



Common Ground Alliance 2017







Common Ground Study / CGA

Congress passed Transportation Equity Act for 21st
 Century in 1998. Legislation <u>called for USDOT to</u>
 <u>conduct a study of best practices in place nationwide</u>
 for enhancing worker safety, protecting vital
 underground infrastructure and ensuring public safety
 during excavation activities conducted in the vicinity of
 existing underground facilities.







Establishment of CGA

- 160 Stakeholders Participated in Study
- Completed in 1999: 132 Best Practices
 published with consensus support from all
 involved.
- Common Ground Alliance established in 2000 to support industry efforts to continue the implementation and development of the Damage Prevention Best Practices.

COMMON GROUND

Study of One-Call Systems and Damage Prevention Best Practices

August 1999

Sponsored by the United States Department of Transportation; Research and Special Programs Administration; Office of Pipeline Safety, as authorized by the Transportation Equity Act for the 21st Century (TEA 21)





CGA Mission (Purpose of the CGA)

Provide clear and tangible value to our stakeholders by helping to reduce damages to North America's underground infrastructure. The CGA works cooperatively, fostering a sense of shared responsibility to enhance safety and protect underground facilities by:

- Identifying and disseminating the stakeholder best practices;
- Developing and conducting public awareness and education programs;
- Sharing and disseminating damage prevention tools and technology
- Serving as the premier resource for damage and one call center data collection, analysis and dissemination.







CGA Vision (Desired future state CGA is working to create)

CGA is making significant, measurable progress in creating a damage prevention culture across North America...on every site, every day. Calling before digging is the norm, with all underground utilities identifiable and accurately mapped. Data is used to systematically address root cause issues and shows a trend of declining numbers of incidents.







16 Stakeholder Groups Representing...

Excavators
Road Builders



One Call Centers Locators





Gas Distribution
Gas Transmission

Electric

Telecommunications

Oil

Public Works

Railroad

Emergency Services
State and Federal Regulators



Equipment
Engineering/Design
Insurance

Member Driven Organization...







CGA Core Programs

- Best Practices
- Educational Programs
- Data Reporting and Evaluation (DIRT)
- Stakeholder Advocacy
- One Call Systems International (OCSI)
- Technology







Damage Information Reporting Tool (DIRT)

- Collects damage and near miss data
- Voluntary
- Secure, on-line database
- Can report one-at-a time, or bulk by Excel file
- Managed by a proven committee process







Q: What is the Damage Information Reporting Tool (DIRT)? Who submits to it?

A: DIRT is a completely secure online database that allows damage prevention stakeholders to anonymously submit information about damages and near-misses, which in turn helps create an industry-wide picture of opportunities to improve safety. One call centers, facility owners, municipalities and government regulatory entities are among those who voluntarily submit data to DIRT.







What data is collected?

- A. Who is submitting data
- B. Date and Location of the event
- C. Affected Facility Information
- D. Excavation Information
- E. Notification

- F. Locating and Marking
- G. Excavator Downtime
- H: Description of Damage
- I: Description of the Root Cause
- J. Additional Comments (Character Limit: 4000)







Part A - Who is Submitting This Information Who is providing the Information? EngineerDesign Equipment Manufacturer
Part B - Date and Location of Event
"Date of Event: (MMDD/YYYY)
"Country "State "County City
Street address Nearest Intersection "Right of Way where event occurred
Dubbs City Street State Highway County Road Interstate Highway Public-Other
Part C - Affected Facility Information
What type of facility operation was affected?
Cable Television Electric Natural Gas Liquid Pipeline Sewer (Sanitary Sewer) Sleam Telecommunications Water UnknownOther
What type of facility was affected? Distribution
Was the facility part of a joint trench?
Unknown Yes No Was the facility owner a member of One-Call Center?
Unknown Yes No
Part D = Excavation Information
Type of Excavator Contractor County Developer Farmer Municipality Occupant
Railroad State Utility Data not collected Unknown/Other
Type of Excevation Equipment Auger Backbox/Trackbox Boring Drilling Directional Drilling
Explosives Farm Equipment Grader/Scraper Hand Tools Milling Equipment Probing Device Trencher Vacuum Equipment Data Not Collected Unknown/Other
"Type of Work Performed
Agriculture Cable Television Curb/Sidewalk Bildg. Construction Bildg. Demolition Drainage Driveway Electric Engineering/Survey Fencing
Grading Irrigation Landacaping Liquid Pipeline Milling
Natural Gas
Sewer (standaum) Site Development Steam Storm Drain/Culvert Street Light Traffic Sign Traffic Sign Water Waterway Improvement Unknown/Other
Part E - Notification
"Was the One-Call Center notified?
If Yes, which One-Call Center?
If Yes, please provide the ticket number
Part F - Locating and Marking
"Type of Locator Utility Owner Contract Locator Data Not Collected Unknown/Other
*Were facility marks visible in the area of escavation? Yes
"Were facilities marked correctly? ☐ Yes ☐ No ☐ Data Not Collected ☐ Unknown/Other
The Tree Concept Controller

