

# 2020 Water Supply Planning Report to the Minnesota Legislature

Lanya Ross, Environmental Analyst

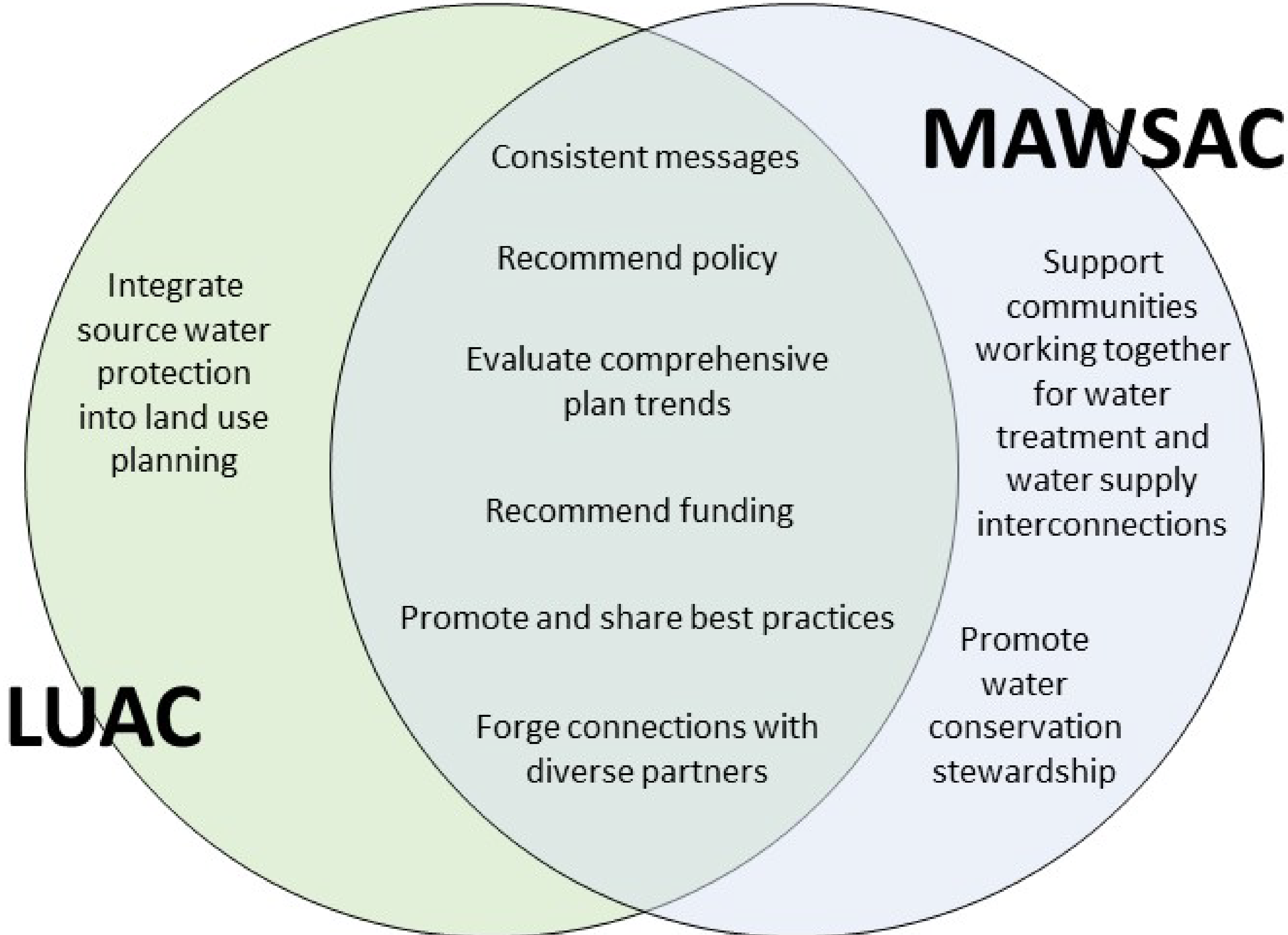
Land Use Advisory Committee: September 17, 2020



