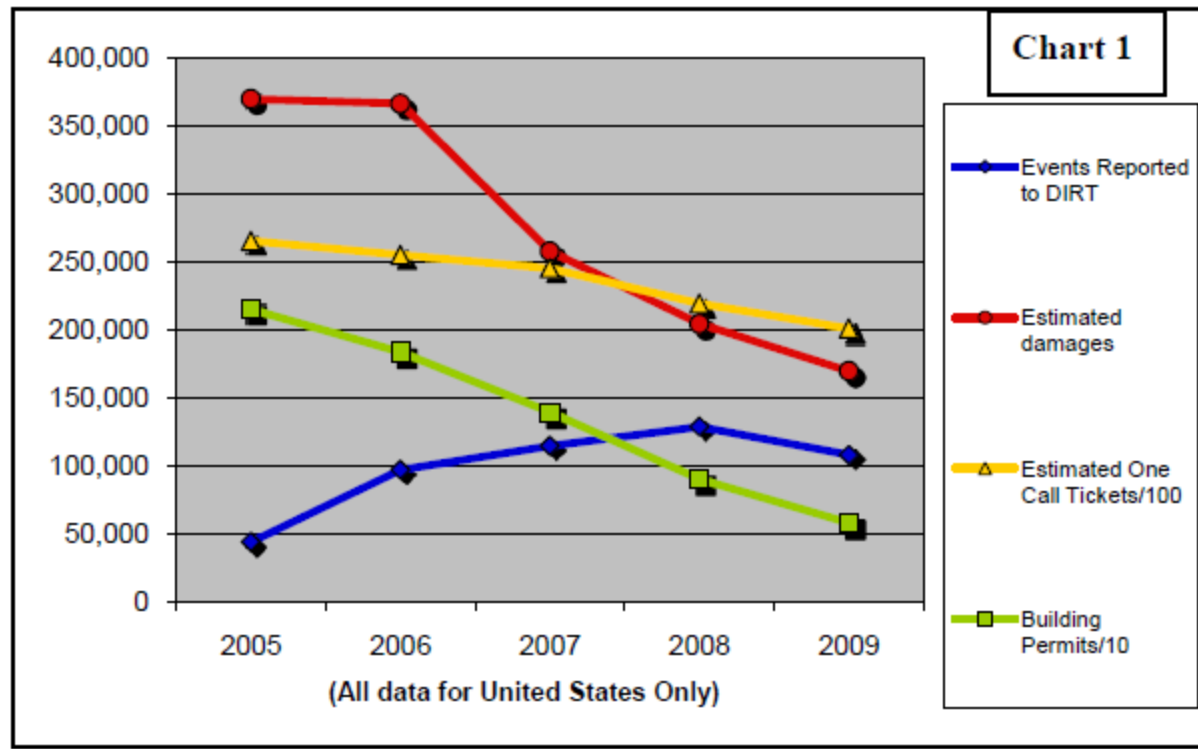


Total Damages / Level of Construction

Consistent Trends

For each of the past five years, the CGA has reported year-over-year decreases in the total number of damages throughout the United States and 2009 is no exception. What may be more important than the actual estimate of total damages is the consistent trend downward. For the first time, the report takes a closer look at how the decrease in estimated damages may correlate to the overall level of construction activity. Chart 1 provides a side-by-side comparison of U.S. housing permits, estimated one call ticket volume and estimated damages for years 2005 through 2009.

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Snapshot – Who is involved?

Reporting Stakeholder (Part A)

This category remained consistent with previous years as *Natural Gas*, *Telecommunications*, and *One Call* stakeholders continued to provide a majority of the data submitted to DIRT. One notable fact is that *Excavator* submissions continued to increase, from less than 900 in 2007 to nearly 5,000 in 2009.

Type of Excavation Equipment (Part D)

