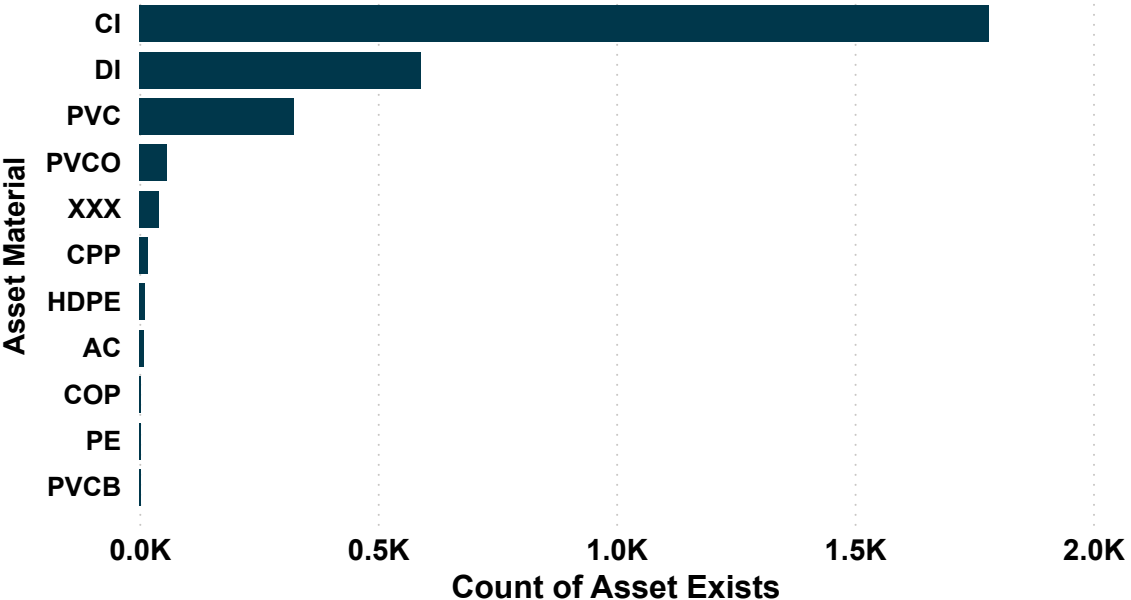
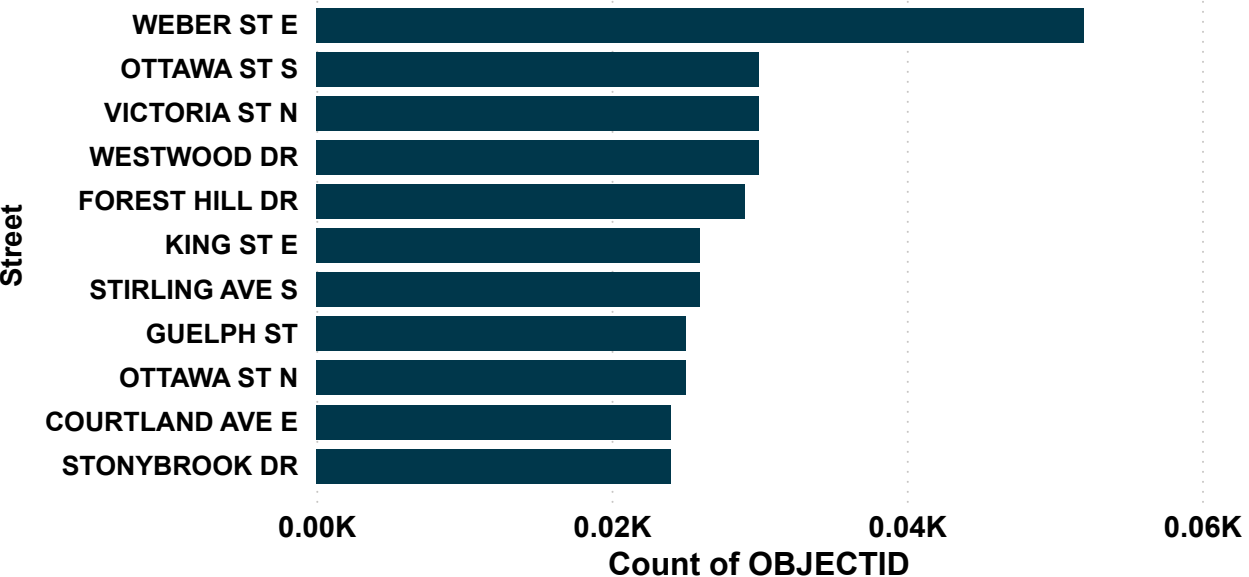