# Purpose

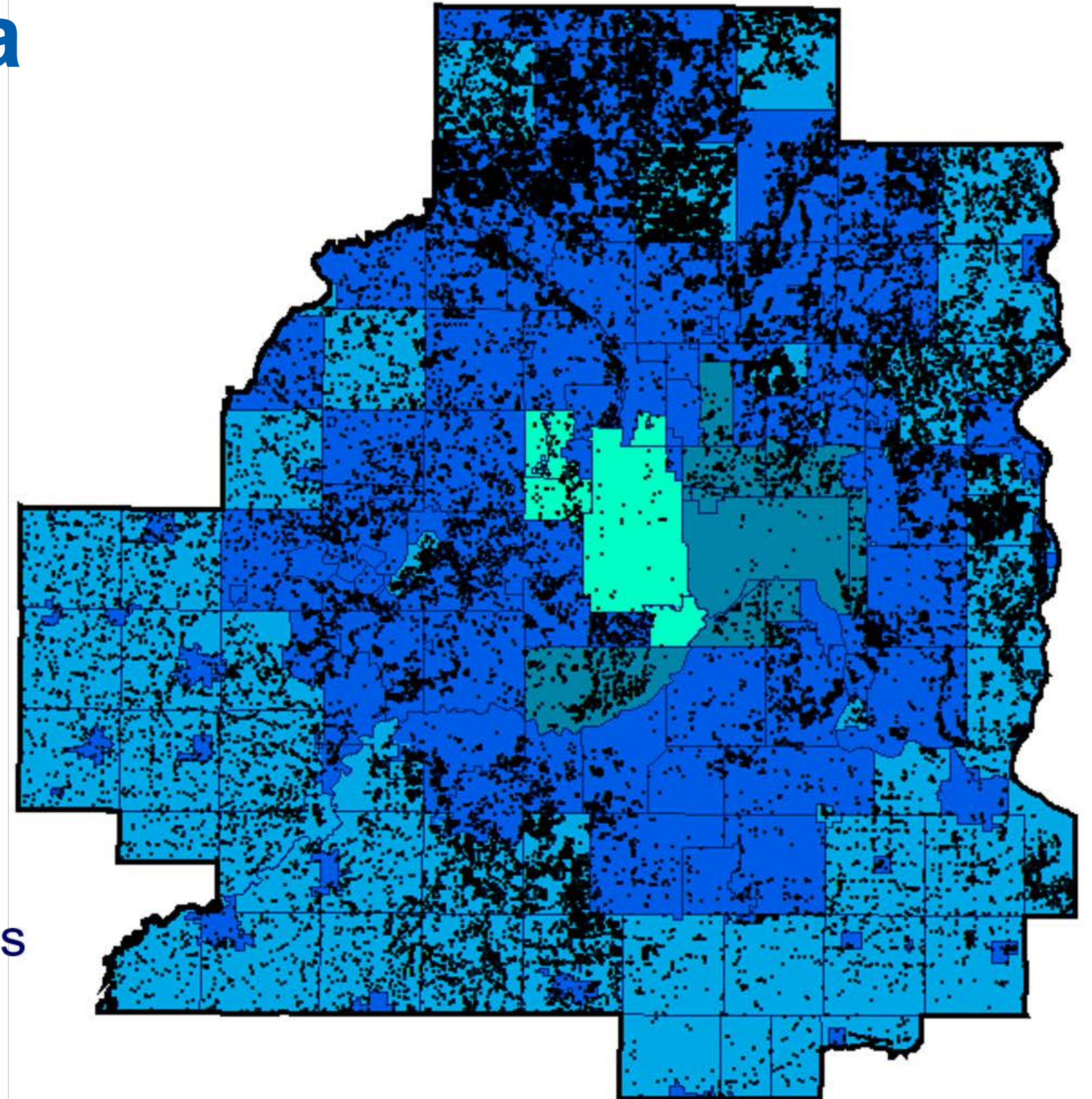
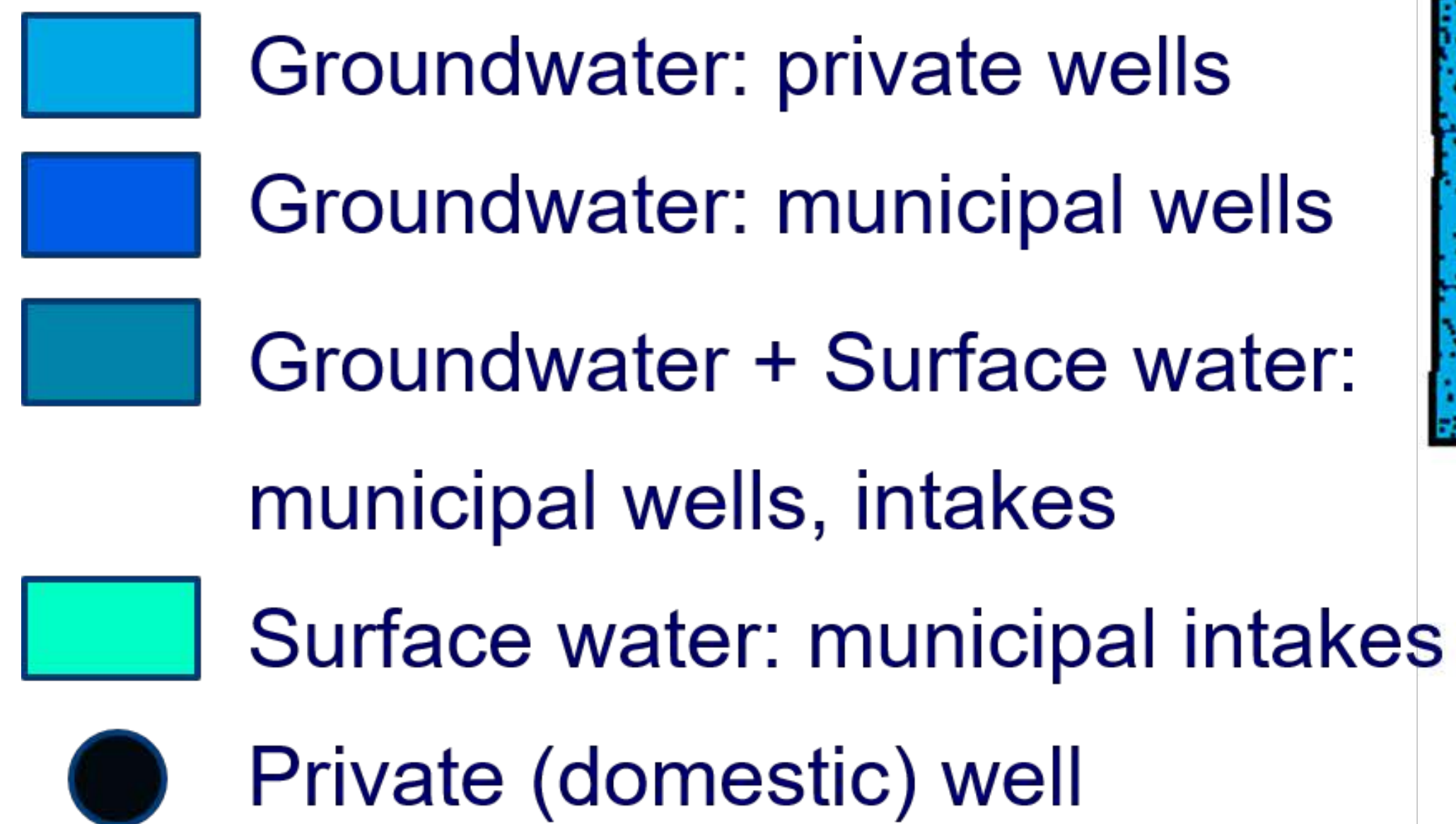
- Update about the Council's 2020 report to the Minnesota legislature on water supply planning activities
- Ideas for using this information to inform LUAC's work