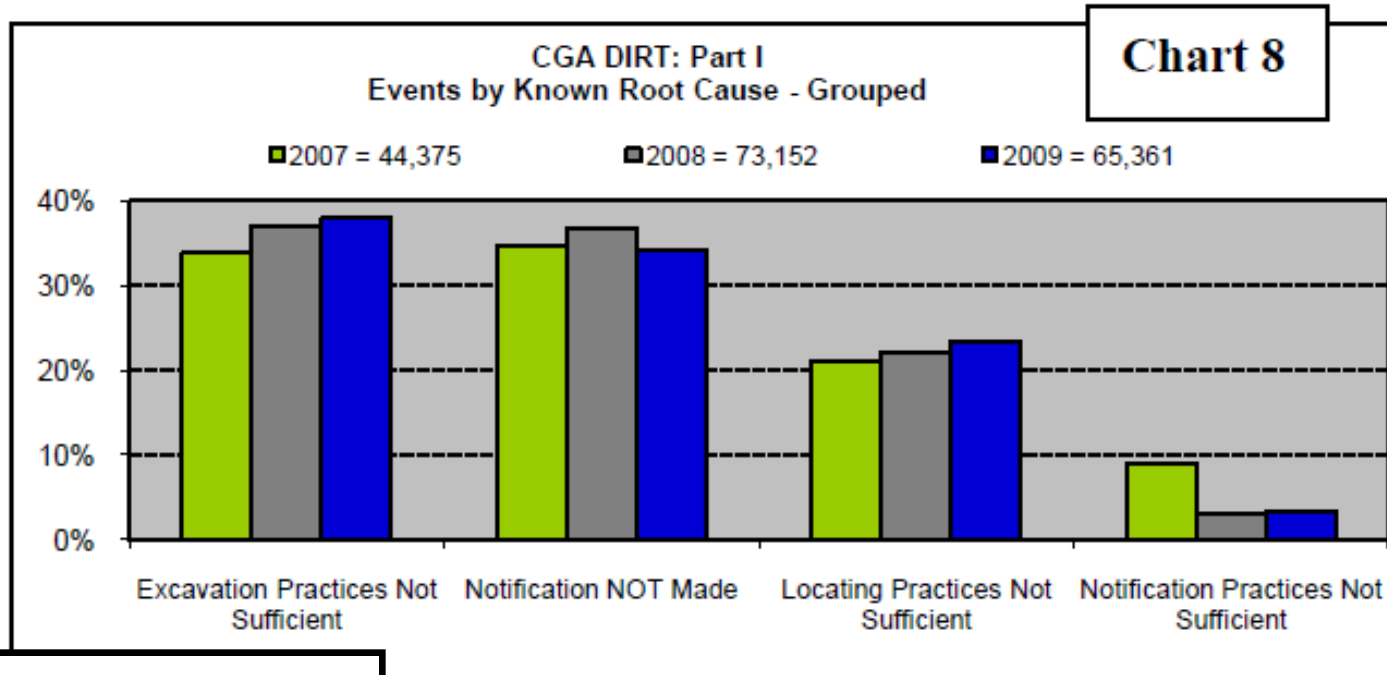
The results from this data element also remained similar to previous years, with the *Hoe / Trencher* group involved in the majority of the events (63.9%). One notable trend identified was the increasing percentage of events involving *Hand Tools*: 16% in 2007, 20% in 2008, and 21% in 2009.

Type of Excavator (Part D)

The findings from this data element were also consistent with prior years, as the *Contractor / Developer* group⁵ continued to be involved in a majority of the events (75%) reported in 2009.

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Events by Known Root Cause



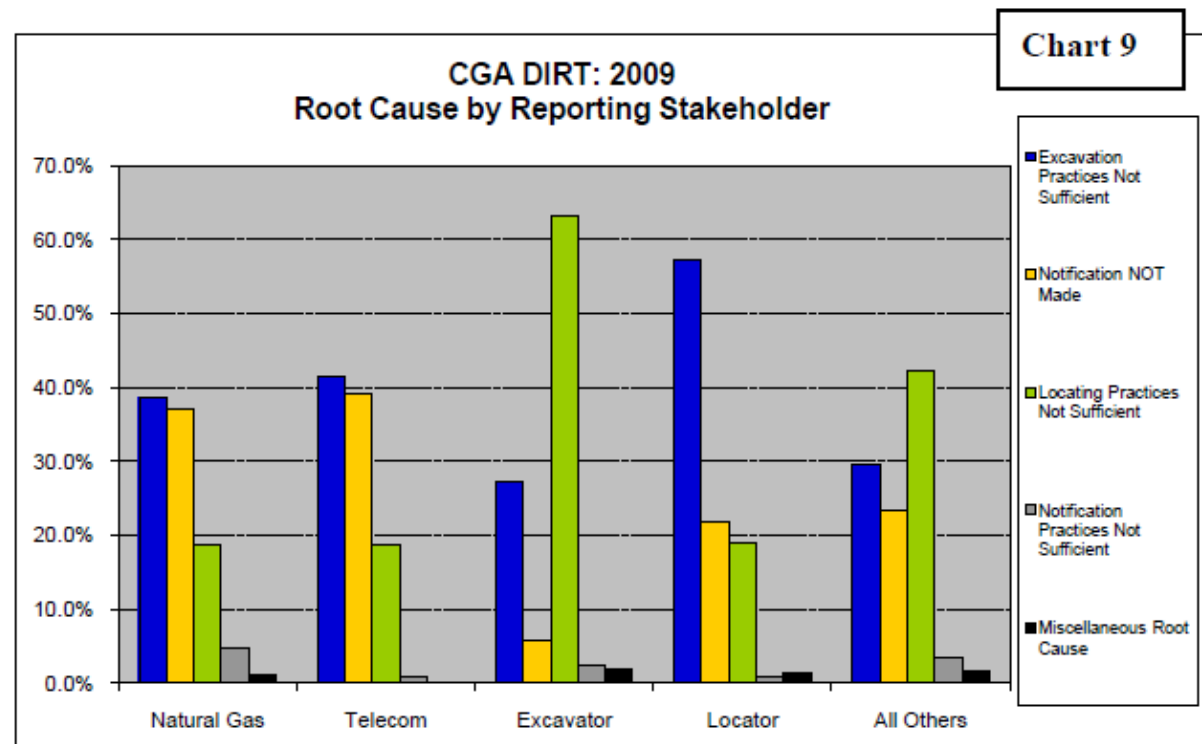
Root Cause (Part I)

