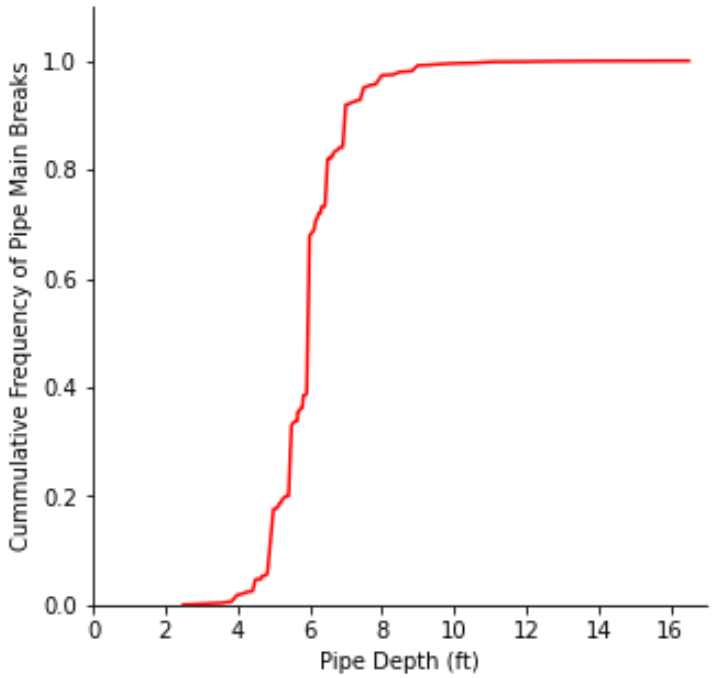
5th October Plot- Gautam Agarwal



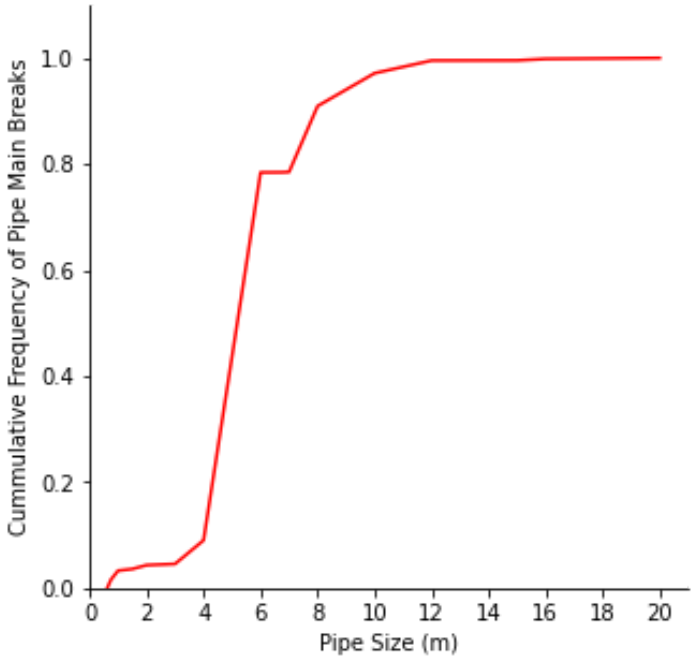
Inference:

Pipe laid 6 feet deep break much more often than others

Possible Explanations:

1. Standard / preferred convention for pipe setup
2. Pipes 6 feet deep might be laid in specific areas
3. Soil-type at the level is unfavourable

