Assessment of Public Benefits of Protecting Source Water

Preliminary results – maps and visualization

February 28, 2019







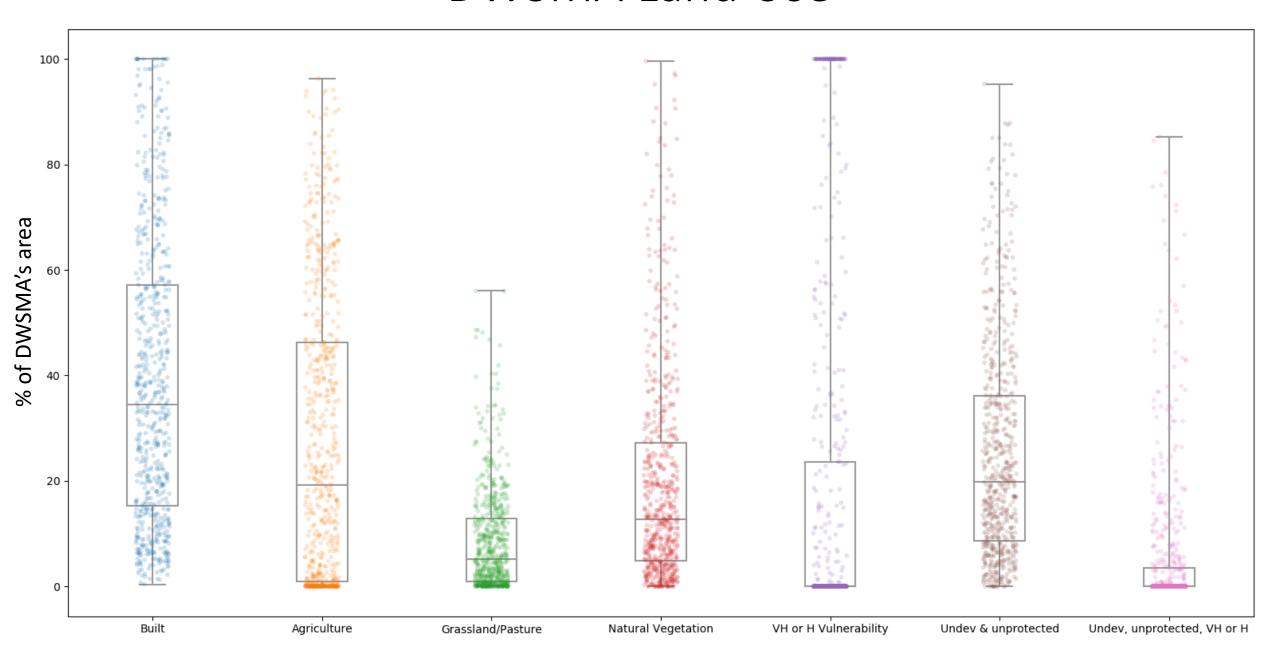


Contents:

