

# Monterrey WATER CRISIS

**TEAM AQUA**

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# INTRODUCTION

- Located in northern Mexico, Monterrey is the capital of Nuevo León. Monterrey, one of Mexico's most important industrial and economic hubs, has been facing a severe water crisis in recent years. The water shortages between 2021 and 2024 have been driven by a combination of climate, urban expansion, infrastructure limitations, and inefficient water management.

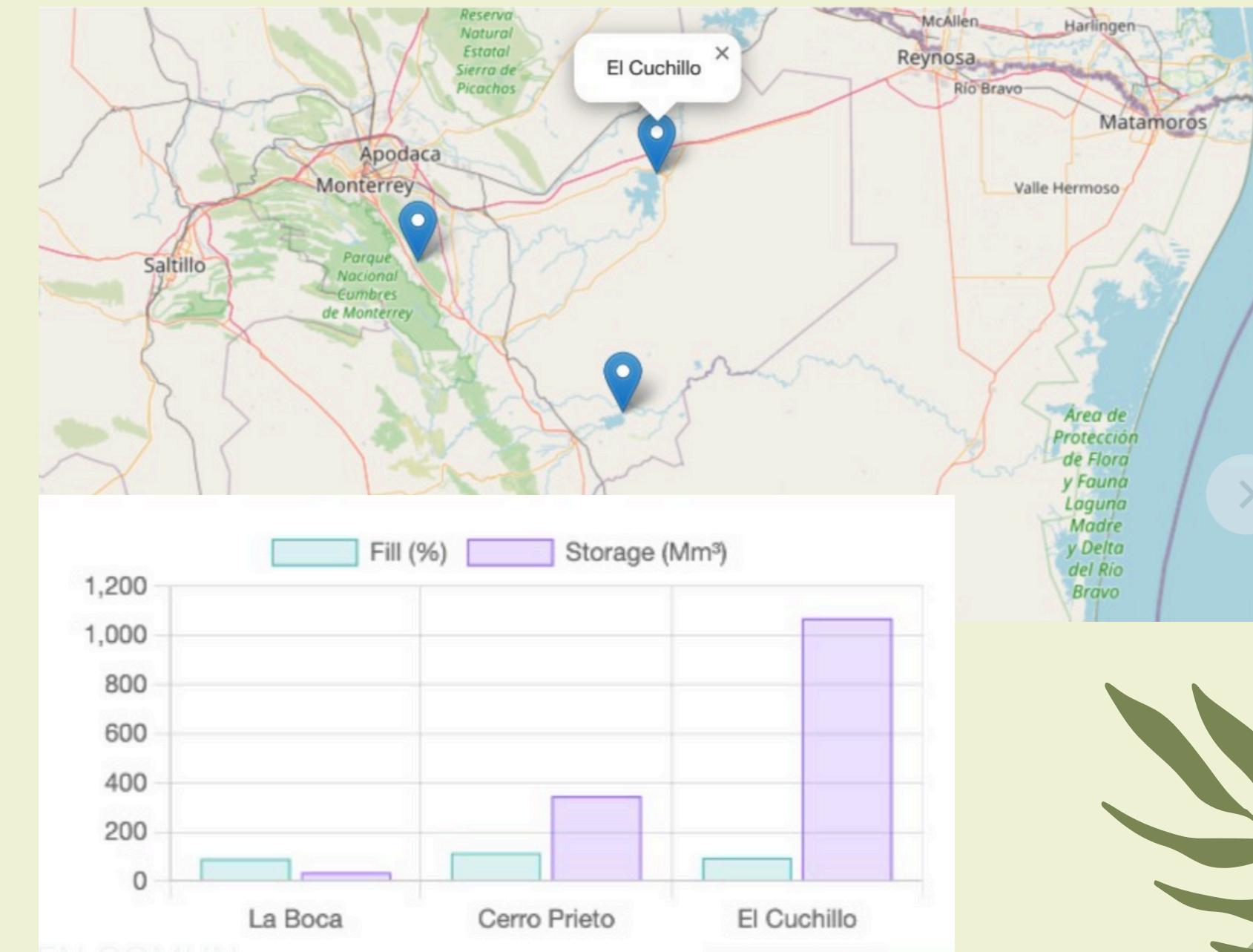
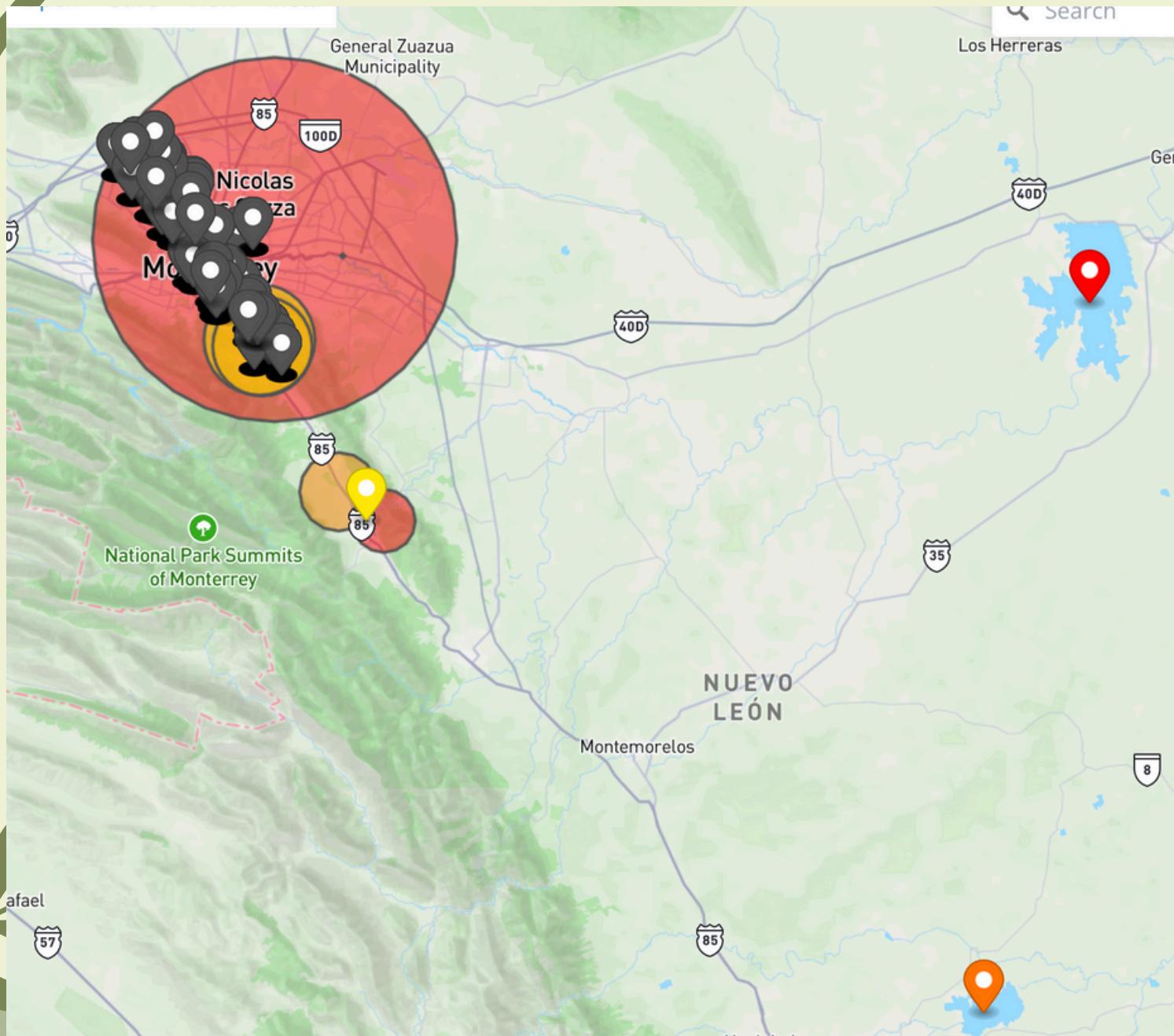


# SITUATION

**Monterrey faces a critical water shortage situation due to drought and water stress.**

- In 2022, there were demonstrations and blockades due to lack of water.
- In 2023, Nuevo León declared an emergency due to water shortages in dams.
- In 2024, severe drought damages.

