

# 2020 MISS DIG Annual Meeting

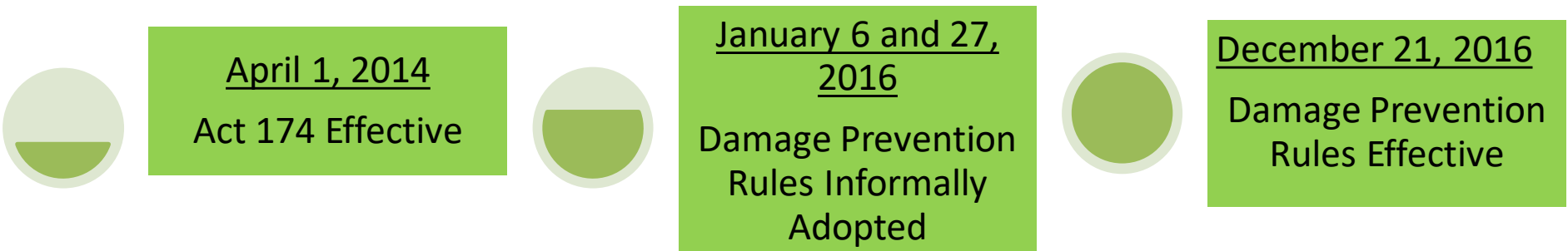
January 21, 2020

# Agenda

- Authority
- Damage Reporting
- Damage Prevention Statistics
- PHMSA Audit
- Complaints
- Enforcement Activity
- Strategic Planning
- Incidents

# Authority

- State
  - Public Act 174 of 2013
  - Michigan Underground Facility Owners and Operators (Rules)
  - Public Act 165 of 1969
  - Michigan Gas Safety Standards (Rules)