	Ken 2000		
Part G – Excavator Downtime			
Did Excavator incur down time?			
Yes No			
	□ 2 hours □ 3 or more hours Exact Value		
Estimated cost of down time?			
☐ Unknown ☐ \$0 ☐ \$1 to 500 ☐ \$501 to 1,			
\$5,001 to 25,000 \$25,001 to	to 50,000 S50,001 and over Exact Value		
Part H - Description of Damage			
"Was there damage to a facility? ☐ Yes ☐ No (Le. near miss)			
☐ Yes ☐ No (i.e. near miss) **Tid the damage cause an informption in service ☐ Yes ☐ No ☐ Data Not Collected If yes, duration of interruption	s? d Unknown/Other		
If yes, duration of interruption	□2 to 4 to □4 to 5 to □4 to 12 to □12 to 24 to		
Unknown Less than 1 hour 1 to 2 hrs 1 to 2 days 2 to 3 days 3 or more			
Approximately how many customers were affect			
Unknown 0 1 2 to 10 Estimated cost of damage / repair/restoration	11 to 50 S1 or more Exact Value		
☐ Unknown ☐ \$0 ☐ \$1 to 500 ☐ \$501 to 1,	,000 S1,001 to 2,500 S2,501 to 5,000		
\$5,001 to 25,000 \$25,001 to	to 50,000 S50,001 and over Exact Value		
\$3,001 to 25,000 \$25,001 to Number of people injured Unknown 0 1 2 to 9	□ 10 to 19 □ 20 to 49 □ 50 to 99		
100 or more Exact Value			
Number of fatalities			
Unknown 0 01 02 to 9	□ 10 to 19 □ 20 to 49 □ 50 to 99		
Part I - Description of the Root Cause One-Call Notification Practices Not Sufficient No notification made to the One-Call Center Notification to one-call center made, but not sufficient Wrong information provided to One Call Center Excavation Practices Not Sufficient Failure to maintain marks Failure to support exposed facilities Failure to support exposed facilities Failure to test-hole (sof-hole)			
Improper backfilling practices	☐ Data Not Collected		
Failure to maintain dearance	Other		
Construction extransprint product			
Part J – Additional Comments			
Visit DIRT at www.cga-dirt.com			



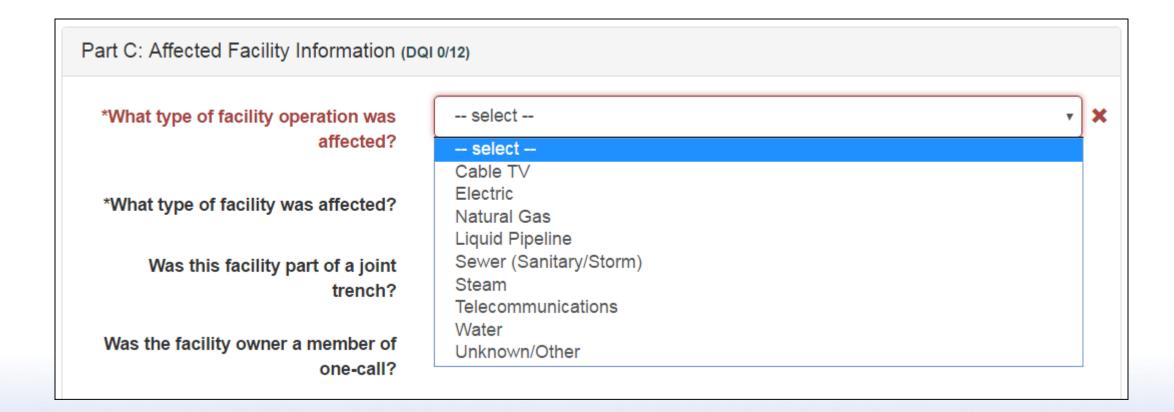
You are Signed In		
Main Menu		
Log Out		
Steve Blaney <stevenb@commongroundalliance.cc alliance<="" common="" ground="" td=""></stevenb@commongroundalliance.cc>		
New to DIRT? Register Here! 101 Introductory page Frequently Asked Questions (FAQ's) Begin Registration		
User Guide Root Cause Tip Card Offline Field Form DIRT Security Whitepaper DIRT Confidentiality Memo Release Notes Data Committee		
Virtual Private DIRT (VPD) Get It More Information		
Annual DIRT Reports Most Recent Access Annual Reports		
Damage Prevention Network CGA Newsletters Training		

