

# HITS AND HISSES

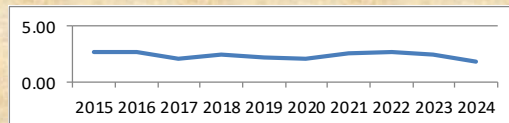
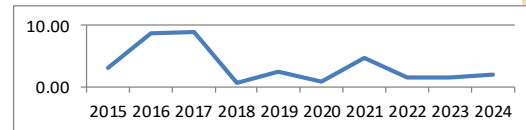
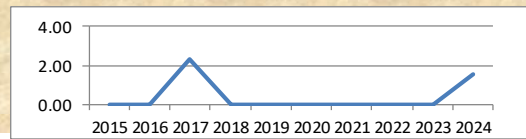
AN ANALYSIS OF DAMAGE PREVENTION  
AND LEAKS  
WV GAS PIPELINE SAFETY DIVISION

# HITS

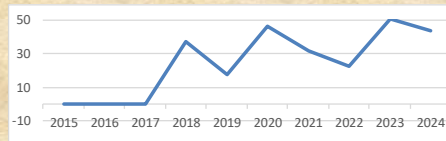
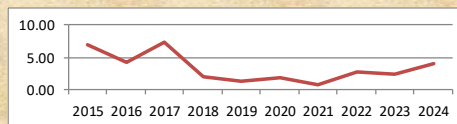
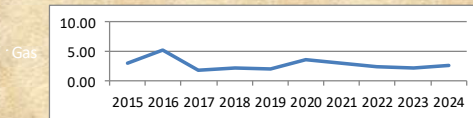




## DAMAGE PREVENTION TRENDS IN DISTRIBUTION



## DAMAGE PREVENTION TRENDS IN DISTRIBUTION



## HOW ARE WE DOING?

### Overall hits per thousand:

- **2023 2.37**
- **2024 2.42**





## CGA 26 ROOT CAUSES IN DAMAGE PREVENTION NOTIFICATION ISSUES

| <b><i>NOTIFICATION ISSUES</i></b> |                            |                                |                                 |                                    |
|-----------------------------------|----------------------------|--------------------------------|---------------------------------|------------------------------------|
| <b>NO ONE CALL</b>                | <b>DIG OUTSIDE OF AREA</b> | <b>DIG PRIOR TO START DATE</b> | <b>DIG AFTER TICKET EXPIRED</b> | <b>INCORRECT NOTIFICATION INFO</b> |

## CGA 26 ROOT CAUSES IN DAMAGE PREVENTION EXCAVATION ISSUES

- 6-11

| <i>EXCAVATION ISSUE</i>                 |   |   |                                 |  |   |
|---|---|---|---------------------------------|--|---|
| <b>DIG<br/>PRIOR<br/>TO<br/>POTHOLE</b> | <b>CLEARANCE<br/>NOT<br/>MAINTAINED</b> | <b>FAILED TO<br/>PROTECT<br/>FACILITIES</b> | <b>IMPROPER<br/>BACKFILLING</b> | <b>MARKS FADED<br/>OR NOT<br/>MAINTAINED</b> | <b>OTHER<br/>IMPROPER<br/>EXC.<br/>PRACTICE</b> |

## CGA 26 ROOT CAUSES IN DAMAGE PREVENTION LOCATION ISSUES

- 12-22

| <i>LOCATION ISSUE</i>                     |  |   |   |  |                              |
|---|--|---|---|--|------------------------------|
| <b>NOT MARKED/<br/>ABANDONED<br/>FAC.</b> | <b>INCORRECT<br/>RECORDS/<br/>MAPS</b>               | <b>LOCATOR<br/>ERROR</b>                            | <b>NO RESPONSE<br/>FROM LOCATOR</b>                 | <b>IMCOMPLETE<br/>MARKS AT<br/>DAMAGE LOC.</b> | <b>TRACER WIRE<br/>ISSUE</b> |
| <i>LOCATION ISSUE</i>                     |  |   |   |  |                              |
| <b>UNLOCATABLE<br/>FACILITY</b>           | <b>INNACCURATE<br/>DUE TO<br/>ABANDONED<br/>FAC.</b> | <b>INNACCURATE<br/>DUE TO<br/>RECORDS/<br/>MAPS</b> | <b>INNACCURATE<br/>DUE TO<br/>LOCATOR<br/>ERROR</b> | <b>INNACCURATE<br/>DUE TO TRACER<br/>WIRE</b>  |                              |



## CGA 26 ROOT CAUSES IN DAMAGE PREVENTION MISCELLANEOUS ISSUES

- 23-26

| MISCELLANEOUS ROOT CAUSES |                       |                 |                       |
|---------------------------|-----------------------|-----------------|-----------------------|
| DETERIORATED FACILITY     | ONE CALL CENTER ERROR | PREVIOUS DAMAGE | ROOT CAUSE NOT LISTED |

