



PA Public Utility Commission  
2020 Pipeline Safety Seminar  
September 10<sup>TH</sup> 2020

Annual Data Report

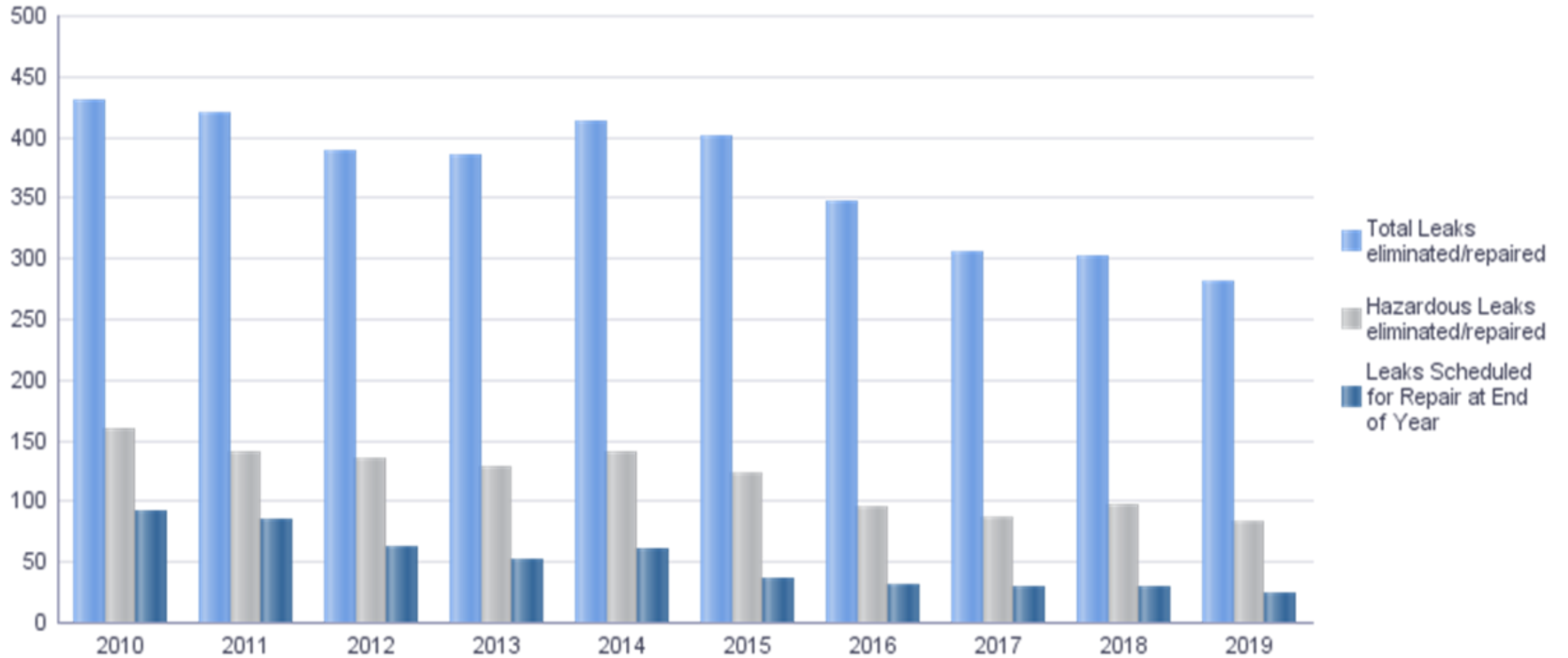
By Christopher Whiteash

# Pipeline Safety Discussion Topics

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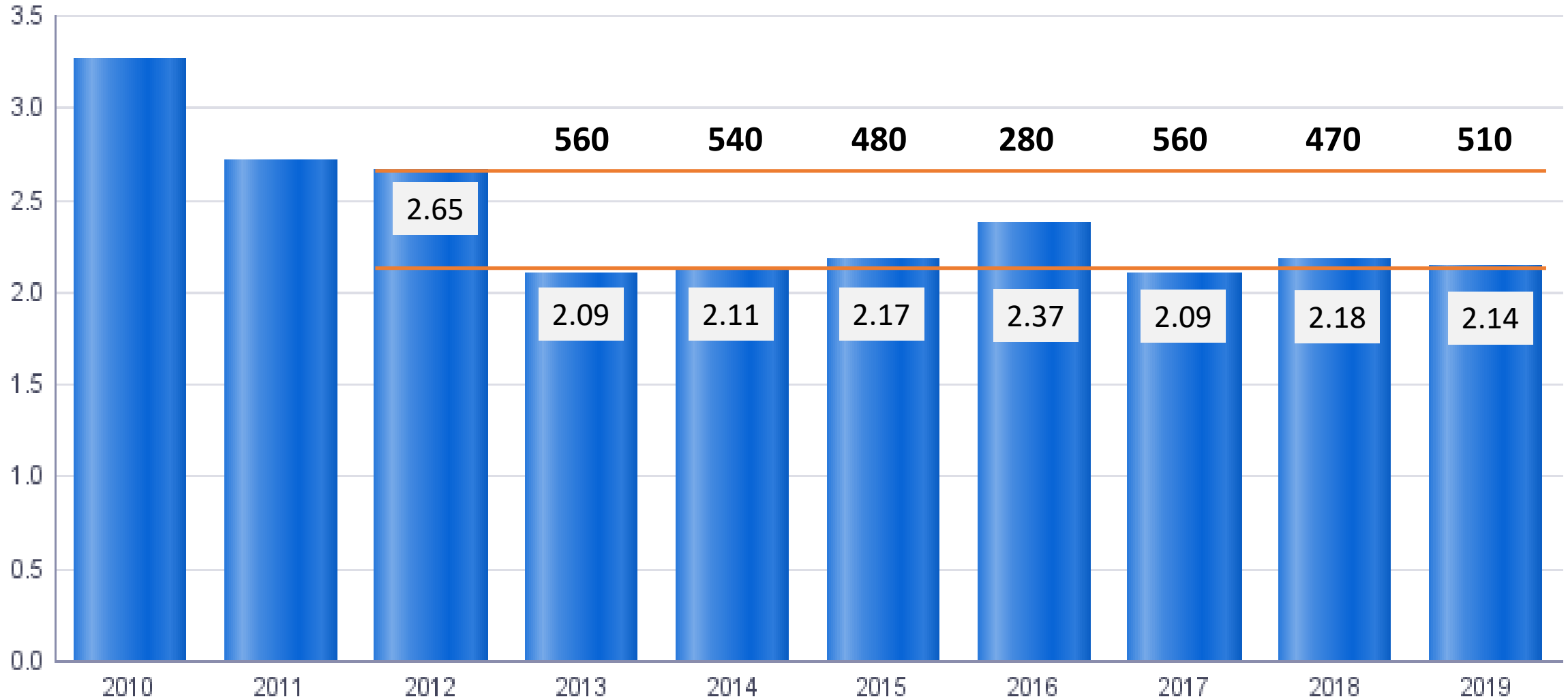
- ❖ Difference Between FL-1 Data & Annual Report Data
- ❖ Quick Look At Some Damage Prevention Data
- ❖ Hazardous Leaks Overview
- ❖ NTSB PE Recommendation – Review Of Operator Comments
- ❖ Update On The Rate Of Pipe Replacement
- ❖ Summary Of Plastic/Steel Failures
- ❖ Conclusion/Summary

# PHMSA Overall Leak Summary For All PA Gas Distribution Operators



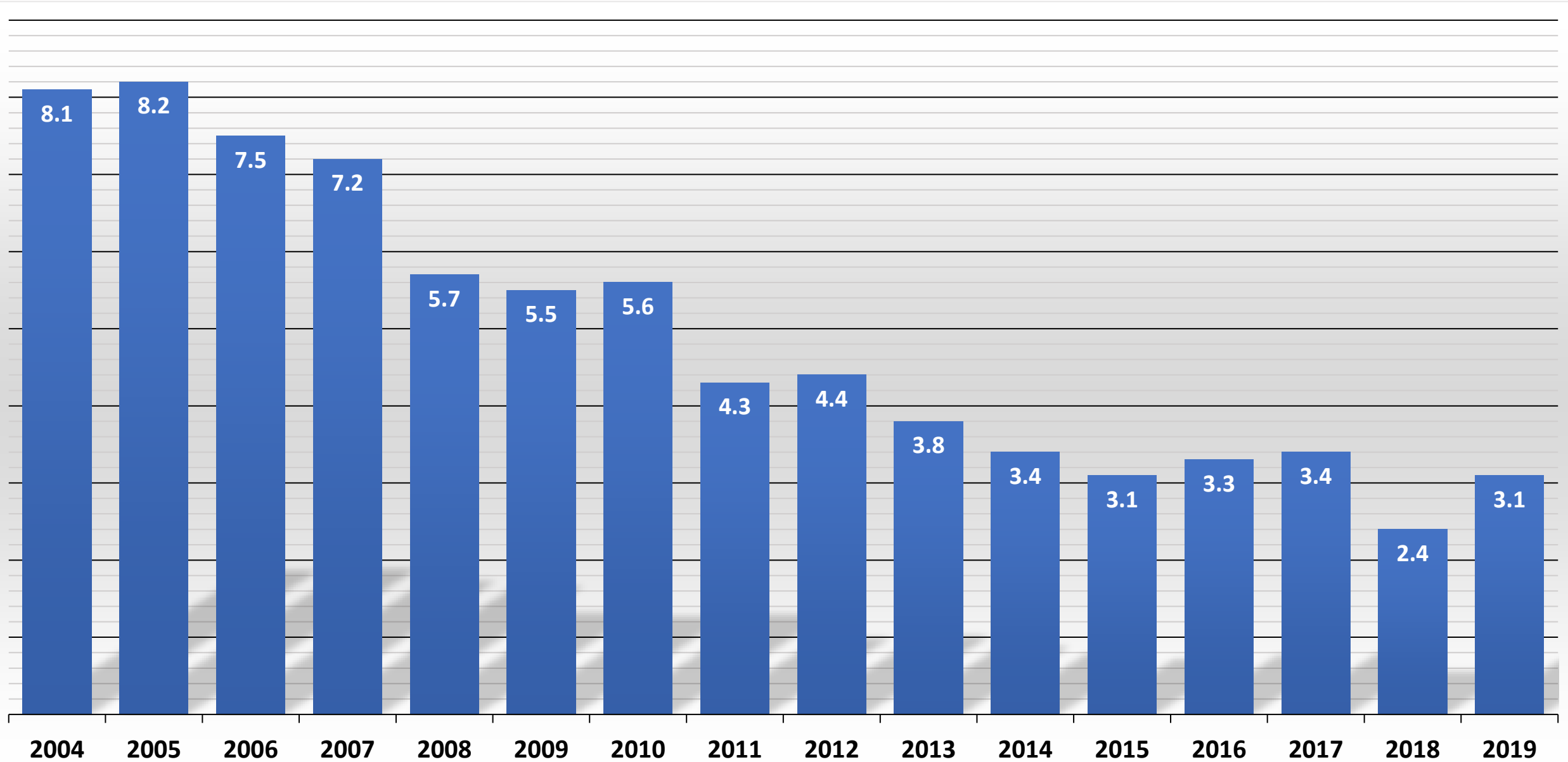
<https://primis.phmsa.dot.gov/comm/StatePages/Pennsylvania.htm>