DIRT Main Menu

Damage Report	Submit a new Damage Report
Browse Damage Reports	Browse Damage Reports for all companies
File Upload	Upload a file containing multiple Damage Reports to be processed by the Automated Data Loading (ADL) process
Browse File Uploads	Browse file uploads and associated Damage Reports for all companies
Data Grants	Grant/Revoke access to your raw data for reporting purposes. Set whether or not this is a Reporting Organization to which other organizations may grant access. Cross DIRT Data Grants is now available for sharing between DIRT North America and Virtual Private DIRT! Optionally, you can now share your identity (i.e. Company/Org Name only) with whom you provide a Data Grant.
Data Quality (DQI)	The Data Quality Index reports provide simple metrics on the number of essential fields submitted to DIRT and the measure of their contribution to the DIRT Annual Report. (more info) Average DQI for submissions from Common Ground Alliance for 2016: n/a, 2017: n/a.
Dashboard	Dashboard provides visibility into key performance indicators (KPIs) through simple visual graphics such as charts and tables (tabular data)
Query Wizard	Query Wizard now provides two interfaces - "Quick Reports" and "Power Reports". The new Power Report Designer uses a "Wizard" like process to step you through the report creation process. Also, You'll be able to choose from a list of predefined reports, organized by "owner" and reports shared by others. Currently, your role will allow you to download submitted data for all companies













Part D: Excavation Information (DQI 0/14)				
*Type of Excavator:	select	×		
Please choose a valid value				
*Type of Excavation Equipment:	select	· X		
	select			
	Auger Backhoe/Trackhoe			
*Type of Work Performed:	Boring			
	Drilling			
	Directional Drilling			
	Explosives			
D (E N CC C	Farm Equipment			







*Part I – Description of the Root Cause *Please choose one				
One-Call Notification Practices Not Sufficient	Locating Practices Not Sufficient			
☐ No notification made to the One-Call Center	☐ Facility could not be found or located			
☐ Notification to one-call center made, but not sufficient	☐ Facility marking or location not sufficient			
☐ Wrong information provided to One Call Center	☐ Facility was not located or marked			
	☐ Incorrect facility records/maps			
Excavation Practices Not Sufficient	Miscellaneous Root Causes			
☐ Failure to maintain marks	One-Call Center error			
☐ Failure to support exposed facilities	Abandoned facility			
☐ Failure to use hand tools where required	□ Deteriorated facility			
☐ Failure to test-hole (pot-hole)	☐ Previous damage			
☐ Improper backfilling practices	☐ Data Not Collected			
☐ Failure to maintain clearance	☐ Other			
☐ Other insufficient excavation practices				



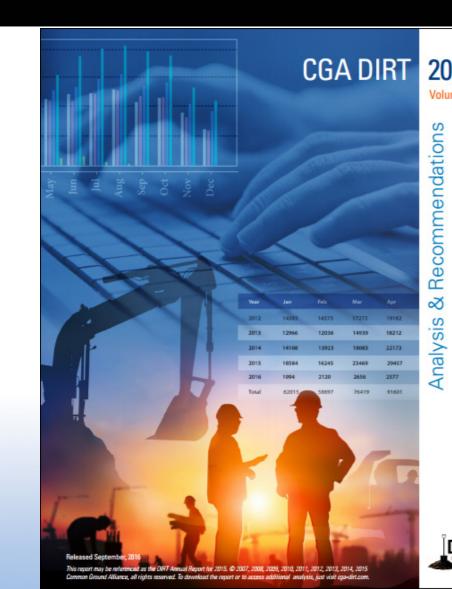




DIRT Report

- Collection of data on over 350,000 events
- Analysis & Recommendations
 Published each year
- DIRT Report for 2015