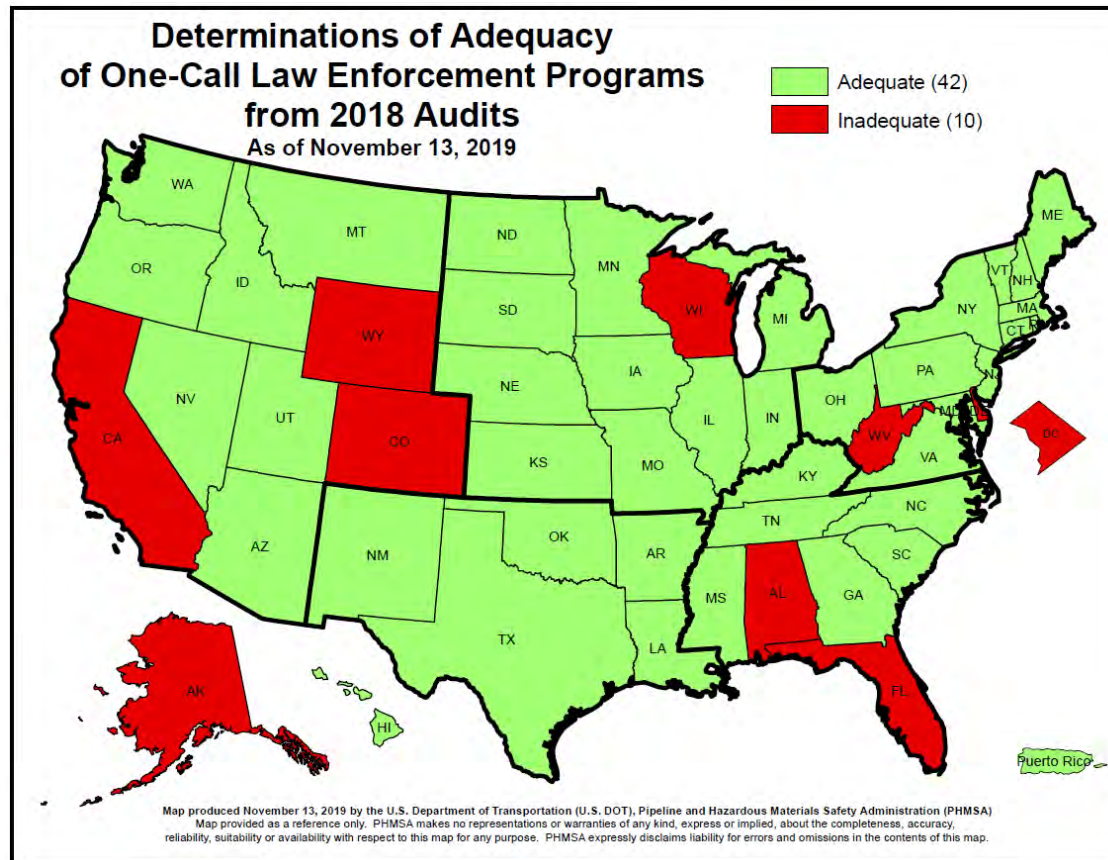
April 1, 2014  
Act 174 Effective

January 6 and 27,  
2016  
Damage Prevention  
Rules Informally  
Adopted

December 21, 2016  
Damage Prevention  
Rules Effective

# Authority

- Federal
  - Protecting our Infrastructure of Pipelines Enhancing Safety (PIPES) Act of 2016
  - 49 CFR Part 196 (Rules)
    - No exemptions, including hand digging



# Damage Reporting

- In 2018, the Common Ground Alliance made significant changes to the Damage Information Reporting Tool (DIRT) field form.
- Effective January 1, 2020, MPSC adopted the changes.
  - Updated Damage Reporting Manual and CSV File available on MPSC website or upon request.
  - Damage Data submission deadlines are as follows:

