

2018 Annual Pipeline Safety Conference



DATA SUMMARY

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Program Overview

- ▶ Currently 13 inspectors with one pending hire
- ▶ 4 Supervisors (west, central, north and SE)
- ▶ 2017 Distribution Mileage: 48,139
- ▶ 2017 Number of Services: 2,861,193
- ▶ Total Number of Operators: Private 24, Municipal 2, LPG 7, LNG 4, Hazardous Liquid 7, 400+ Mastermeter

Program Overview

Times are changing:



Program Overview:

- ▶ Historically Natural Gas Distribution > 90%
- ▶ Presently:
 - ▶ Pipeline Safety also inspecting Act 127 Gathering and Propane Operators, Hazardous Liquids, Storage and Master Meter
 - ▶ I&E also investigates water, wastewater and steam(Philadelphia, Harrisburg and Pittsburgh)

Intrastate Pipeline Facilities Overview - Gas

- ▶ 2017 Gas Transmission Mileage: 1,276
- ▶ 2017 Jurisdictional Gathering Line Mileage: 799
- ▶ Estimated Unregulated Gathering Line Mileage: estimated at over 10,000 miles (Class 1)
 - ▶ Possibility this may be regulated in the future
- ▶ Gas Underground Storage Facilities: 7
- ▶ Total Number of Operators: Intrastate Transmission 37, Gathering 30

Intrastate Pipeline Facilities – Hazardous Liquids

- ▶ 2017 HL Mileage: 1,230
- ▶ 2017 HL Commodities: NGL(HVLs), Refined Petroleum
- ▶ 2017 Total Number of Operators: 7
 - ▶ New construction
 - ▶ Joint jurisdiction with PHMSA
 - ▶ Public Utilities