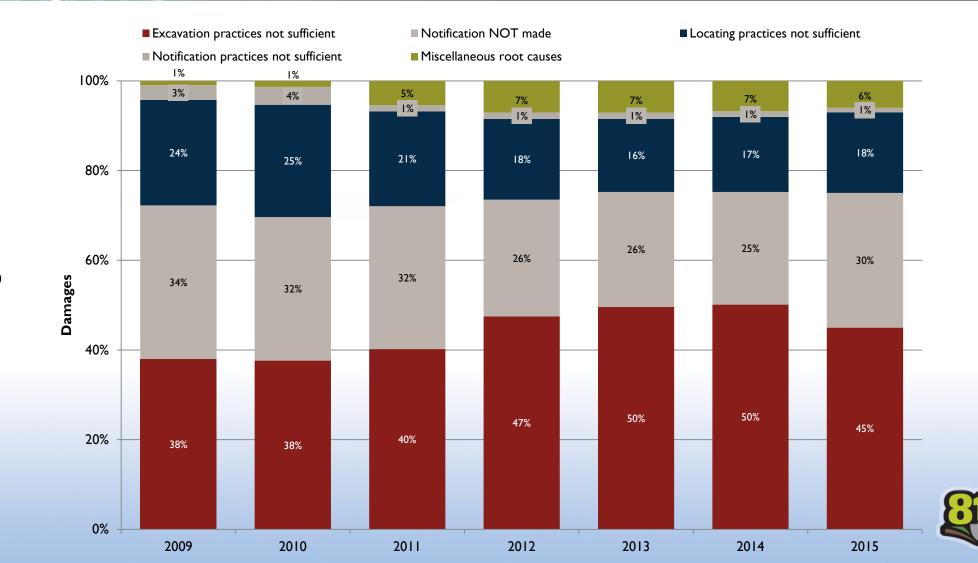
 published in October 2016 –
 Provides key action items for damage prevention
 stakeholders.





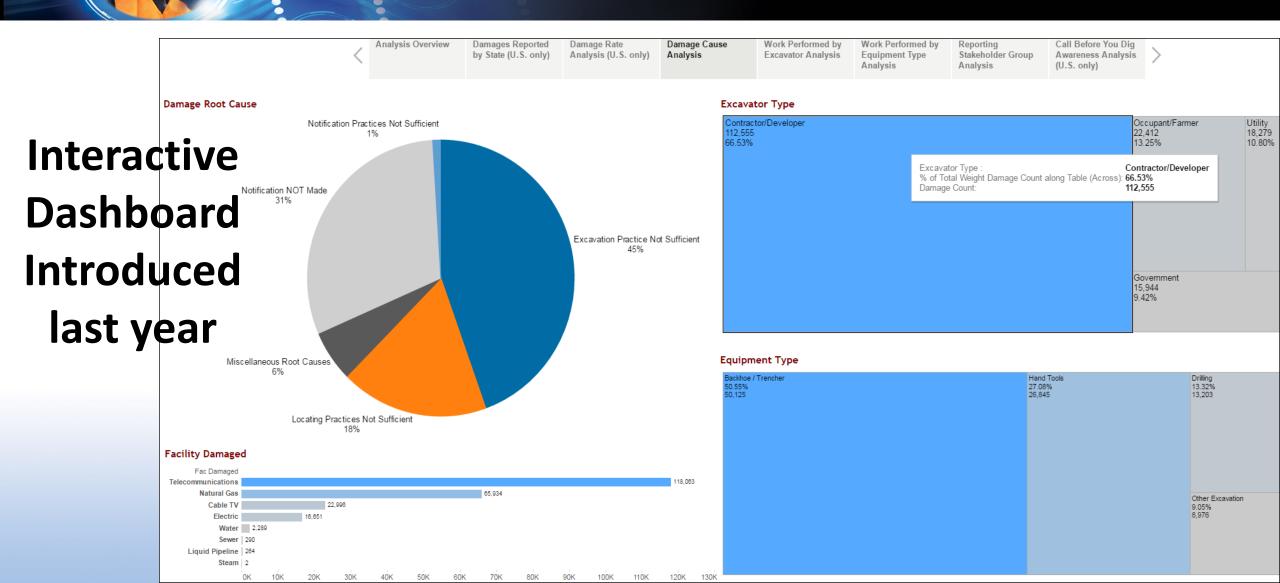


Root Cause Groups















Become a Membe

Media & **About Us** Membership **Damage Prevention Programs Events** 811 **Best Practices Damage Information Reporting Tool (DIRT) One Call Systems Regional Partners** Stakeholder Advocacy **Technology** Damage Information **Reporting Tool** DIRT

Interactive Dashboard
(access from
commongroundalliance.com)





Access the interactive Tableau dashboard that allows users to filter the data more granularly.