Reporting Period	Due Date
First Quarter	May 15 <sup>th</sup>
Second Quarter	August 15 <sup>th</sup>
Third Quarter	November 15 <sup>th</sup>
Fourth Quarter	February 15 <sup>th</sup>

# Damage Reporting

- Changes to MPSC Damage Reporting Manual

## New Fields

- TypeOfEvent
- CrossBore
- DepthFromGrade
- MemberOfOneCallExempt
- ActivityOrExcavatorExempt
- WhiteLined

## Removed Fields

- FacilityMarks
- FacilityMarksCorrect
- FacilityDamage
- PeopleInjured
- Fatalities

## Updated Fields

- Downtime
- EstDowntimeCost
- InterruptionDuration
- CustomersAffected
- CostOfDamage
- RootCause

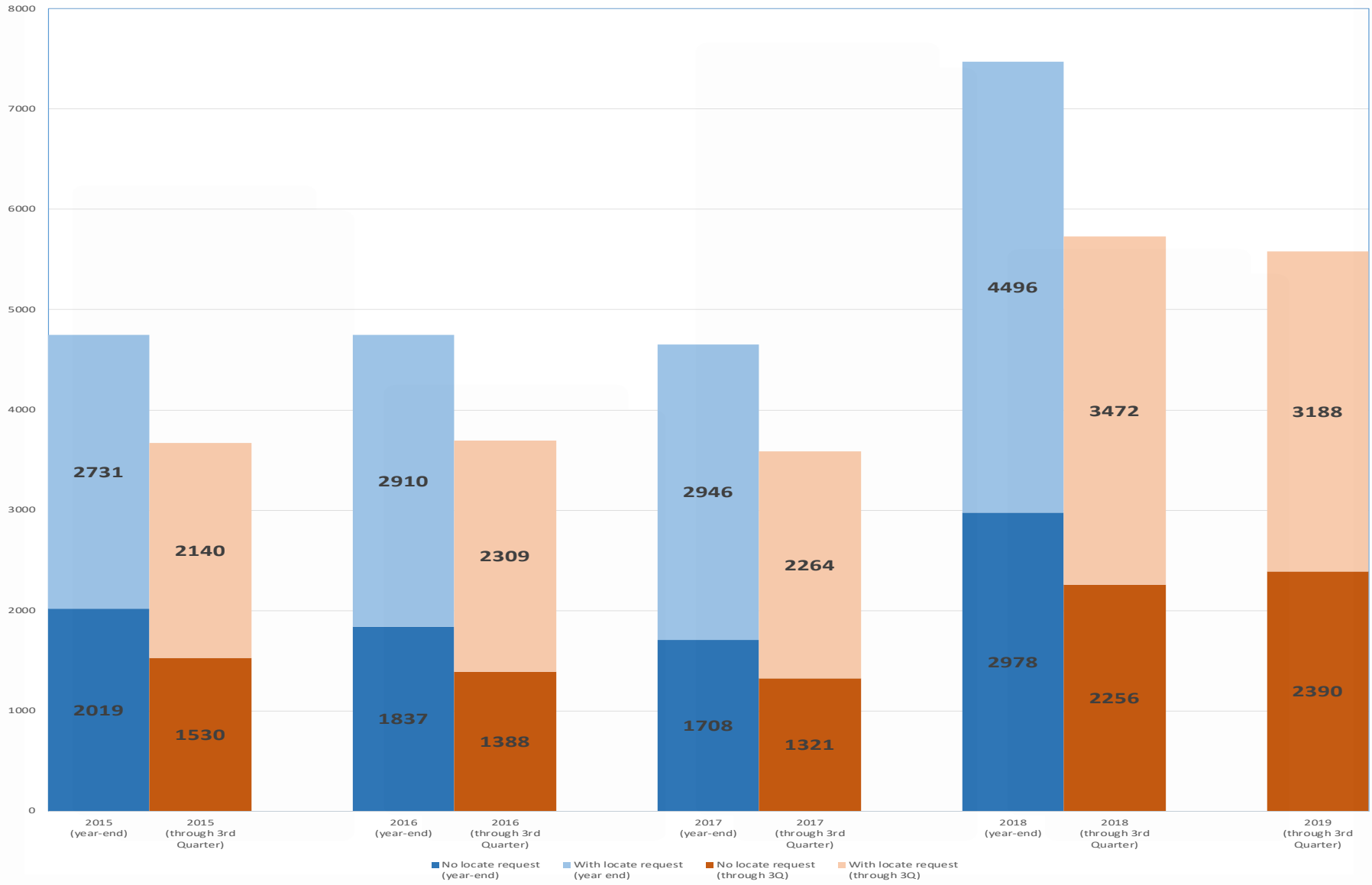
- 98/NOTCOL/Data Not Collected was removed throughout the entire form.

