



Infrastructure Condition Assessment for Capital Improvements Committee

September 5, 2013

Milwaukee
Water Works

Safe, Abundant Drinking Water.

Approach

- Water Treatment Plants
 - Individual ratings of 5 aspects of 22 steps for both plants = 220 attributes rated
- Pumping and Storage Facilities
 - Individual ratings of 117 aspects in 15 facilities
- Distribution System
 - Water main breaks
 - Repairs of valves, hydrants, services
- Meter Shops

Completed Projects



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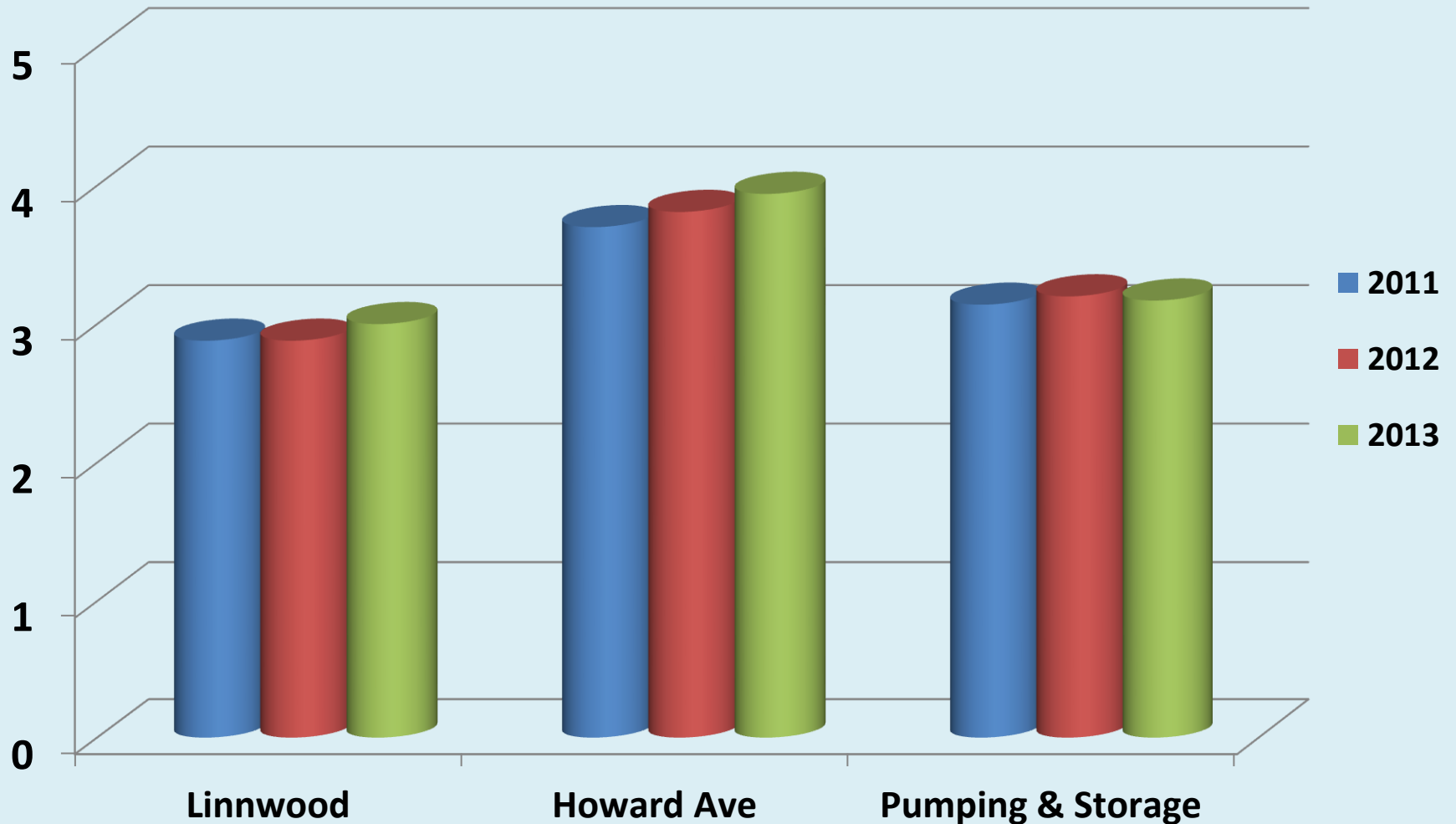