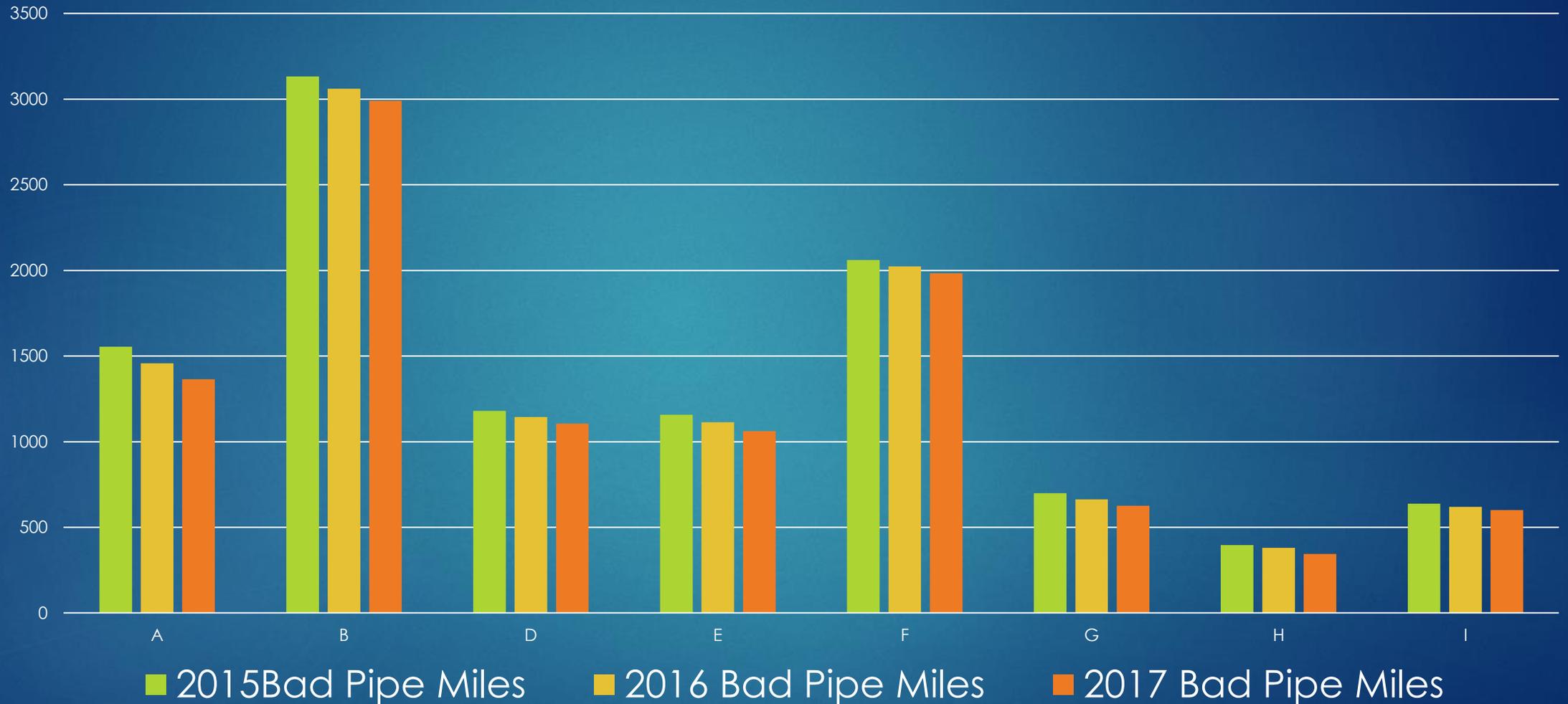
Gas Distribution Pipeline Materials

- ▶ Cast Iron Main Mileage: 2,629
- ▶ Unprotected Bare Steel Mileage: 6,807
- ▶ Unprotected Coated Mileage: 460
- ▶ Ductile Iron Mileage: 178
- ▶ Coated Protected Steel Mileage: 12,468
- ▶ Plastic Main Mileage: 24,014
- ▶ Reconditioned CI: 5
- ▶ Approximately 390 miles of bare and cast replaced in 2017
 - ▶ 4.1% statewide average removed ~25 years