# Total Lines Hits Per 1,000 Tickets Received Per PHMSA All PA Gas Distribution Operators

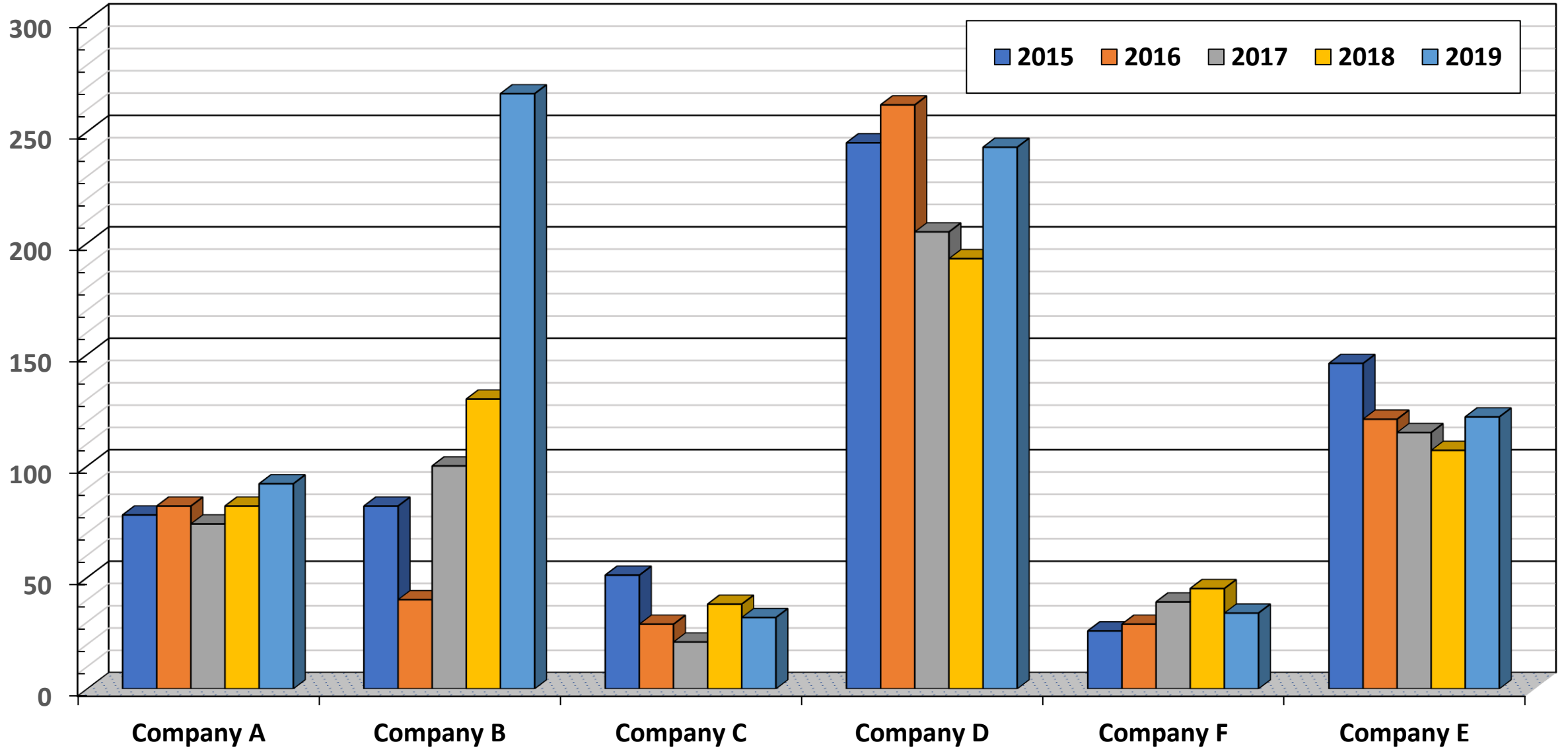


**APPROXIMATELY 3,400 LINE HITS ELIMINATED SINCE 2012 BY PA GAS DISTRIBUTION OPERATORS!!!**

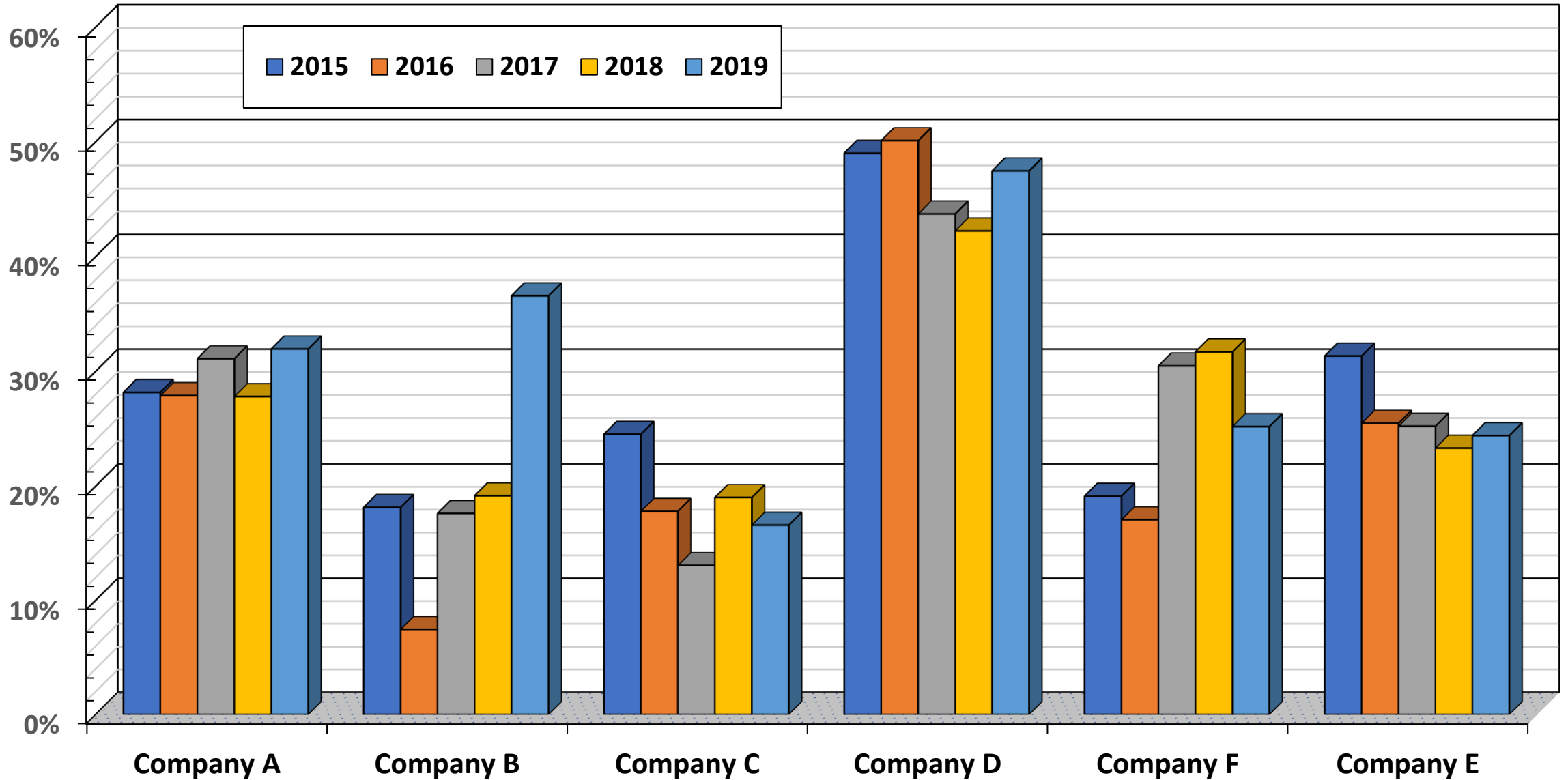
# Total Line Hits Per 1,000 Tickets Marked



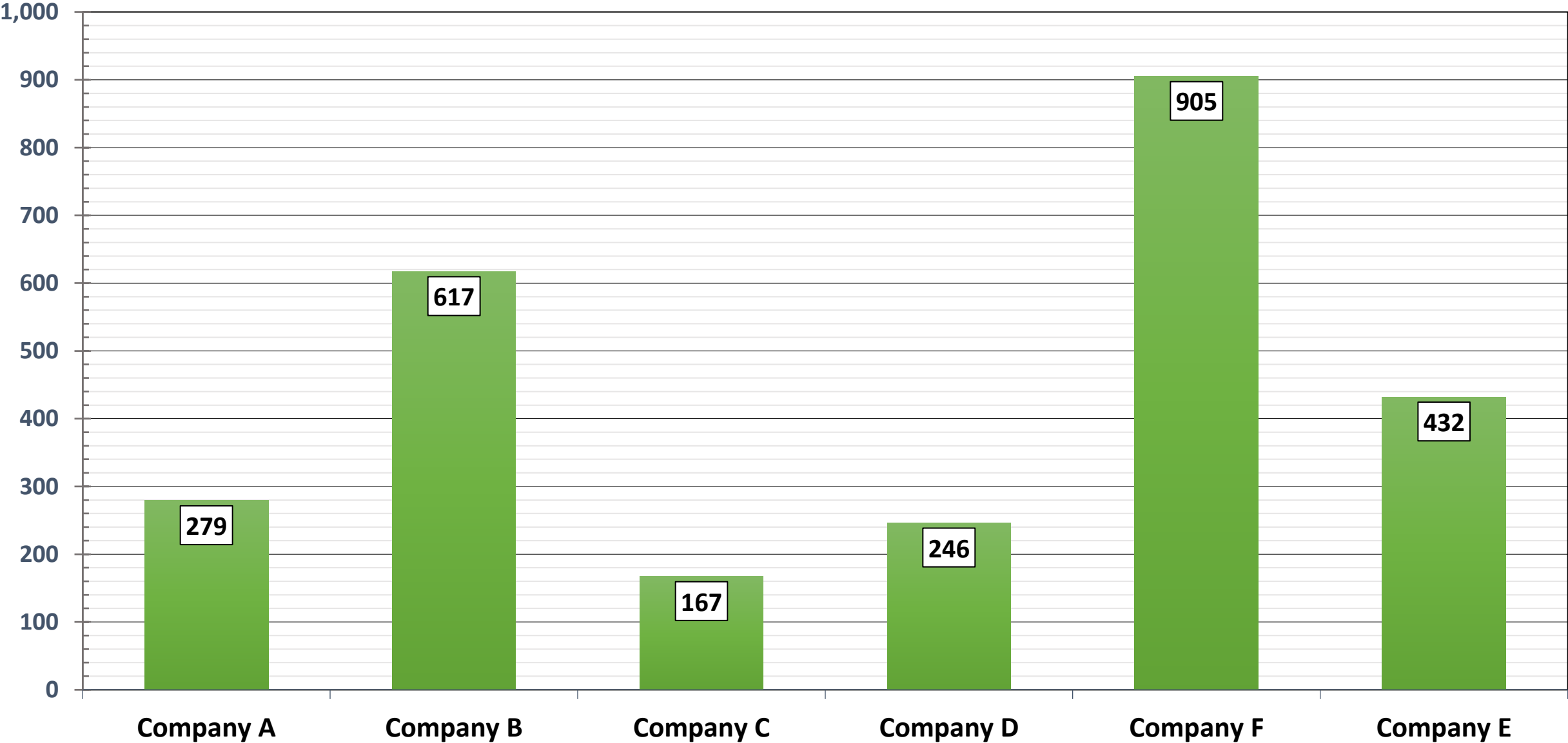
# Utility First Party Line Hits (2015-2019)