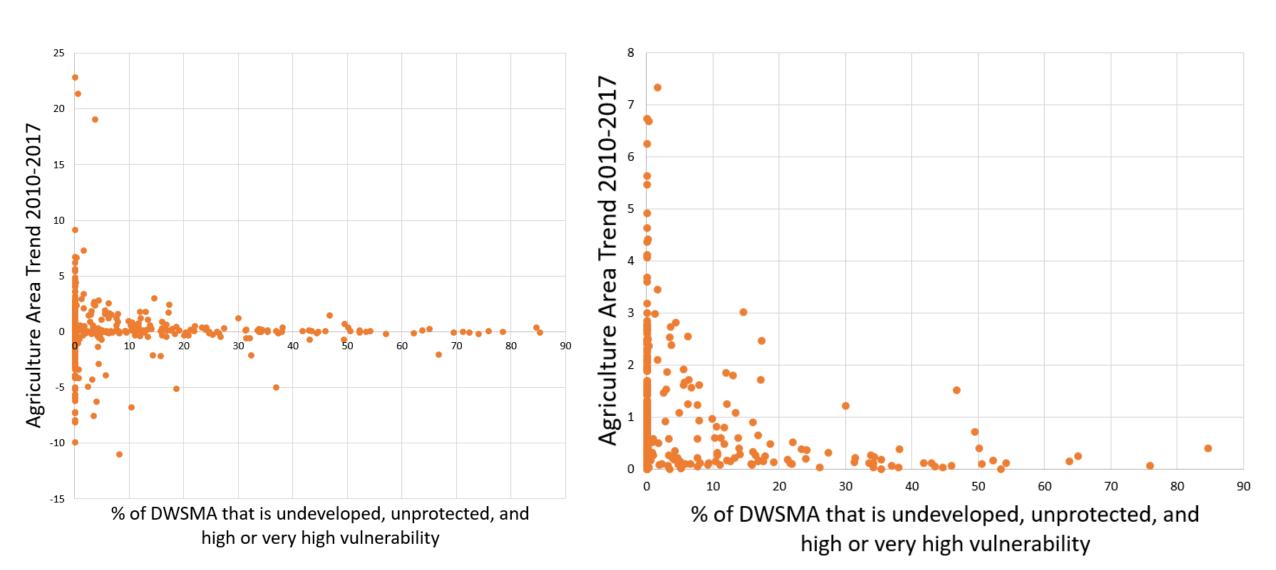
- Land use trends for DWSMAs
- Prioritization visualization with biophysical and socioeconomic data
- Co-benefits visualization at the HUC8 level.
- Statewide resident survey

Land use trends for DWSMAs

DWSMA Land Use

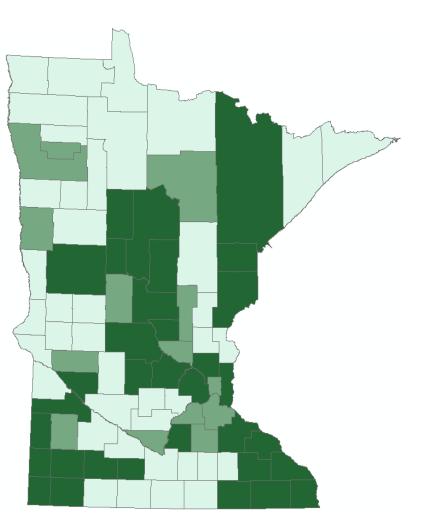


Slope of trend line for % ag 2010-2017 and groundwater vulnerability

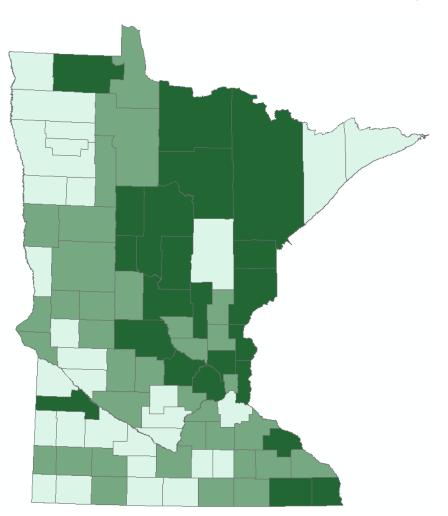


Prioritization visualization with biophysical and socio-economic data

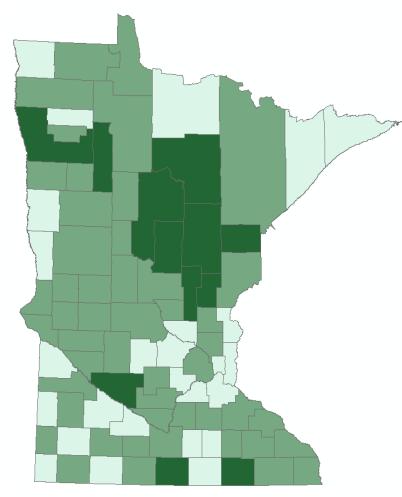
Counties with sourcewater areas high in ...