2017 Miles of Main Replaced

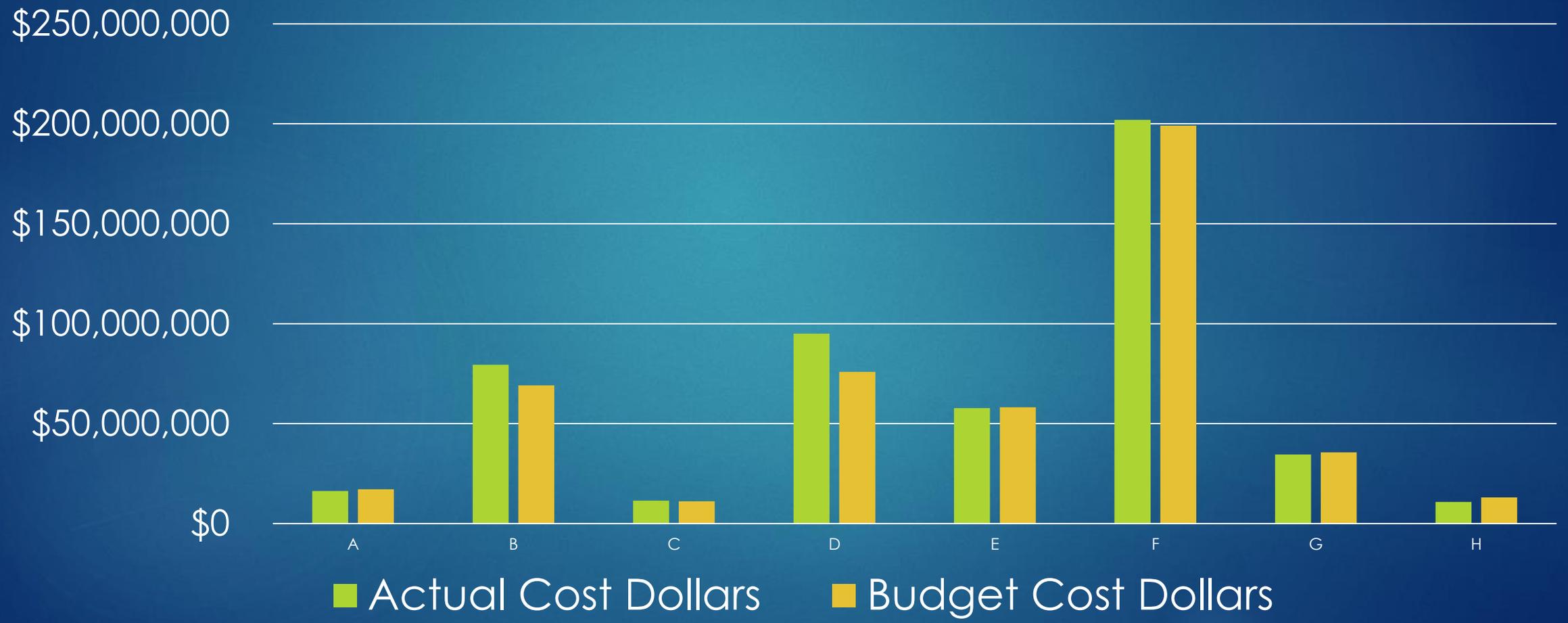


2015-2017 miles of Bad Pipe



2017 Main replacement cost per Operator

** Total spend in 2017 in PA was over \$507 million



Cost Per Mile

** 2017 statewide average is \$1.405 million/mile



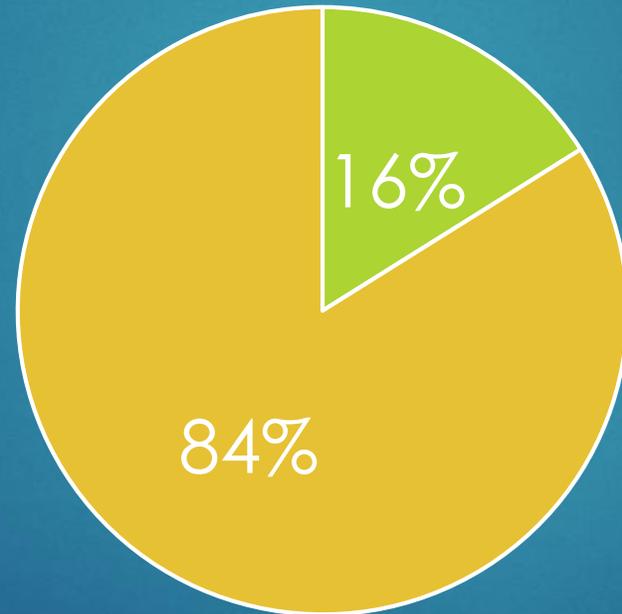
Riser Failures: 2015-2017