# Shared LUAC and MAWSAC Interest



# Water Supply Planning in the Twin Cities Metro Area is a Collaborative Endeavor

- 186 Cities and townships
- 100+ Water utilities



# Minnesota Statutes 473.1565

## METROPOLITAN AREA WATER SUPPLY PLANNING ACTIVITIES; ADVISORY COMMITTEES

*Enacted 2005*



**Technical  
Information**



**Planning**



**Recommendations**



**Advisory  
Committees**



**Reports**

# Contents

A link to the [report](#) is included on the 9/9/2020 Metropolitan Council agenda

- **Water supply at a glance**
- **Shared principles**
- **Collaboration, technical investigations, planning, and implementation**
- **Outcomes and future work**
- **Highlights**

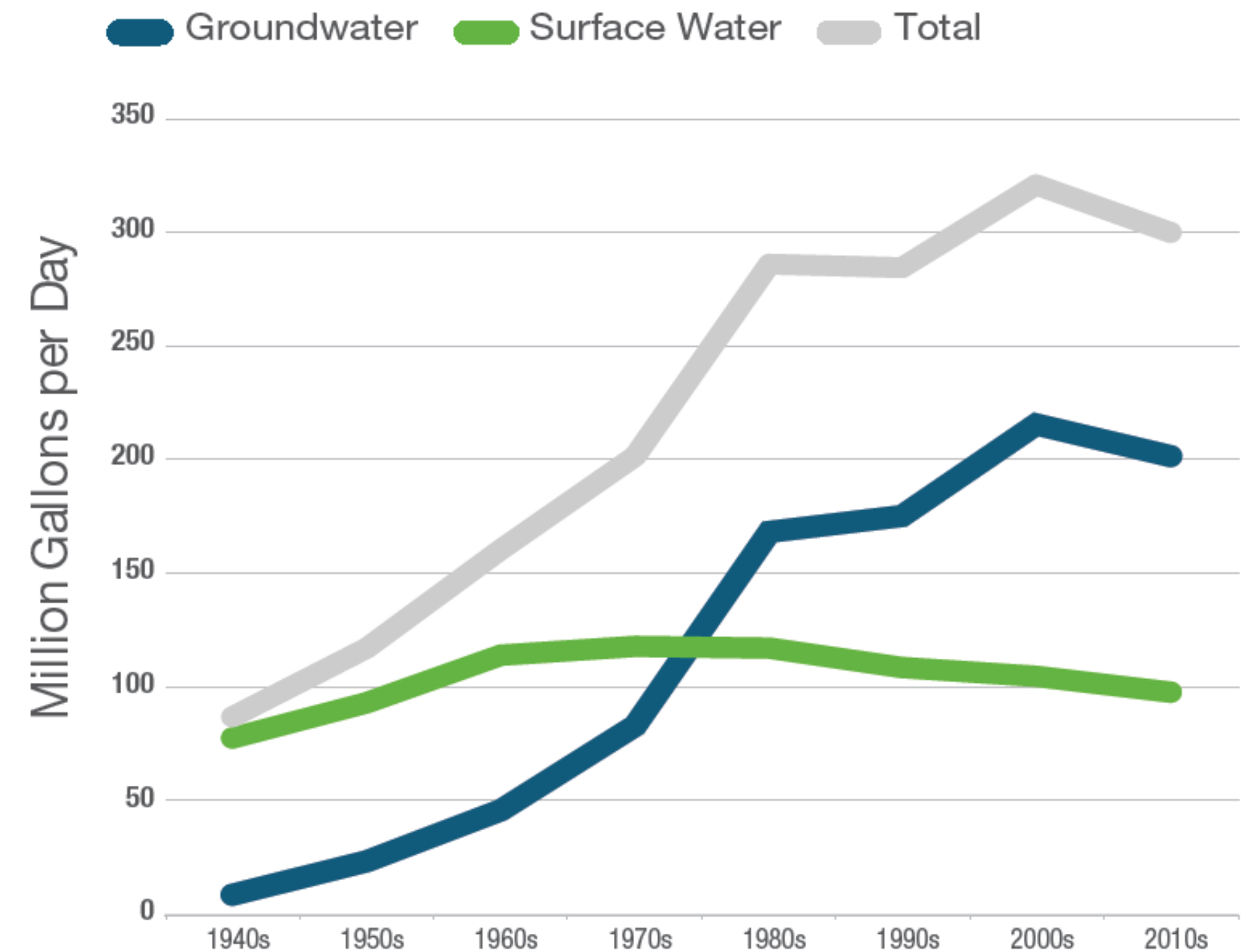
“To me, the greatest value in this partnered approach is that documents like the Master Water Supply Plan (2015) are informed by the real experiences and expertise of the local water suppliers that the public has come to trust for safe and sustainable delivery of drinking water.”