# ACTUAL SITUATION



# PROBLEMS

- Drought and Climate Factors
- Urban Growth and Increased Demand
- Poor Water Management and Planning
- Aging Infrastructure and Water Loss.



# **DATABASE**

- **Open data NL (Municipal water supply points: Monterrey)**

**It is an open data repository managed by the Nuevo León state institute for transparency, access to information and protection of personal data.**

- **dataMX (GeoJSON neighborhoods of Nuevo León)**

**Platform promoted by civil society interested in open data.**

# NEIGHBORHOODS

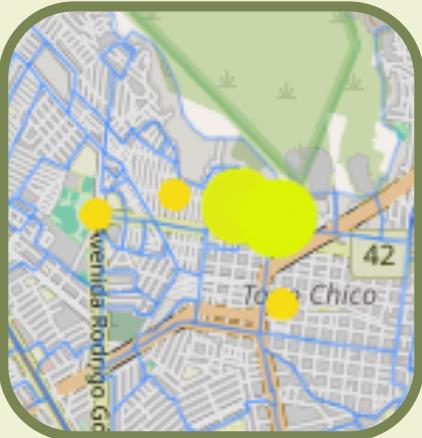
## VISUALIZATION

We can easily identify the neighborhood of your interests as well as a mark for each water reservoir.

The detail of each water supply point shows: the address, supply times and also when the data was collected.



# NEIGHBORHOODS VISUALIZATION



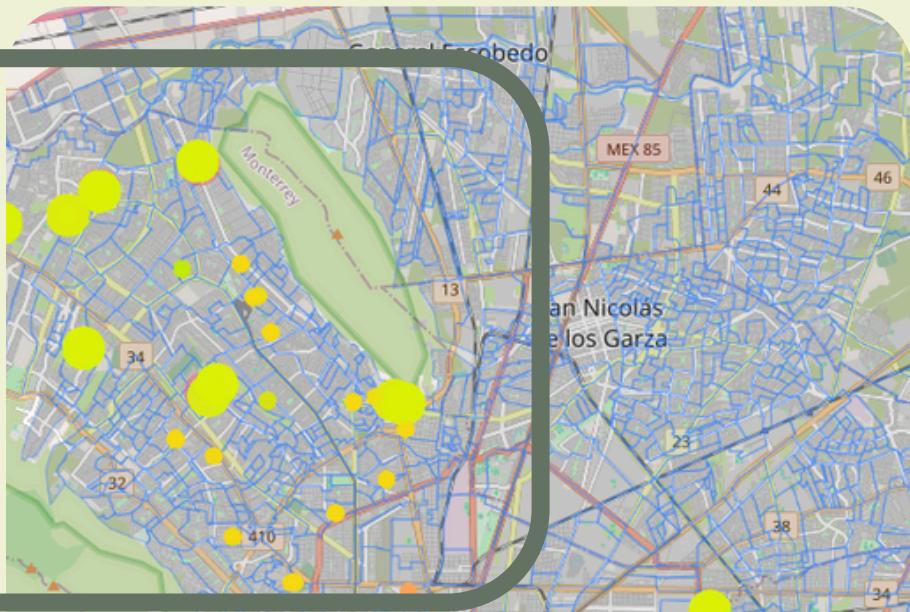
Each dot, shows a different size,  
depending on how much water can  
be stored.



