

ROUND LAKE

LAKE INFORMATION

MN Lake ID	18-0373-00
County	Crow Wing
Ecoregion	Northern Lakes & Forests
Major Drainage Basin	Upper Mississippi River
Surface Area (acres)	1,650
Littoral Area (acres)	627
Max Depth (feet)	51

WATER QUALITY DATA

MPCA Site #	204
Years Monitored	1985-2022

Total Phosphorus Mean ($\mu\text{g/L}$)	19.6
Total Phosphorus Min ($\mu\text{g/L}$)	5.00
Total Phosphorus Max ($\mu\text{g/L}$)	78.0
Number of Observations	95
Chlorophyll a Mean ($\mu\text{g/L}$)	5.2
Chlorophyll a Min ($\mu\text{g/L}$)	< 1.0
Chlorophyll a Max ($\mu\text{g/L}$)	23.0
Number of Observations	93
Secchi Depth Mean (feet)	10.7
Secchi Depth Min (feet)	5.0
Secchi Depth Max (feet)	25.5
Number of Observations	534

ECOREGION COMPARISONS: 2022 DATA

Parameter	NLF Range	Round Lake
Total Phosphorus ($\mu\text{g/L}$)	14-27	Within Range
Chlorophyll a ($\mu\text{g/L}$)	< 10	Within Range
Secchi Depth (feet)	7.8-15.1	Within Range

SUMMARY

Round Lake is a Mesotrophic lake in the heart of the Brainerd Lakes Area. The water quality of Round Lake is good compared to other lakes in the area and shows improving trends for chlorophyll-a (measure of algae growth) and Secchi depth (water clarity). Some of this “improvement” is likely due to the presence of zebra mussels. As filter feeders, zebra mussels filter plankton and algae out of the water which can increase the water clarity and disrupt the normal food chain of the lake. Total phosphorus shows no trend over the past 15 years, but appears to be increasing over the past 10 years.

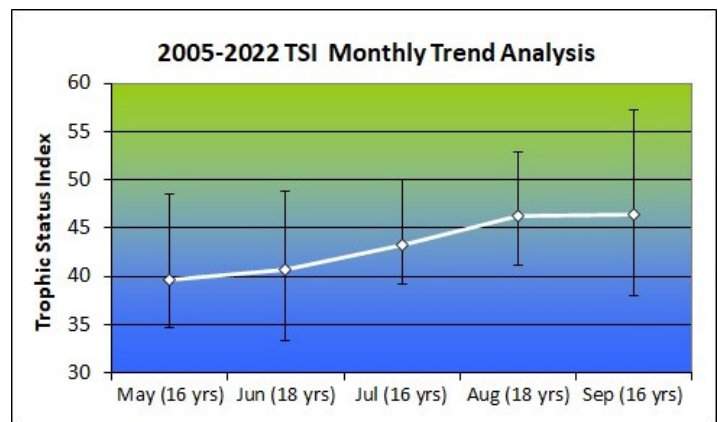
TROPHIC STATE INDEX

Trophic State Index Mean	44
Trophic State	Mesotrophic

15-YEAR TRENDS

Total Phosphorus	No Trend
Chlorophyll a	Improving
Secchi Depth	Improving

SEASONAL TREND ANALYSIS



Prepared by:
A.W. Research Laboratories
 16326 Airport Road
 Brainerd, MN 56401

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