**Mark Maloney, Public Utilities Director,  
City of Shoreview**



# Outcomes

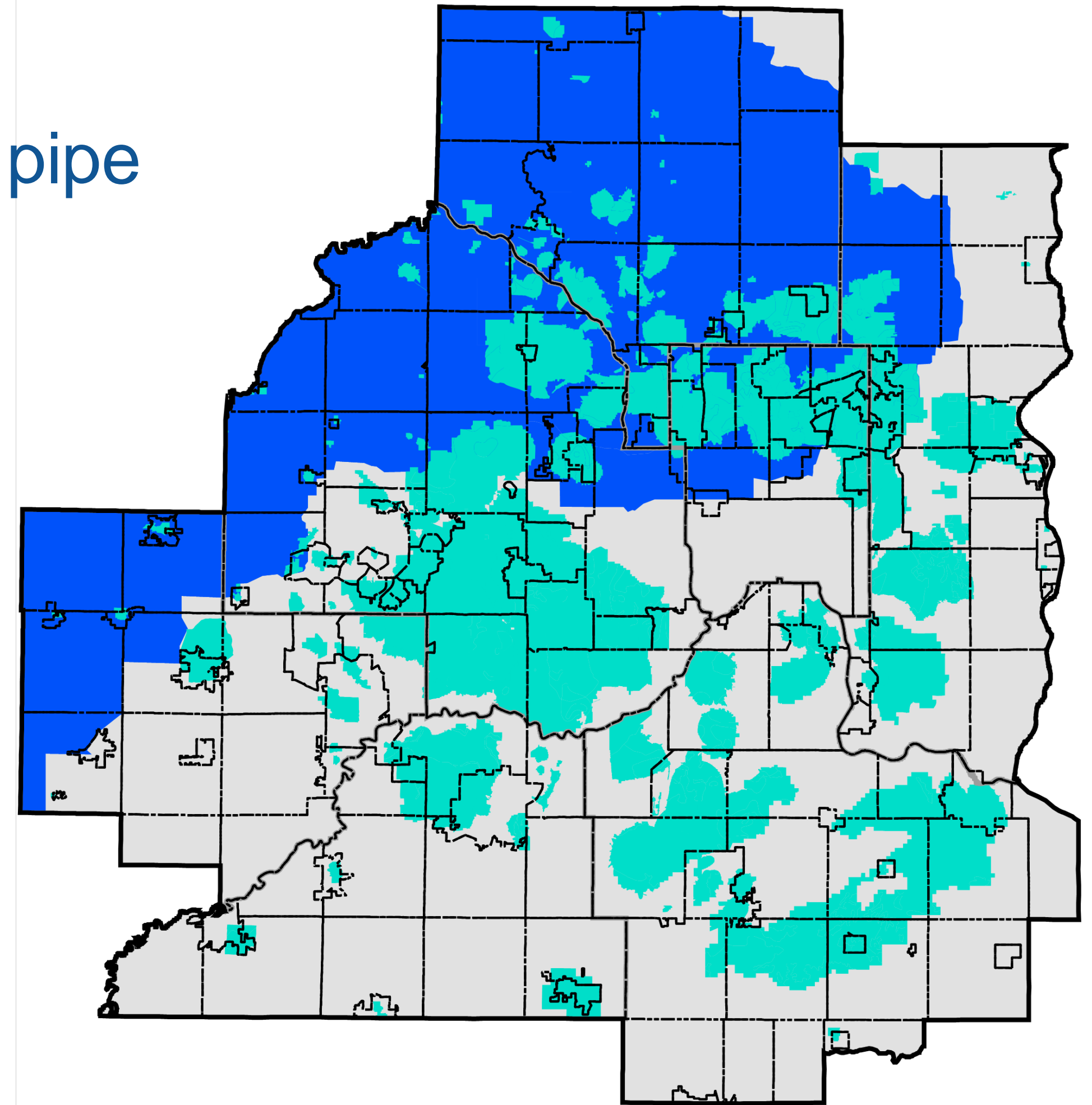
1. Better understanding of shared resources and challenges
2. Successful sub-regional collaboration to advance water sustainability goals
3. Better management/long-term resiliency of shared resources
4. More resources focused on regional water supply challenges
5. Better equipped to pursue next steps