# % Of Total Line Hits By Utility – 1<sup>st</sup> Party Hit

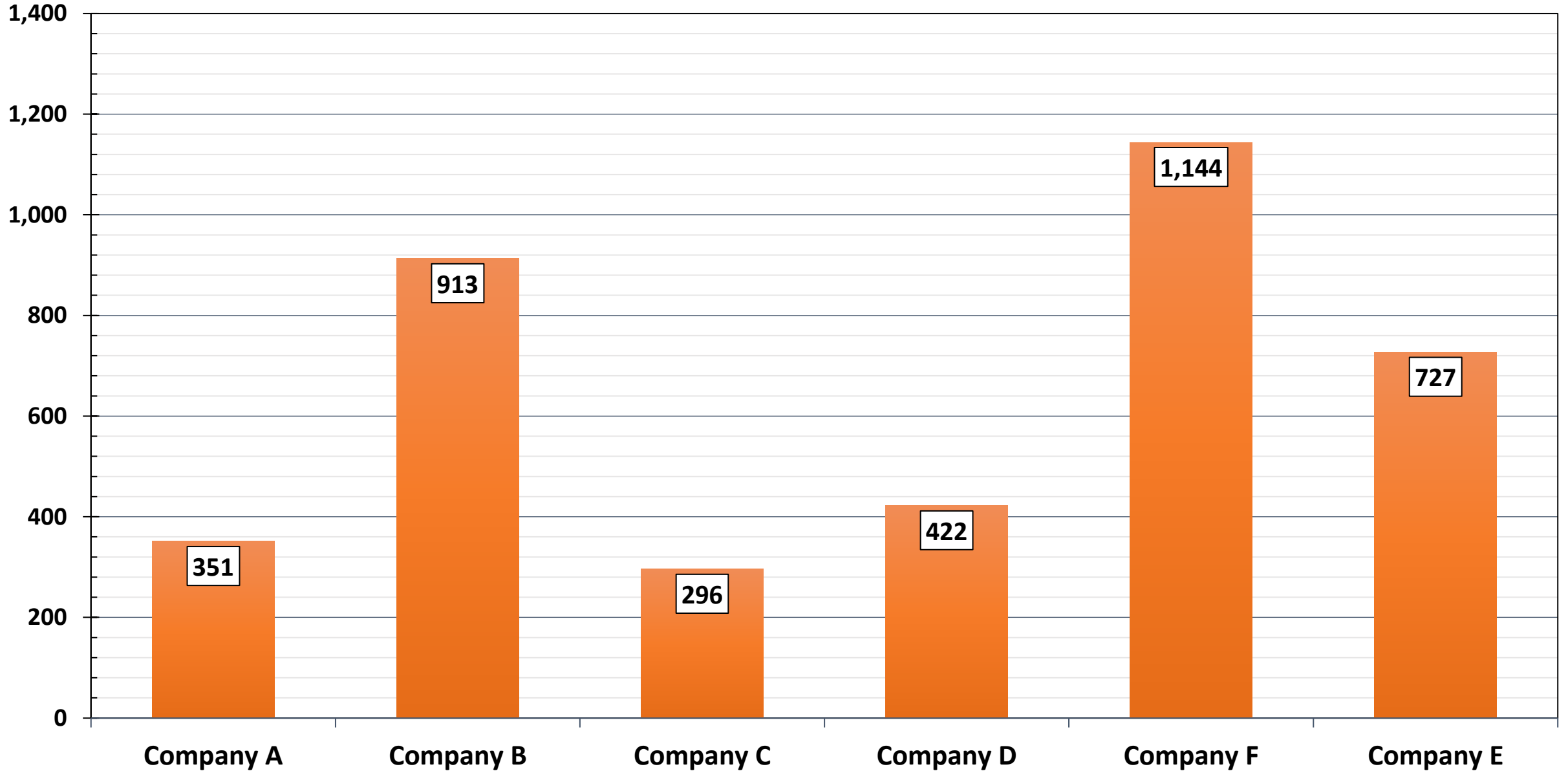


# Hazardous Leaks Repaired On Mains In 2019

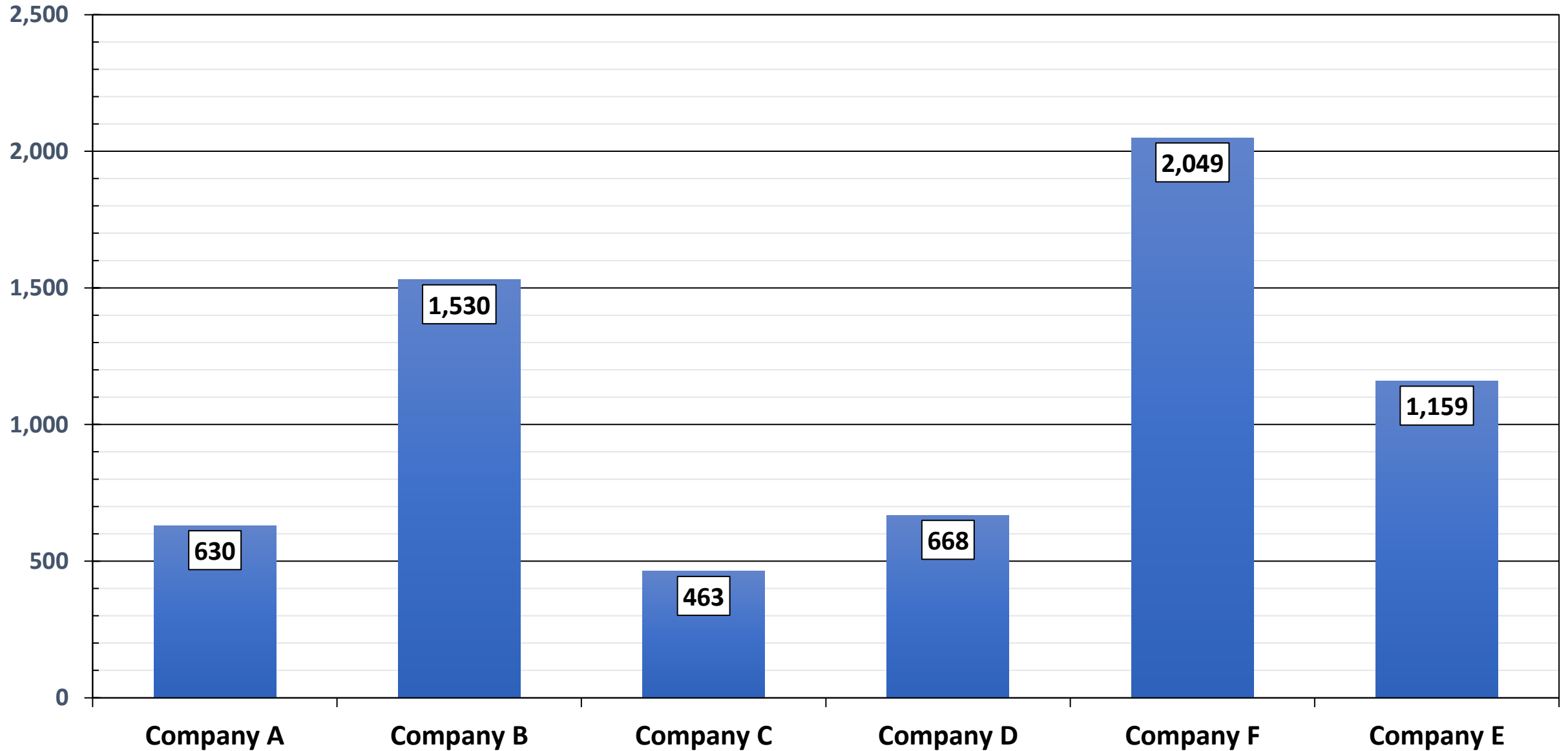




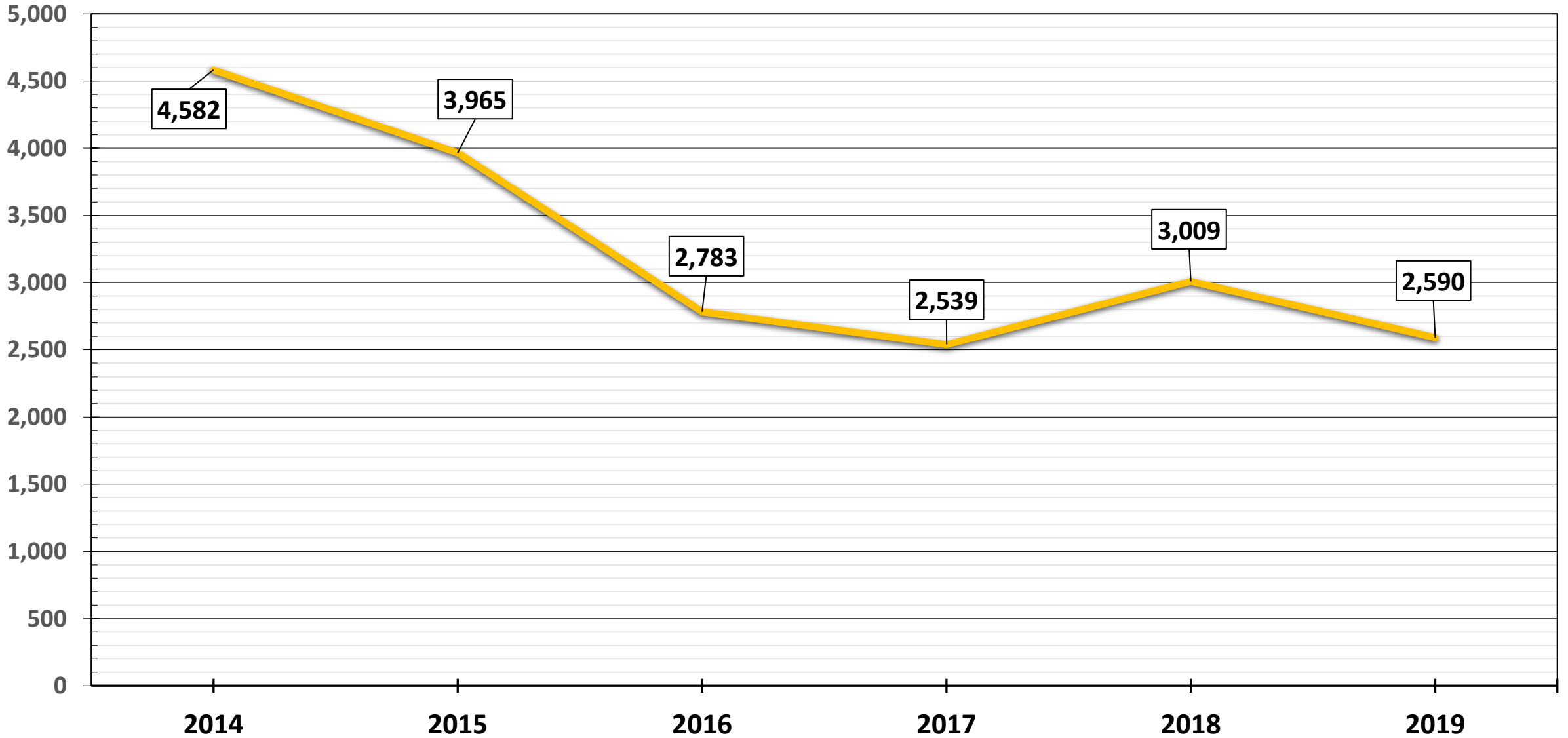
# Hazardous Leaks Repaired On Services In 2019



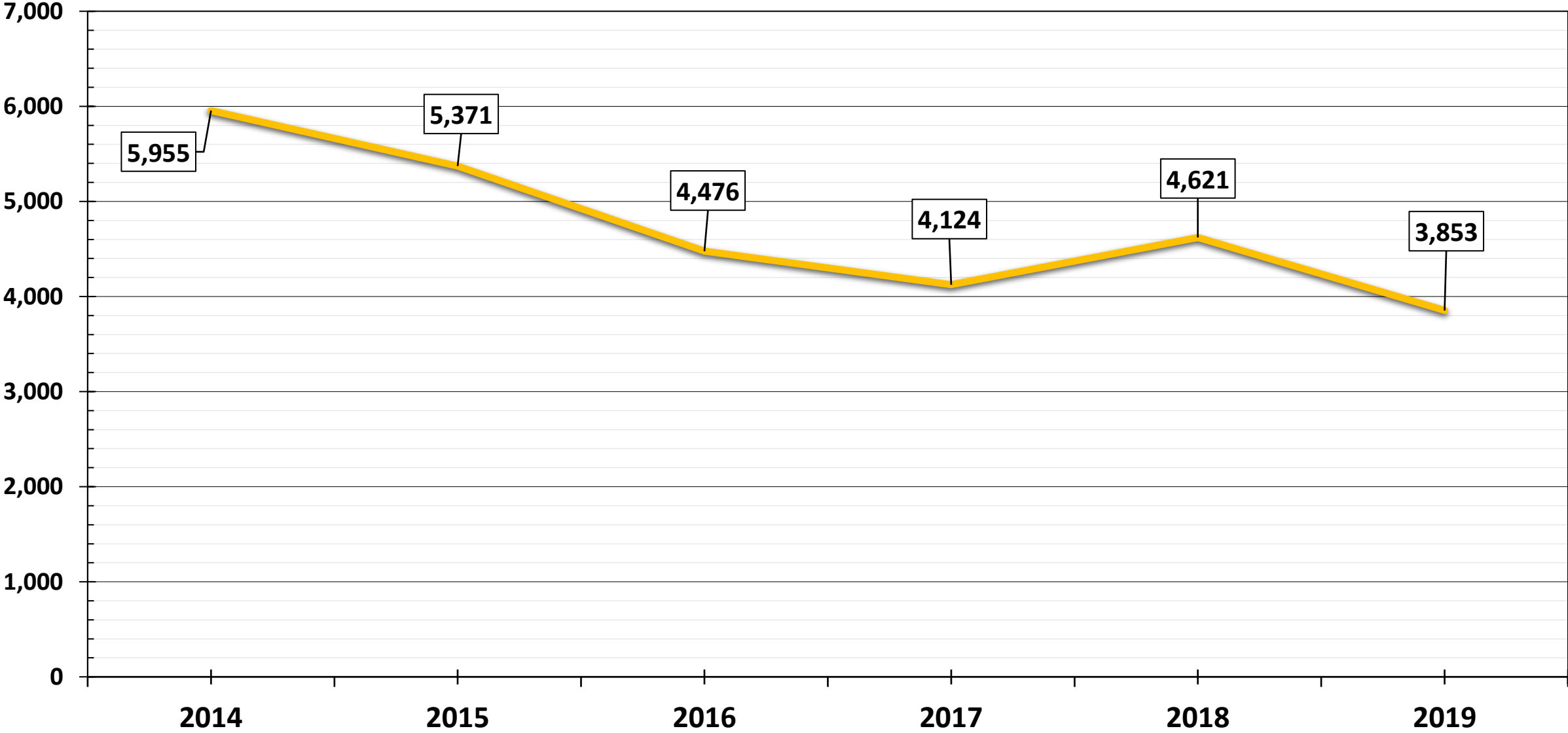
# Total Hazardous Leaks Repaired In 2019



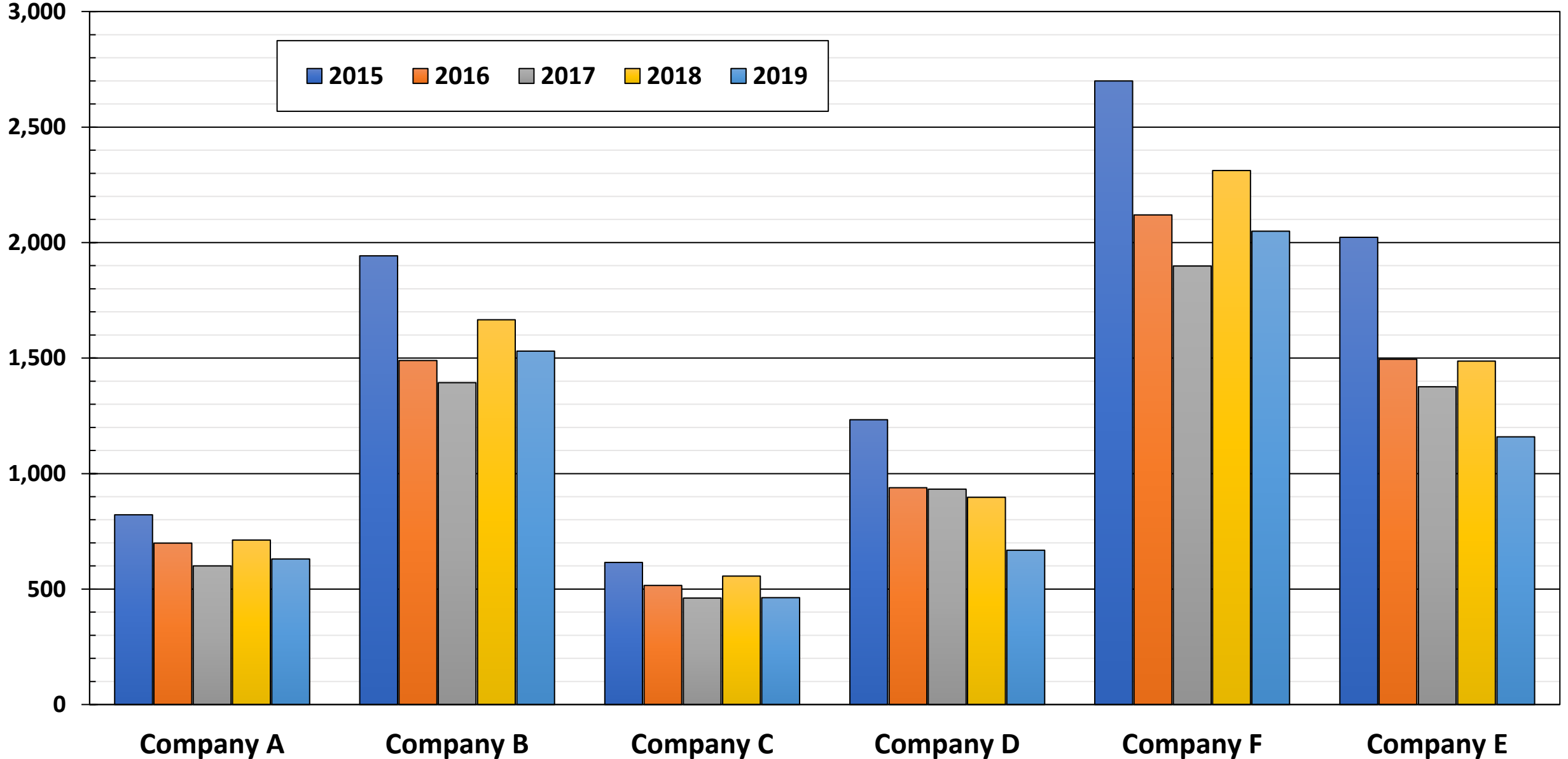
# Total Hazardous Leaks Repaired On Mains Per Year



# Total Hazardous Leaks Repaired On Services Per Year



# Total Hazardous Leaks Repaired (2015-2019)



# Summary of FL-1 Question Nos. 29 & 30

## Large Operator Comments

### Question 29 (Potential Impact)

- Will Hinder Capital Improvements
- PE Pipeline Expertise Is Limited
- NTSB Request Is Broadly Based
- Promotes Delays/Costs/Insurance