The percentage of events listing *Notification NOT Made* as the root cause decreased in 2009 compared to 2008. This may be due to the positive impact of the 811 campaign, increased enforcement of damage prevention regulations, or some combination of these and other factors. The decline in events

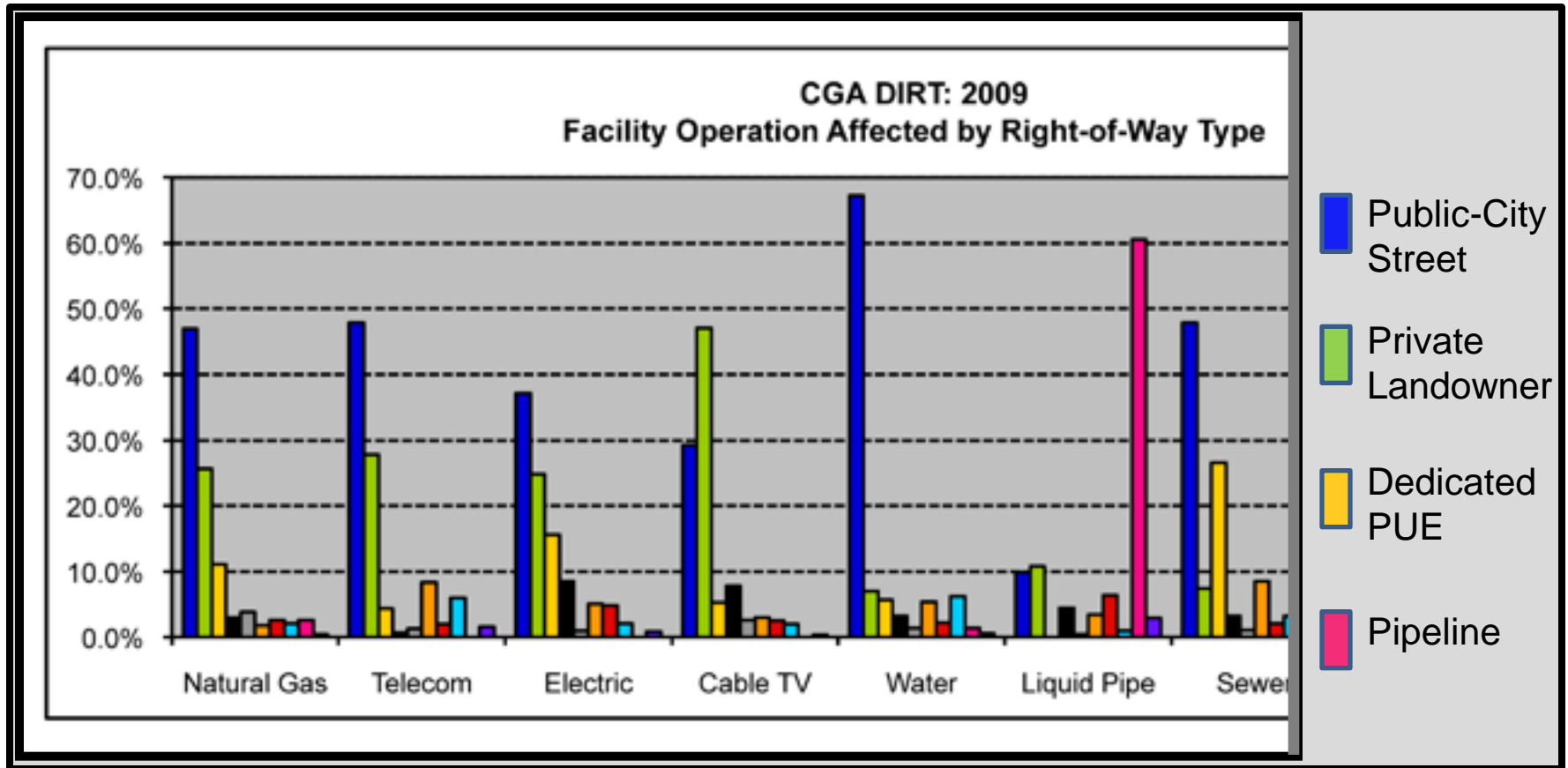
Root Cause by Stakeholder Group

The early DIRT reports provided a “30,000-foot view” of the individual DIRT parts. With more mature and consistent data, the CGA is able to dig deeper into the data, and the annual reports have evolved to better identify contrasts, consistencies, and correlations between data