## DAMAGE PREVENTION: 2024 DISTRIBUTION ROOT CAUSES

| <i>Number of Tickets</i> | <i>Total Damages</i> | NO ONE CALL | DIG OUTSIDE OF AREA | DIG PRIOR TO START DATE | DIG AFTER TICKET EXPIRED | INCORRECT NOTIFICATION INFO | DIG PRIOR TO POTHOLE | CLEARANCE NOT MAINTAINED |
|--------------------------|----------------------|-------------|---------------------|-------------------------|--------------------------|-----------------------------|----------------------|--------------------------|
| 112996                   | 169                  | 65          | 3                   | 9                       | 10                       | 2                           | 41                   | 39                       |

## DAMAGE PREVENTION: 2024 GATHERING AND TRANSMISSION ROOT CAUSES

| <i>Operator</i> | <i>Number of Tickets</i> | <i>Total Damages</i> | <b>NO ONE CALL</b> | <b>DIG OUTSIDE OF AREA</b> | <b>DIG PRIOR TO START DATE</b> | <b>DIG AFTER TICKET EXPIRED</b> | <b>INCORRECT NOTIFICATION INFO</b> | <b>DIG PRIOR TO POTHOLE</b> | <b>CLEARANCE NOT MAINTAINED</b> |
|-----------------|--------------------------|----------------------|--------------------|----------------------------|--------------------------------|---------------------------------|------------------------------------|-----------------------------|---------------------------------|
| <b>TOTALS</b>   | 10461                    | 10                   | 4                  | 3                          | 1                              | 0                               | 0                                  | 0                           | 2                               |

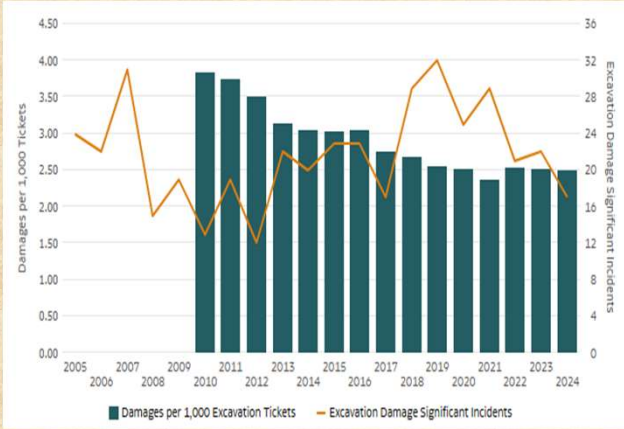
62% Of Pipeline Damages in WV are in these Categories

|                    |                            |                                |                                 |                                    |                             |                                 |
|--------------------|----------------------------|--------------------------------|---------------------------------|------------------------------------|-----------------------------|---------------------------------|
| <b>NO ONE CALL</b> | <b>DIG OUTSIDE OF AREA</b> | <b>DIG PRIOR TO START DATE</b> | <b>DIG AFTER TICKET EXPIRED</b> | <b>INCORRECT NOTIFICATION INFO</b> | <b>DIG PRIOR TO POTHOLE</b> | <b>CLEARANCE NOT MAINTAINED</b> |
|--------------------|----------------------------|--------------------------------|---------------------------------|------------------------------------|-----------------------------|---------------------------------|



# HOW DO WE STACK UP IN DAMAGE PREVENTION?

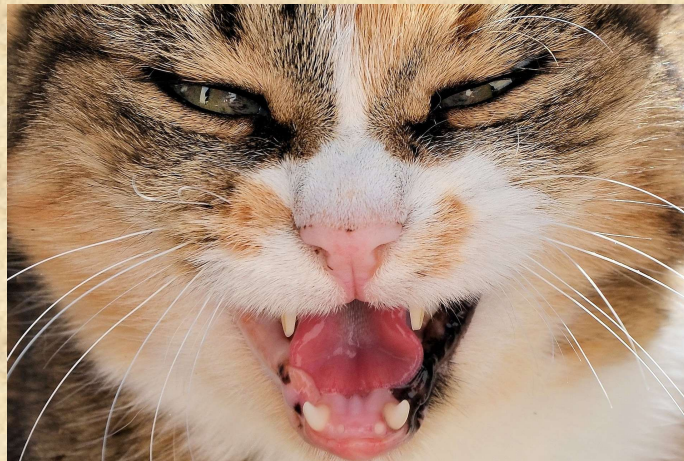
- LETS LOOK AT DISTRIBUTION



2023  
NATIONAL: 2.50 WV: 2.37

2024  
NATIONAL: 2.48 WV: 2.42

# HISSES



(LEAKS)



