

*Minnesota WWTF
Transition Update*

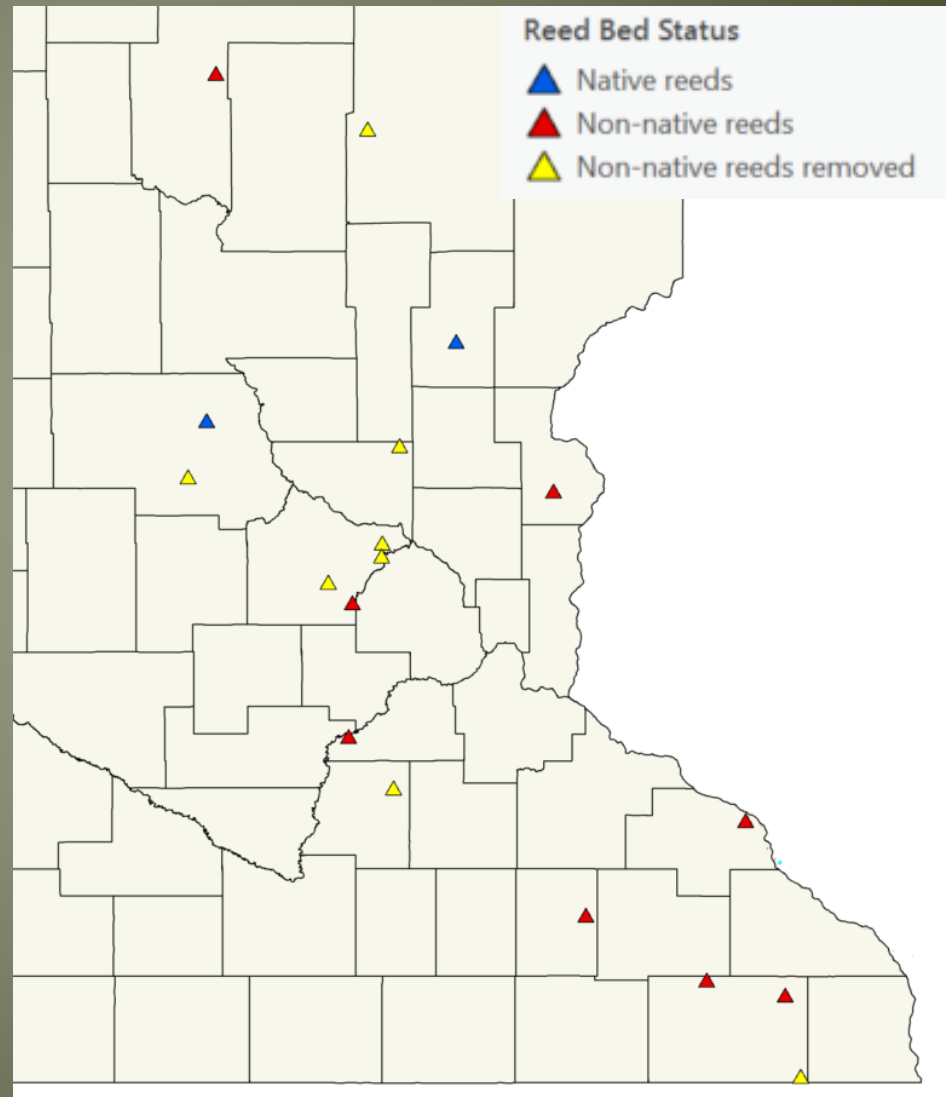
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Status of WWTF Transition