### Question 30 (Action Taken)

- Emergency Work – No PE Clause
- Non-Critical Work – No PE Clause
- PE For All Other Work W/O Stamp
- Probing MOC/OQ & Other Processes For Improvements

## Small Operator Comments

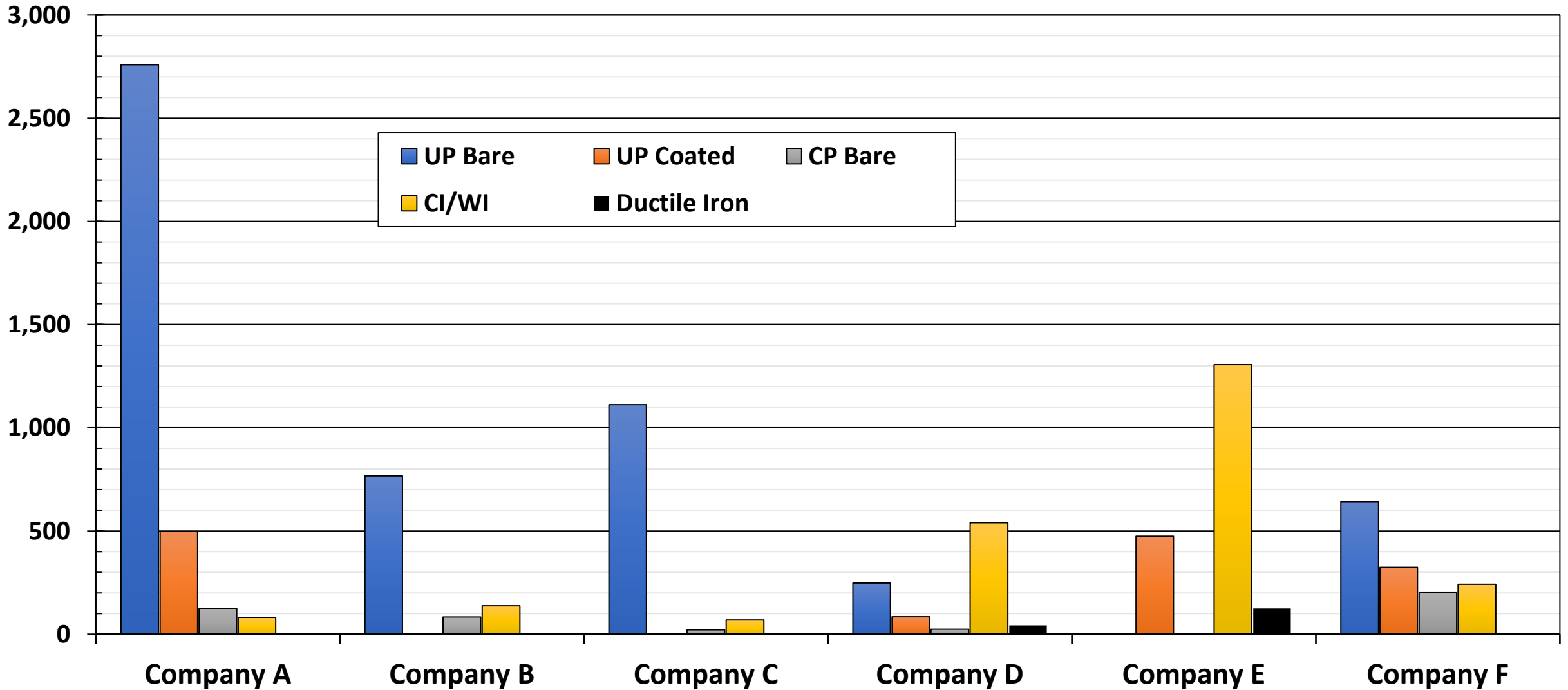
### Question 29 (Potential Impact)

- Small Customer Base
- Large Financial Impacts
- PE Shortage With Gas Experience
- Unneeded NTSB Recommendation

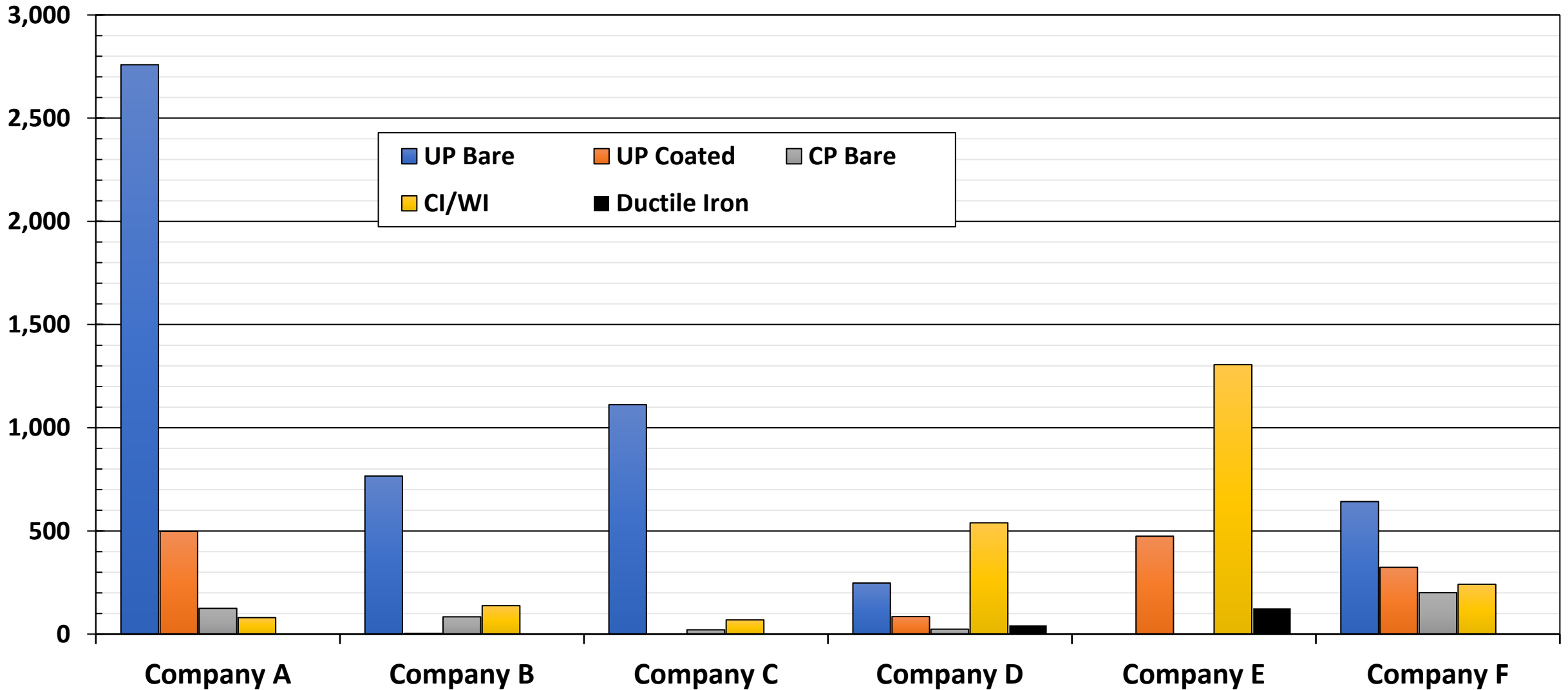
### Question 30 (Action Taken)

- None – Otherwise Out Of Business
- Educate Staff On Lessons Learned
- Minimal Infrastructure/Unjustified
- Probing MOC/OQ & Other Processes For Improvements