*288 riser failures
in 2017,
*33 more than
2016



Riser Data: 2017

Ownership of Risers in PA- 2017

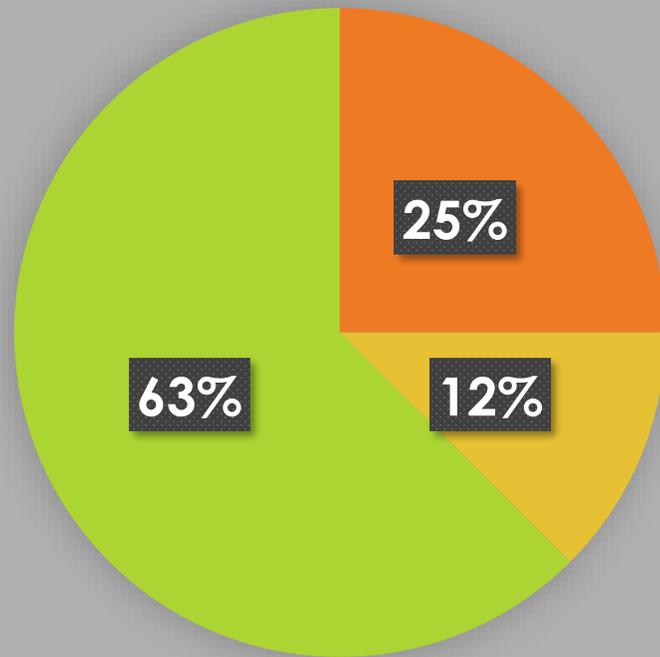


■ Customer owned risers

■ Utility owned risers

Riser Data: 2017

How Riser Failure Addressed in Operator's DIMP,
2017

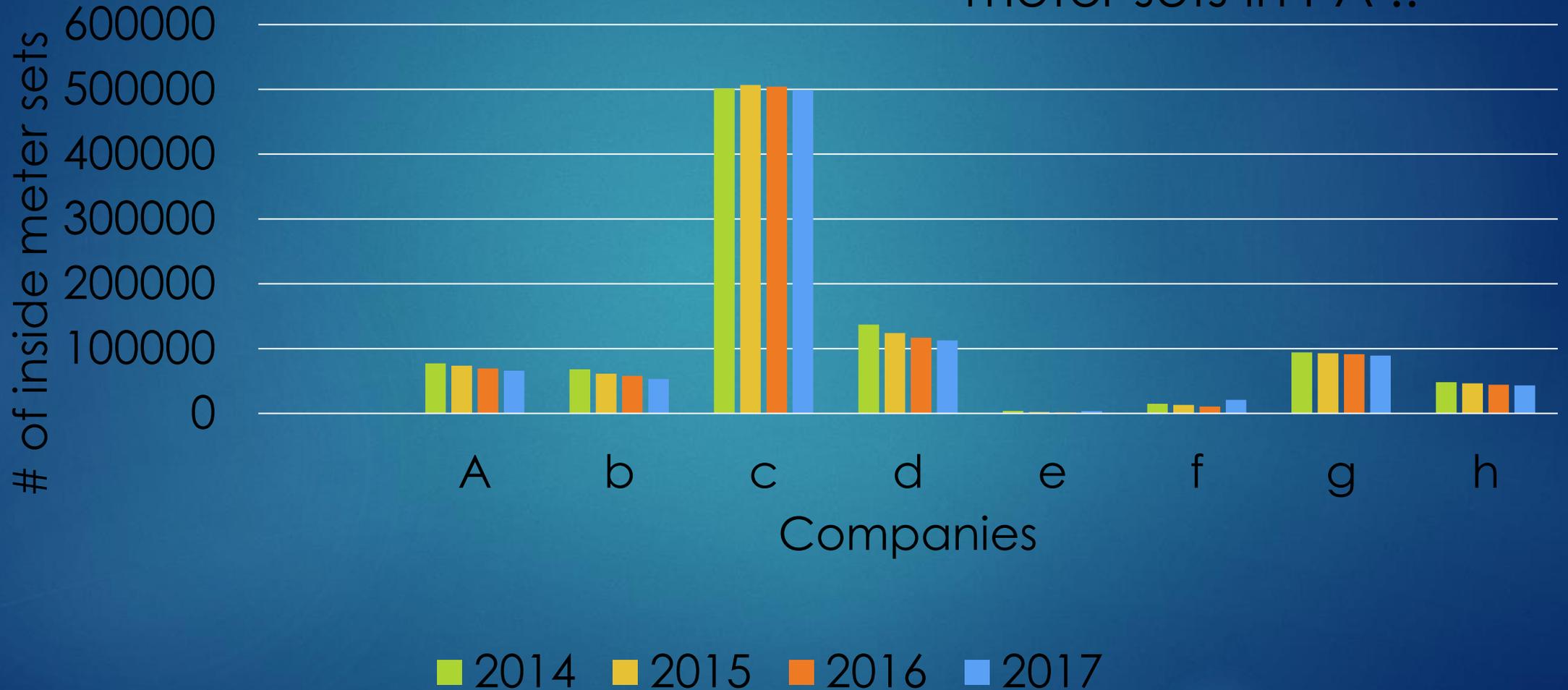
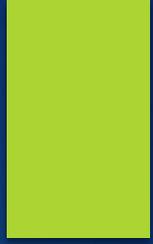