elements. For example, on page 12, the Report analyzes root cause by reporting stakeholder group. Interestingly but probably not surprisingly, the root cause varies by reporting stakeholder. The leading root causes reported by natural gas and telecommunications stakeholders involved “Excavation Practices Not Sufficient” while excavators report “Locating Practices Not Sufficient” as the most prevalent root cause. This highlights the importance of growing DIRT not just by total number of submitters but also across all stakeholder groups.

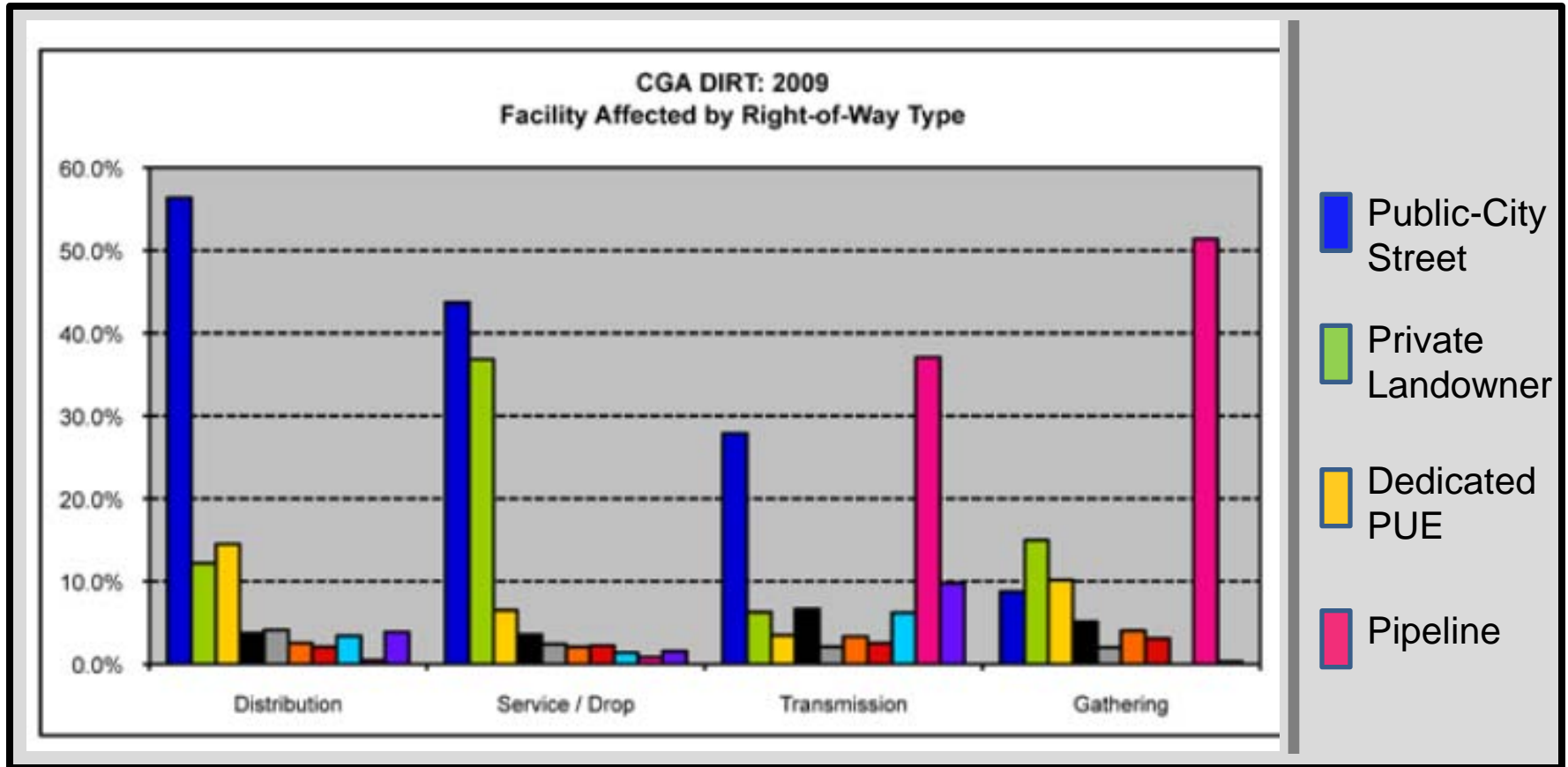
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Right-of-Way Type