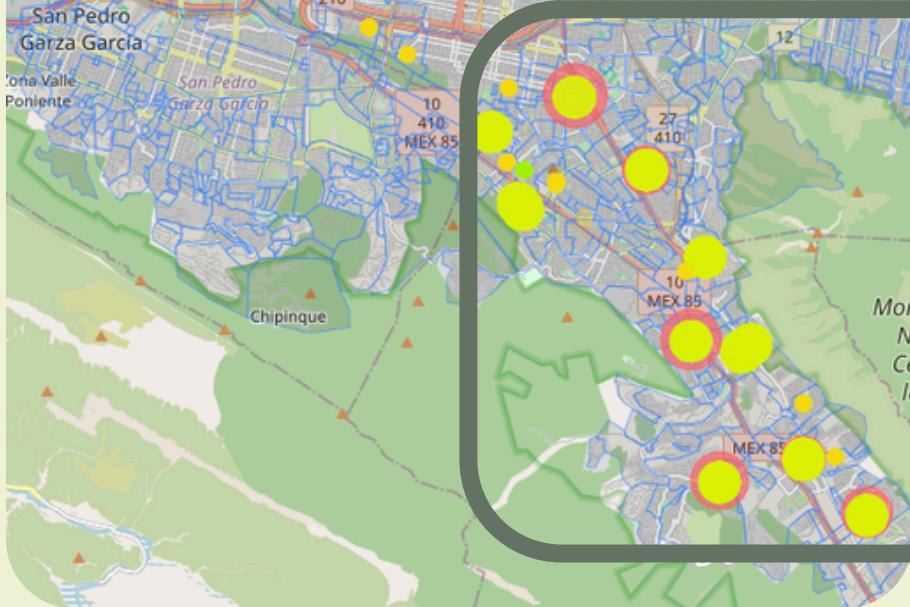
The points are colored according to  
the supply schedules.

# INTERESTING FINDINGS

The northern part of the city seems to receive the water earlier.

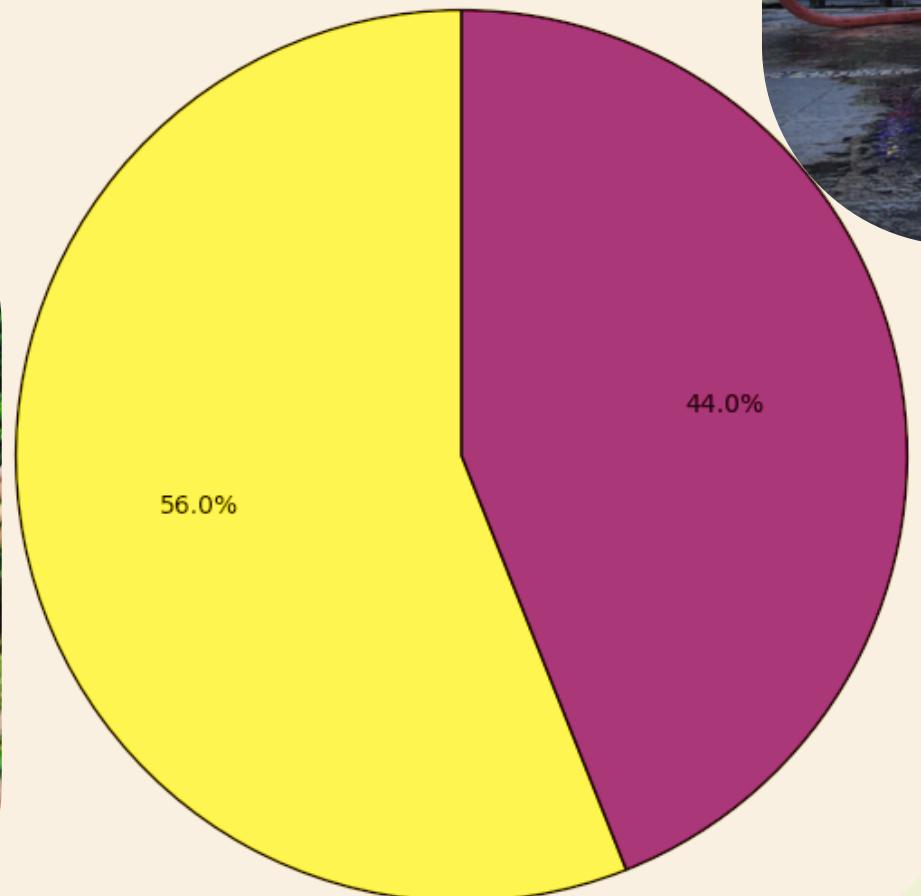


There are only two main areas in which there are water reserves.