Completed Projects

- Linnwood
 - Backup power generation design
 - Flocculator bearing replacement
 - Ozone system cooling water
- Howard Ave Admin Building HVAC
- Linnwood & Howard Ave Automation Upgrades
- North Point Discharge Mains Condition Assessment

Overall Ratings

(Scale 0 to 5)



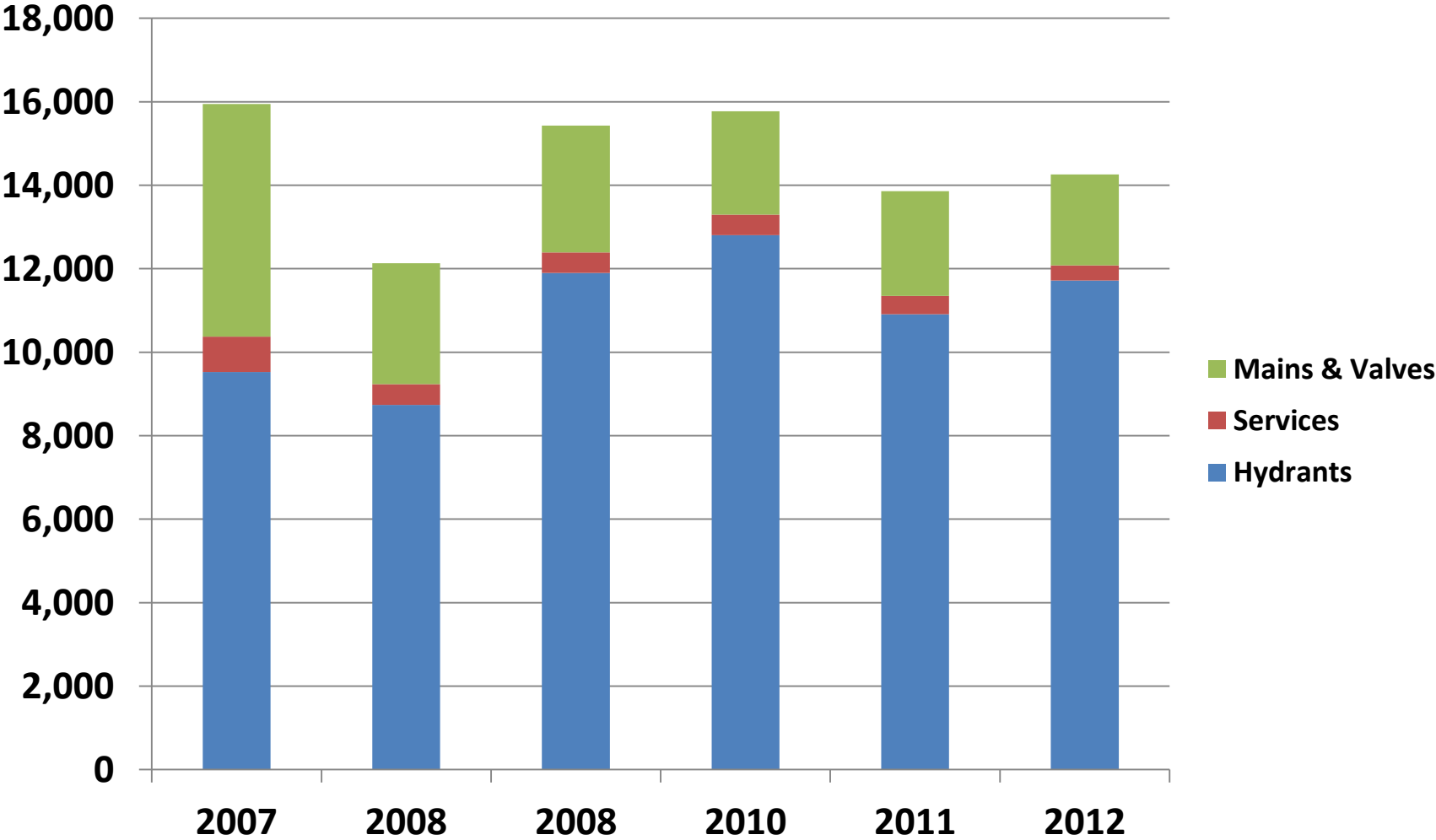
Projects In Progress

- Linnwood
 - Ozone bypass valves, dielectrics
 - Backup power generation (construction)
 - Reservoir roofs, building roofs
 - Steel pipe assessments
 - Motor control centers
- Howard Ave
 - Ozone dielectrics