Right-of-Way Type



New Section – Excavator Downtime

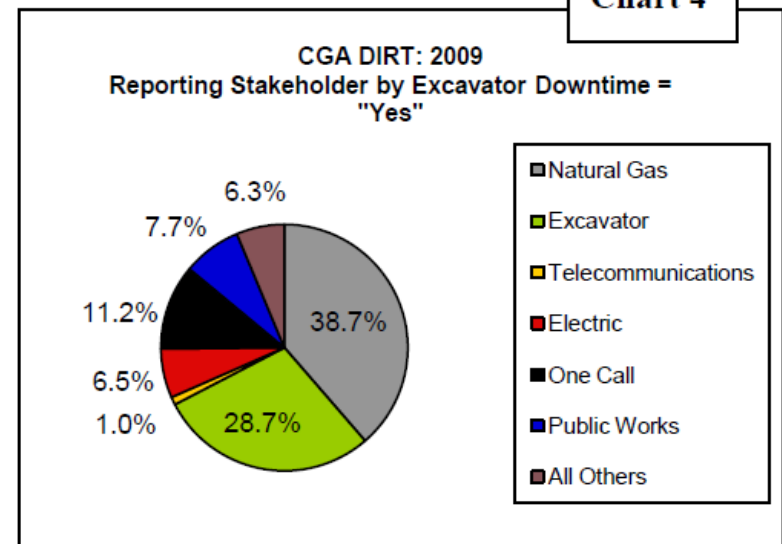
Although facility owners still submit the majority of events to DIRT, additional stakeholders are seeing value in submitting data. This year, we include new sections focusing on “downtime” and “near miss” event. These sections stem in part from an increase in data submitted by excavators, which has changed the shape of the Report and provides our stakeholders with valuable information on the overall state of damage prevention.

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Excavator Downtime (Part G)

Excavator stakeholders submitted a small percentage of the data (4.4%). However, they submitted 28.7% of the events reporting that downtime had occurred. They also had the highest Data Quality Index (DQI) of the reporting stakeholders for this Part, likely due to the fact that they are in the best position to know if they experienced downtime.