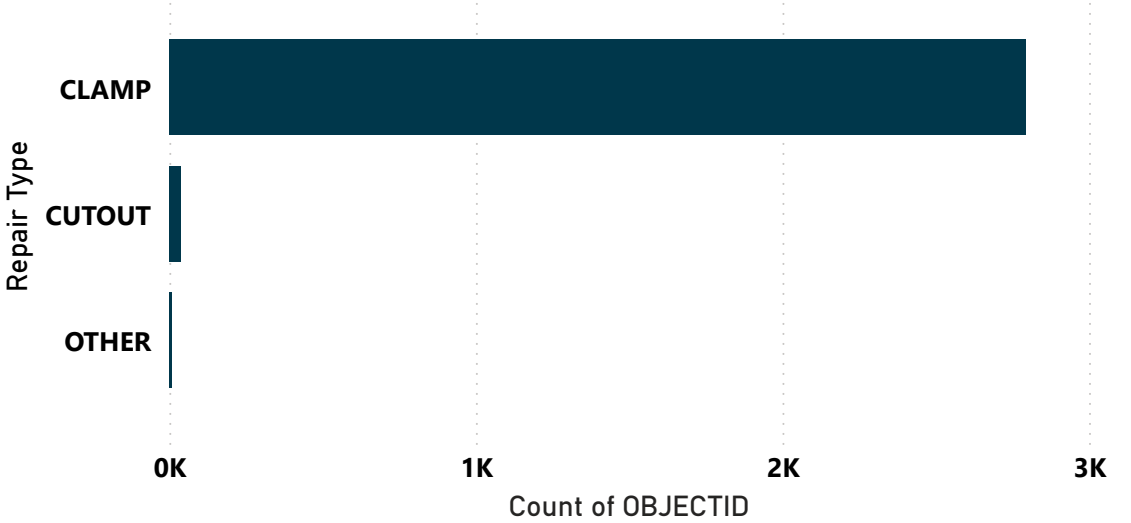
Distribution of Pipe Materials in Assets