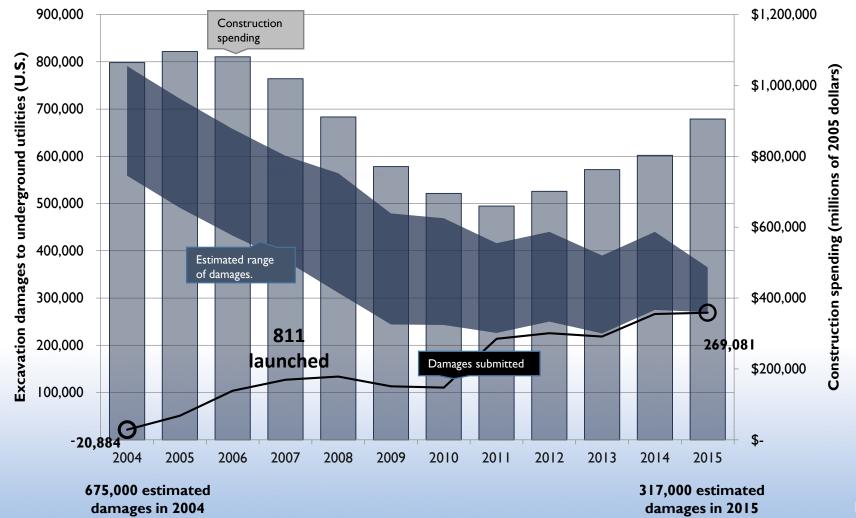
INTERACT







Estimated U.S. Total Damages



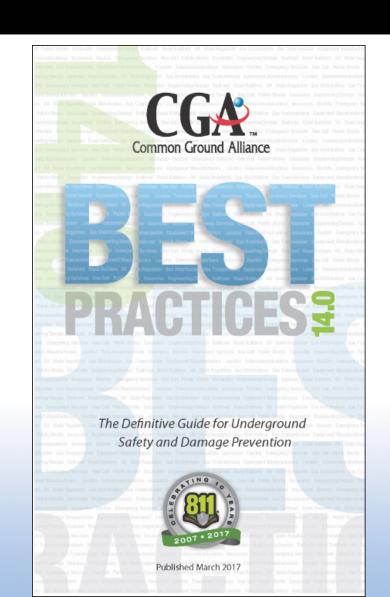






Best Practices

- Version 14.0 Published March 2017
- Approximately 155 practices developed by consensus
- Must actually be in use somewhere
- Many have become law in certain states
- Distribution of 20,000 Books Annually







Best Practices Chapters

Planning & Design

Mapping

One Call Center

Compliance

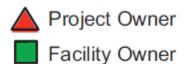
Locating & Marking

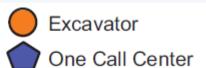
Public Education

Excavation

Reporting & Evaluation

Best Practices Icons













Educational Programs 811 / Safe Digging Process



811 Goal: Reduce damages by increasing awareness of 811 and driving homeowners/excavators to notify the one call center prior to digging.







Technology

GOAL: Stimulate awareness and use of technologies that enable CGA best practices and/or mitigate damage risk as identified through DIRT data analysis.







Stakeholder Advocacy Committee Established – June 2012

GOAL: Proactively work with local stakeholders to educate state policymakers regarding use of CGA best practices to positively impact state legislation and/or regulations under consideration.







Organized as the One Call Systems International (OCSI) Committee in CGA, OCSI offers a forum for one call system employees and board members to discuss trends from the other CGA committees on a local level. OCSI began as an independent organization in 1985, and elected to join CGA as a committee in 2003.









CGA Today...

- Over 1,700 members
- Almost 240 member organizations/companies
- 69 Sponsors (Bronze, Silver, Gold & Platinum)
- 5 staff members







- Since the Founding of CGA:
 - Excavation Damage removed from NTSB's "Top 10" list
 - 811 3-digit dialing introduced in 2007
 - 12 Annual DIRT Reports released
 - DIRT growth from 21,884 reports in 2004 to >390,000 for 2016
 - Damages down approximately 50%