2 - Native *Phragmites*
8 - Invasive *Phragmites*
8 - Mostly/Fully eradicated

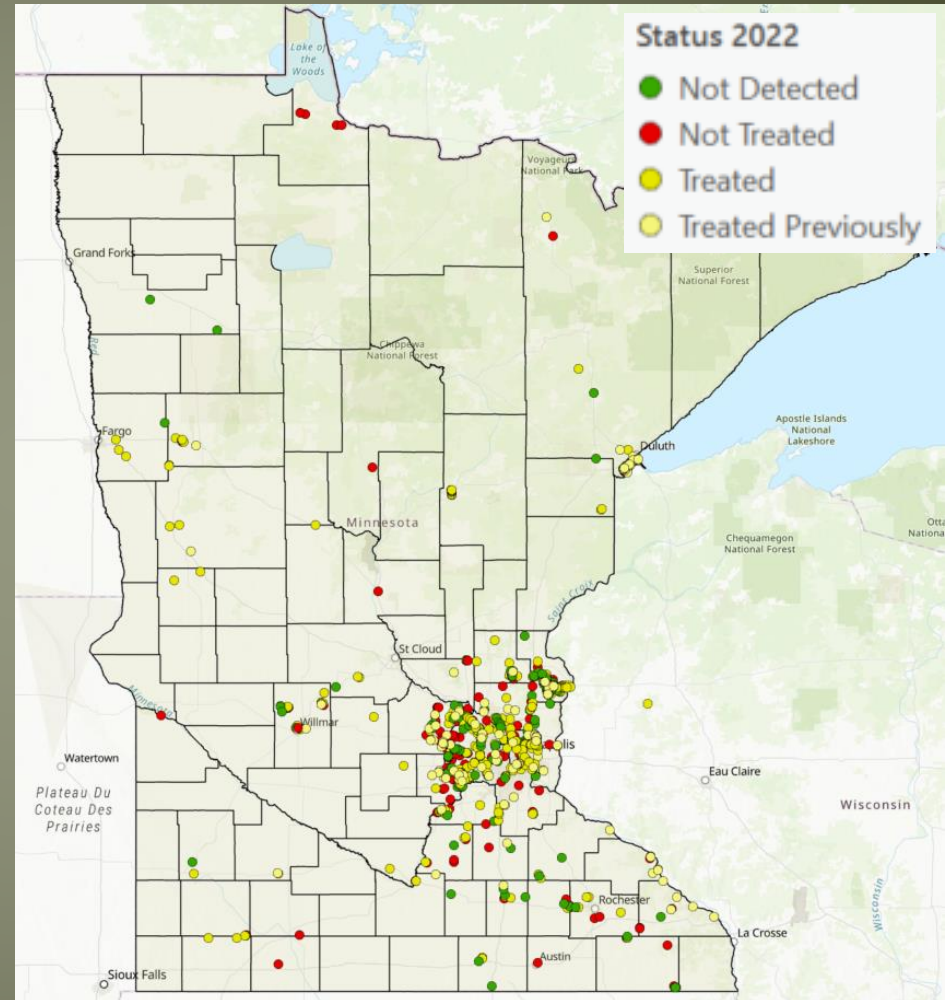
- Operate reed beds as drying beds
- Install screw press technology
- Transition to native *Phragmites*
- Use invasive *Phragmites* until alternative species ID'd