## LEAKS PER MILE: DISTRIBUTION SYSTEMS

- NATIONWIDE, THE AVERAGE LEAKS PER MILE ON DISTRIBUTION SYSTEMS IS .51 LEAKS PER MILE
- IN WEST VIRGINIA THE AVERAGE LEAKS PER MILE ON DISTRIBUTION SYSTEMS IS:
  - IN 2023: .45
  - IN 2024: .38

## LEAKS PER MILE: GATHERING LINES

- IN WEST VIRGINIA WE HAVE A TOTAL OF 2510 MILES OF REGULATED INTRASTATE GATHERING LINES.
- WITHIN THESE LINES A TOTAL OF 88 LEAKS WERE REPORTED FOR THE CALENDAR YEAR 2024
- THIS GIVES A TOTAL OF .04 LEAKS PER MILE

## LEAKS PER MILE: TRANSMISSION LINES

- IN WEST VIRGINIA THERE ARE A TOTAL OF 204 MILES OF INTRASTATE TRANSMISSION LINES
- WITHIN THESE LINES THERE WERE 8 LEAKS REPORTED
- THIS GIVES A TOTAL OF .04 LEAKS PER MILE

## BE PREPARED TO EXPLAIN WHEN:

| EQUIP |
|-------|
| 0     |
| 0     |
| 46    |
| 2     |
| 0     |
| 0     |
| 1     |
| 0     |
| 0     |
| 0     |
| 0     |
| 1     |
| 0     |
| 0     |
| 0     |
| 0     |
| 2     |
| 0     |
| 0     |
| 2     |
| 17    |



## BE PREPARED TO EXPLAIN WHEN:

| Leaks |    |     |    |     |     |     |       |       |
|-------|----|-----|----|-----|-----|-----|-------|-------|
| CF    | NF | ED  | OF | PF  | EQF | IOP | OTHER | Total |
| 2072  | 64 | 163 | 46 | 198 | 35  | 0   | 225   | 2803  |

| Leak Causes |                      |
|-------------|----------------------|
| CF          | CORROSION            |
| NF          | NAT FORCE            |
| ED          | EXCAVATION DAMAGE    |
| OF          | OTHER OUTSIDE FORCE  |
| PF          | PIPE FAILURE         |
| EQF         | EQUIPMENT FAILURE    |
| IOP         | INCORRECT OPERATIONS |
| OTHER       | OTHER                |

## BE PREPARED TO EXPLAIN WHEN:

|       |
|-------|
| OTHER |
| 0     |
| 1     |
| 0     |
| 0     |
| 40    |
| 0     |
| 483   |
| 0     |
| 24    |
| 0     |
| 548   |

Other represents 10.9% of all leaks

How classifying leaks?

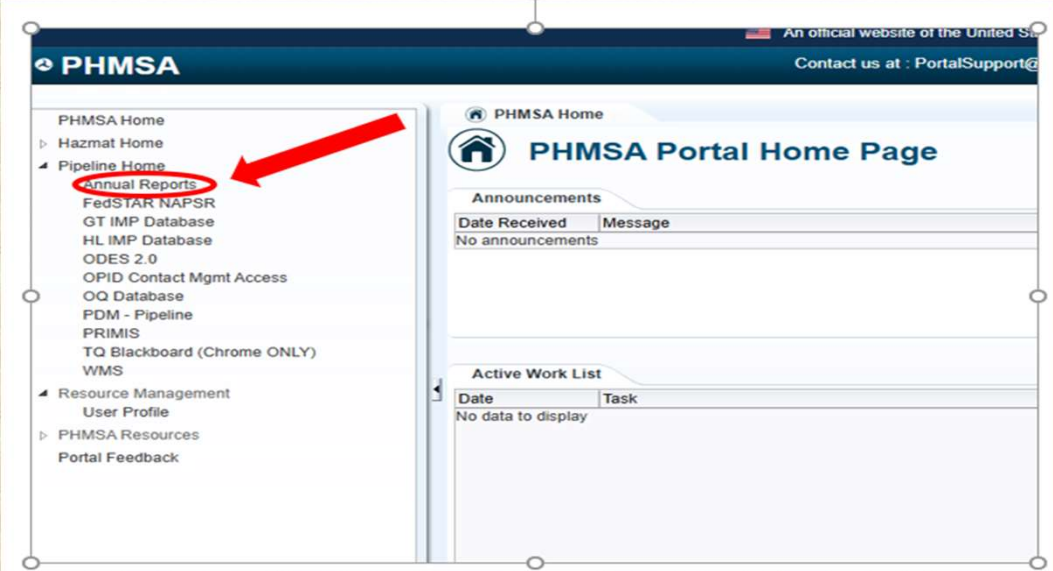
Multiple clamps?