Top 10 streets with most breaks



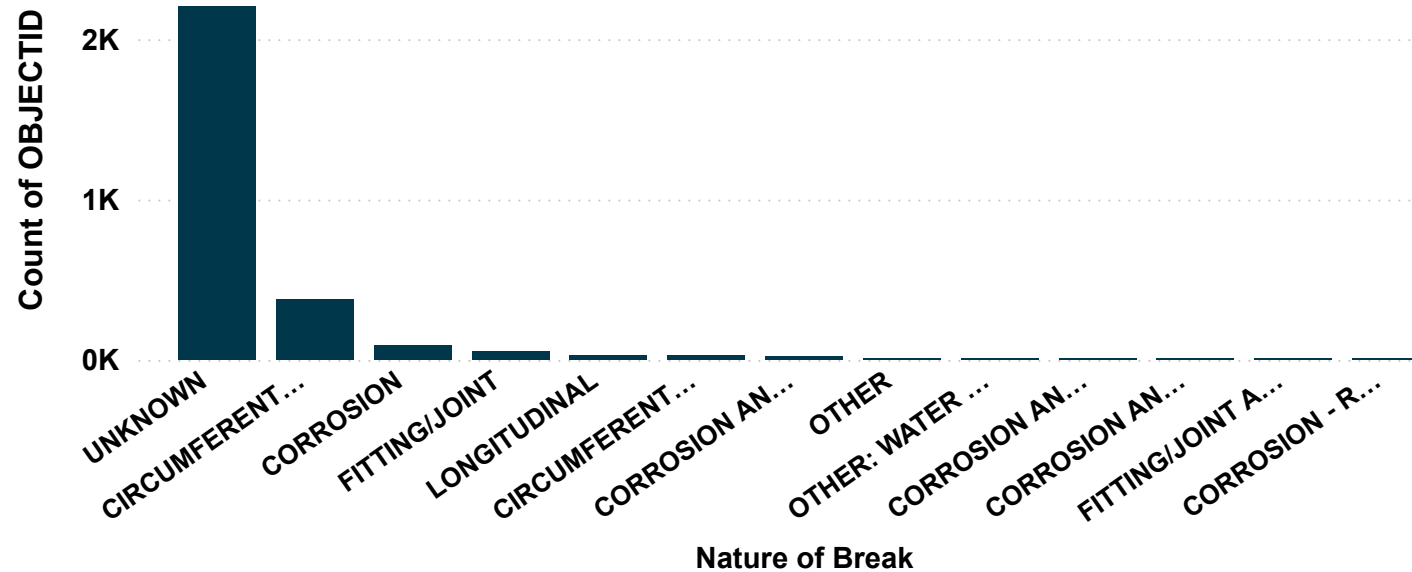
Repair Methods Used for Breaks



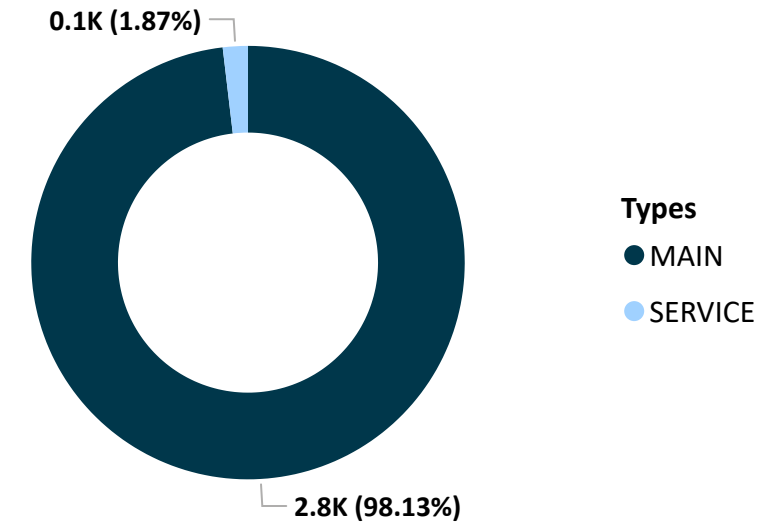
Key Findings

- The use of older materials like Cast Iron may correlate with higher break rates.
- WEBER ST E reports the highest break count, followed by STIRLING AVE S, QUEENS BLVD, and others.