# Damage Reporting

- On April 15, 2019, the MPSC launched a new pipeline safety database.
- Utilizes the Operations email account ([LARA-MPSC-Operations@michigan.gov](mailto:LARA-MPSC-Operations@michigan.gov)).
  - Replies to database emails should contain the case reference (e.g., “ref:\_00Dr08vPn.\_500r04lQ1o:ref”), which will direct to the appropriate database case.
- DP complaints entered on the MPSC website automatically generate a case.
- Quarterly damage data submittals automatically generate a case.

# Damage Prevention Statistics

Total Damages by Locate Request





# Damage Prevention Statistics

## Gas Facility Damages Per 1000 Tickets

### 2018 Excavation Damages

<b>Michigan</b>	
Total Excavation Damages	4,054
Total Excavation Tickets	819,538
Excavation Damages / 1000 Tickets	4.9

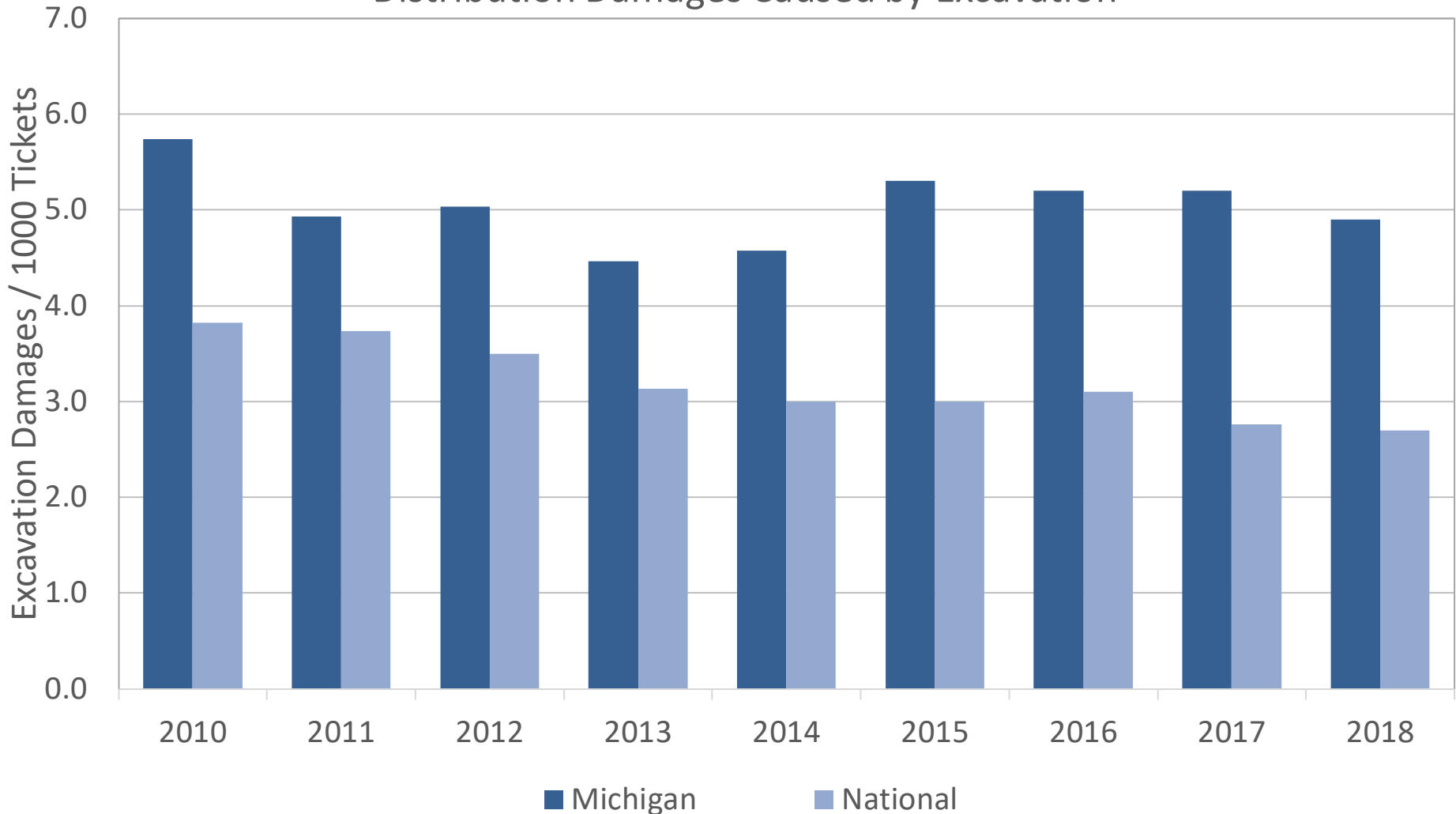
  

<b>National</b>	
Excavation Damages / 1000 Tickets	2.7

# Damage Prevention Statistics

## Gas Facility Damages Per 1000 Tickets

Distribution Damages Caused by Excavation