Per bell hole?

Distance between leaks?



## PHMSA INSTRUCTIONS FOR ANNUAL REPORTS



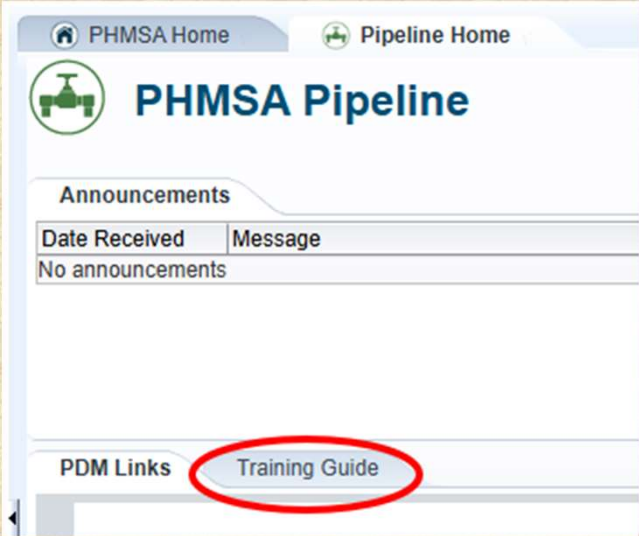
The screenshot shows the PHMSA Portal Home Page. The navigation menu on the left includes the following items:

- PHMSA Home
- Hazmat Home
- Pipeline Home
  - Annual Reports** (circled in red with a red arrow pointing to it)
  - FedSTAR NAPS
  - GT IMP Database
  - HL IMP Database
  - ODES 2.0
  - OPID Contact Mgmt Access
  - OQ Database
  - PDM - Pipeline
  - PRIMIS
  - TQ Blackboard (Chrome ONLY)
  - WMS
- Resource Management
  - User Profile
- PHMSA Resources
  - Portal Feedback

The main content area of the page includes:

- PHMSA Home
- PHMSA Portal Home Page
- Announcements
  - Date Received
  - Message
  - No announcements
- Active Work List
  - Date
  - Task
  - No data to display

## PHMSA INSTRUCTIONS FOR ANNUAL REPORTS



The screenshot shows the PHMSA Pipeline page. The navigation menu at the top includes:

- PHMSA Home
- Pipeline Home

The main content area includes:

- PHMSA Pipeline
- Announcements
  - Date Received
  - Message
  - No announcements
- PDM Links
  - Training Guide** (circled in red)



# PHMSA INSTRUCTIONS FOR ANNUAL REPORTS

PDM Links
Training Guide

- [Gas Distribution Annual](#)
- [Gas Transmission Annual](#)
- [Hazardous Liquid Annual](#)
- [LNG Annual](#)
- [Underground Natural Gas Storage](#)

# PHMSA INSTRUCTIONS FOR ANNUAL REPORTS

<https://www.phmsa.dot.gov/forms/operator-reports-submitted-phmsa-forms-and-instructions>

The screenshot shows the PHMSA website page for 'Operator Reports Submitted to PHMSA - Forms and Instructions'. The page includes a navigation bar with the PHMSA logo and the text 'U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration'. Below the navigation bar, there are sections for 'Pipeline Compliance Forms', 'Related Links', 'Contact Us', and a table of reports. The 'Related Links' section contains a link to 'Pipeline Report Forms and Instructions 01\_03\_2014\_029'. The 'Contact Us' section provides the address of the Office of Pipeline Safety, U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, 1200 New Jersey Avenue, SE, Washington, DC 20590, United States, along with email, phone, and fax numbers. The table of reports lists various report types with links to 'Form' and 'Instructions'.

| Report Type   | Form                 | Instructions                 |
|---|----------------------|------------------------------|
| OpID Assignment Request - creating a new operator identification number |                      |                              |
| OpID Assignment Request F1000.1   | <a href="#">Form</a> | <a href="#">Instructions</a> |
| Annual Reports - Infrastructure for all facility types                  |                      |                              |
| Gas Distribution F7100.1-1  | <a href="#">Form</a> | <a href="#">Instructions</a> |
| Gas Transmission and Gathering F7100.2-1                                | <a href="#">Form</a> | <a href="#">Instructions</a> |
| RR Gas Gathering F7100.2-3  | <a href="#">Form</a> | <a href="#">Instructions</a> |
| Hazardous Liquid/C2 F7000.1-1   | <a href="#">Form</a> | <a href="#">Instructions</a> |

# Questions