- Most breaks are resolved with basic repair methods, suggesting breaks are detected early or localized.

Nature and Type of Pipe Breaks

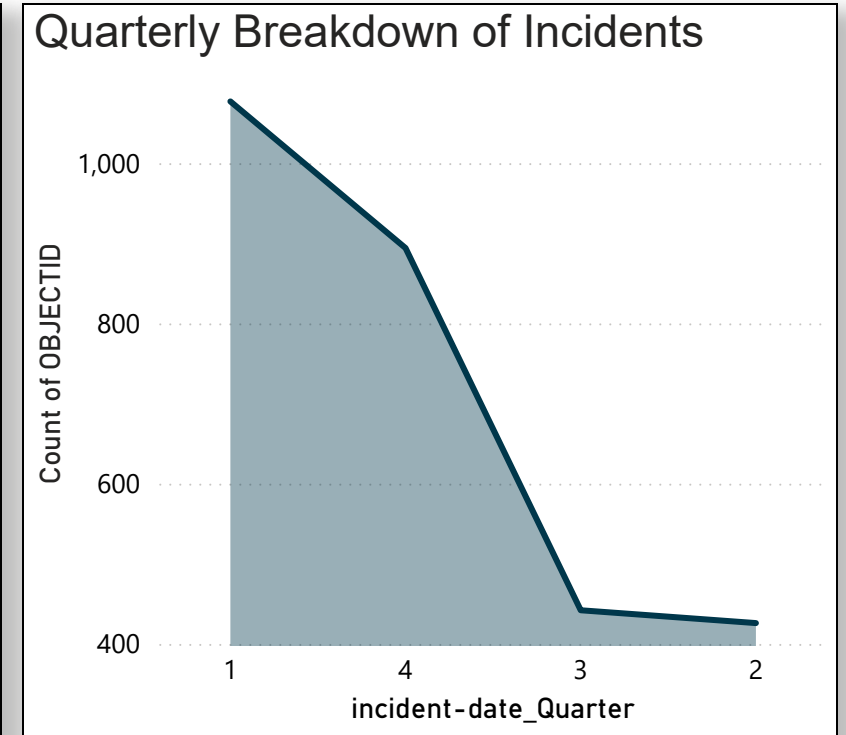
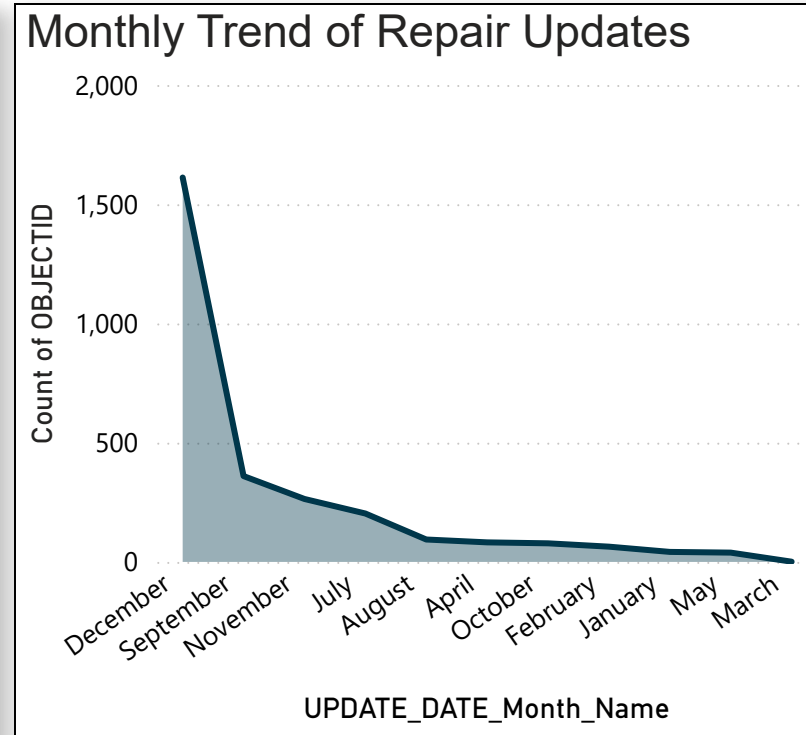
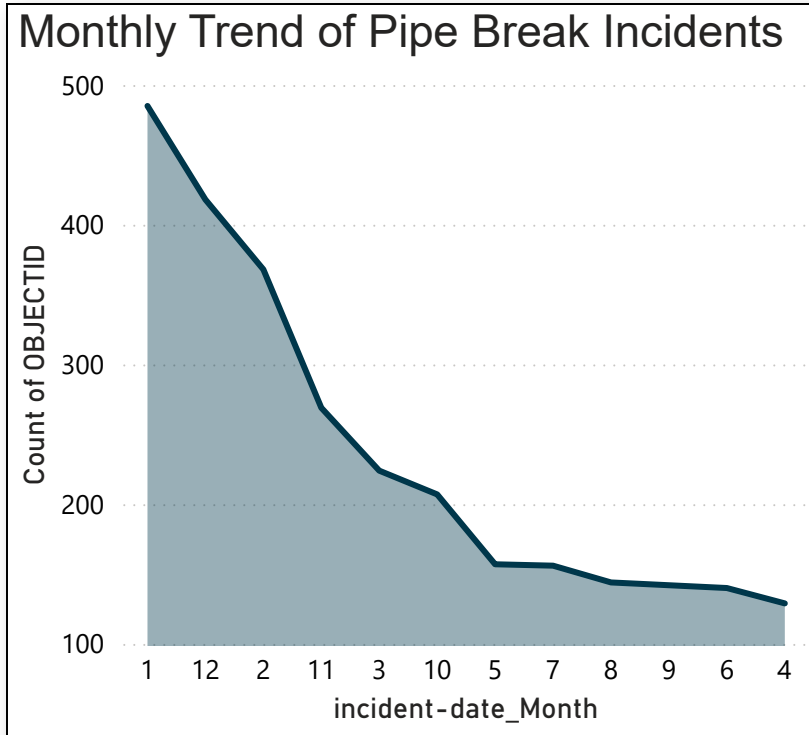