Statewide Distribution

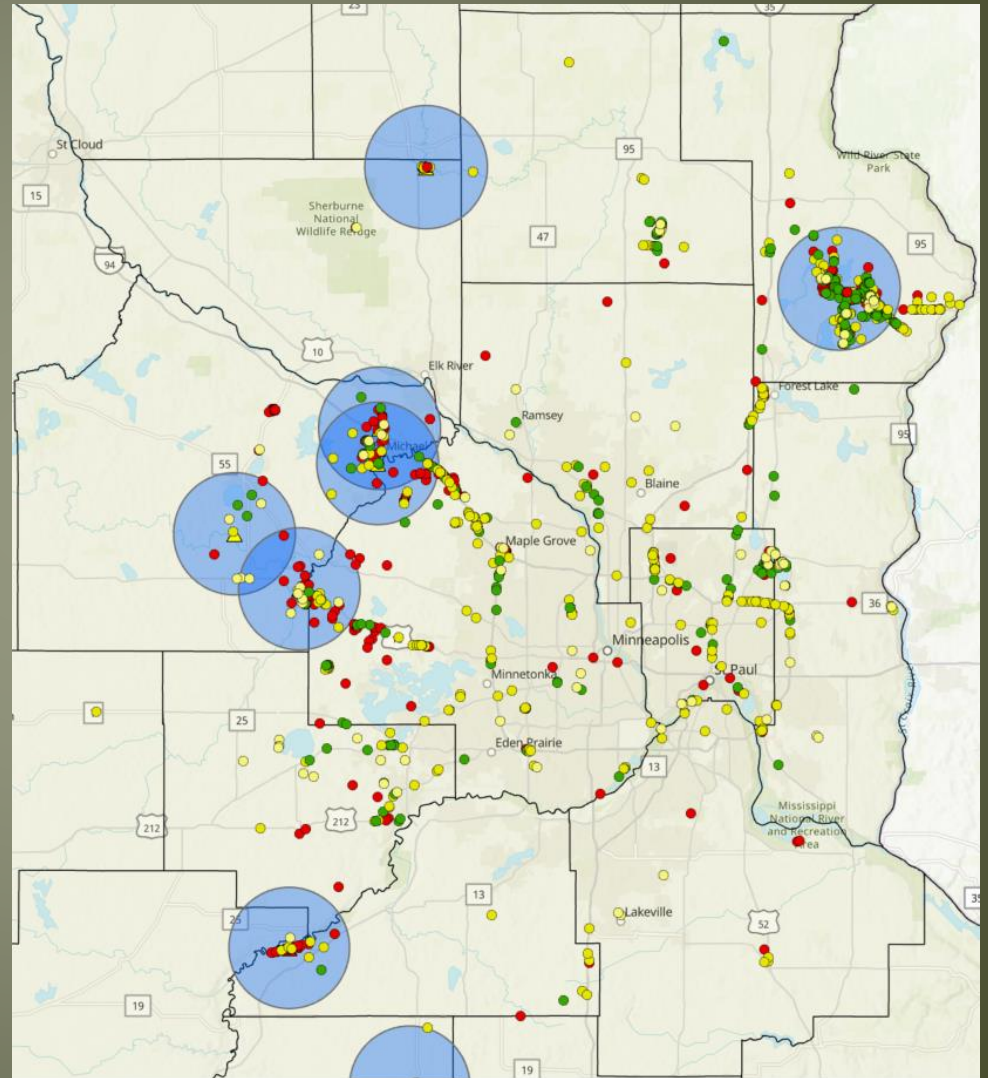
1900 verified populations

- 49 of 87 counties
- Percent of populations:
 - Metropolitan - 75%
 - Outstate – 25%



Metro Area Distribution

11- County Metropolitan Area
= 7 Wastewater Treatment Facilities



Develop Haul Out Protocols

- Transition when beds full
- *Apply herbicide to reeds
- Haul out biosolids w/ rhizomes
- Haul out & replace or screen sand
- Land apply or landfill



Reed Bed as a Growing Environment

- High Moisture
- High Nutrient
- Volatiles
- Sedimentation
- pH
- FOG
- Commercial/Industrial
vs. Residential



Develop Planting Protocols

Establish native reeds from

- Rhizomes
- Stem cuttings
- Root stocks
- Plugs



Chetek WI - New Reed Beds

- May not use invasive reeds
- Contract with a grower to produce native plugs
- Online spring 2024

What can be learned in WI
to move MN forward



2023 Treatment Status*

Year 3 of widespread treatment

- 1100+ (58%) Sites Visited
- 420 (22%) Not Detected
- 647 (34%) Treated

[302 Not Detected 2022]

[897 Sites Treated 2022]

* Not all partners have reported
2023 treatments yet



Questions?

More information at:
www.mnphrag.org

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