# Miles of Pipe Material Remaining End of 2019

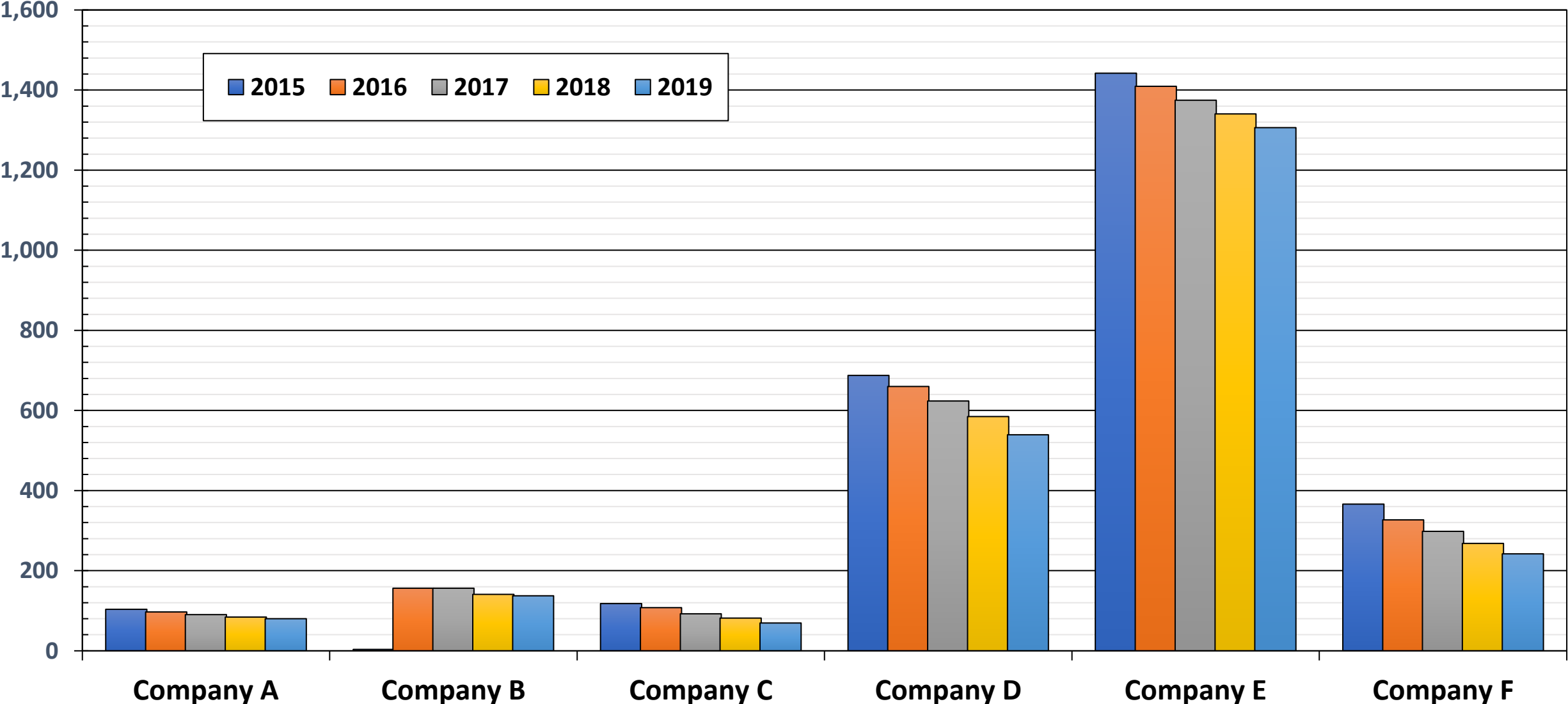


# Miles of Pipe Material Remaining End of 2019

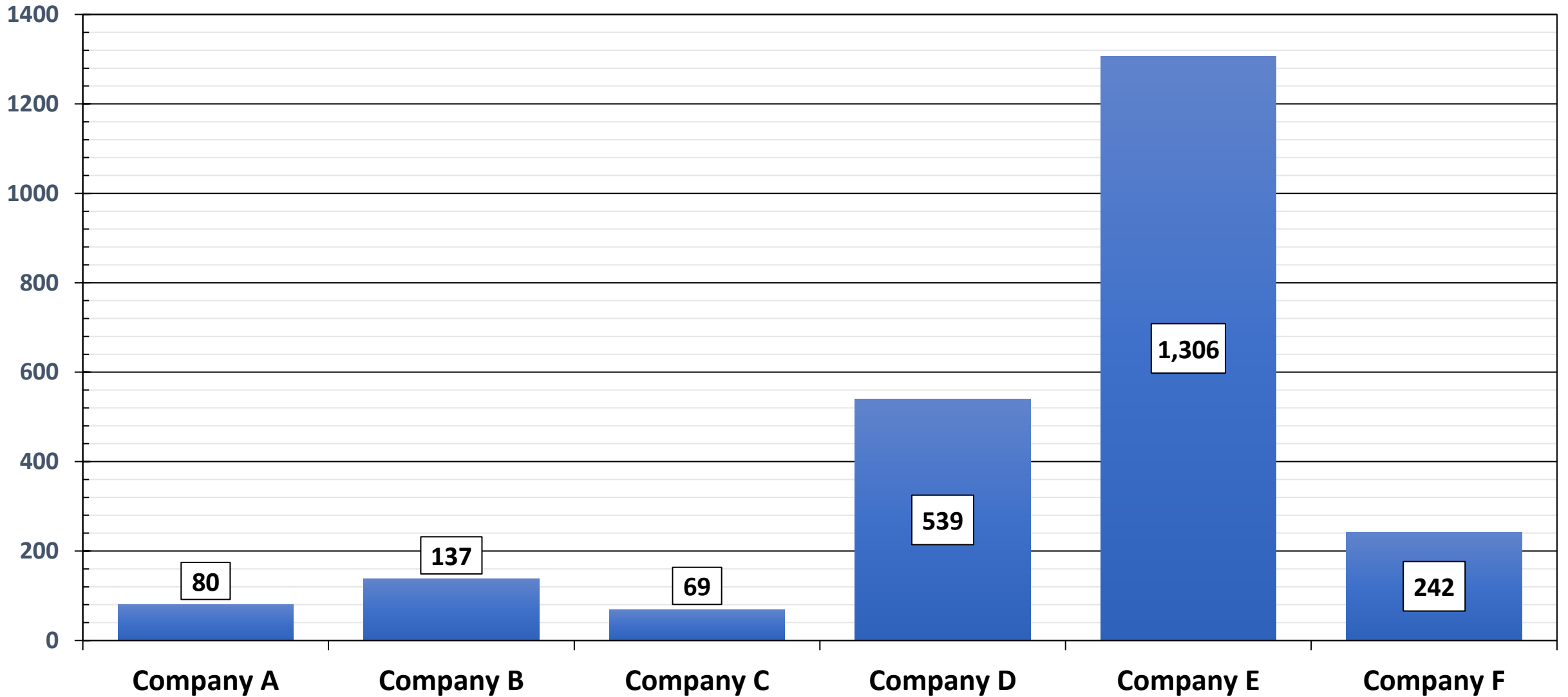




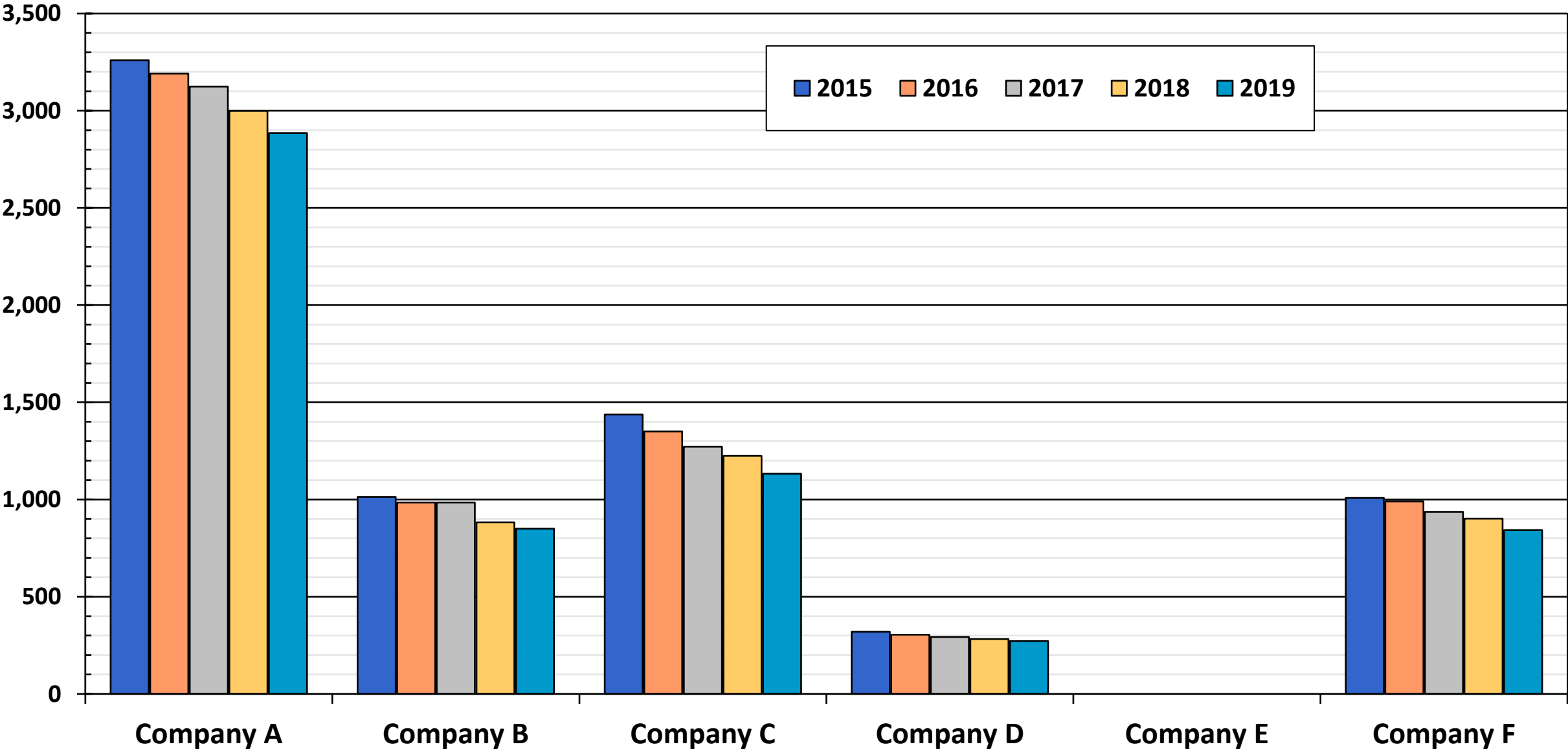
# Miles of Cast Iron/Wrought Iron Remaining (2015-2019)



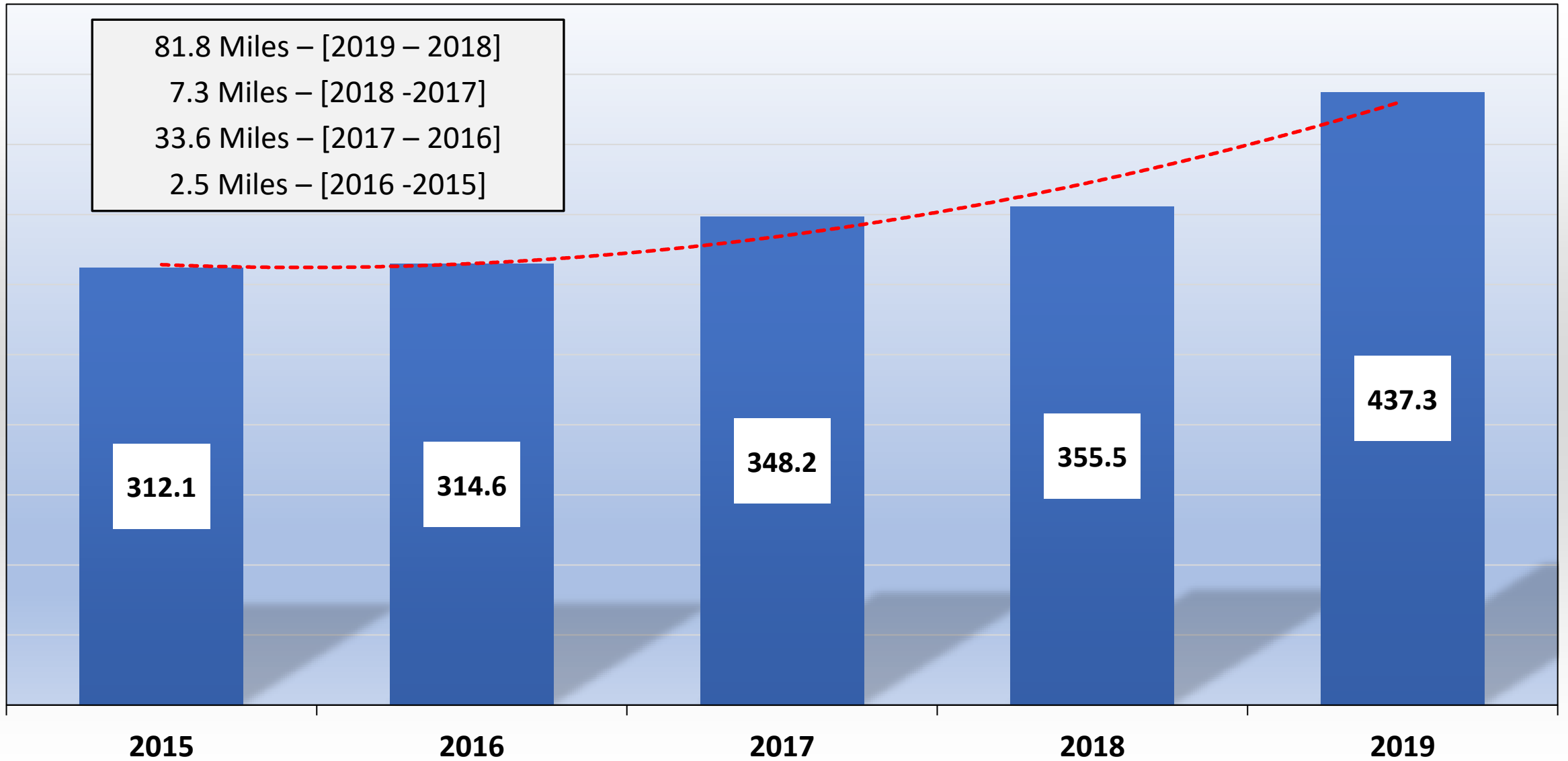
# Miles of Cast/Wrought Iron Remaining End of 2019