Break Distribution by Pipe Type



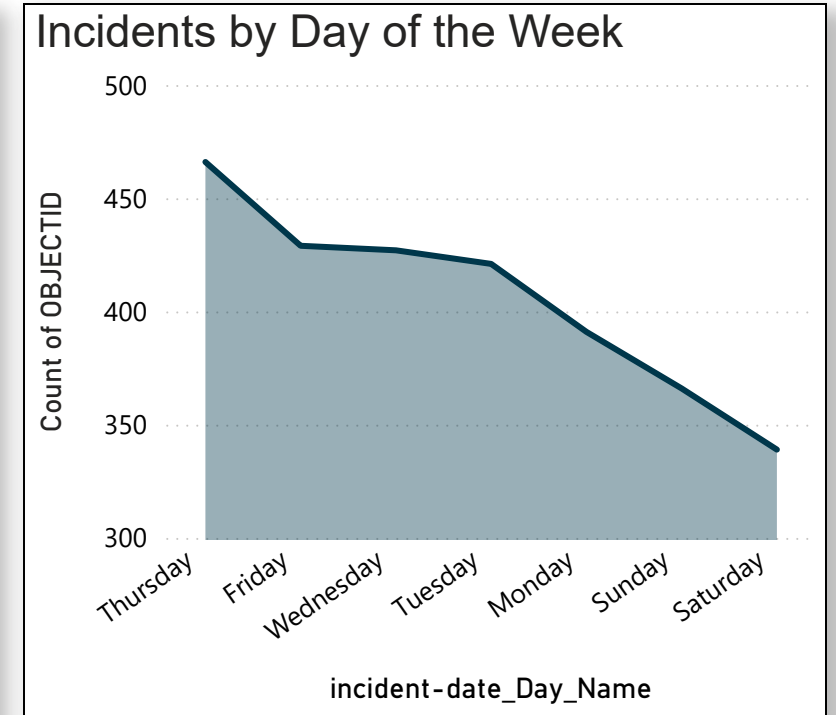
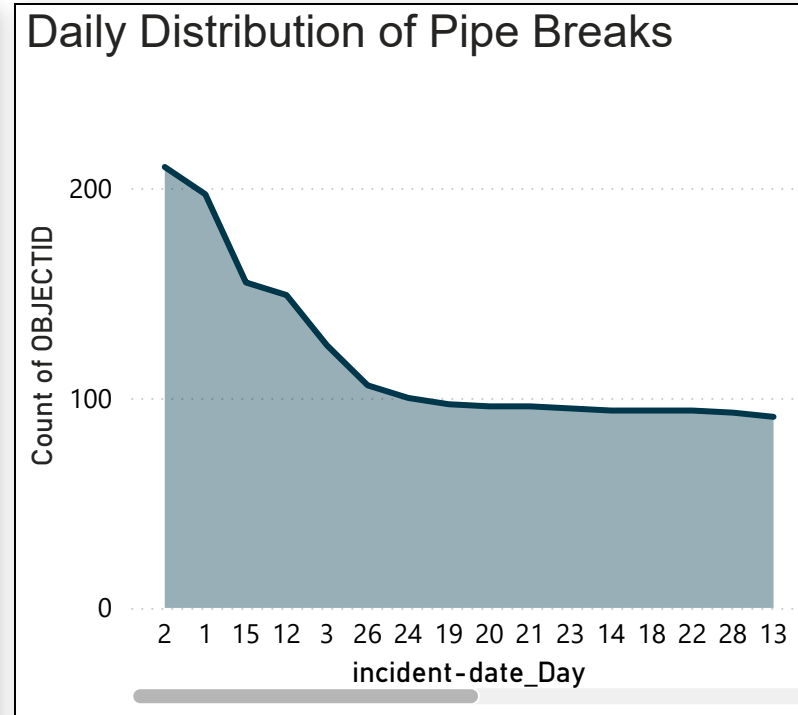
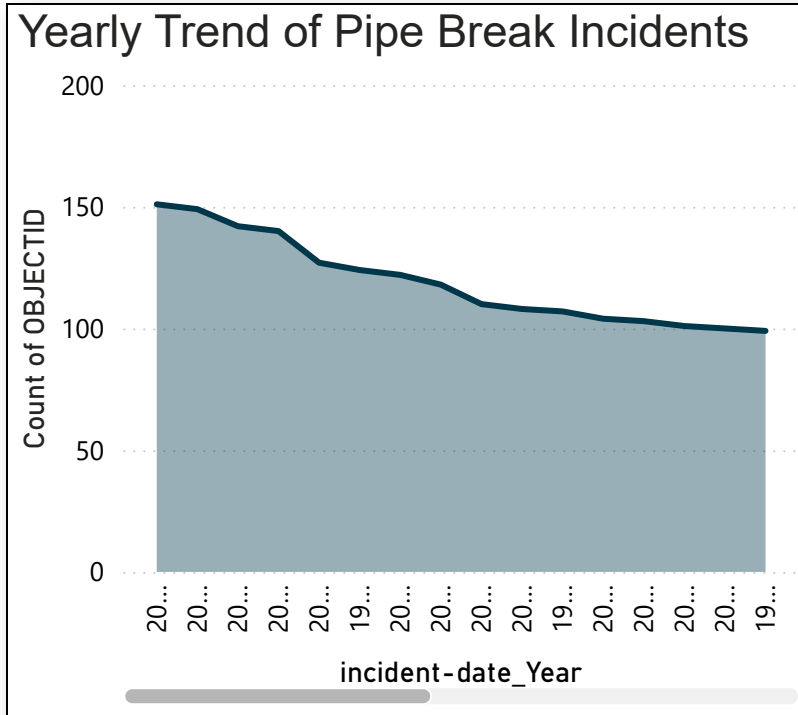
Key findings

- A significant proportion of breaks are caused by corrosion and structural failure. The high number of “UNKNOWN” indicates data collection gaps.
- Major infrastructure issues lie within main distribution lines, not service connections.



Key Findings

- The year-end period experiences higher pipe stress, possibly due to weather.
- Slightly more incidents in Q1 and Q2



Key Findings

- A steady increase in breaks over the years, with peaks post-2010. The aging network may be reaching a tipping point in terms of structural fatigue
- The highest incidents occur on Thursday and Friday. Weekday strain and possible operational factors could influence break timing.