# Water Supply at a Glance

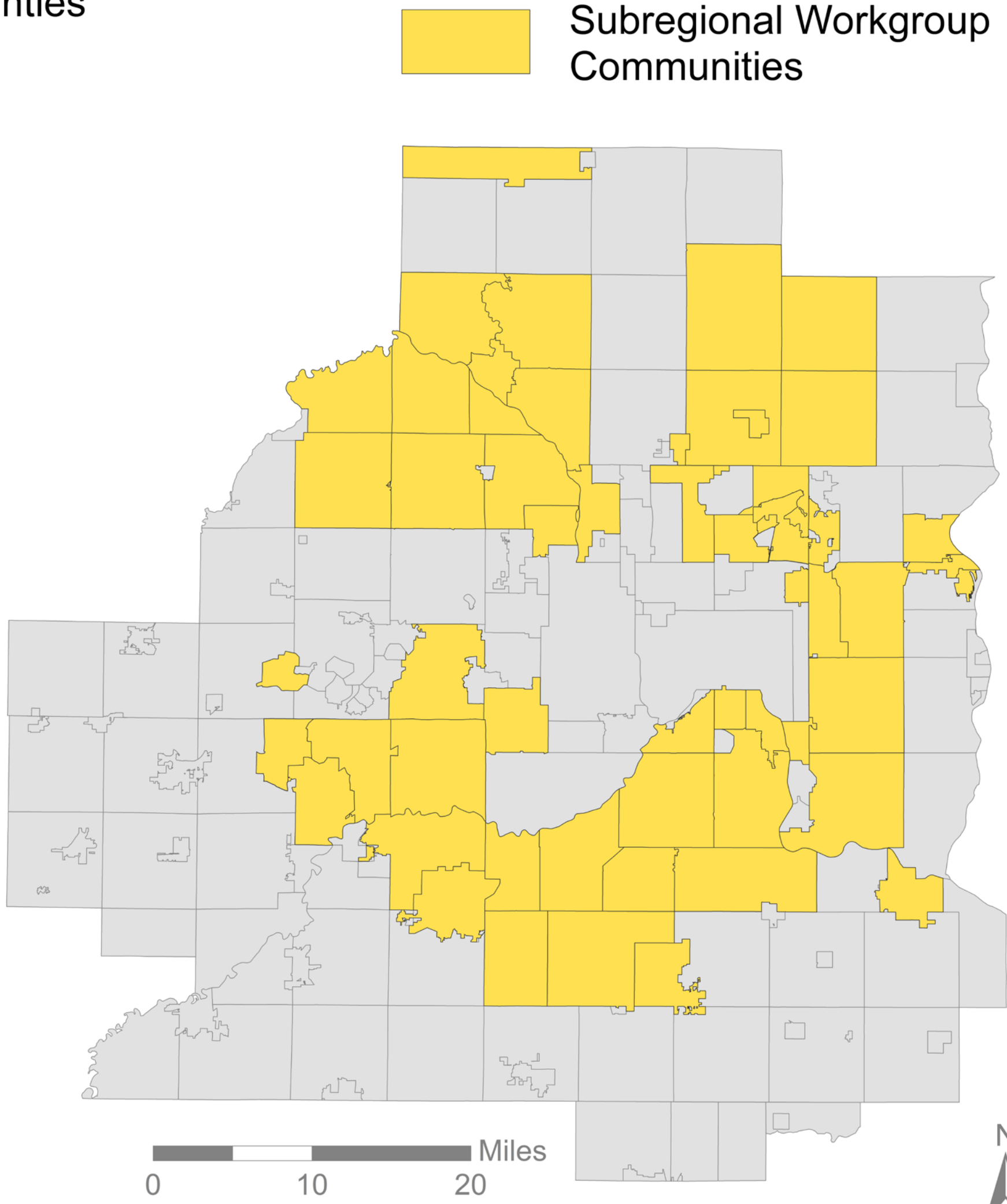
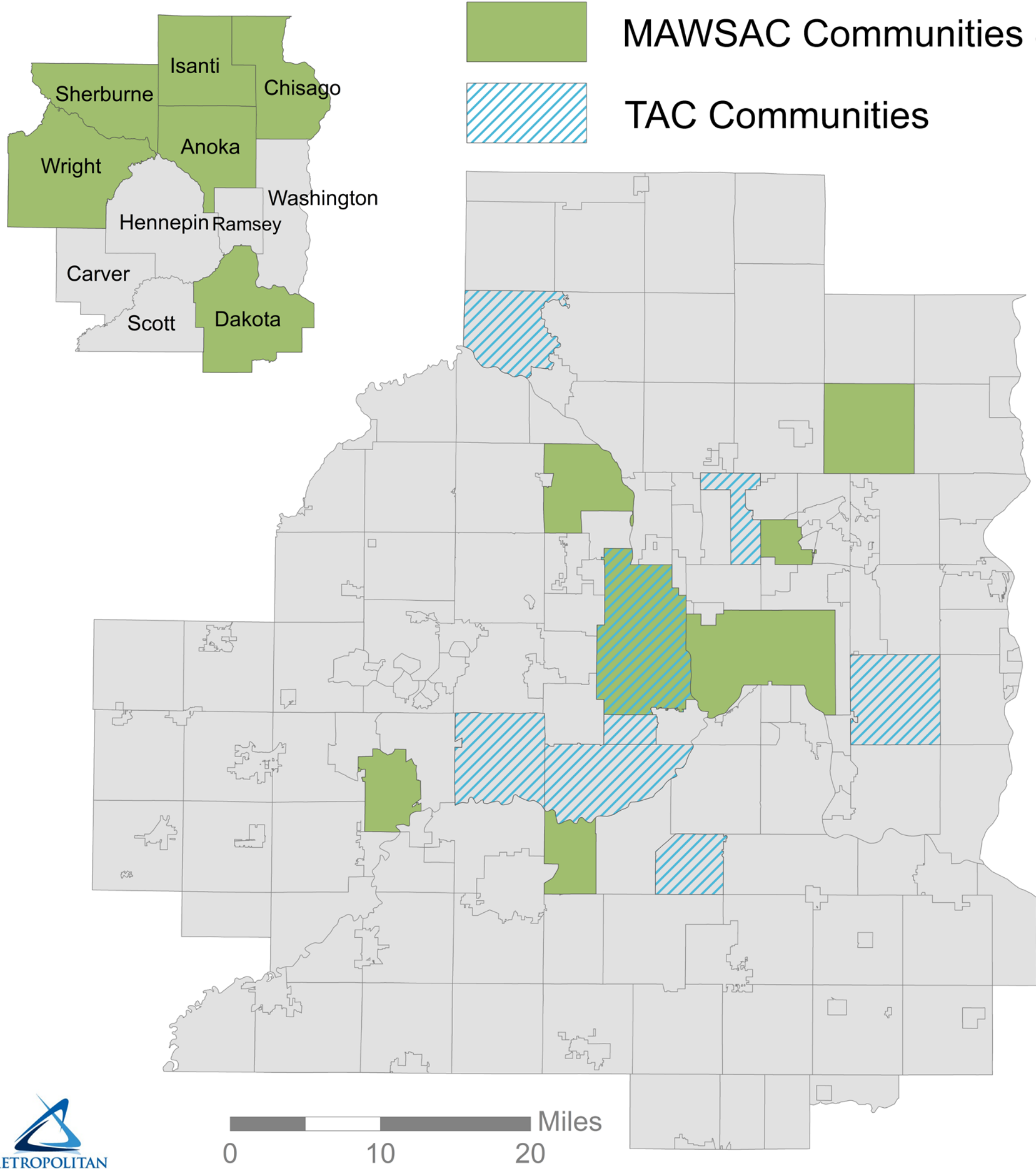
- **100+** municipal water supply systems
- **1,500** square miles designated for source water protection
- **10,000+** miles of local water supply distribution pipe
- **60,000** private domestic wells + **5,000** private business wells