Geologic Vulnerability

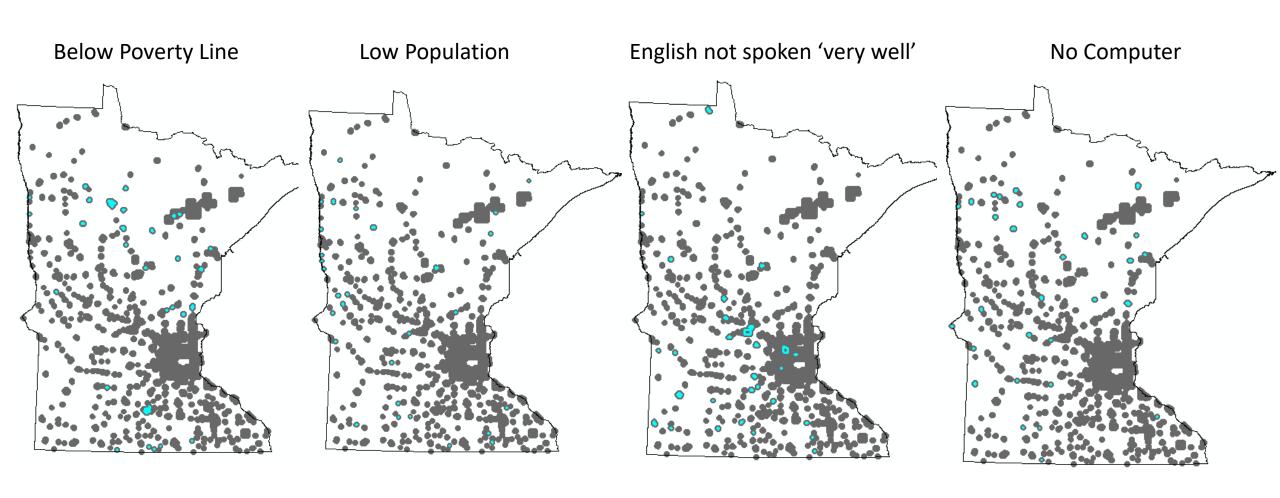


Unprotected & Undeveloped land

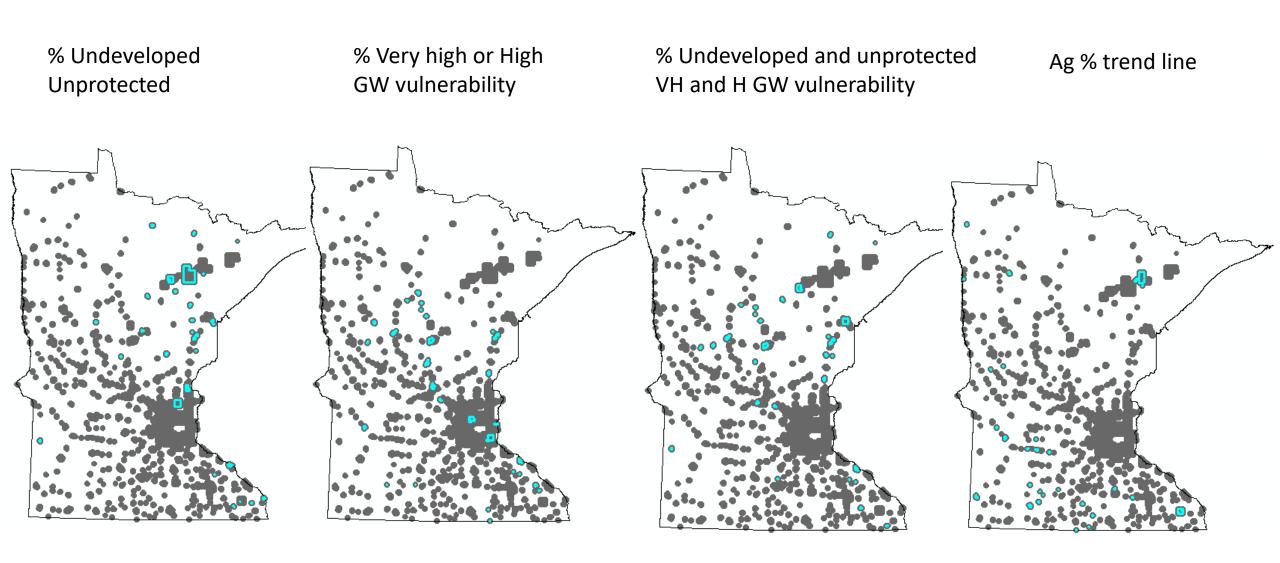


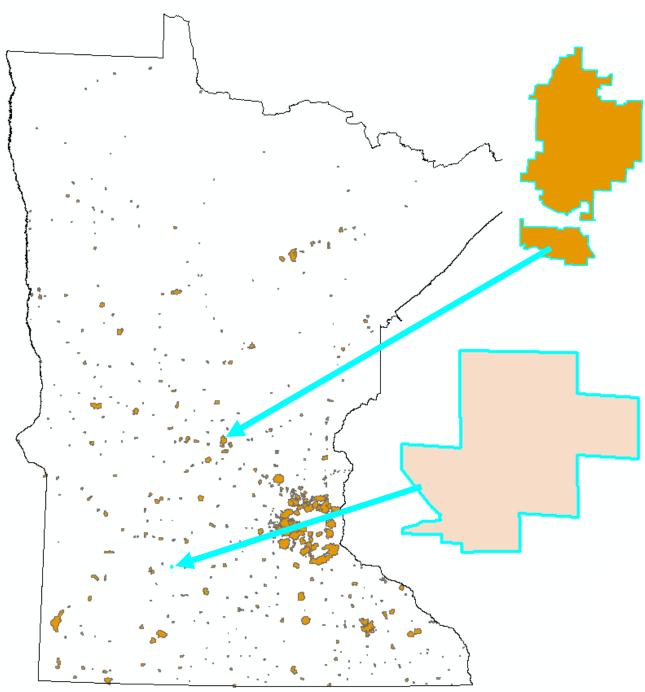
Poverty

Top 10% of DWSMAs when sorted by ...



Top 10% of DWSMAs when sorted by ...

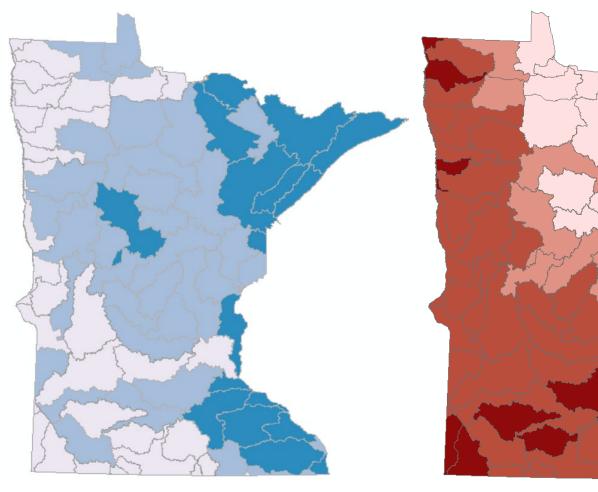




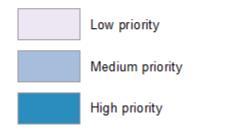
Sourcewater Area Name	Sartell
Total Population	16,442
% public/protected	0
% Undeveloped	54
% High geologic vulnerability	100
% Undeveloped & High geologic vulnerability	54

Sourcewater Area Name	Franklin
Total Population	529
% Poor	35.5
% Not Insured	17.4
% Language other than English	66.7
% Renter	32.1
% No Vehicle	7.7

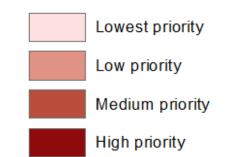
Co-benefits visualization at the HUC8 level