Analysis of Pipe Breaks

Total Breaks

2.84K

Repairs Completed

2.82K

Avg_Breaks/Week

54

Break Causes by Category

☐

 AGE

☐

 COMBINATION

☐

 CORROSION

☐

 FAULTY INSTALL

☐

 OTHER

☐

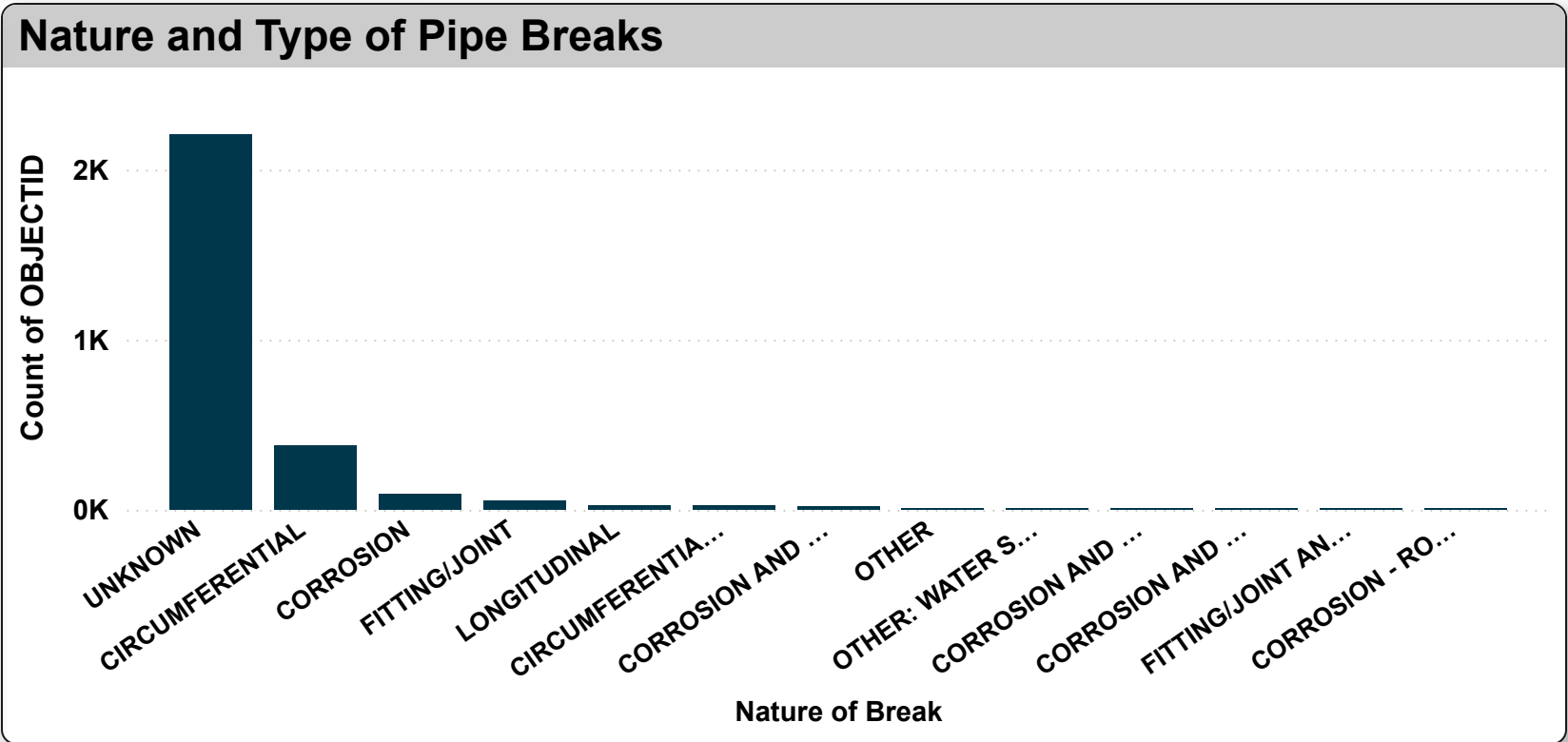
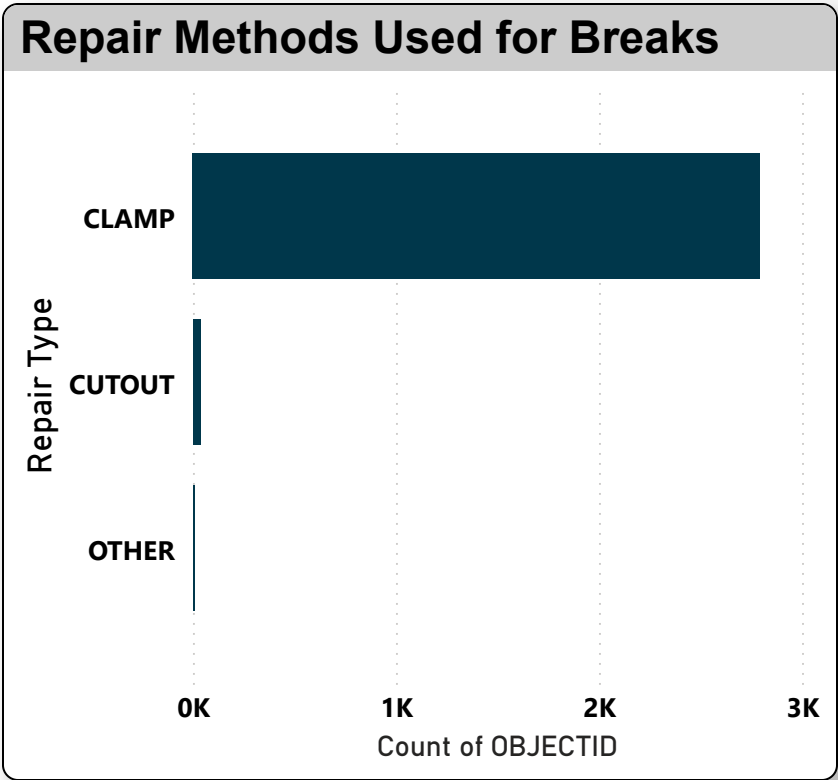
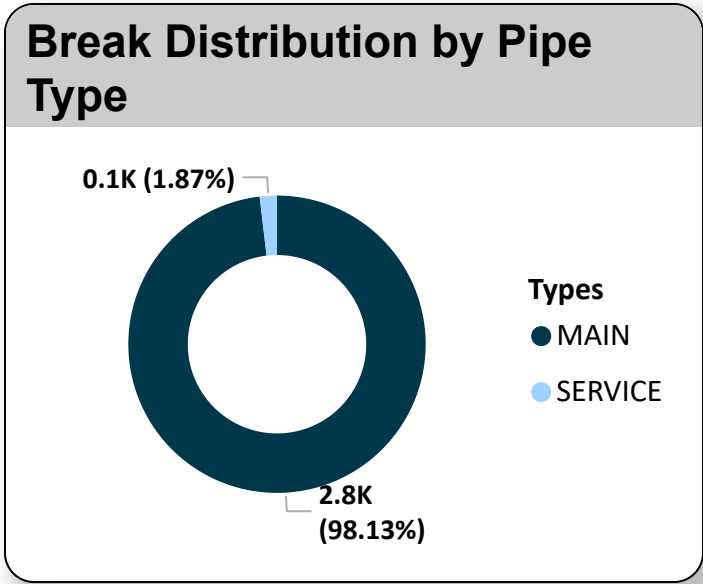
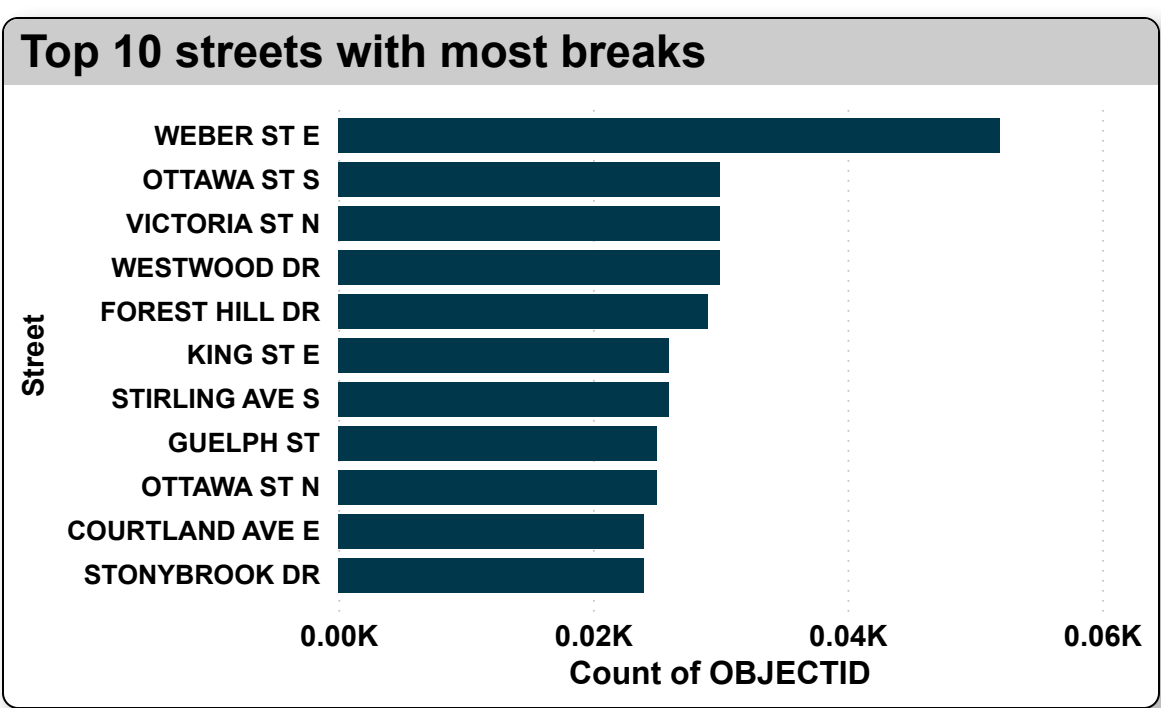
