## whitefish area property owners association average trophic state index values\* for sampled lakes 2005-2009

## TSI RANGE

36-40 O'Brien, Ox, Ossawinnamakee, Clear

40-42 Big Trout, Kimble (Kimball), Island, East Fox

42-44 Rush, West Fox, Pig, Star, M.Whitefish, Cross Clamshell, L.Whitefish, Goodrich, Butterfield S.Roosevelt, Bertha, Lower Hay, Ruth

44-46 N.Roosevelt, Velvet, Lawrence, Leavitt

46-48 Smokey Hollow, Arrowhead, U.Whitefish, Mitchell

48-50 Eagle, Little Pine, Daggett

50+ Upper Hay, Mary, Kego, Emily

TSI less than 40 = Clear water and good oxygen levels

TSI 40-50 = Low oxygen levels at the bottom likely in summer

TSI 50 + Low oxygen in summer and abundant aquatic plants

All lake water contains algae--tiny plants that are invisible to the naked eye.

The TSI number estimates algal concentration by combining three different measurements.

A higher TSI means more algae in the water.

On the TSI scale a rise of 10 points means the amount of algae has doubled. So a lake with a TSI of 50 has twice as much algae as a lake with a TSI of 40.

A rise of just 1 point on the TSI scale is an increase of 10% in the algae content. So lake with a TSI of 43 has 30% more algae than a lake with a TSI of 40.

Base map courtesy of Minnesota Dept. of Natural Resources

\* http://www.pca.state.mn.us/water/lakecro.html created 2010