■ DIMP addresses riser failure

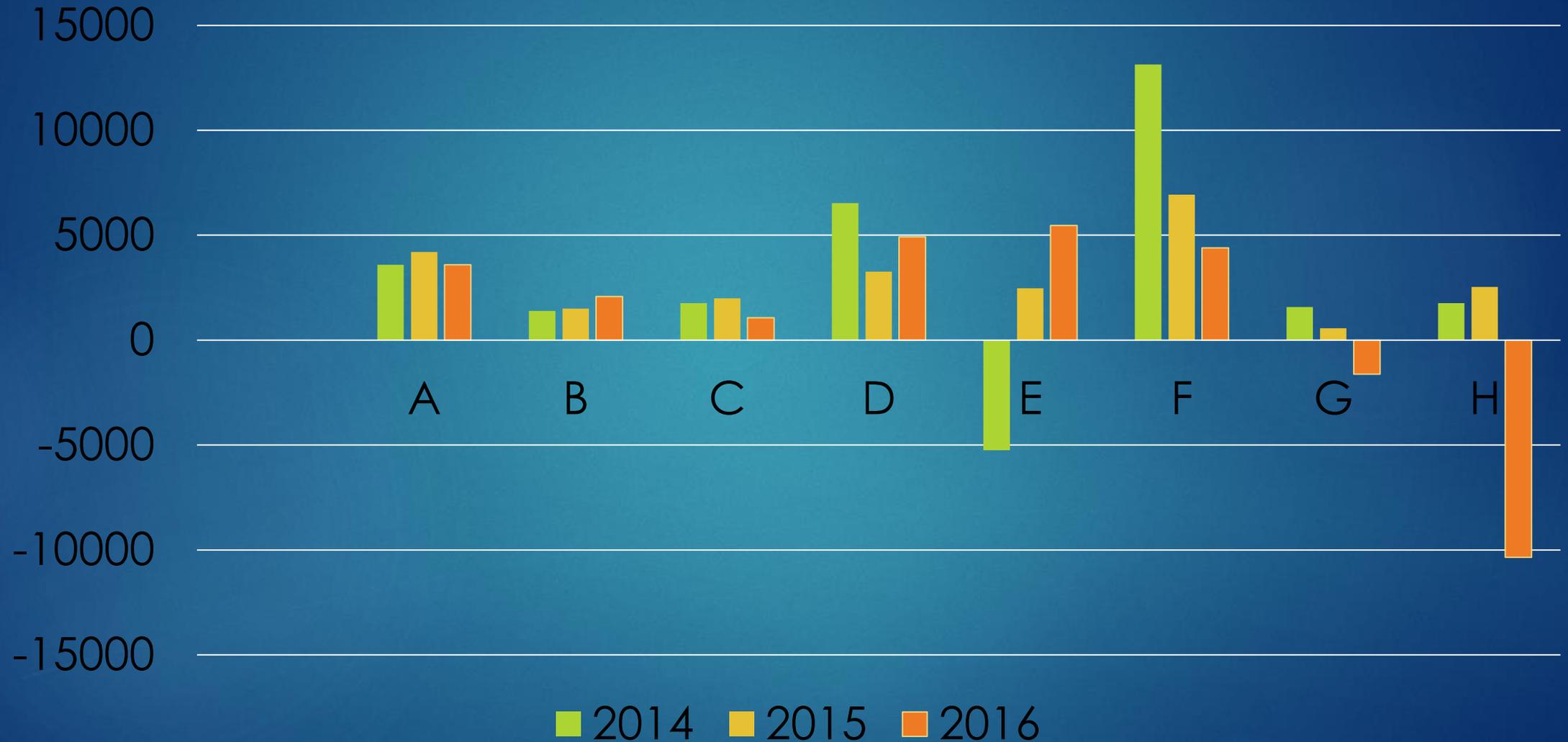
■ DIMP does NOT address Riser Failure

Inside Meter Sets

886,815 inside
meter sets in PA !!



Inside Meter Sets removed/yr

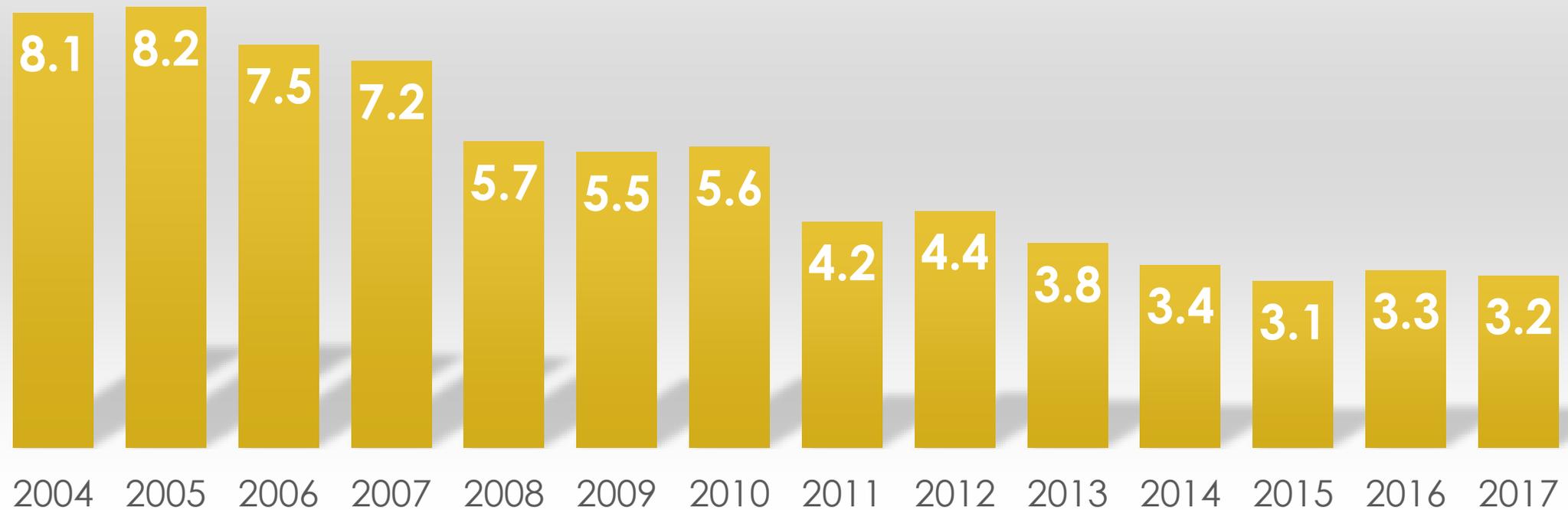


Damage Prevention Program 2017

- ▶ PA Act 50
- ▶ Statewide average : 3.2 Damages per 1,000 tickets marked (annual downward trend)
- ▶ Over 638,000 tickets marked in 2017
- ▶ 2,020 hits in 2017