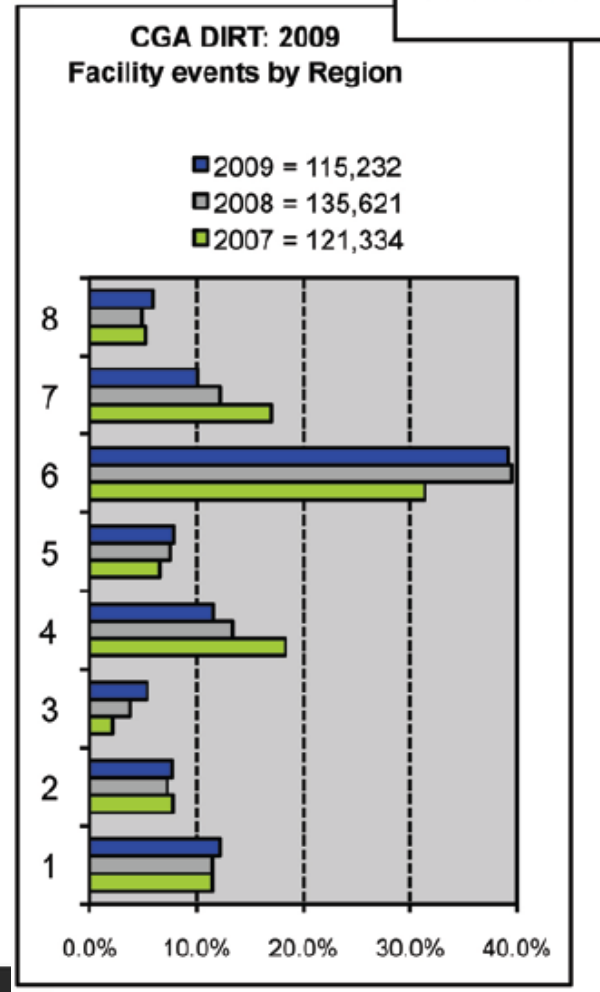
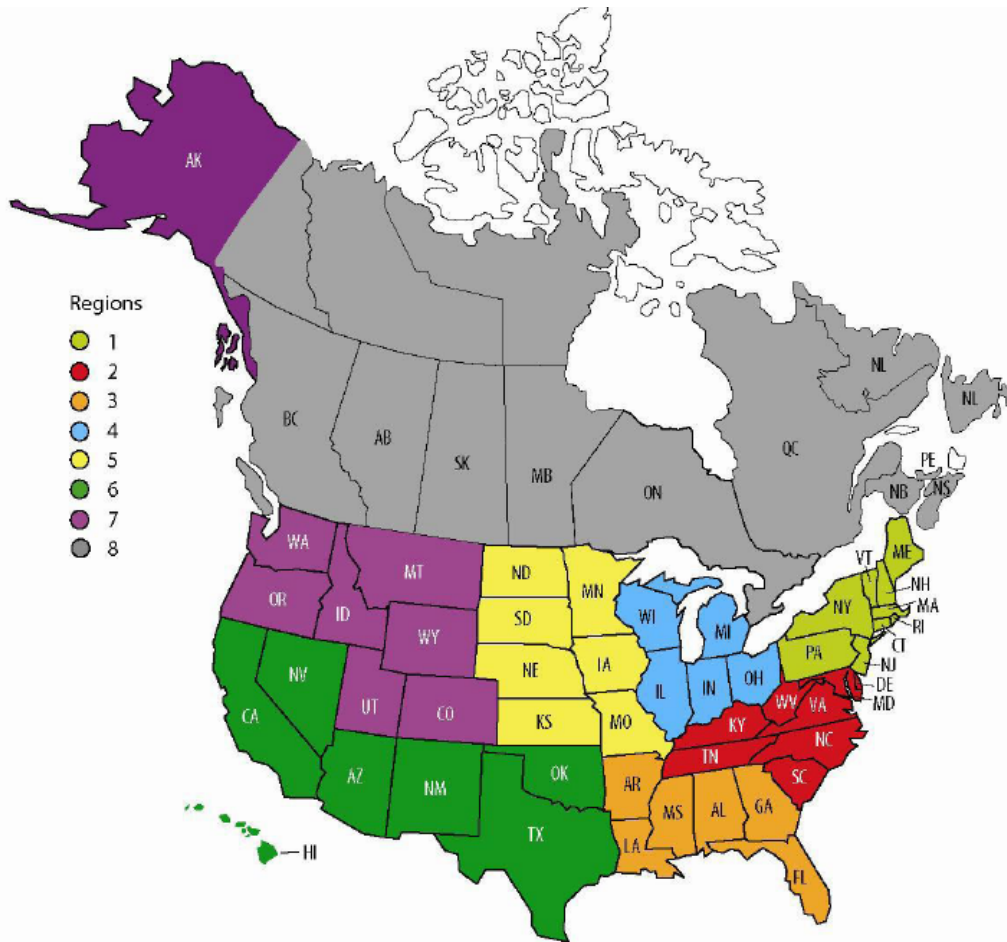
Chart 4



