

# Climate Change Impacts to Ginibiiminaan (Our Water)

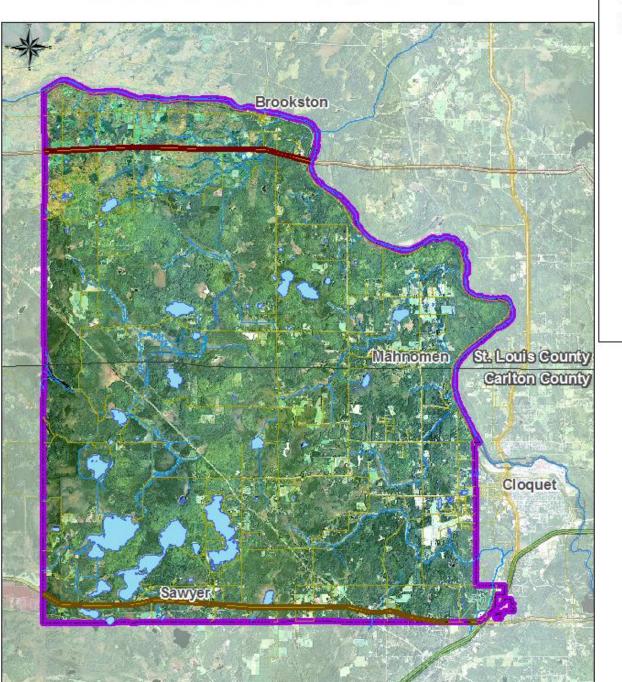
Energy and Climate Policy and Finance Division Minnesota House of Representatives February 13, 2020

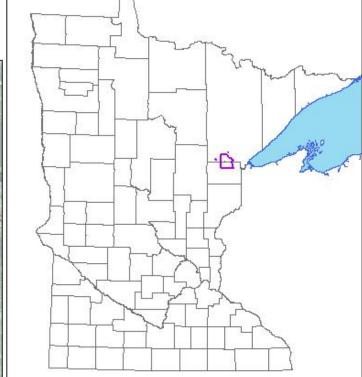
Nancy Schuldt, Water Projects Coordinator