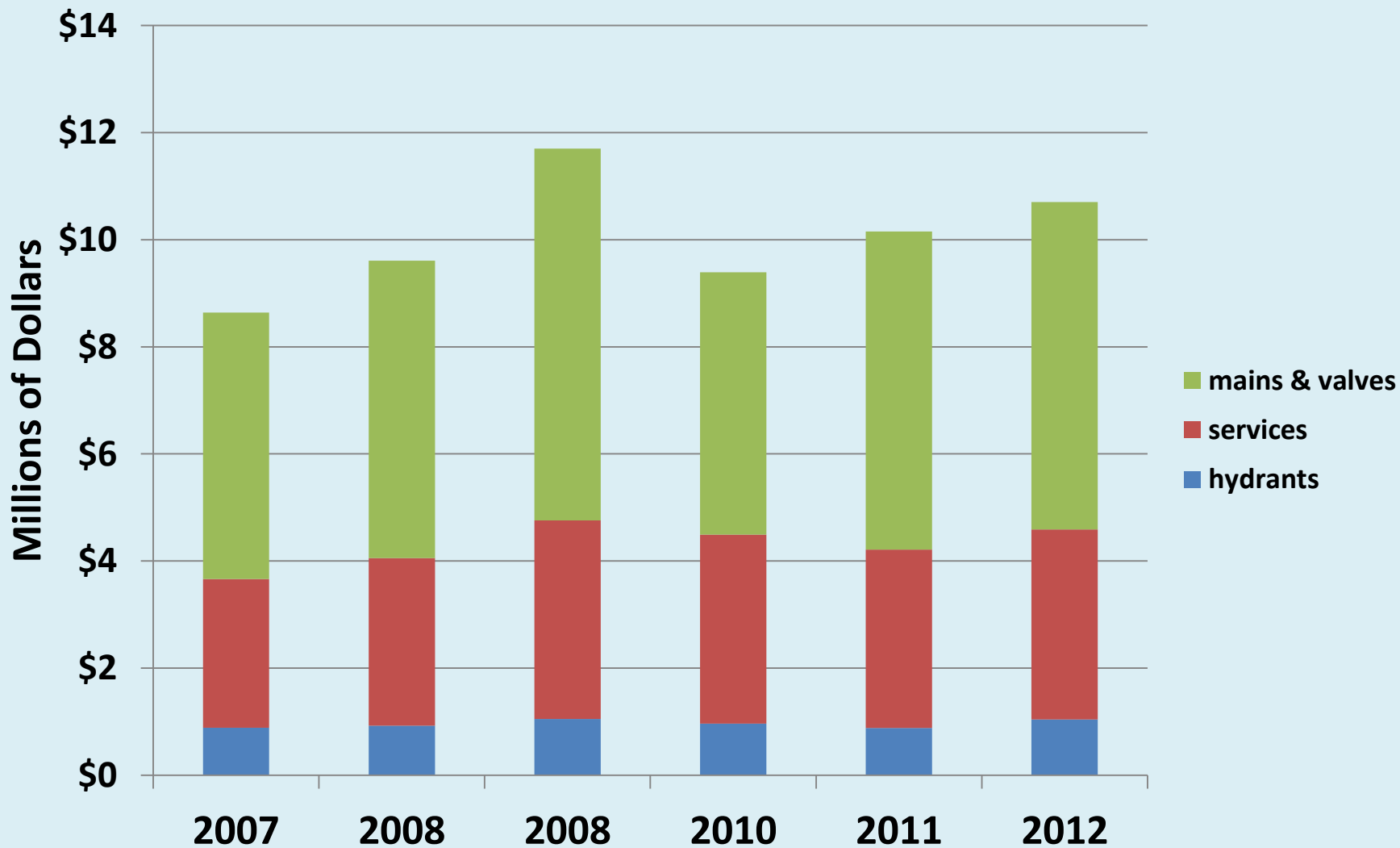
On the Horizon

- Linnwood particulate removal and residuals handling processes
- Pump and valve refurbishing and right-sizing throughout system
- Grange Station backup power generation
- Riverside and North Point tunnel inspections
- North Point water tower