Analyzed by Region

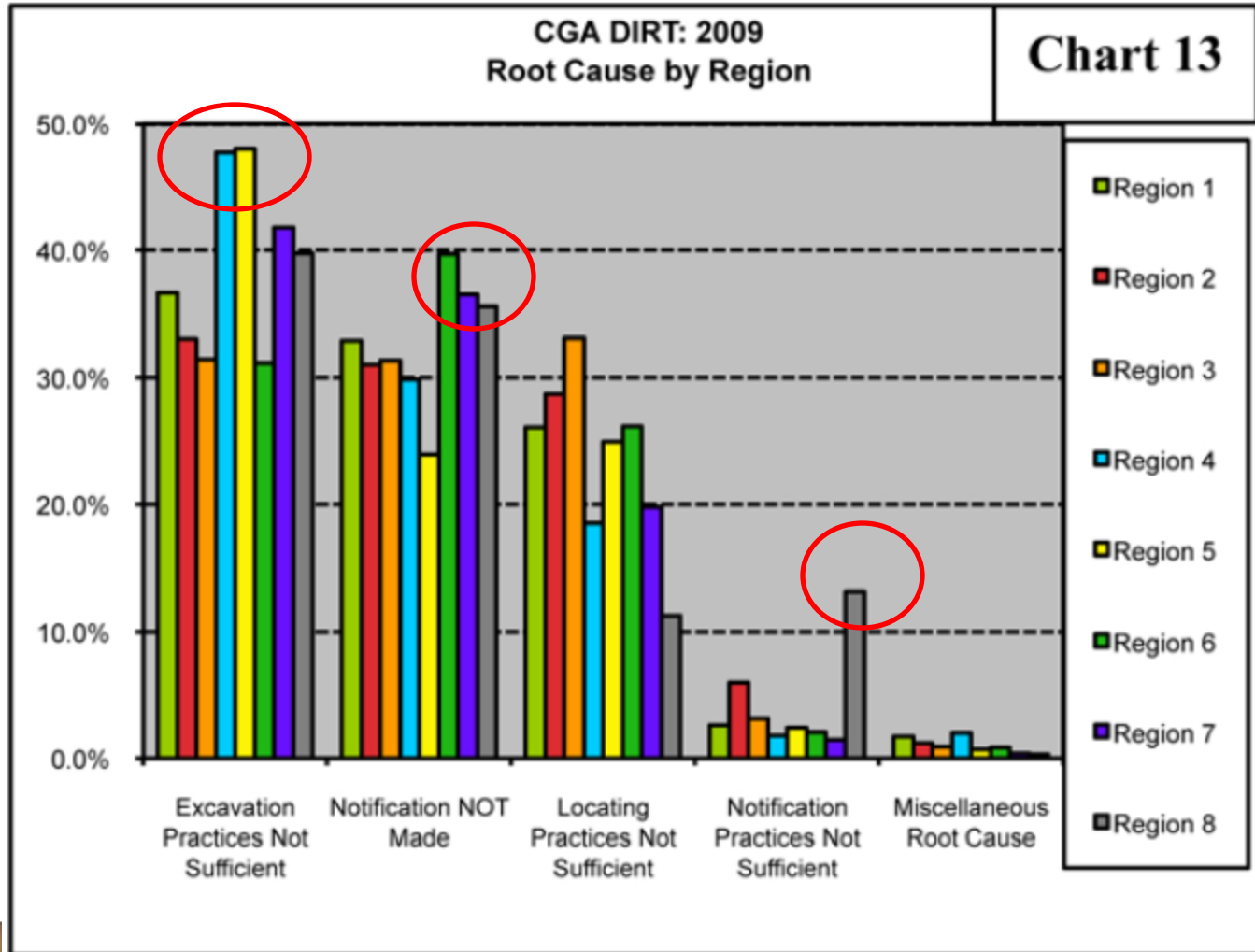
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Chart 10