- Drinking water supply management area for Minneapolis and St. Paul intakes on the Mississippi River
- Drinking water supply management area for public wells

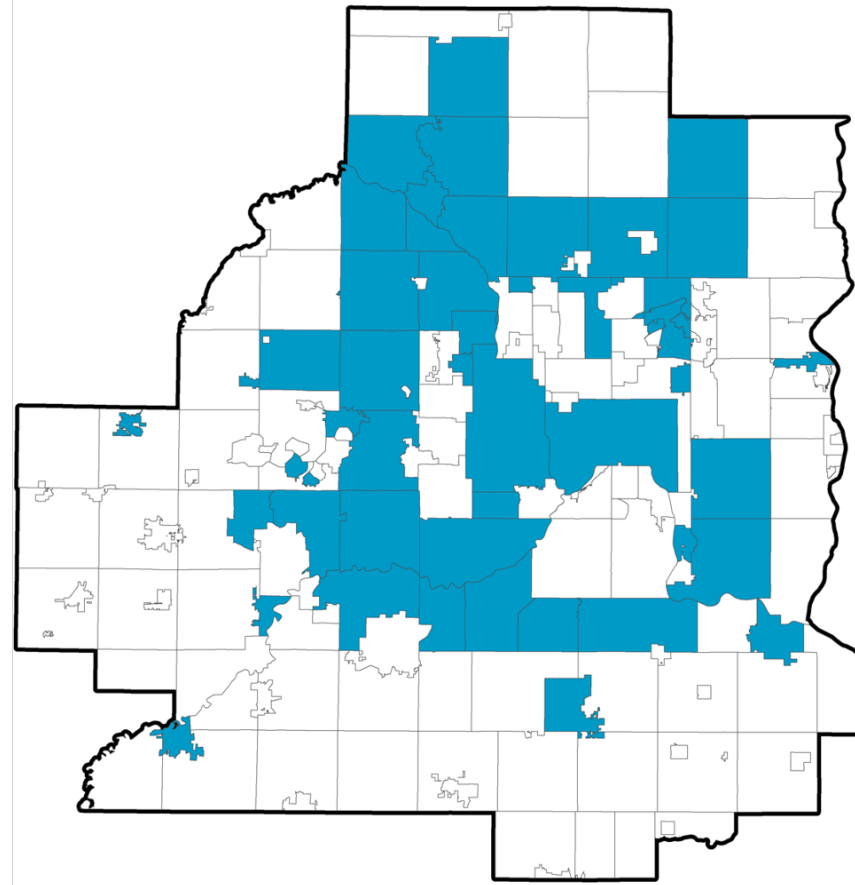
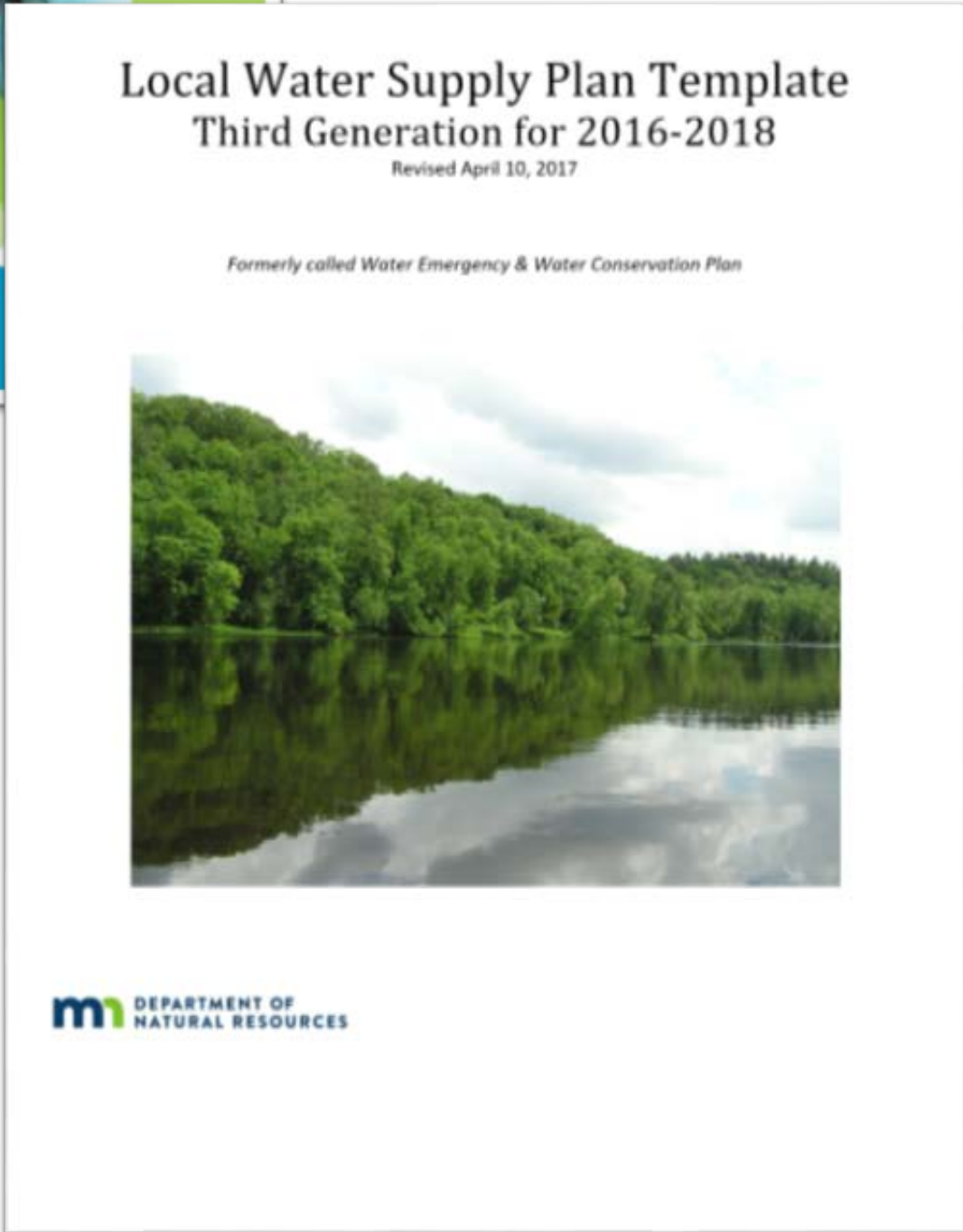
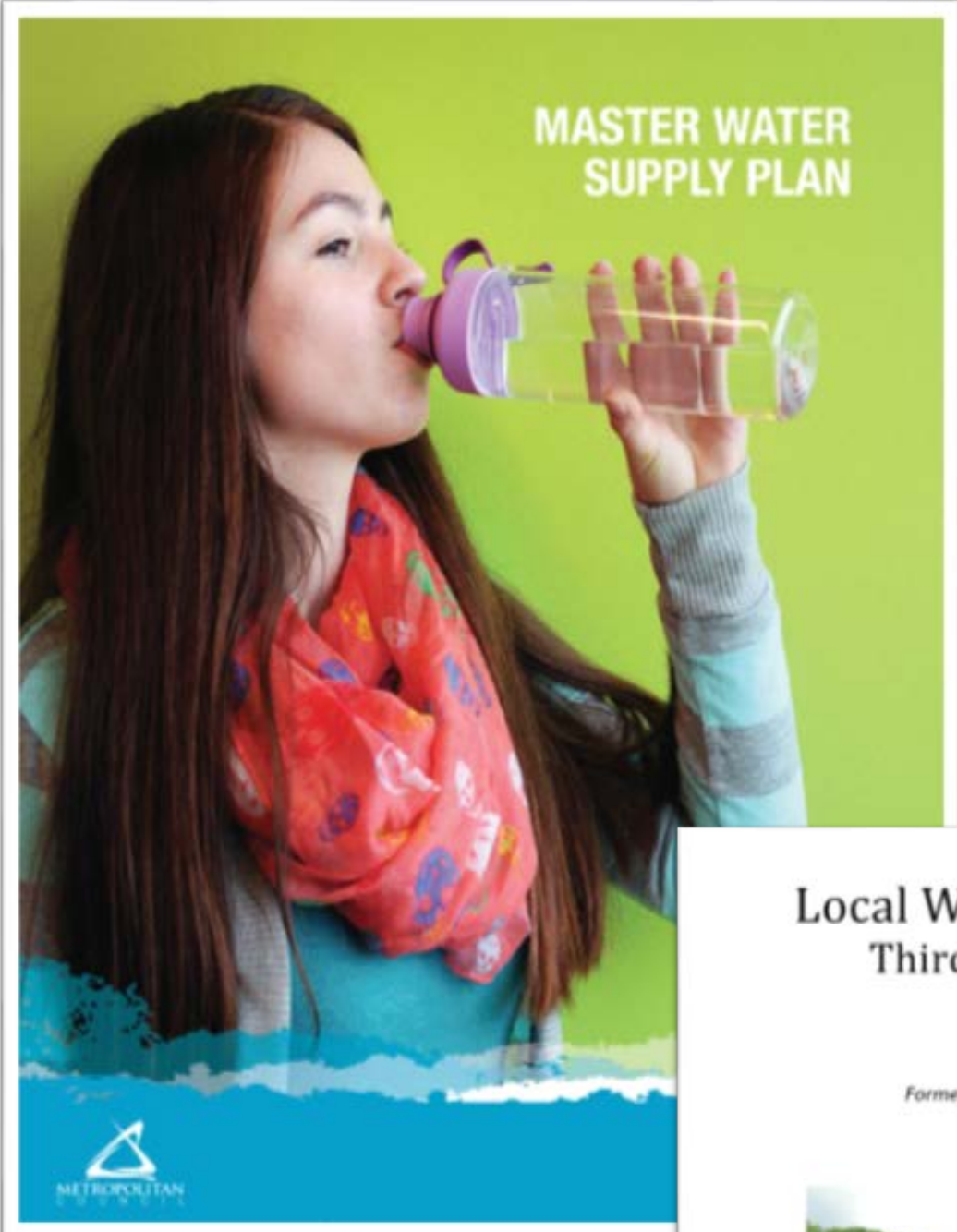