Distribution Maintenance Activities

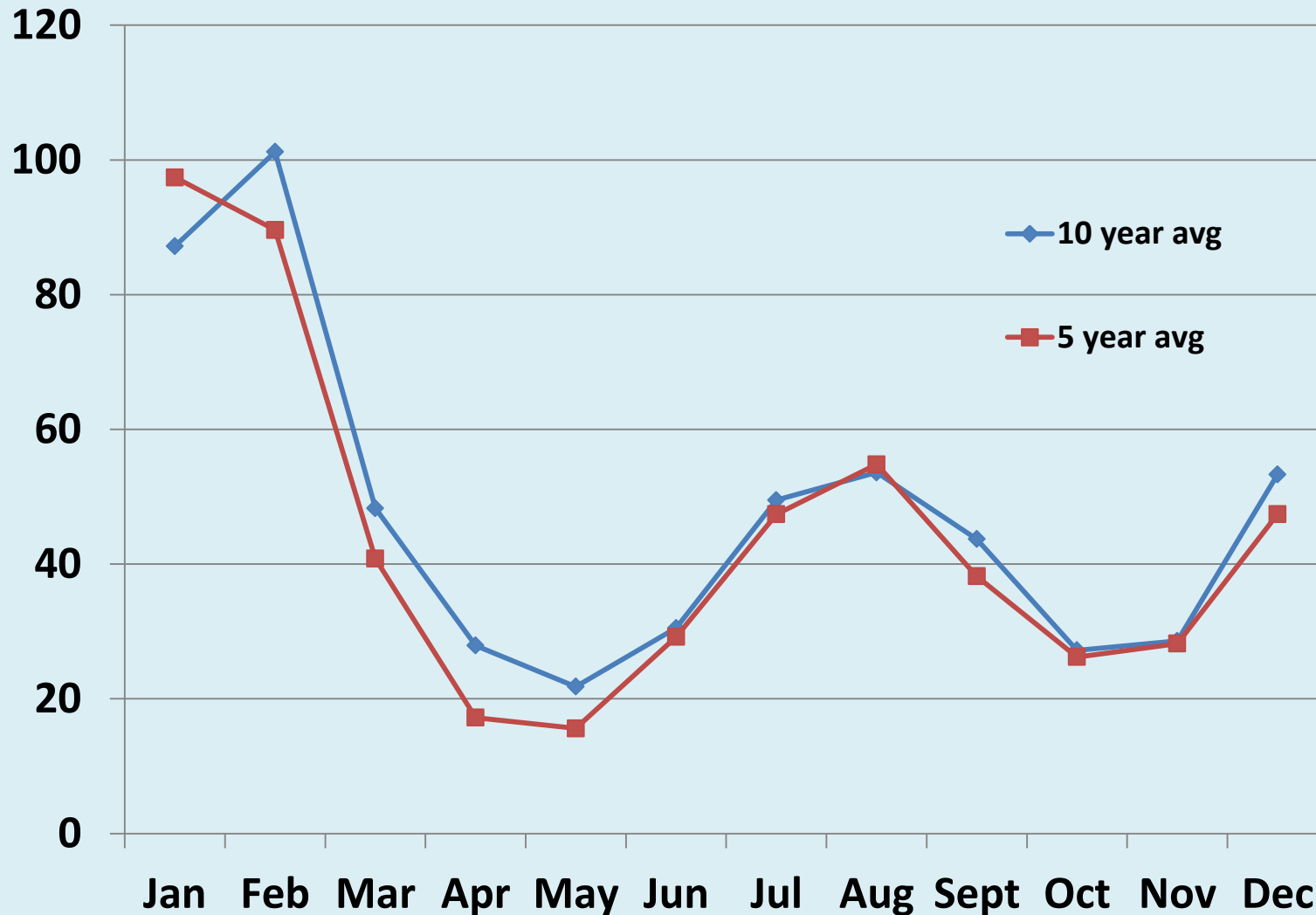