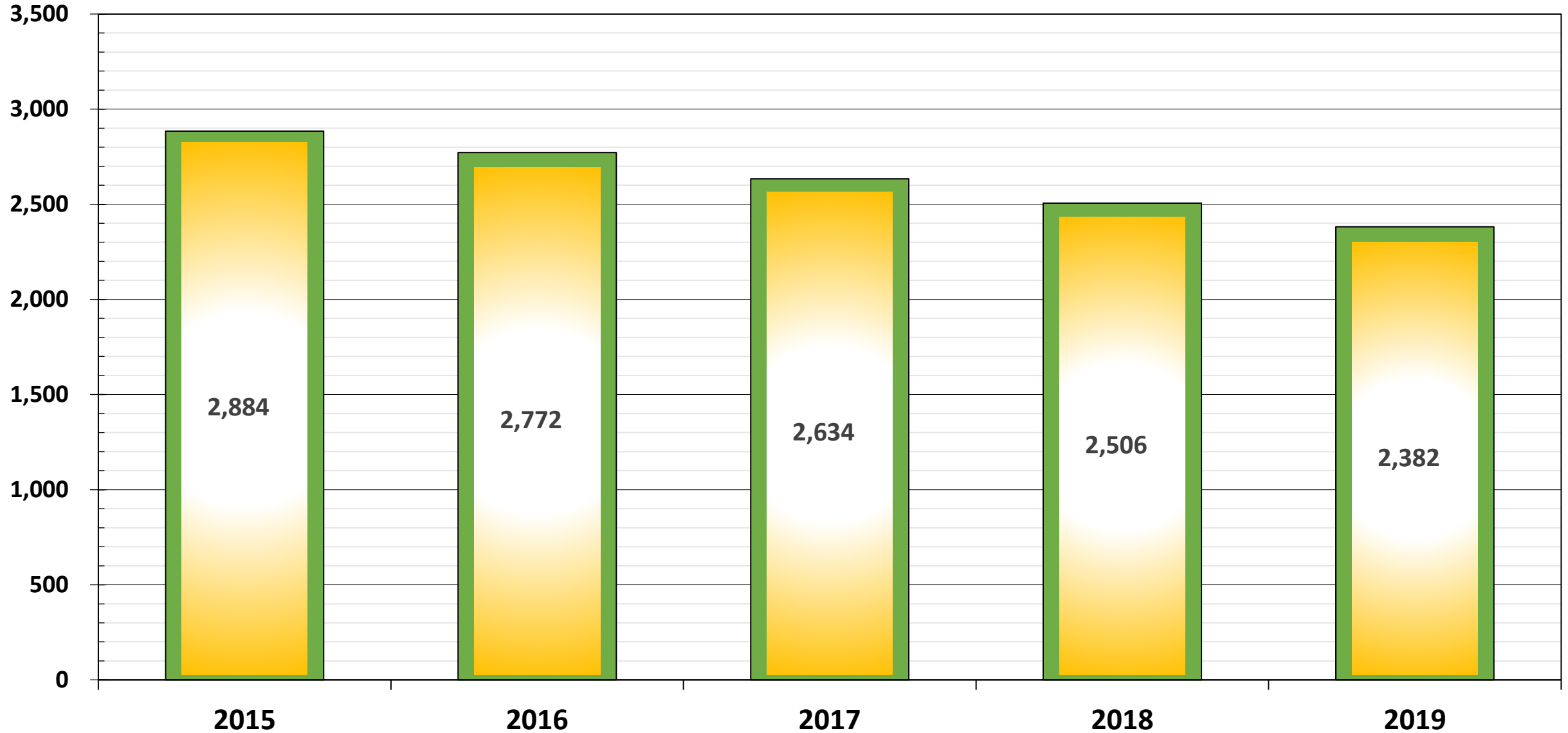
# Miles Of Bare Steel Remaining (2015-2019)



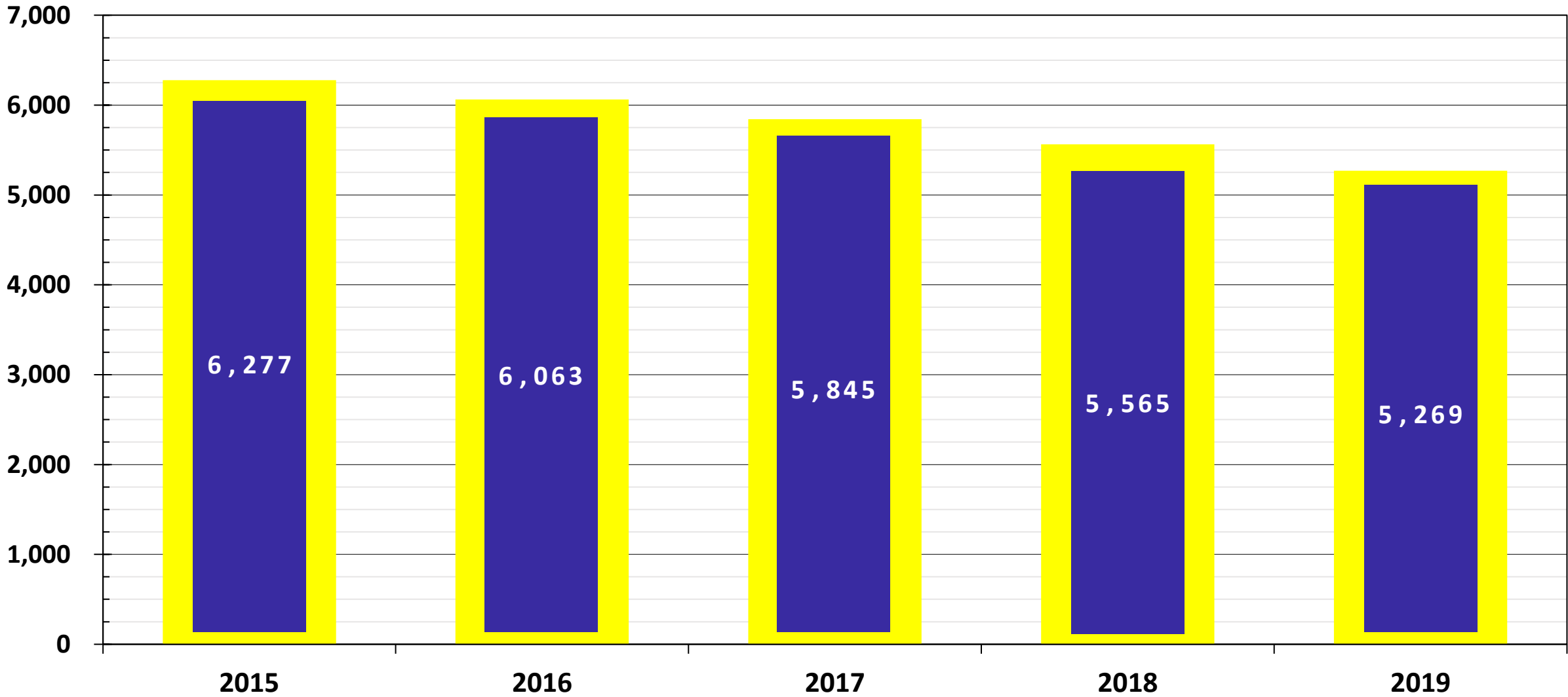
# Total Miles Of Main Replaced Per Year



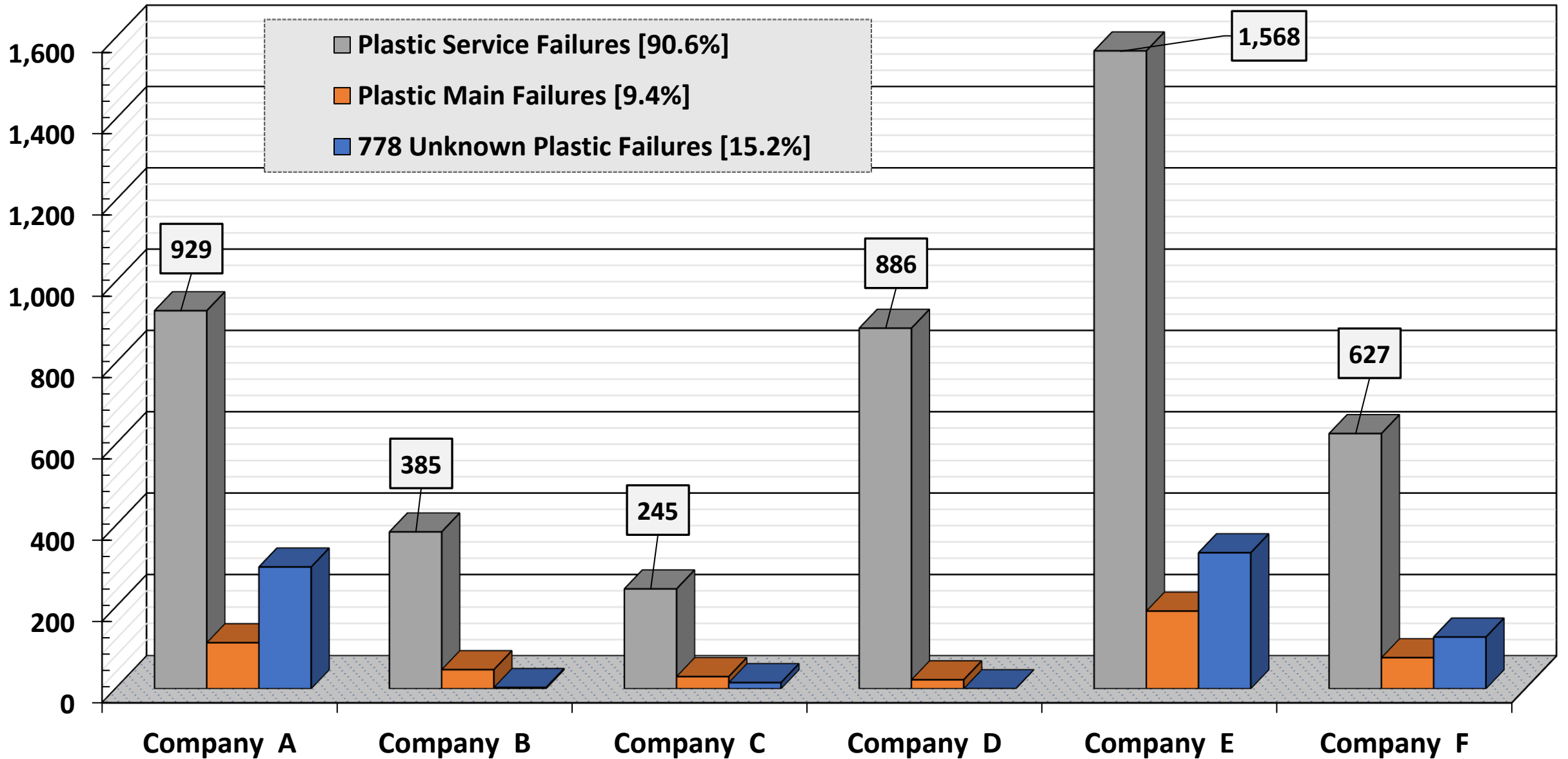
# Total Miles Of Remaining Cast Iron & Wrought Iron 2015 - 2019