# Damage Prevention Statistics

## Gas Leaks Per Unit of Infrastructure

### 2018 Michigan Leak Summary

<b>Mains</b>	
Excavation Leaks	493
Leaks / 100 Miles of Main	0.83

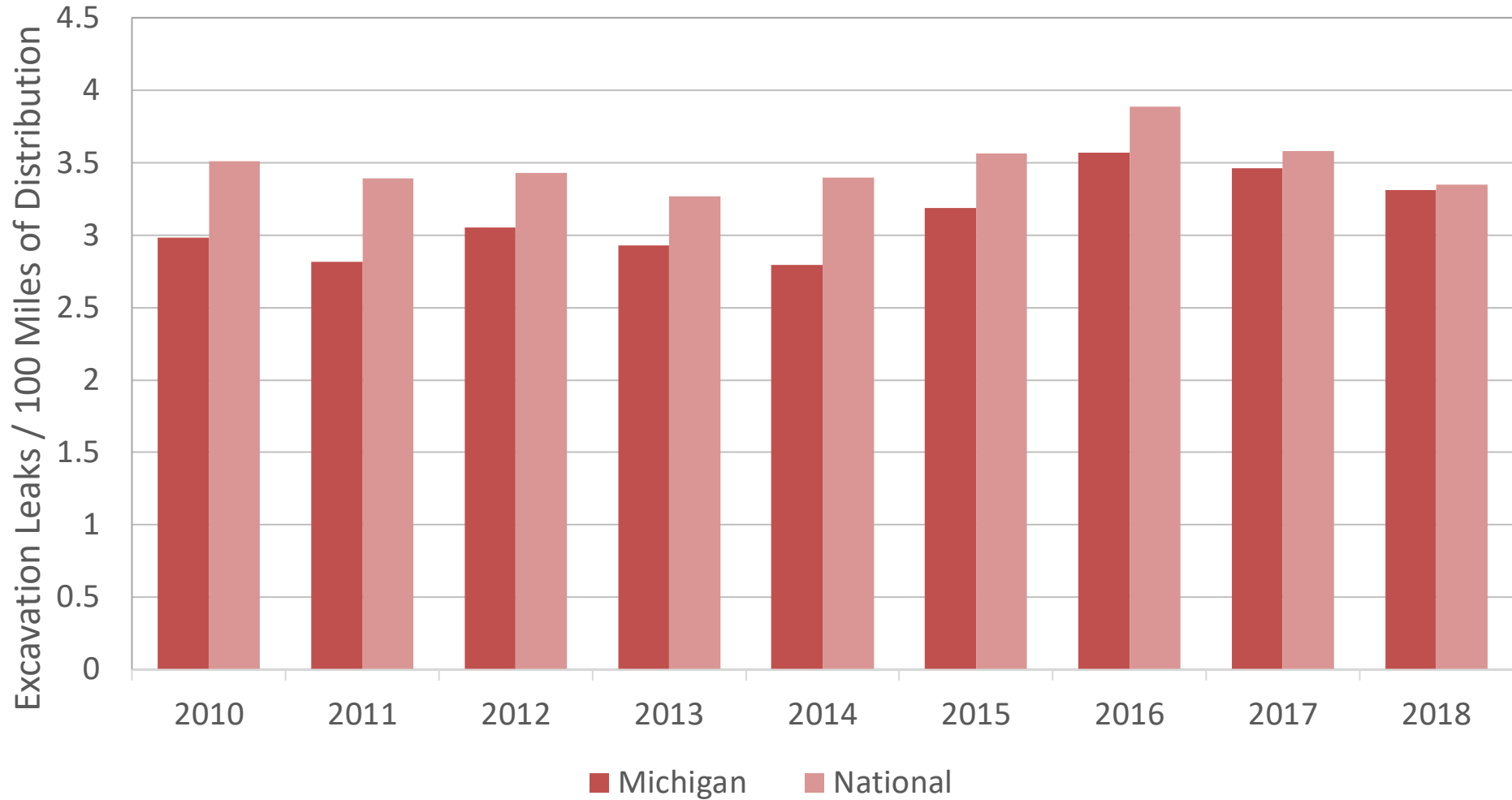
  

<b>Services</b>	
Excavation Leaks	3235
Leaks / 1000 Services	0.98

# Damage Prevention Statistics

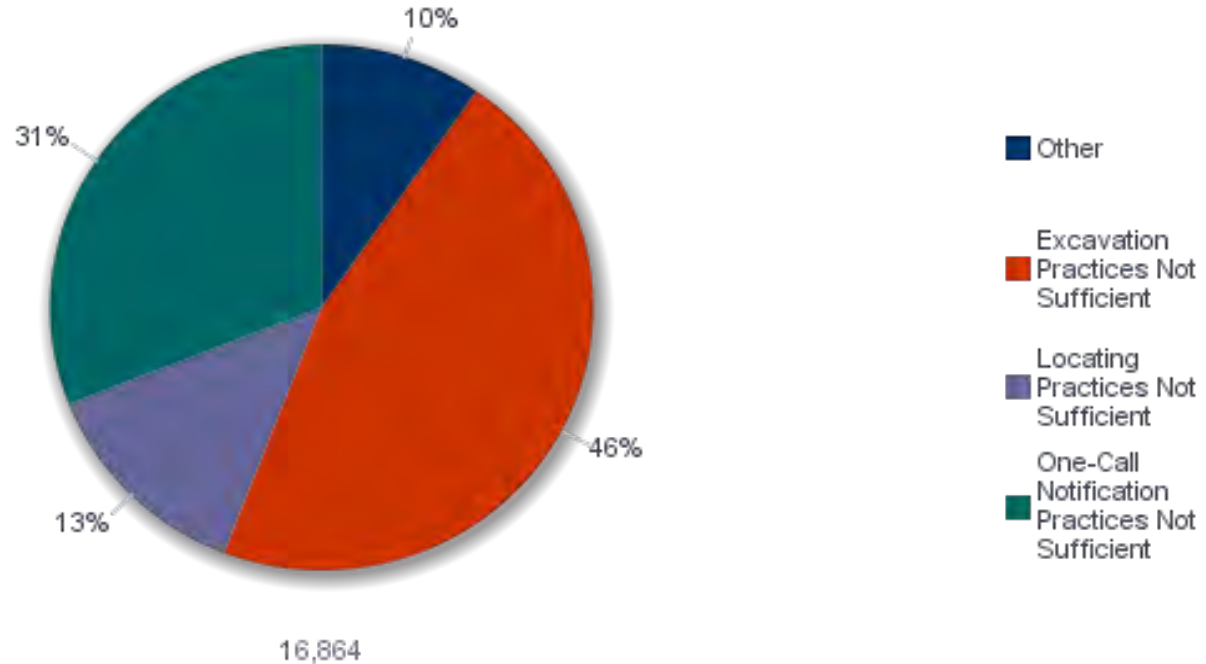
## Gas Leaks Per Unit of Infrastructure

### Distribution Leaks Caused by Excavation



# Damage Prevention Statistics

## Michigan Gas Distribution Pipeline Excavation Damages by Root Cause

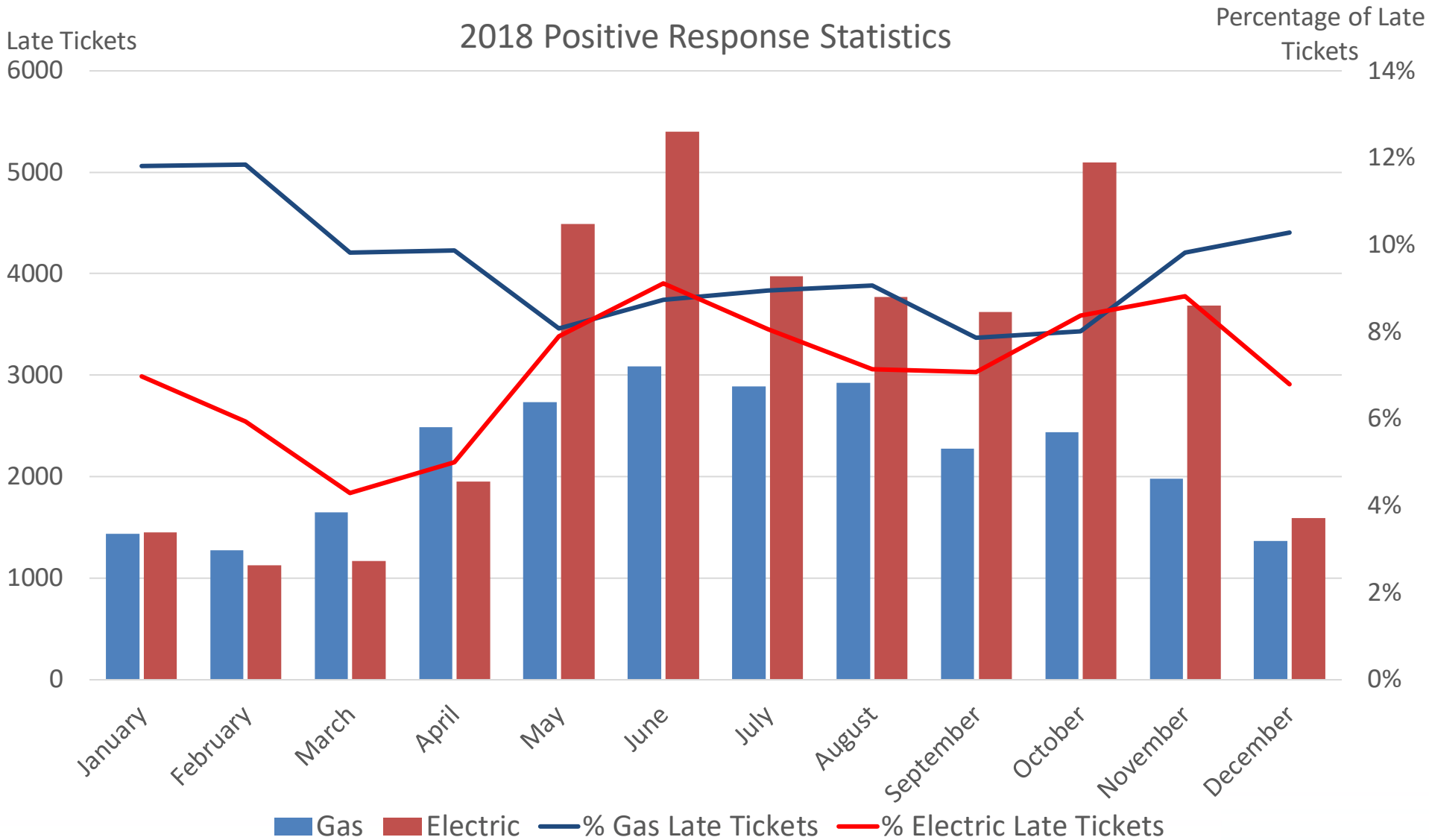


Calendar Year	Number of Excavation Tickets	Number of Excavation Damages	One-Call Notification Practices Not Sufficient	Locating Practices Not Sufficient	Excavation Practices Not Sufficient	Other	One-Call Notification Practices Not Sufficient	Locating Practices Not Sufficient	Excavation Practices Not Sufficient	Other
2018	819,538	4,054	1,177	633	1,954	290	29%	16%	48%	7%
2017	822,578	4,271	1,238	636	2,108	289	29%	15%	49%	7%
2016	827,516	4,272	1,361	466	1,999	446	32%	11%	47%	10%
2015	796,641	4,267	1,451	481	1,727	608	34%	11%	40%	14%