Distribution Maintenance Dollars

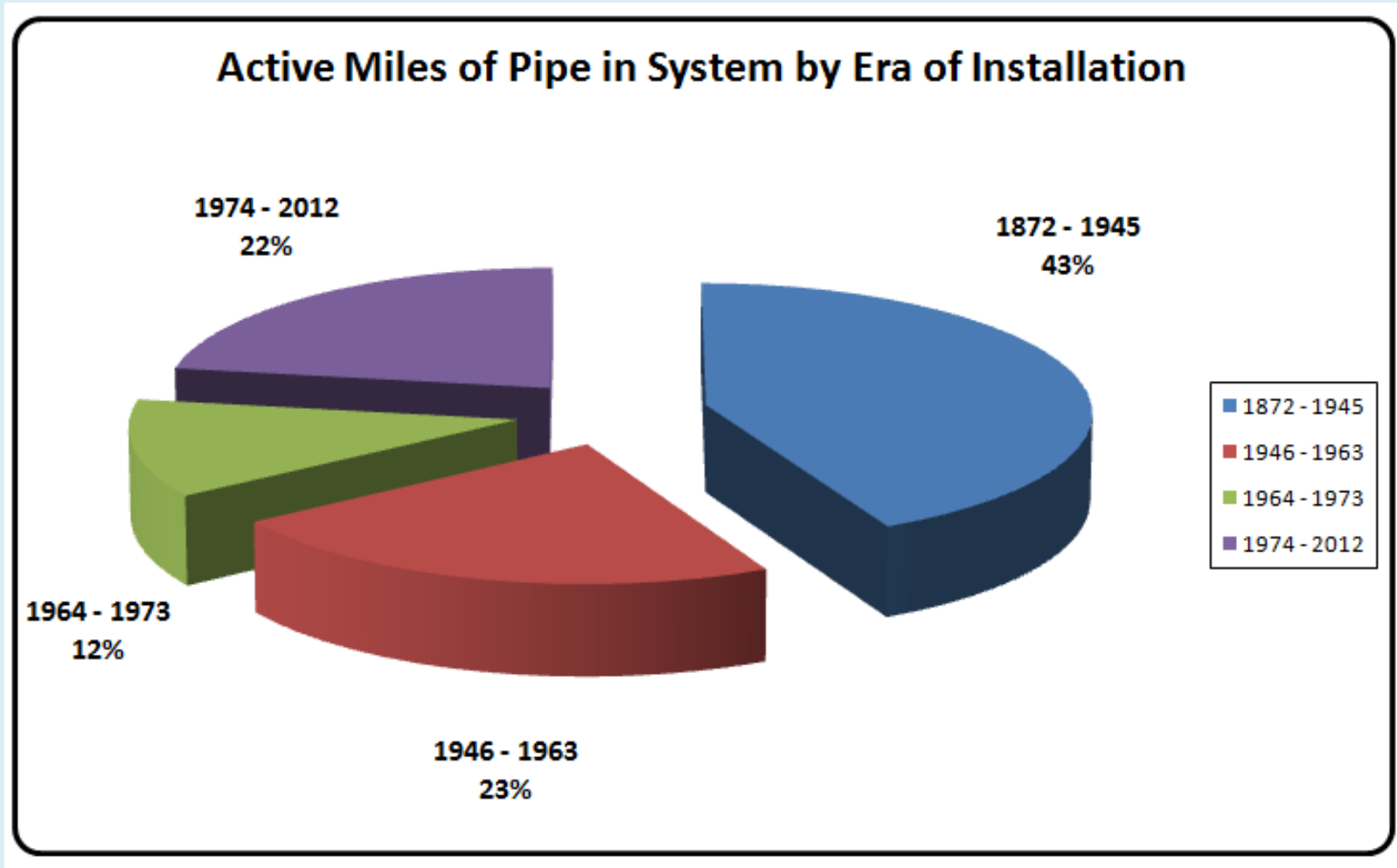