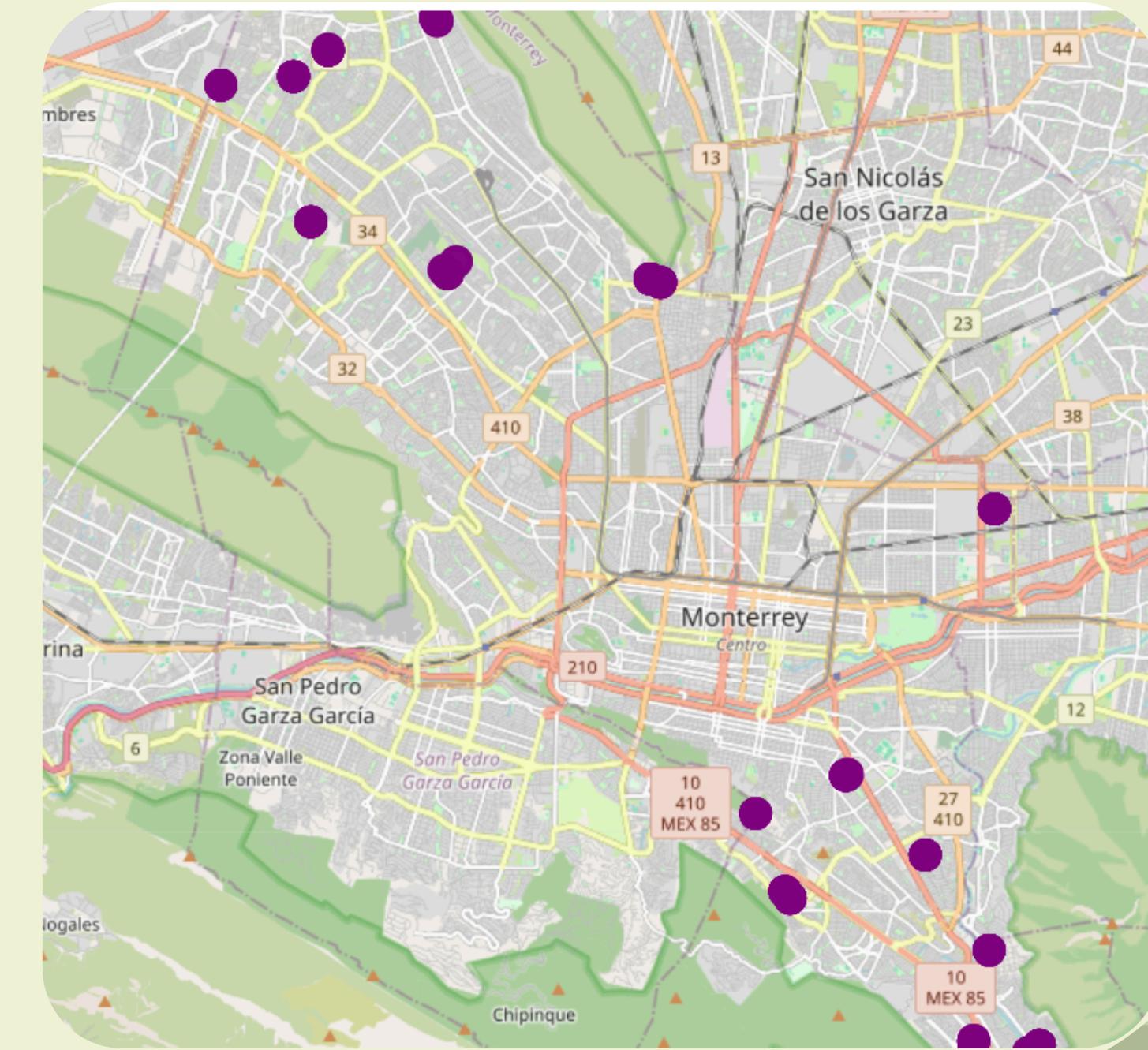
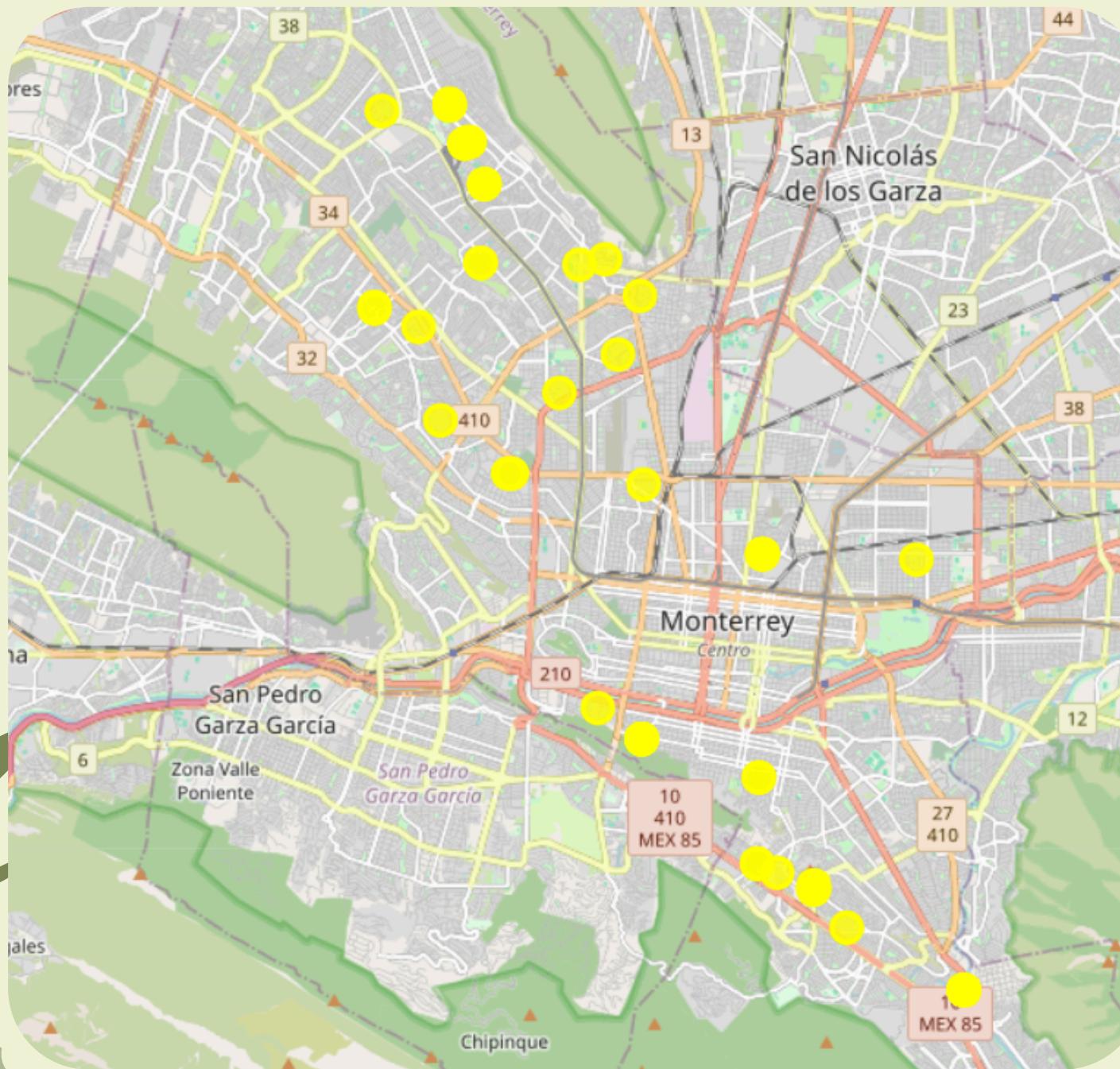


The southern zone appears to refill its water supplies later, or immediately.

# SUPPLY TYPES



# MAP VISUALIZATION



# CONCLUSION

**The water crisis in Monterrey requires sustainable management in the short term, such as emergency distribution of pipes and containers, and in the long term, including emergency measures, investment in infrastructure to reduce leaks, as well as investment in new water sources and fostering a culture of conservation to ensure access to water.**



**THANK  
YOU**