



Tests of Area Lake Water -- 2014 Report

INDIVIDUAL LAKE TSI VALUES

- **50+** U. Hay, Arrowhead, Mary, Emily
- **47-49** Kego, Daggett, Mitchell, Smokey Hollow, N. Roosevelt, Little Pine, Lawrence
- **46** U. Whitefish, Eagle, Leavitt, Big Pine
- **42-43** L. Whitefish, L. Hay, Cross, Pig, E. Fox, Goodrich, Bertha, M. Whitefish, Clamshell, W. Fox, S. Roosevelt
- **40-41** Island, Ruth, Butterfield, Rush, Velvet
- **36-39** O'Brien, Ox, Kimble, Ossawinnamakee, Big Trout, Star, Clear

The lower the TSI number the better --with less algae and clearer water.

5 Reasons to work for a lower TSI

LOWER TSI	HIGHER TSI
clearer water	cloudier water
less algae	more green algae
desirable for swimming	less/no swimming
more oxygen in water	less oxygen in water
game fish like this water	rough fish tendency

**WAPOA tests water on over 30 lakes
The result is a "TSI number."**

For every 1 point increase in TSI there is a 10% increase in algae in the water.

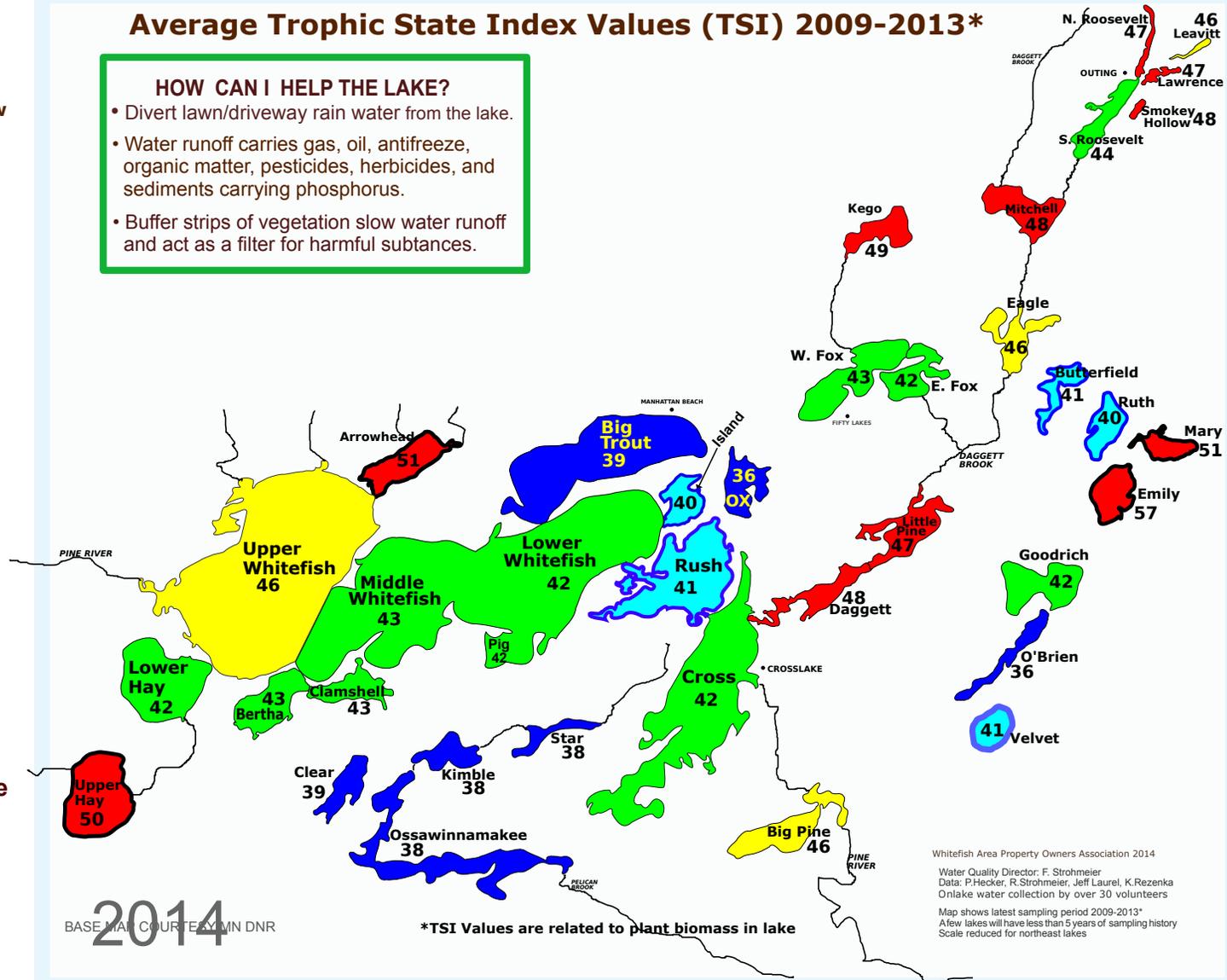
Rain water runs off our lawns into the lake and carries sediment with phosphorus attached.

Phosphorus enables algae in the lake water to grow at a great rate.

Average Trophic State Index Values (TSI) 2009-2013*

HOW CAN I HELP THE LAKE?

- Divert lawn/driveway rain water from the lake.
- Water runoff carries gas, oil, antifreeze, organic matter, pesticides, herbicides, and sediments carrying phosphorus.
- Buffer strips of vegetation slow water runoff and act as a filter for harmful substances.



BASE MAP COURTESY MN DNR
2014

*TSI Values are related to plant biomass in lake

Whitefish Area Property Owners Association 2014
Water Quality Director: F. Strohmeier
Data: P. Hecker, R. Strohmeier, Jeff Laurel, K. Rezenka
Onlake water collection by over 30 volunteers
Map shows latest sampling period 2009-2013*
A few lakes will have less than 5 years of sampling history
Scale reduced for northeast lakes