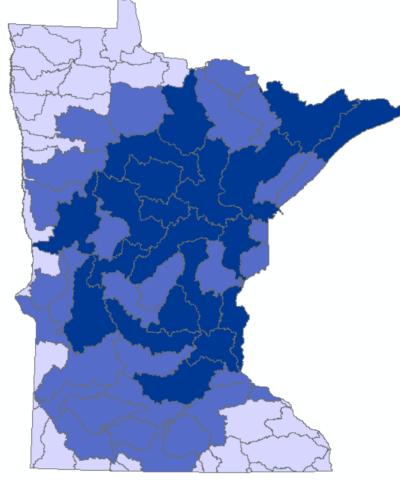


Trout miles and visitation

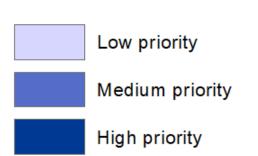


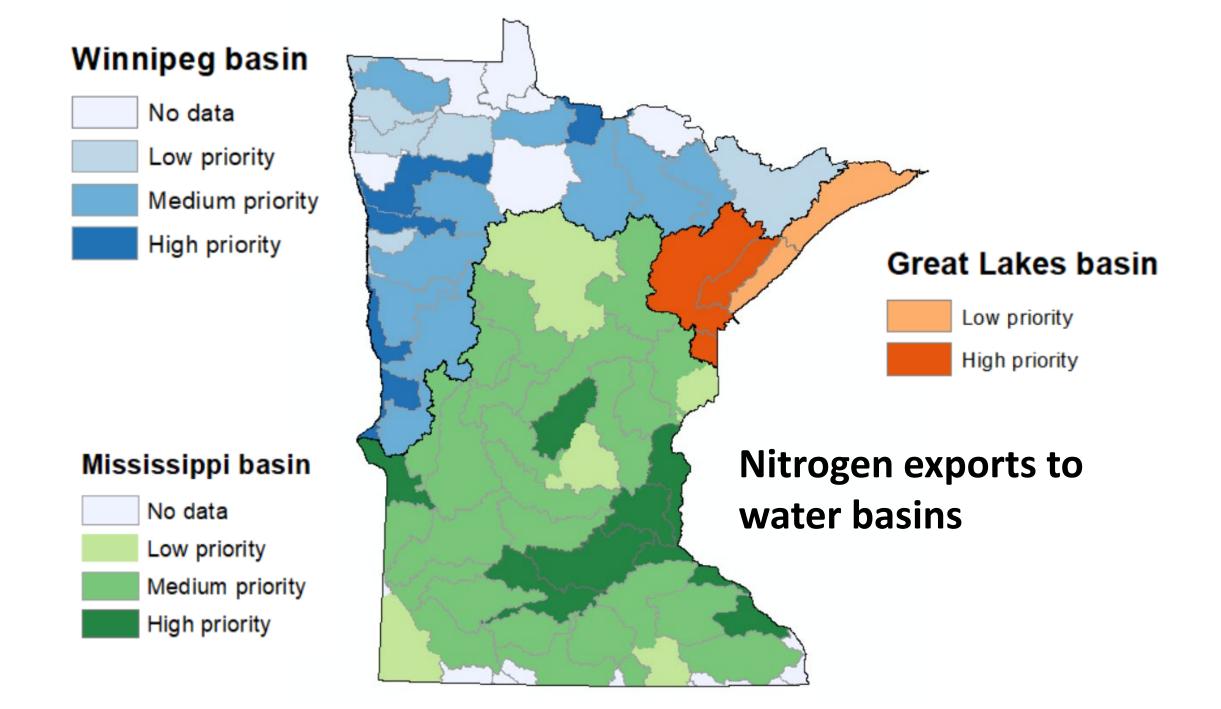
People reliant on groundwater and contamination susceptibility