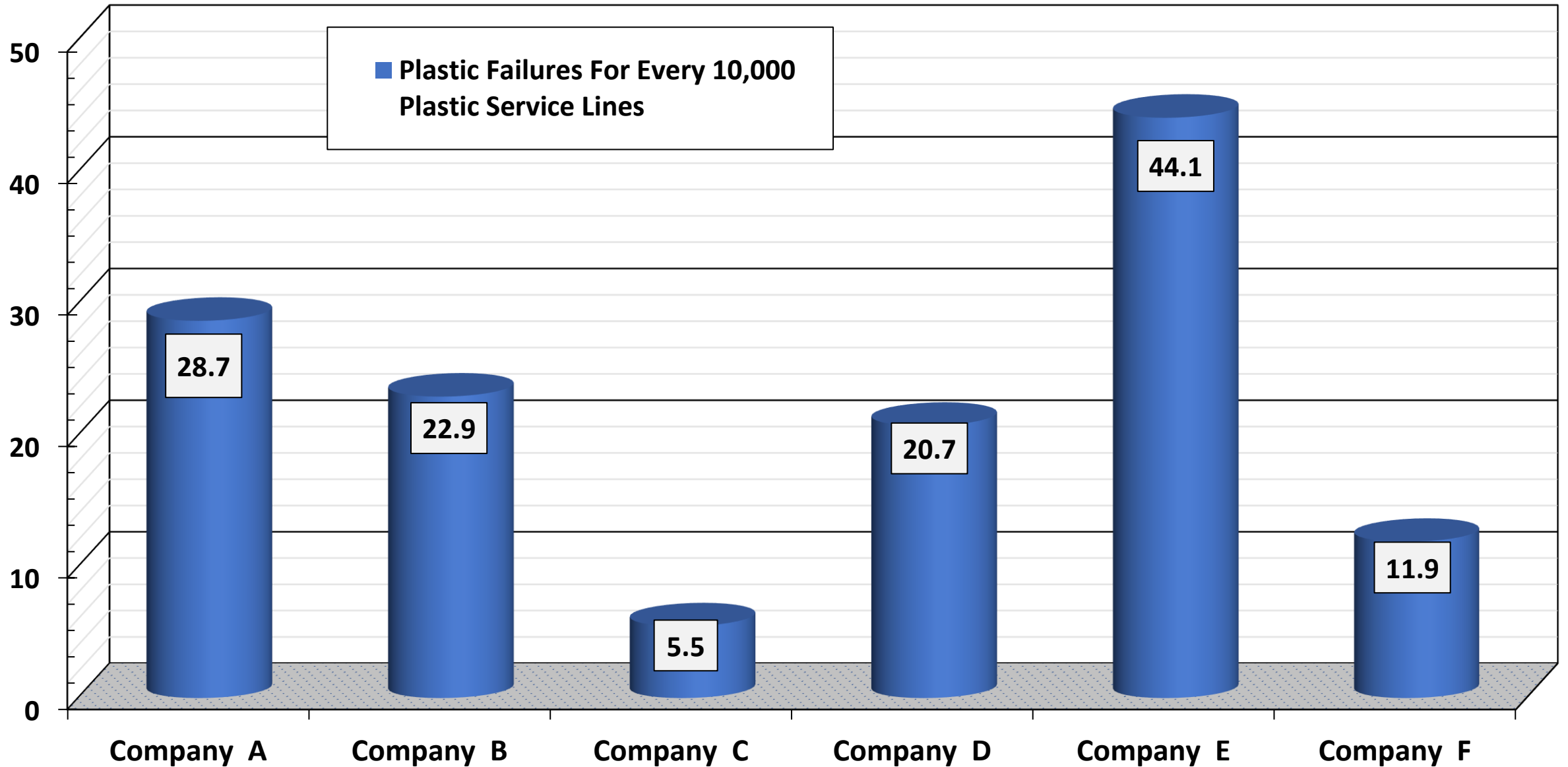
# Total Miles Of Remaining Bare Steel 2015 - 2019



# Plastic Failures At Services & Mains (2018-2019)



# Number Of Plastic Service Failures For Every 10,000 Plastic Service Lines (2018-2019)

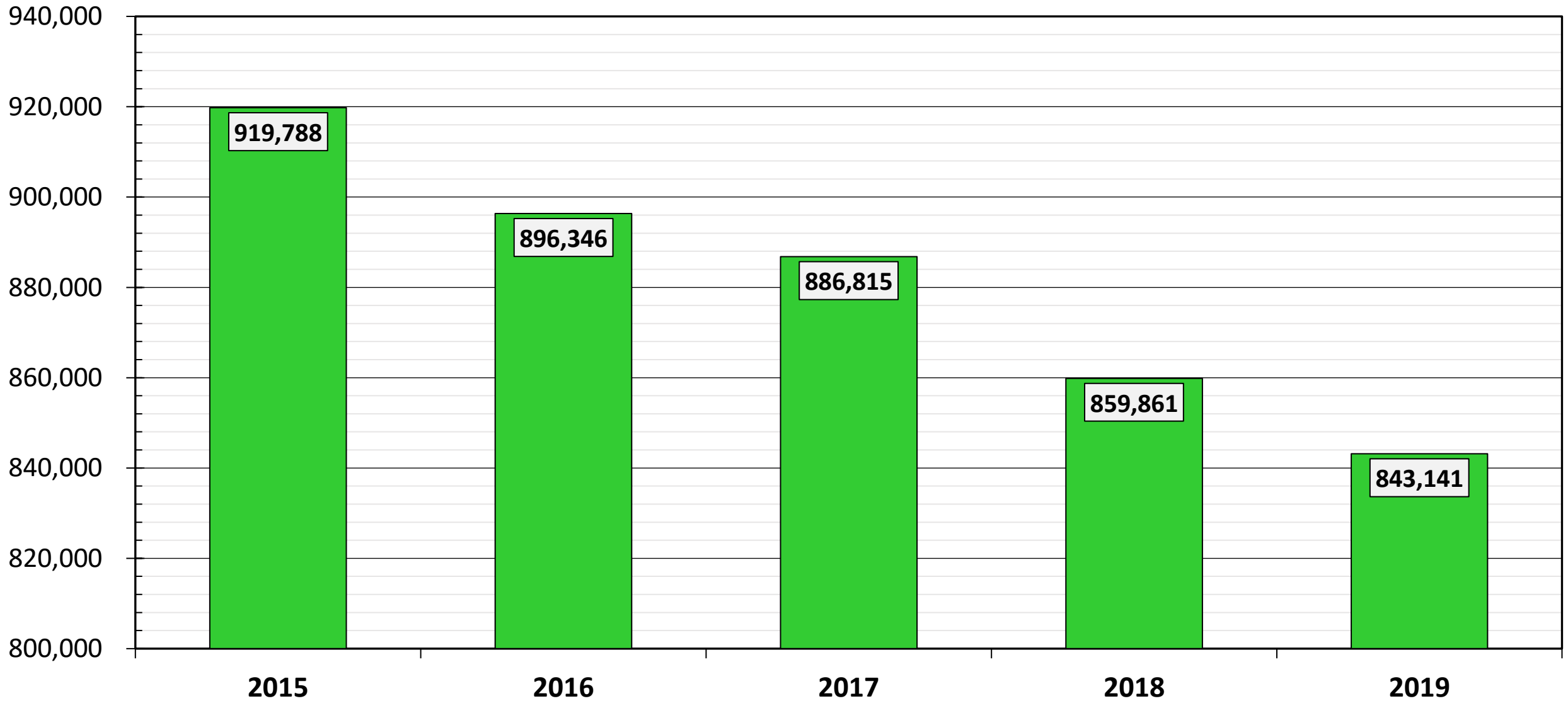




# Largest 10 Plastic/Steel Failures By Manufacturer On Mains & Services [2018-2019]

<b>Manufacturer</b>	<b>Mains</b>	<b>Manufacturer</b>	<b>Services</b>
Aldyl A	146	Kerotest Valve	2,311
GF Central Plastics	94	UNKNOWN	696
UNKNOWN	75	Aldyla A	138
Plexo	74	Plexo	127
Dresser	13	Perfection	92
EXTRON	12	Dresser	78
Friatec	8	GF Central Plastics	71
AMP	6	Handley	62
Drisco	5	Normac	54
Performance Pipe	5	Continental	33

# Inside Meter Sets 2015 - 2019



# SUMMARY

- Addressed Specific FL-1/Annual Report Variations
- Summarized Core FL-1 Data To Include:
  - Damage Prevention
  - Hazardous Leaks
  - Pipe Replacement
  - Plastic/Steel Failures
  - Inside Meter Sets
- Reviewed PE Recommendations & How Pipes ACT 2020 May Be Effected
- Explored Distinct Avenues To Describe How The Data & Information Presented Today May Effect Pipeline Safety