Water Main Breaks

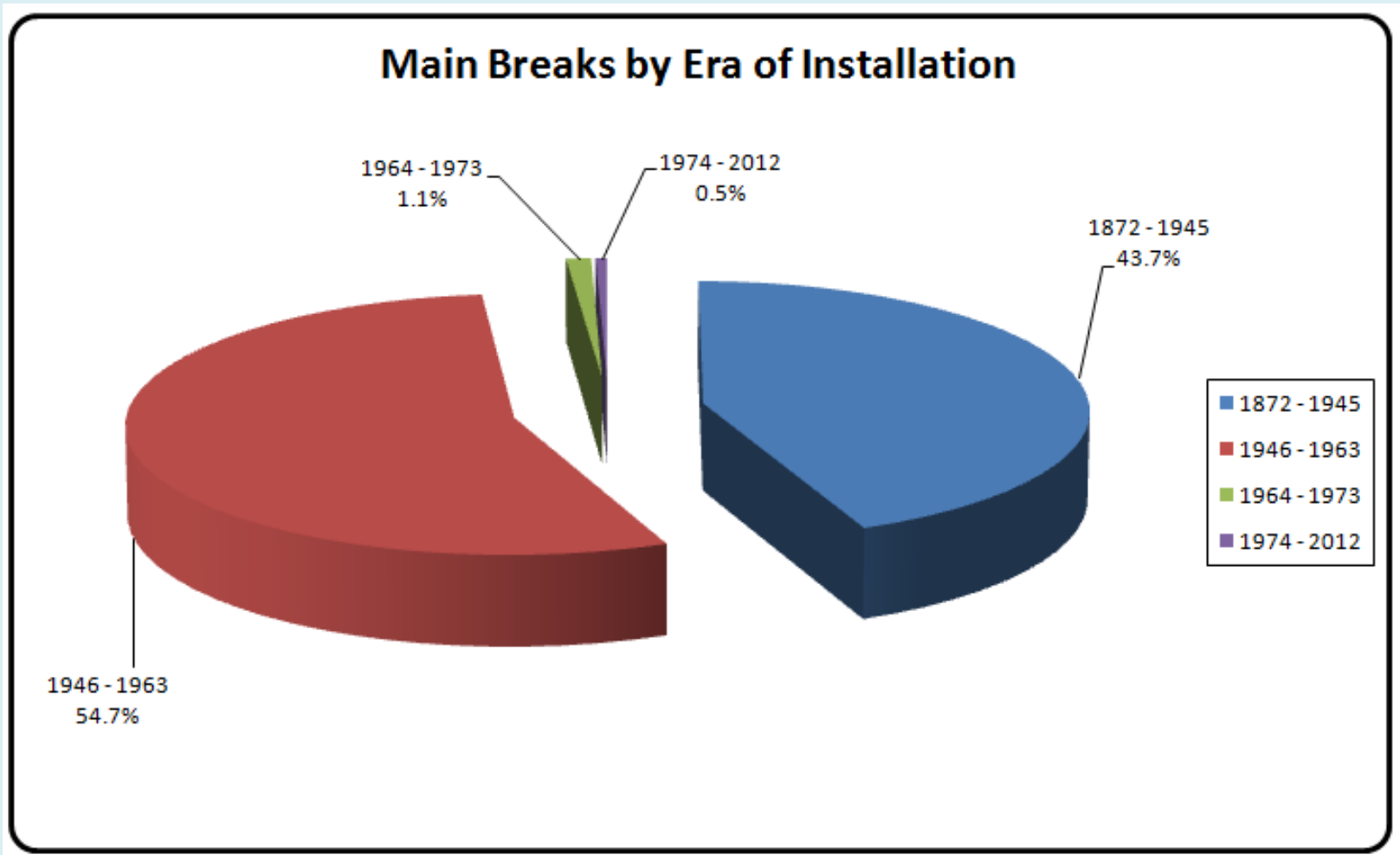
(by month)