5th October Plot- Gautam Agarwal

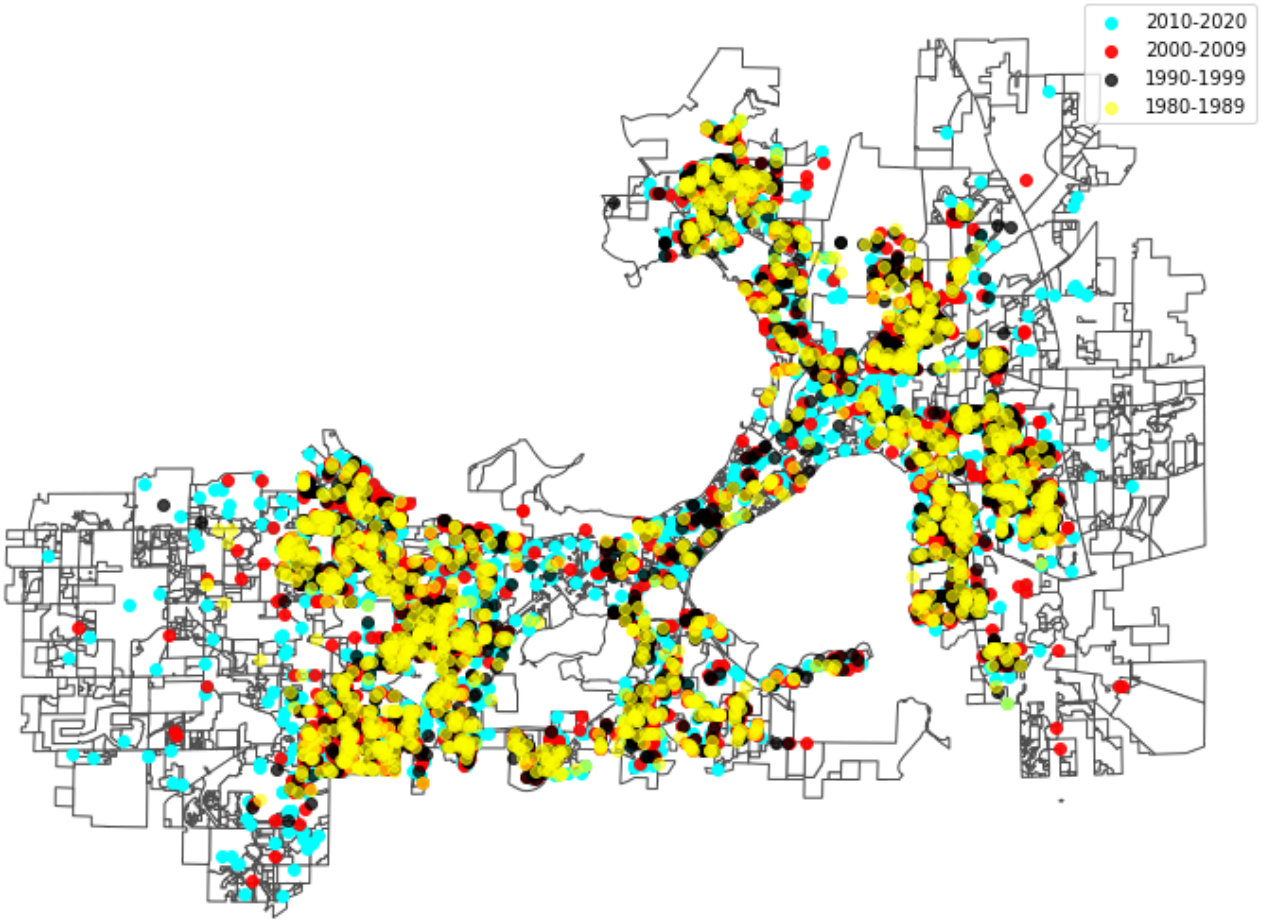


Inference:

Pipes 4-6 metres long break more often

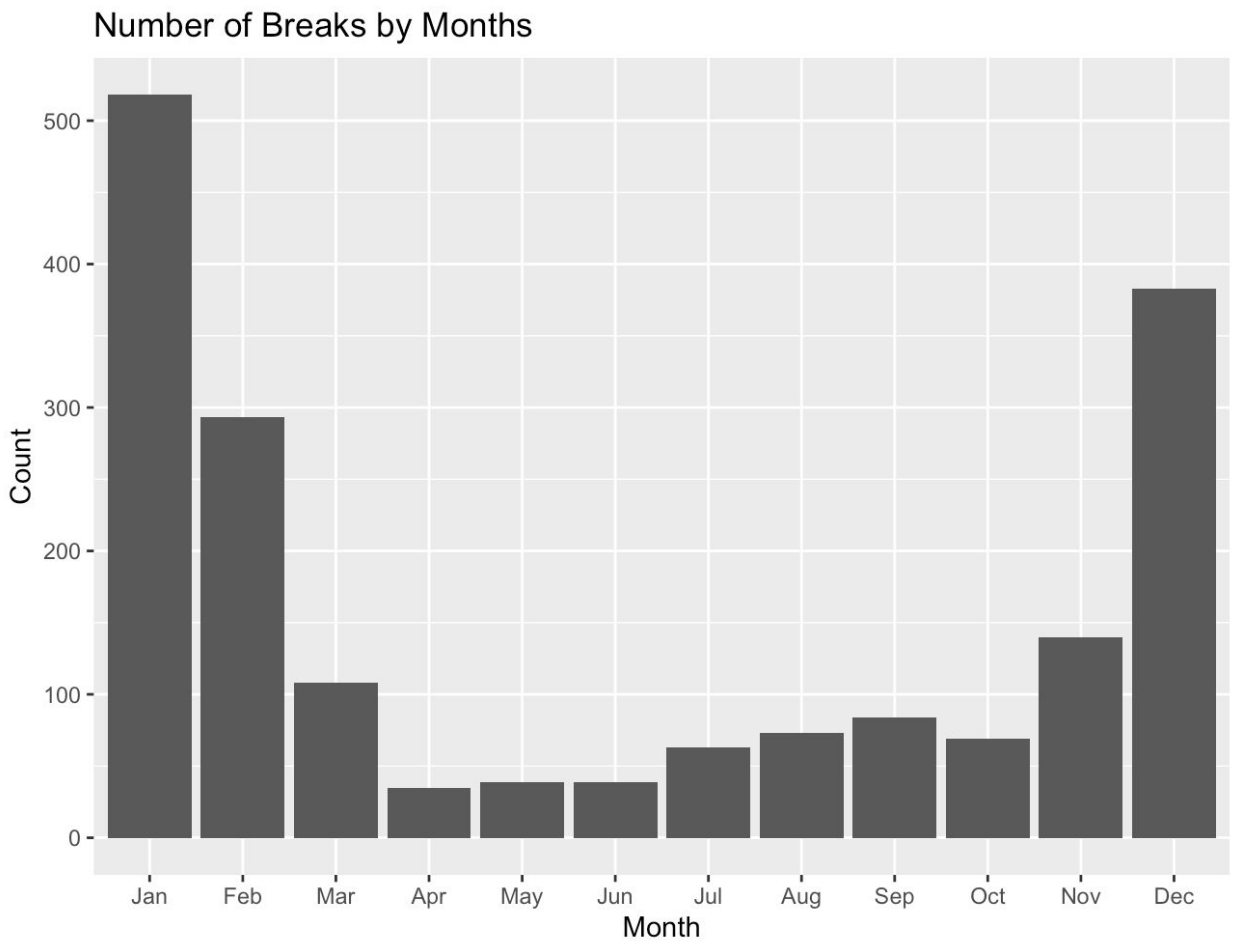
Possible Explanations:

1. 6 metre long pipes are more widely used
2. Pipes 6 metres long might be laid in specific areas
3. These pipes are laid in unfavourable soil



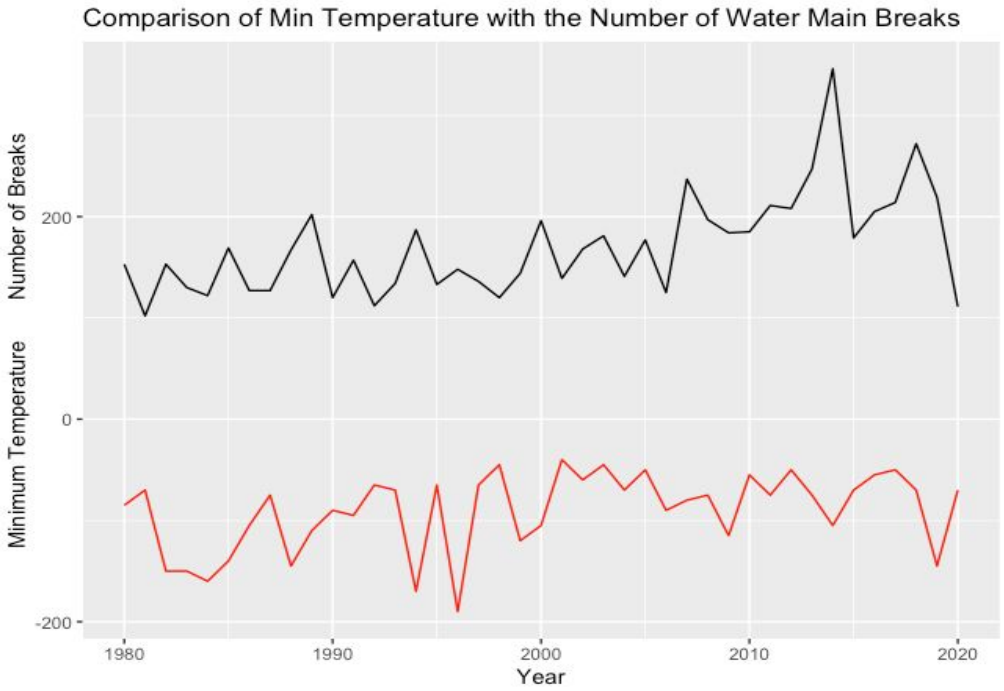
Inference:

- There are more Water Mains breaks away from the downtown area recently.
- Water main breaks are more in relatively more populated areas with smaller zones

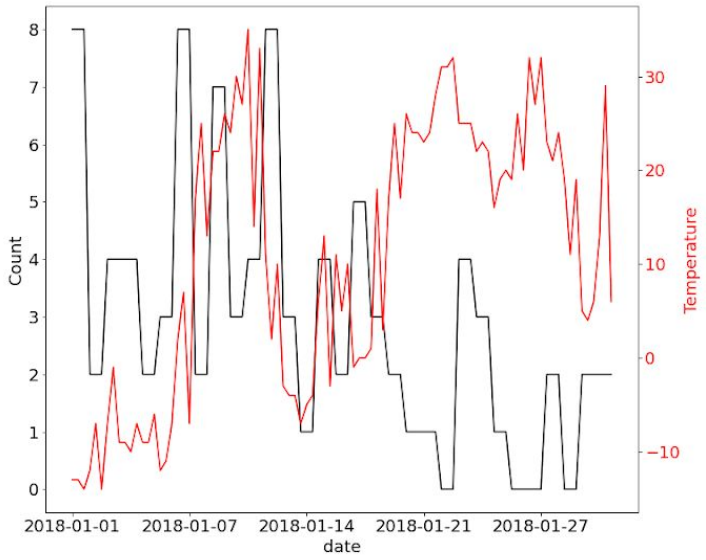


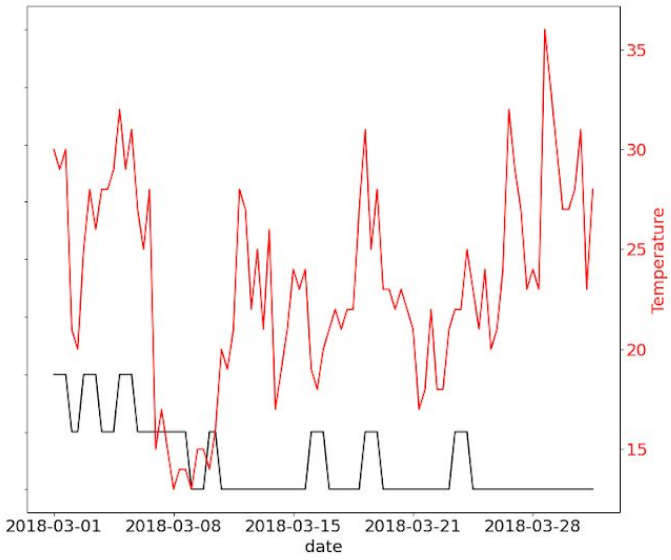
Inferences:

- There are much more water main breaks in the winter
- A large portion of the water main breaks is due to the cold weather
- "The soil expands and contracts as it freezes and as it thaws," he says. "For the older, more brittle mains – the ones that were built in the 30s, 40s and 50s – it gets to the point where they just can't take that force and break." ----MWU principal engineer Al Larson



October 5 Plot- Wen Ye





Inferences:

- Dips in temperature and peaks in the number of water main breaks correspond to each other pretty well