Lake P sensitivity and visitation



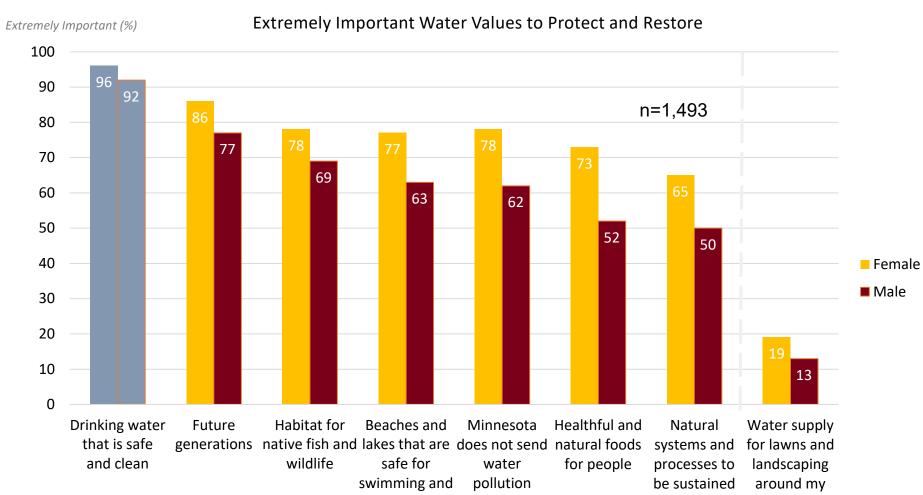


Minnesota Water Values

A Statewide resident survey



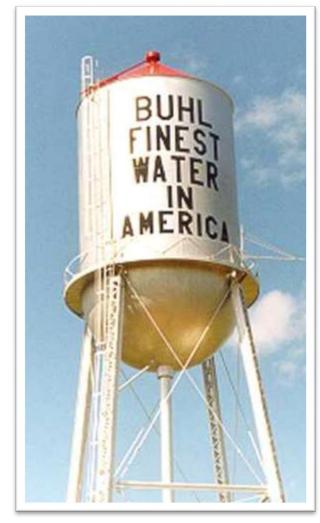
Water Has Many Different Values



downstream

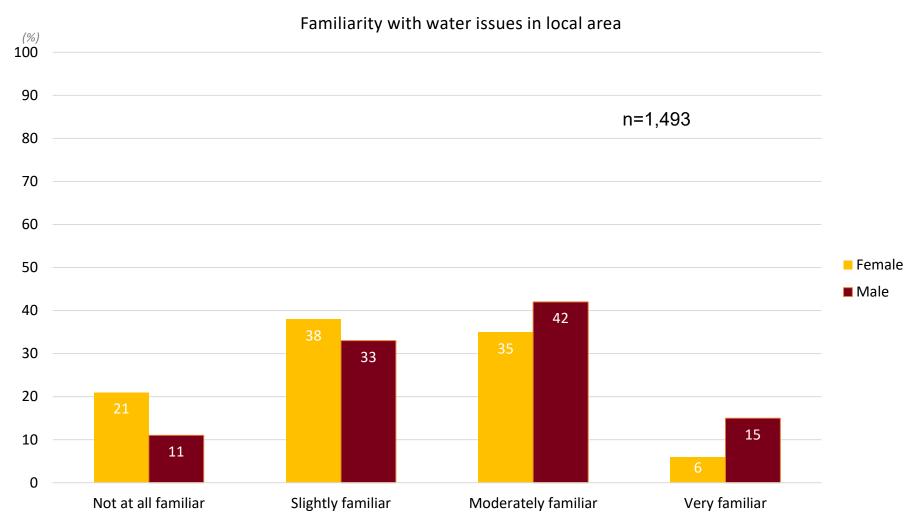
playing

home