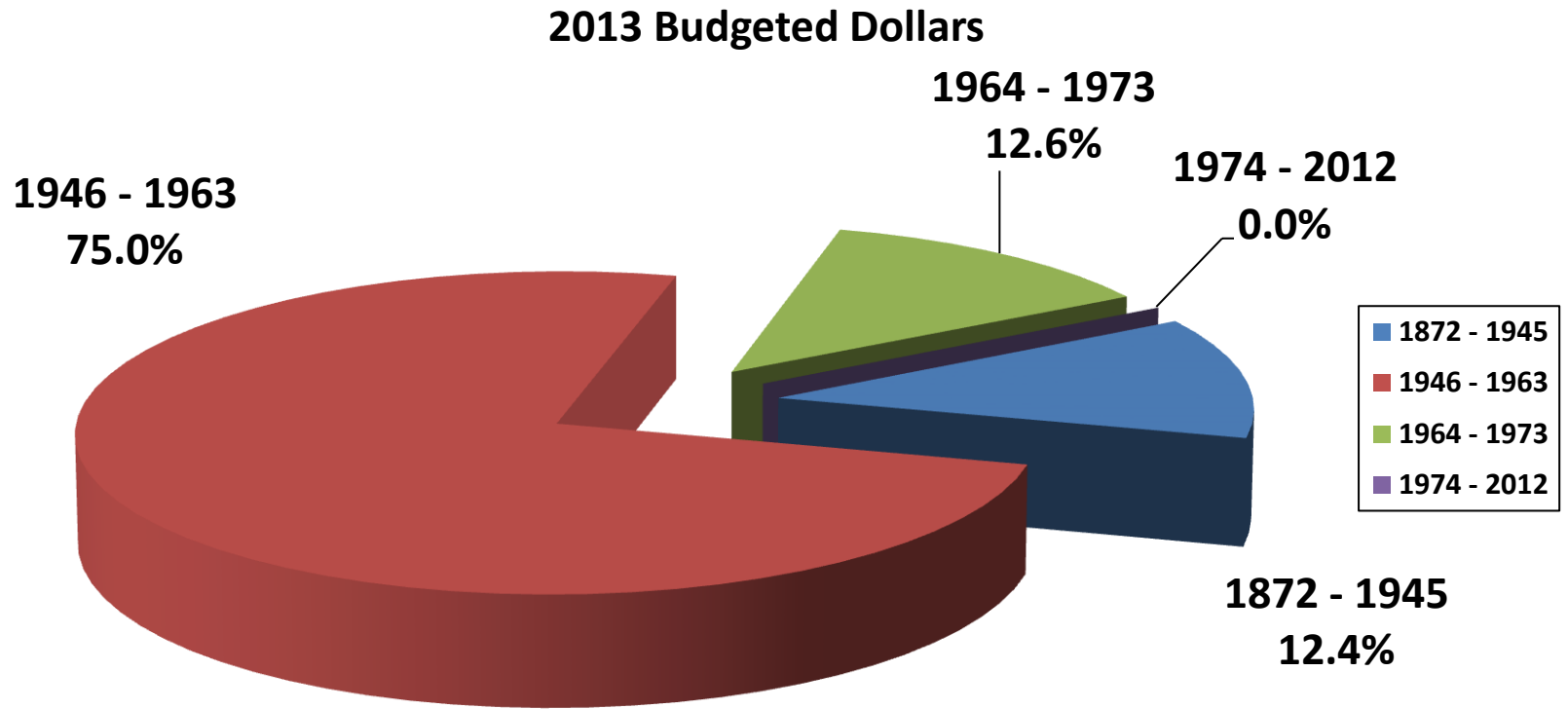
Miles of Mains – By Year Constructed



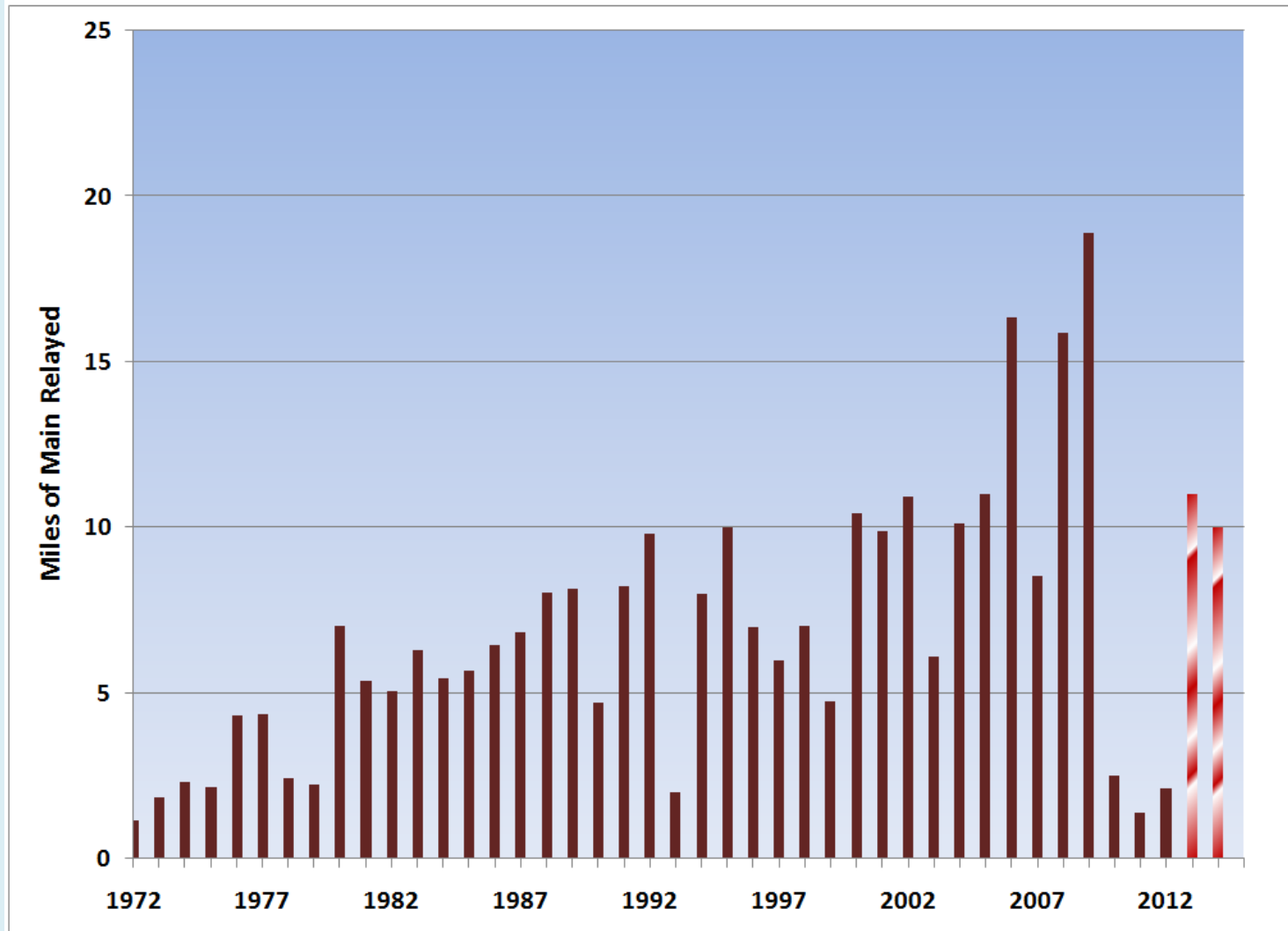
Main Breaks



Replacement Dollars (2013)



Miles of Main Replaced



A close-up photograph of a glass filled with water. Numerous small, clear bubbles are rising from the bottom of the glass towards the surface, creating a dynamic and refreshing visual. The background is a soft, out-of-focus light blue.

Questions?

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