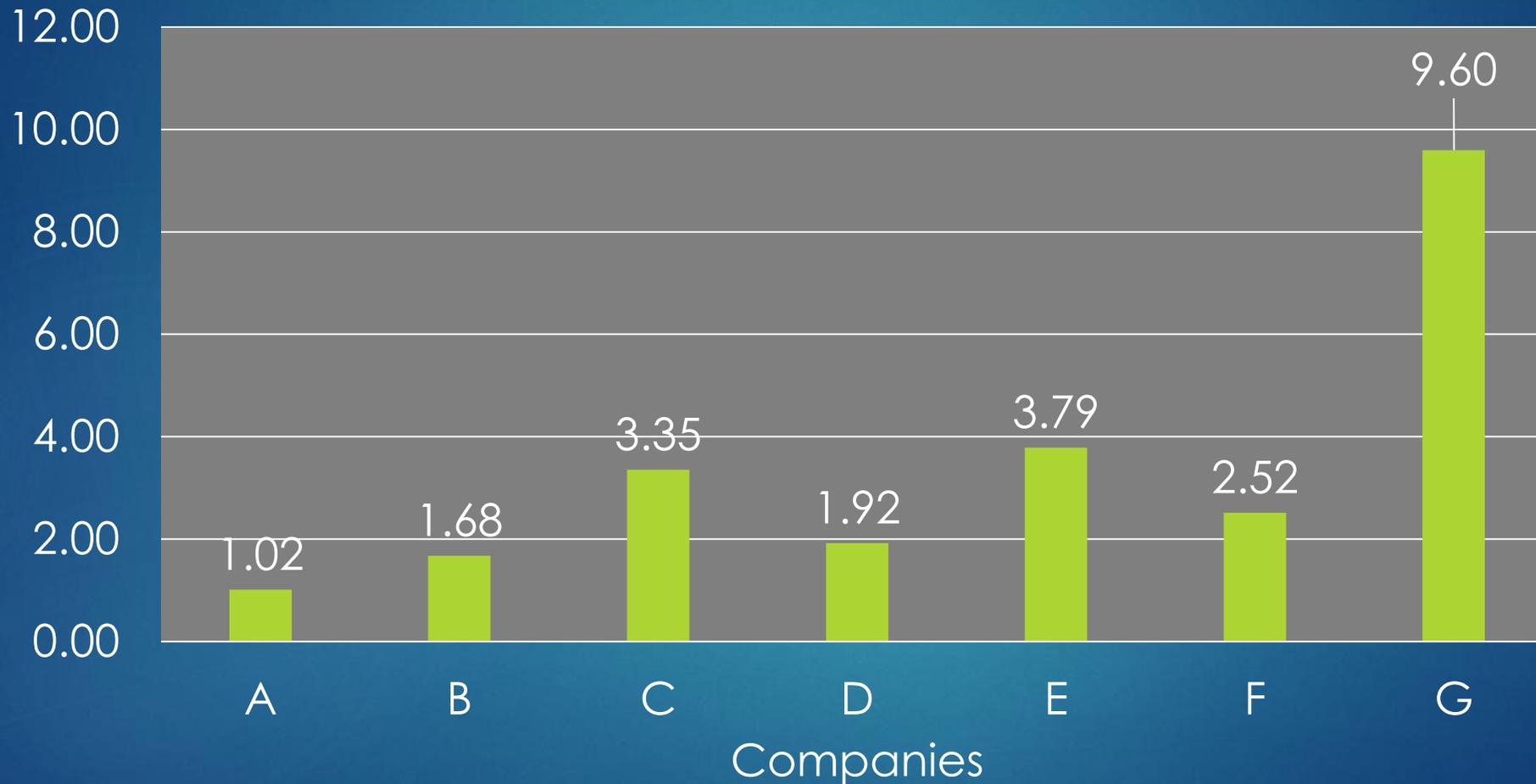
Damage Prevention Program 2017:

Yearly Average of Line Hits Per 1,000 Tickets Marked



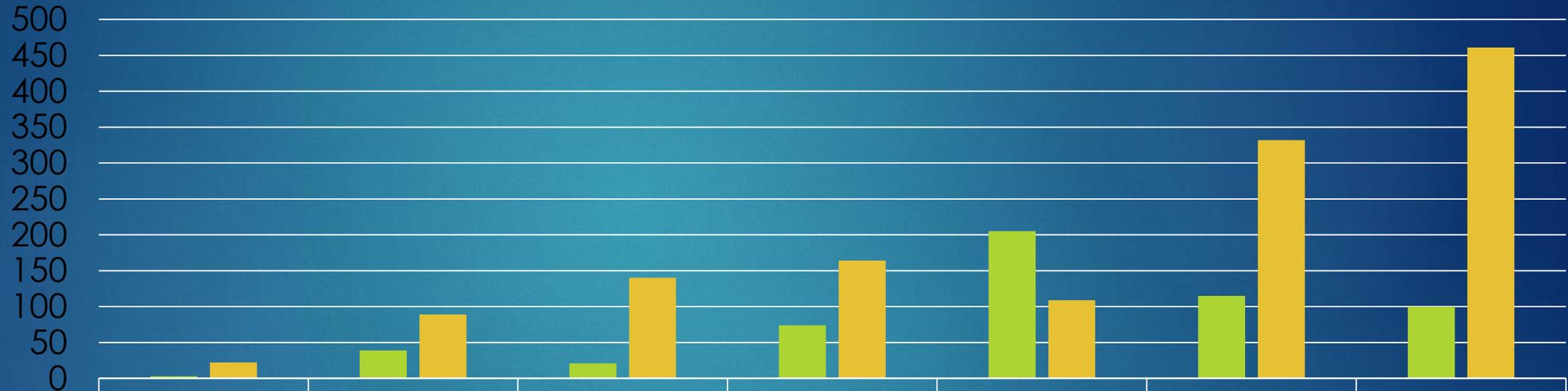
Damage Prevention Program 2017

2017 LH per 1000 TM by Operator



Damage Prevention Program 2017

Utility vs. Project Owner at Fault

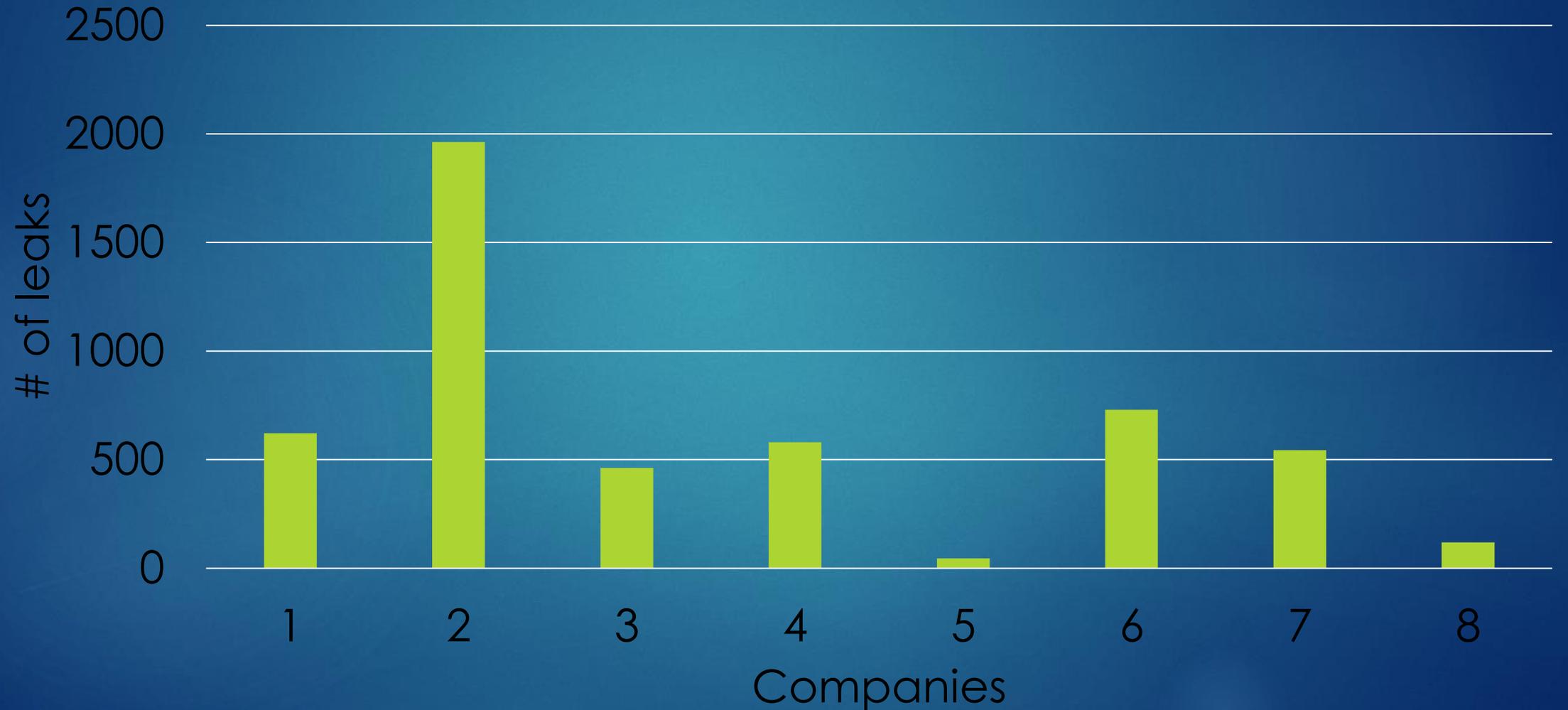


	Company A	Company B	Company C	Company D	Company E	Company F	Company G
utility at fault	3	39	21	74	205	115	100
project owner	22	89	140	164	109	332	461

