

DeRuyter Reservoir Questions and Answers, 2014 CSLAP

Q1. What is the condition of our lake this year?

A1. Water quality conditions in DeRuyter Reservoir continue to show improvement- water clarity has increased for each of the last five years, due to lower algae levels.

Q2. Is there anything new that showed up in the testing this year?

A2. The HABs testing includes information about the types of algae found in the water samples. These results showed low open water total and blue green algae levels, with a mix of algae species found in each sample.

Q3. How does the condition of our lake this year compare with other lakes in the area?

A3. DeRuyter Reservoir has higher water clarity, and lower algae and nutrient levels, than most lakes in the area, and shoreline blooms are not commonly found. At times this higher clarity leads to higher aquatic plant (weed) coverage than in nearby lakes, although on average, plant coverage is similar in DeRuyter Reservoir than in other nearby lakes.

Q4. Are there any trends in our lake's condition?



















A4. Algae levels have decreased over most of the last decade, resulting in increased water clarity readings. This may be due to less input of erodible materials, based on a decrease in conductivity over this period. The higher clarity may have triggered more growth of aquatic plants, which may have degraded recreational assessments of the lake.






Q5. Should we be concerned about the condition of our lake? Are we close to a tipping point?

A5. DeRuyter Reservoir appears to be improving. The lake may still exhibit problems with occasional shoreline blooms (although these have not recently been reported) and nuisance weeds, but any measures already taken to reduce nutrient loading to the lake should be continued.

Q6. Are any actions indicated, based on the trends and this year's results?

A6. Individual stewardship activities such as pumping your septic system, growing a buffer of native plants next to the water bodies, and reducing erosion from shoreline properties and runoff into the lake are needed to maintain water quality by reducing nutrient and sediment loading to the lake. Visiting boats should be inspected to reduce the risk of new invasive species, since nearby lakes harbor several invasive plants not presently found in the lake.

Lake Use				
	PWL	Average Year	2014	Primary issue
Potable Water				Not applicable
Swimming				No impacts
Boating / Fishing				Invasive plants
Aquatic Life				No impacts
Aesthetics				Algae levels
Fish Consumption				Not applicable

 Supported
 Threatened
 Stressed
 Impaired
 Not Known