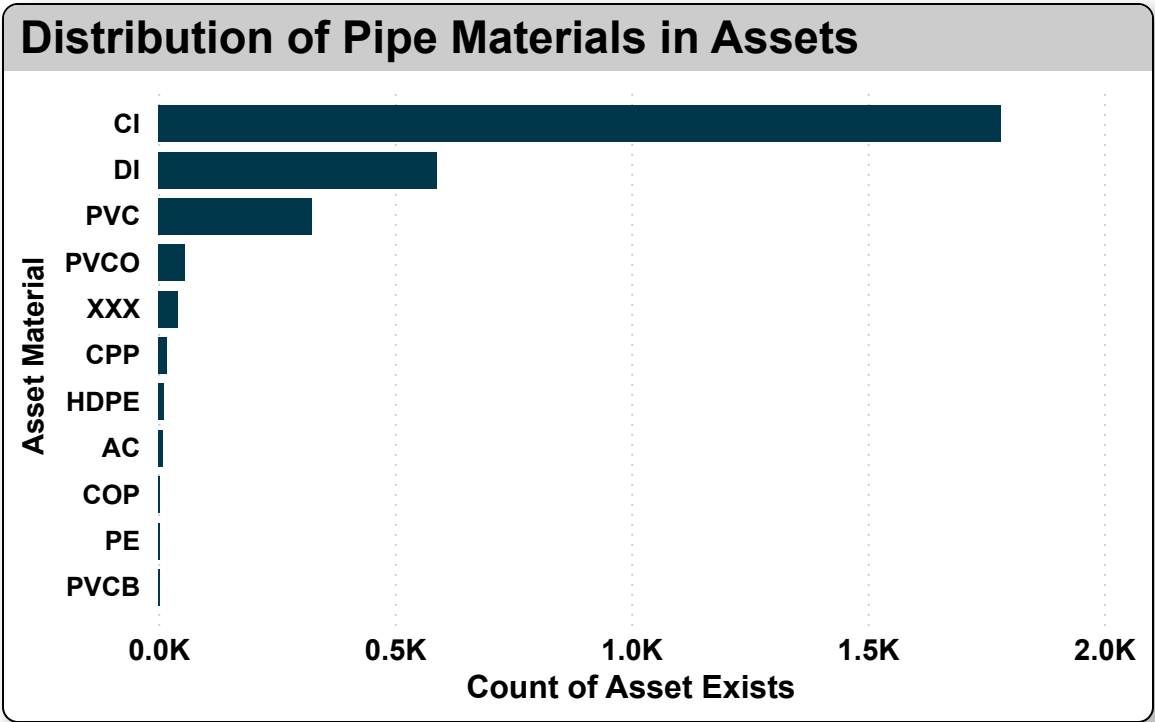
 PRESSURE

☐

 SOILS

☐

 UNKNOWN



Clear all filters

Time Series Analysis

incident-date_Month_Name

April

June

August

March

December

May

February

November

January

October

July

September

Clear all filters

Street	Count of OBJECTID
WEBER ST E	52
OTTAWA ST S	30
VICTORIA ST N	30
WESTWOOD DR	30
FOREST HILL DR	29
KING ST E	26
STIRLING AVE S	26
GUELPH ST	25
OTTAWA ST N	25
COURTLAND AVE E	24
STONYBROOK DR	24
QUEENS BLVD	23
VANIER DR	23
FOURTH AVE	20
GREENBROOK DR	20
HAZELGLEN DR	20
HOLBORN DR	20
ROSS AVE	20
ROSEMOUNT DR	19
BELMONT AVE W	18
SCHWEITZER ST	18
BRIDGE ST E	17
CARSON DR	17
EDNA ST	17
LANCASTER ST W	17
MELROSE AVE	17
WESTMOUNT RD E	17
CONWAY DR	16
HICKSON DR	16
HOFFMAN ST	16
LANG CRES	16
VILLAGE RD	16