■ utility at fault ■ project owner

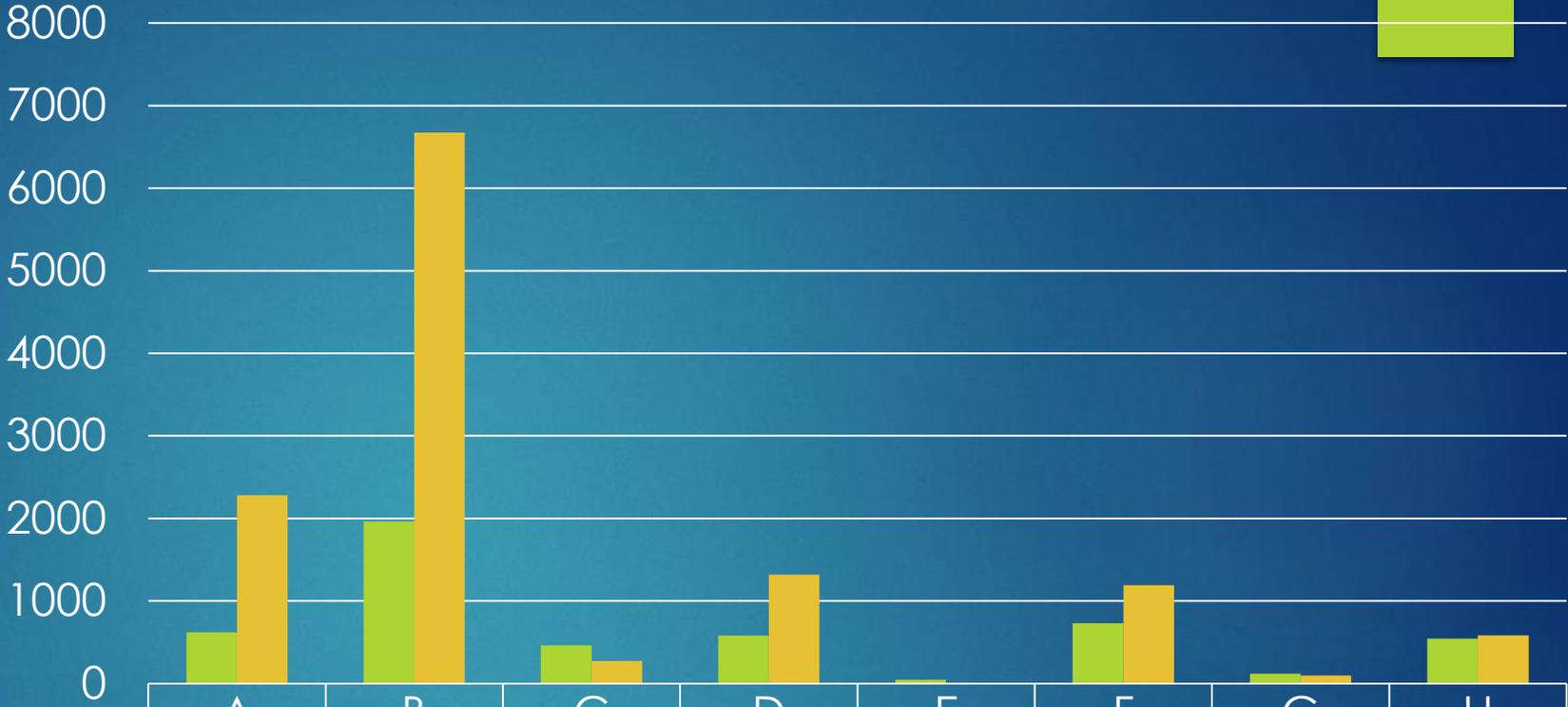
Hazardous Leaks

Immediate Fix Leaks-2017



Leak Data

Leaks



■ Number of Leaks Discovered that Require Immediate Fix
■ Number of Leaks Discovered that are Required to be Fixed within 12 Months not to Exceed 15 Months

A	B	C	D	E	F	G	H
622	1963	462	580	45	730	119	544
2280	6673	274	1319	0	1192	97	584

Miles of Coated Unprotected Mains Installed after 1970 (Distr.)

- Company I
- Company H
- Company G
- Company F
- Company E
- Company D
- Company C
- Company B
- Company A

0.0 10.0 20.0 30.0 40.0 50.0