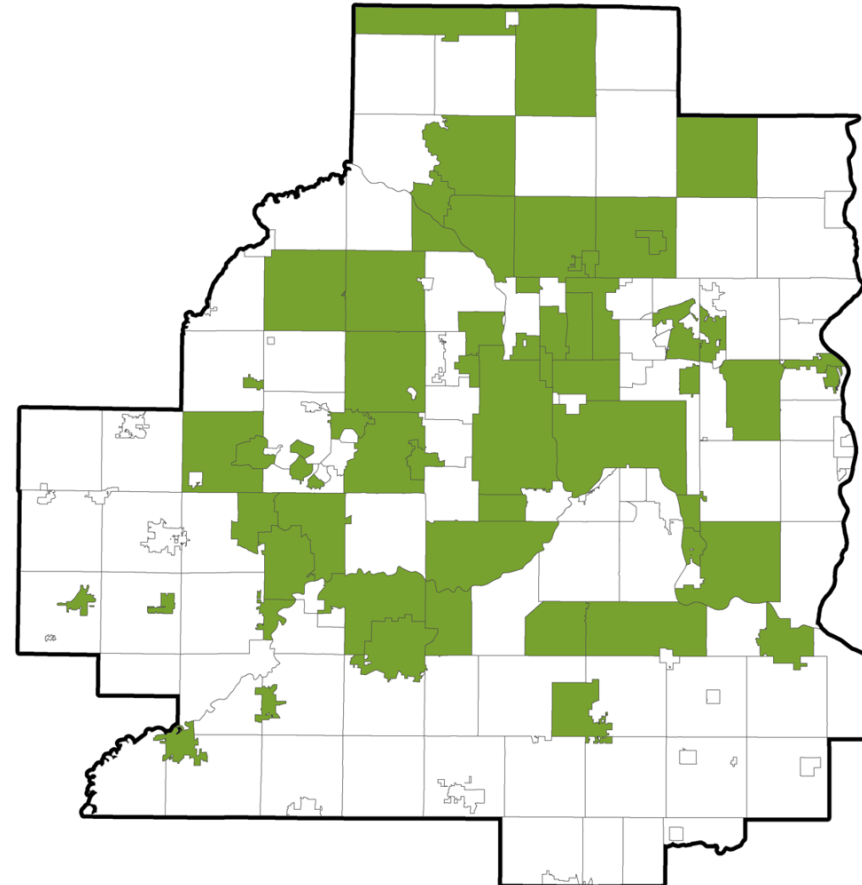
# Collaboration



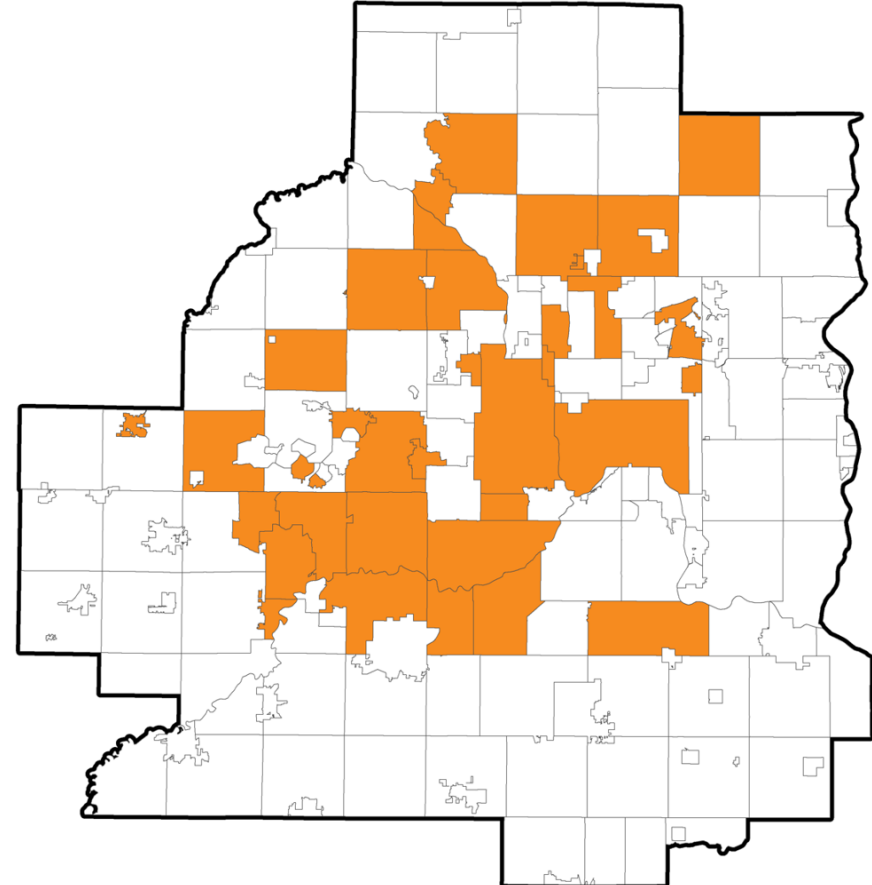
# Planning



**NEW WELLS**  
50+ communities



**DISTRIBUTION**  
60+ communities



**WATER TREATMENT**  
35+ communities

Source: 2040 Local water supply plan updates submitted as part of community comprehensive plans. Not all local plan updates have been submitted to the Council; this information will be updated as plans are received.



# Implementation for Sustainability

## The Master Water Supply Plan defines water supply sustainability as:

- Use of existing water supply infrastructure and investments is maximized
- Surface water use is planned and implemented to maintain protected flows
- Groundwater used is planned and implemented to:
  - Maintain aquifer levels consistent with safe-yield conditions (MN Rules 6115.0630) and/or maintain projected surface water flows and water levels
  - Minimize impacts to groundwater flow directions in areas where groundwater contamination has, or may, result in risks to the public health
- Demand that exceeds sustainable groundwater withdrawal rates is supplied by the most feasible combination of efficiency and conservation, surface water, and/or wastewater and stormwater reuse
- Legislative changes are made that align agency directions on all aspects of water supply
- Water users and suppliers recognize uncertainty and seek to minimize risk

# *Highlight:* *MnTAP Water Efficiency Intern Program*



- Launched in 2012
- Student interns placed in metro area organizations
- Between 2013 and 2017 20 projects made 159 recommendations
- As of 2018, the intern recommendations that were implemented save 87 million gallons/year and \$486,000/year
- Still going strong!

# Next Steps

## A. Continue to work on LUAC water supply interests

- How can we equip you to promote programs in your community, share your community's ideas with the Council? What resources would be helpful?

## B. Take on new questions such as:

- How to implement equity in water supply activities?
- How to strengthen land use and water supply planning connections?
- What is the impact of climate change on our resources and operations in the water supply sector?
- What can we do to prevent contamination of our water supply sources, respond more effectively to emerging contaminants?

# Questions

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