#### Fond du Lac Reservation Location





Major\_rivers

Fond du Lac Boundary

US Hwy 2

State Hwy 210

State Hwy 33

Interstate 35

Lakes

— Rivers and Streams

0 1 2 4 6 8 Miles



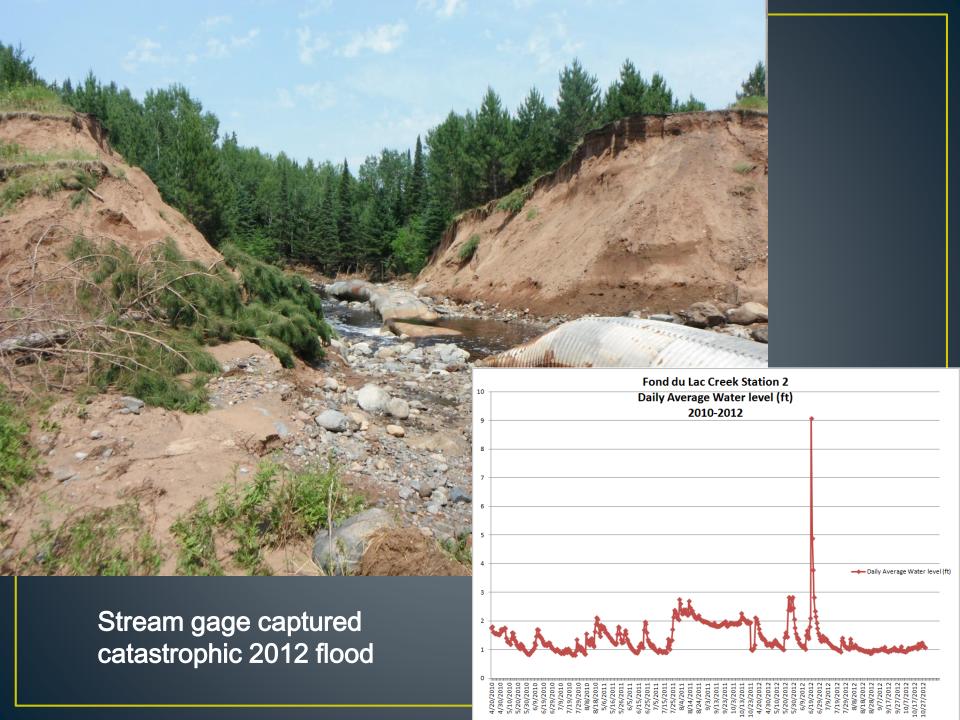


#### Climate Change Impacts to Water Resources

- Loss of biodiversity
- Erosion and siltation in waterbodies
- Loss of headwater streams
- Loss of wetlands, especially peatlands and forested wetlands
- Groundwater drawdown
- Surface water pollution
- Introduction, spread of invasive species

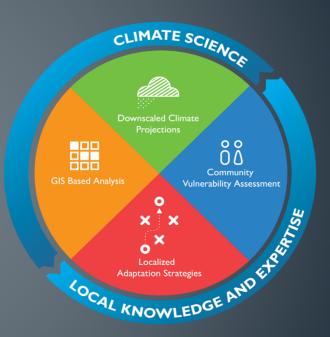






Climate Change
Vulnerability Assessment and
Adaptation Plan: 1854 Ceded
Territory Including the Bois
Forte, Fond du Lac, and Grand
Portage Reservations

- Evaluated key cultural/natural resources according to their vulnerability to climate change and their ability to adapt
- Informed extensive series of actions and policies to protect and mitigate





### Mercury Concerns

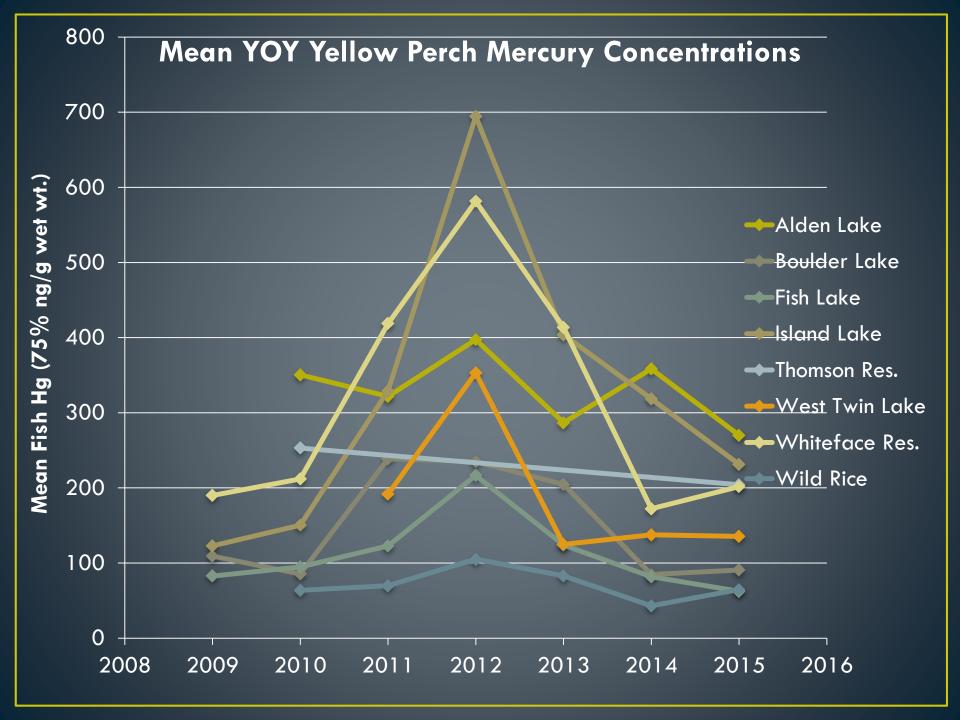
 Boreal forest/wetland ecoregion is especially sensitive to mercury deposition and methylation.

Some tribal members consume fish at a greater rate than the general population.

 Existing industrial sources in our watershed can enhance mercury methylation rates; warming climate can accelerate further

The statewide TMDL for mercury does not include the St. Louis River.





## Wild Rice

Exceptionally sensitive to:

- hydrology (flooding, drought)
- water quality (turbidity, nutrients)