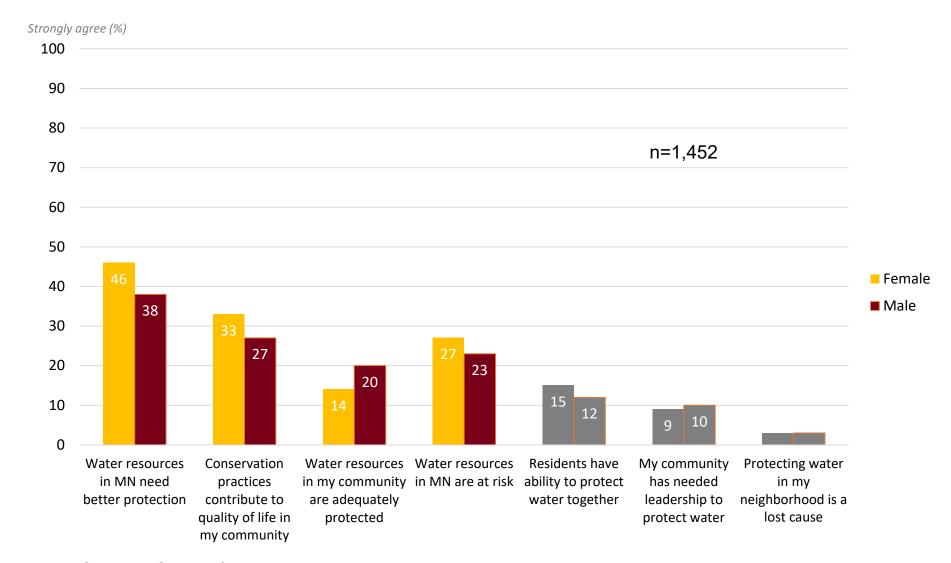


Few are very familiar with local water issues



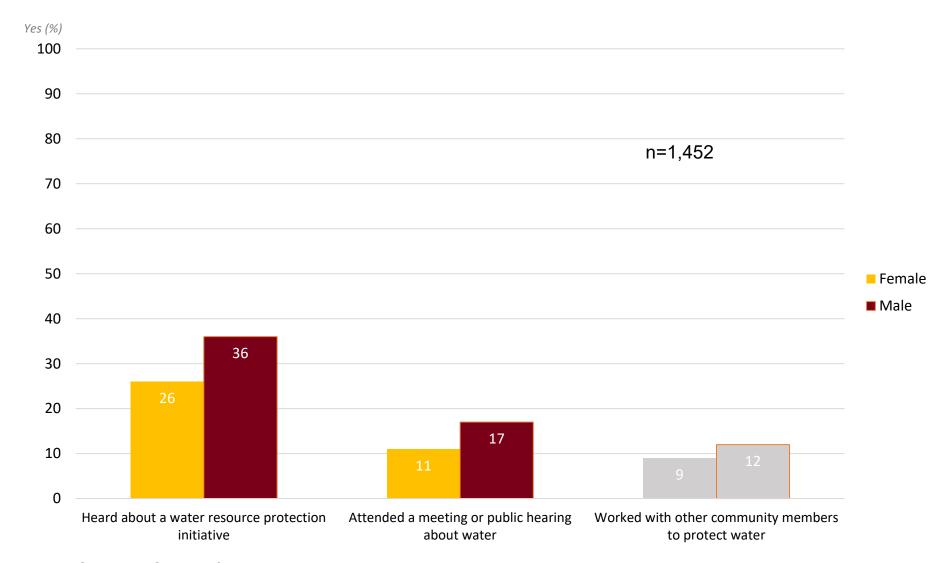


Capacity-building for water protection is needed





Civic Water Action in the Past 12 Months

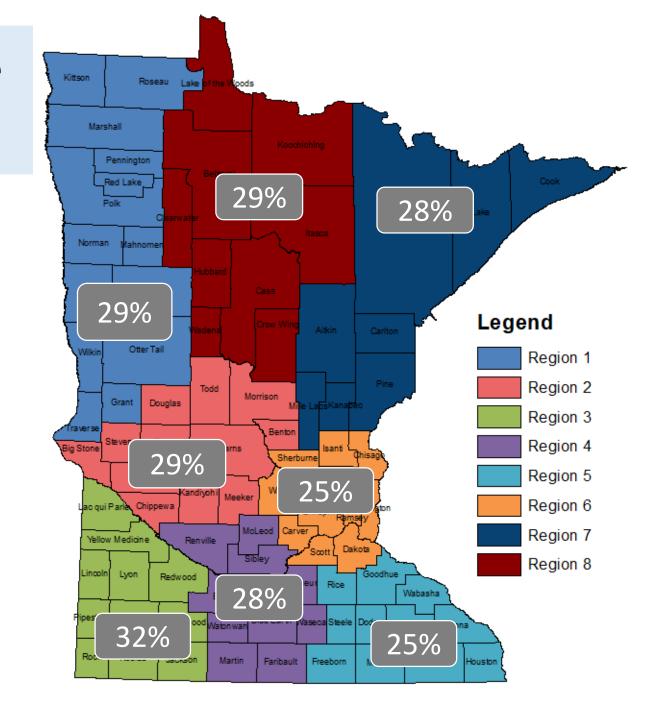


Minnesota Water Values

Regional profiles and comparisons