Source: US DOT Pipeline and Hazardous Materials Safety Administration

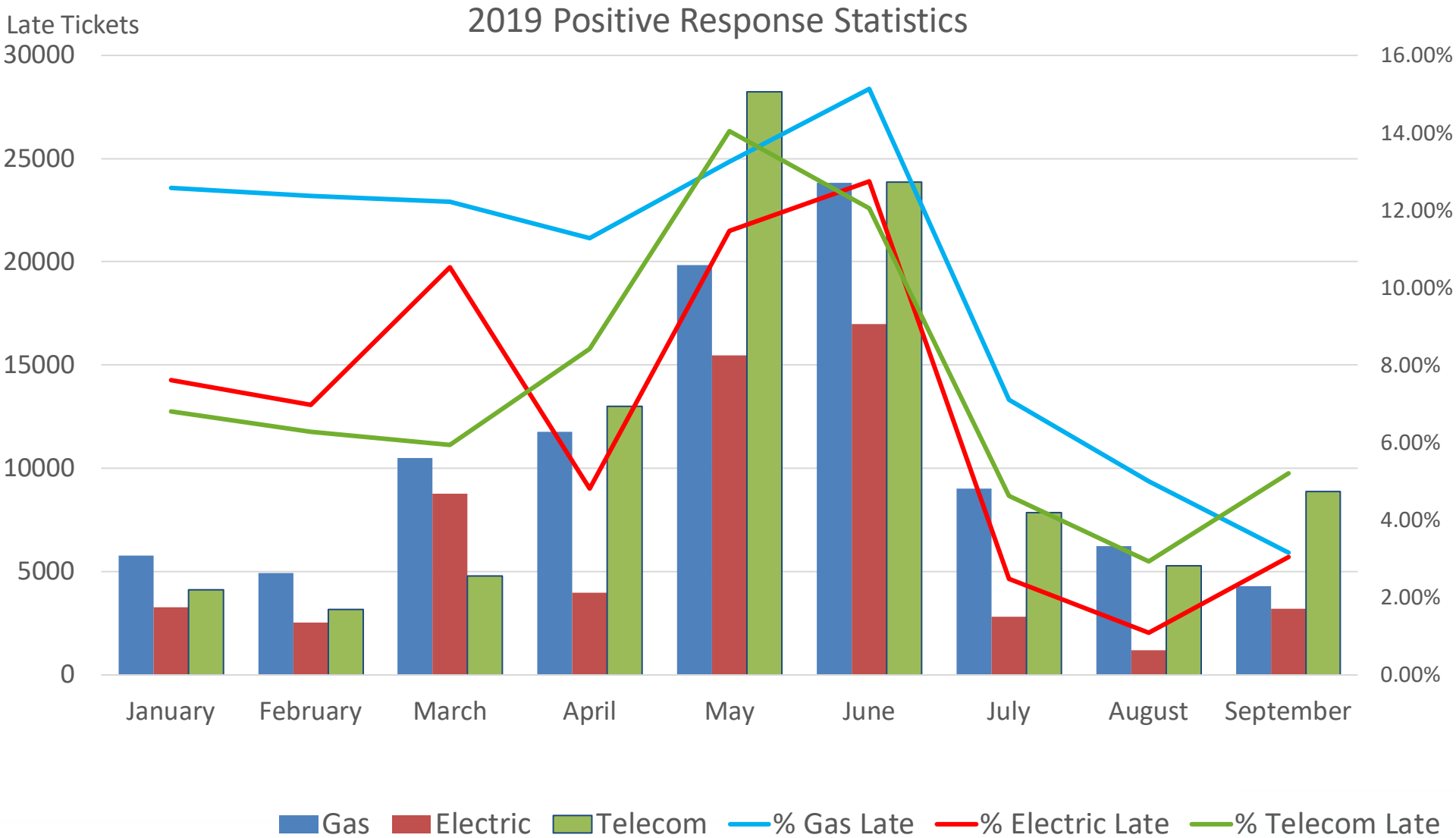
# Damage Prevention Statistics

## “999” Tickets



# Damage Prevention Statistics

## “999” Tickets



# PHMSA Audit

- PHMSA Conducted an Adequacy Evaluation of Michigan's Enforcement of PA 174 on November 5, 2019 for CY2018.
  - Letter received December 6, 2019 deeming the Program adequate.



- Areas to focus on:
  - Hand digging and soft excavation damages
    - Specifically occurring with tickets
  - Making enforcement actions publicly available
  - Locator performance
    - Mismatching
    - Late marking
  - 1<sup>st</sup> and 2<sup>nd</sup> party damages
  - Data quality
    - Unknown/Other
    - Utilities not reporting damages

# Complaints

- On April 18, 2019 the MPSC adopted an updated Damage Prevention Complaint Form through Case U-17497.
- Reduced the number of information fields.
- Updated Damage Prevention Complaint Form is available on the MPSC website:  
[www.michigan.gov/MPSC](http://www.michigan.gov/MPSC)
  - **Users must use a browser other than Internet Explorer**
- Attachments can be provided via replying to the complaint submission confirmation email.

# Complaints



## Damage Prevention Complaint Form

### Who is submitting this information?

Who is Filing the Complaint?

Contact Name

Filed on Behalf of (Company)

Phone Number

Email

### Damage or Event Details

Event Date

Address

City

State

Was There Damage to a Facility

What Type of Facility Operation Was Affected

# Complaints

- 158 complaints filed since PA 174 became effective on April 1, 2014.

Year	Complaints Received	Issued NOPV with Penalty	Issued NOPV	Resolved
2016	24	3	3	18
2017	23	10	2	11
2018	30	7	3	20
2019	54	3	5	10
Total	106	22	8	50

# Enforcement Activity

- In 2019, 31 pipeline safety cases involving damage prevention were opened.
  - A total of \$81,500 in penalties were assessed.

Type of Letter	Excavator	Facility Operator	Total
NOPV with Penalty	17	13	11
NOPV	8	1	5
Total	25	13	38

# Enforcement Activity

- Show Cause U-20520
  - 5/2/19 Docket opened.
  - 8/20/19 Final Order issued.
  - 12/2019 Sent to collection.
- Show Cause U-20569
  - 6/7/19 Docket opened.
  - 12/20/19 Settlement Agreement filed.
    - \$145,000 civil penalty
    - \$100,000 to MISS DIG
    - \$300,000 to THAW

# Strategic Planning

1. Soft Excavation and Exemptions
2. Increased Field Presence
3. Increased Enforcement
4. Data Sharing and Quality
5. Performance Metrics
6. Stakeholder Engagement
7. Staffing

# Incidents

- 5/21/19
- 2" plastic, 60 psig
- Utility lowering gas main
- Excavator nicked main, continued to dig and hit joint trench electric line
- 1 injury
- \$120,203 property damage
- Enforcement
  - 460.725(5) – soft excavation, inadequate exposure
  - \$5,000
  - 192.751(a) – accidental ignition prevention
  - \$10,000





# Incidents

- 5/15/19
- 4" steel, 400 psig
- Sewer work
- Backfilling and grading when hit service tee
- \$79,180 property damage
- Enforcement
  - Excavator
  - 460.725(5) – soft excavation, failure to establish precise location



# Incidents

- 8/9/19
- 6" steel, 60 psig
- Boring electrical conduit
- Missed intended bore pit but kept boring
- \$49,160 property damage
- Enforcement
  - Excavator – Pending
  - Facility owner – Pending



Questions?