Analyzed by Region

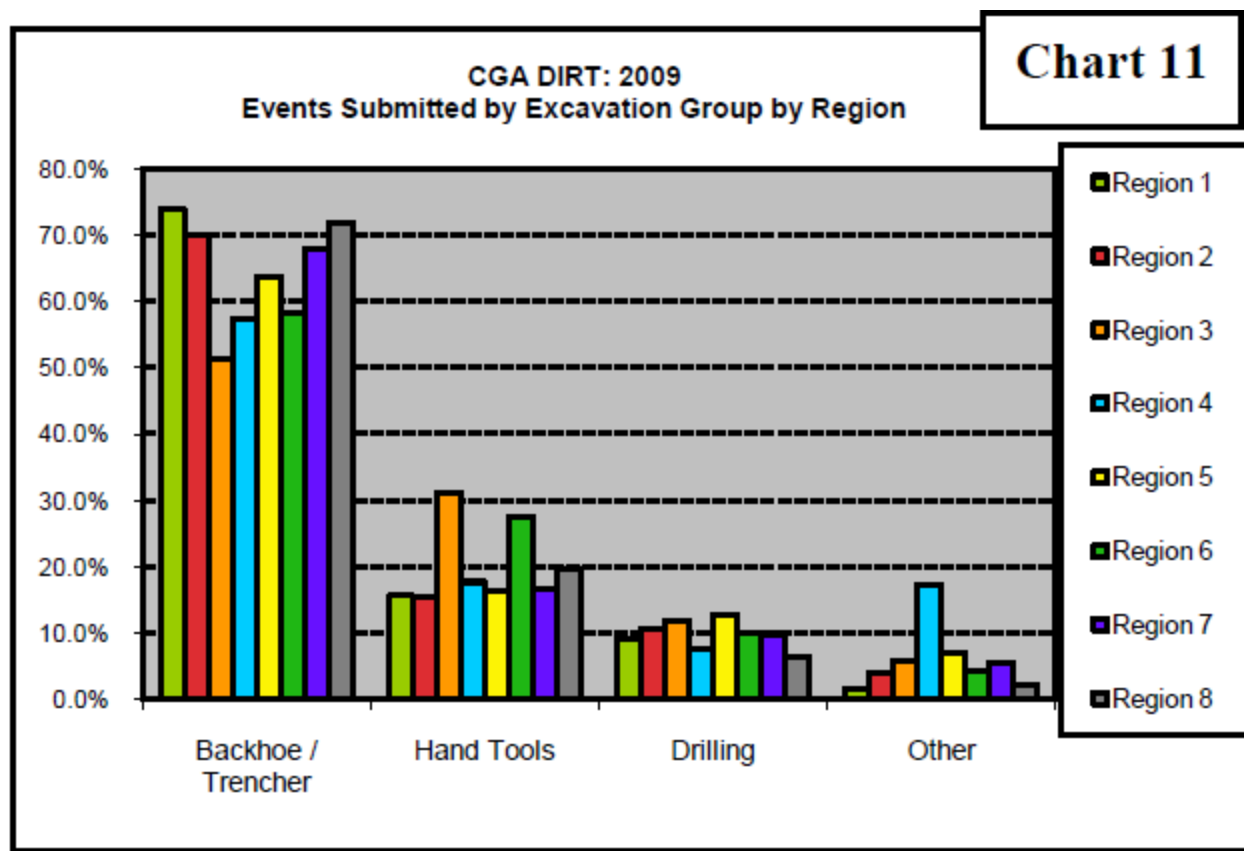
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Event by Type of Excavation Equipment

“Regardless of Region, the Backhoe/Trencher is involved in the majority of events.”

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Need for “more complete data”

DQI Measures the “Completeness” of each Record

Table 6

PART	DESCRIPTION & WEIGHT	2008 % of Overall DQI	2008 % of Org. DQI	2009 % of Overall DQI	2009 % of Org. DQI
A	Who is submitting the information (5%)	99%	98%	99%	96%
B	Date & Location of Event (12%)	66%	75%	66%	78%
C	Affected Facility Information (12%)	63%	87%	65%	90%
D	Excavation Information (14%)	59%	83%	57%	85%
E & F	Notification, Locating, & Marking (12%)	80%	95%	76%	91%
G	Excavator downtime incurred (6%)	12%	49%	17%	63%
H	Description of Damage (14%)	34%	74%	40%	76%
I	Description of Root Cause (25%)	55%	78%	57%	81%
TOTAL WEIGHTED DQI		57%	80%	59%	83%

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The two DQI calculations differ due to a small number of organizations submitting a large quantity of records with poor DQI, bringing down Overall DQI. Conversely, a large number of submitters with few records but good DQI improved the Organization DQI.

Conclusions

- Root cause for 38% of reported damages
 - Excavation practices not sufficient
- Root cause for 34% of reported damages
 - One call center notification not made
- Root cause for 24% of reported damages
 - Locating practices not sufficient

Conclusions

- “Notification not made” as the root cause is down approximately 70% since 2004



Kentucky 811



How Can I Help?

- Register today at www.cga-dirt.com
- Learn the benefits of Virtual Private DIRT
- Disseminate the DIRT Report
- Join the Data and Reporting Committee
- Continue to promote CGA Best Practices
- Continue to promote 811

For more information

- www.commongroundalliance.com
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