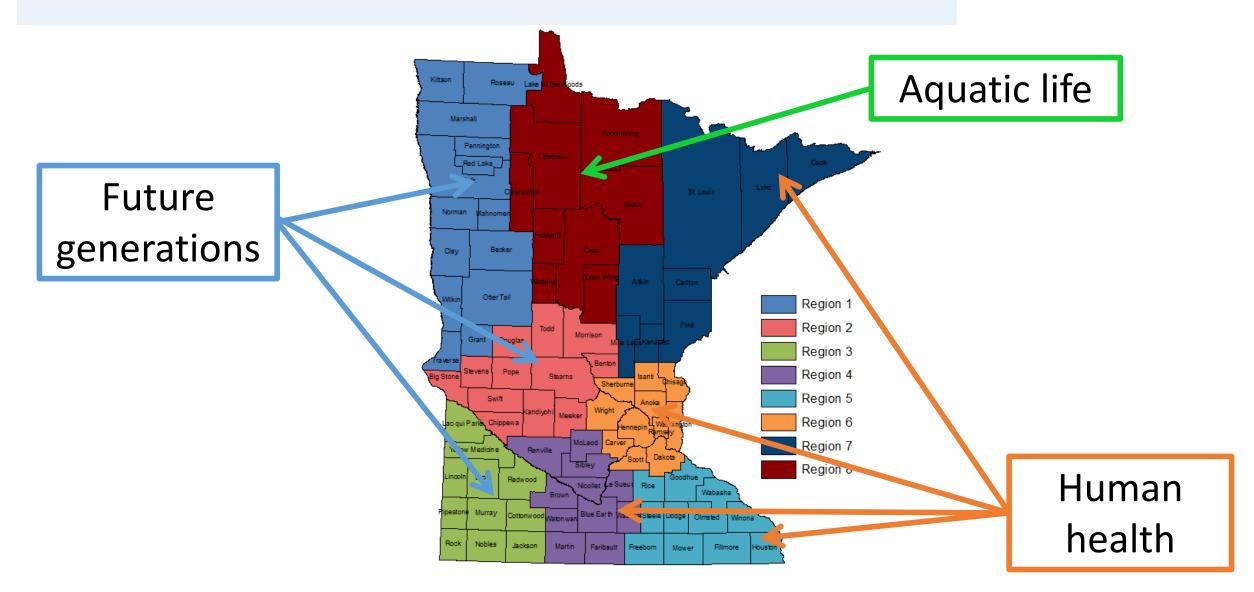


Response rate by region



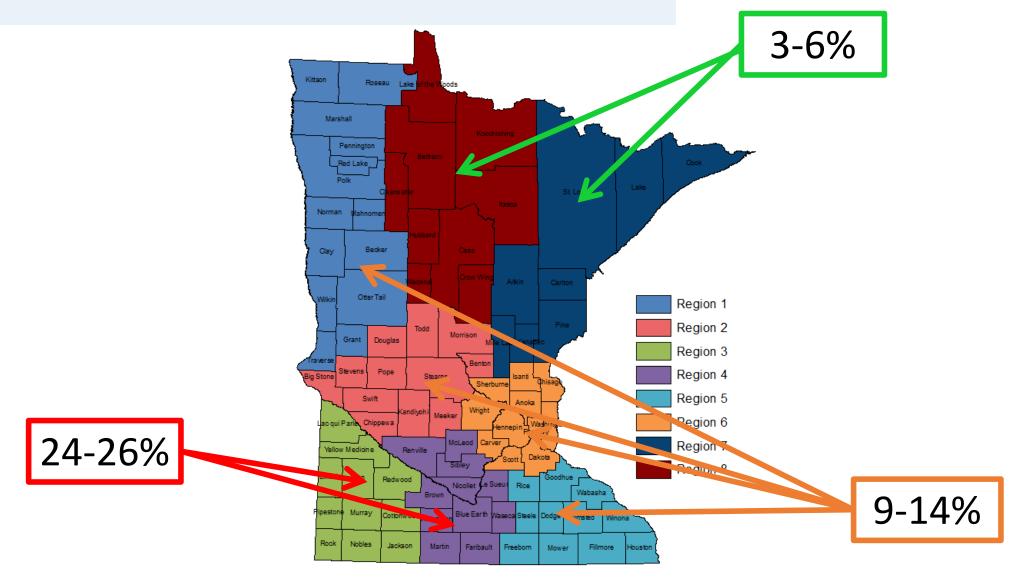


Top three concerns about consequences of water problems





Rated <u>local</u> water quality as "poor" or "very poor"





Rated Minnesota water quality as "very good"

