

# Spider Lake

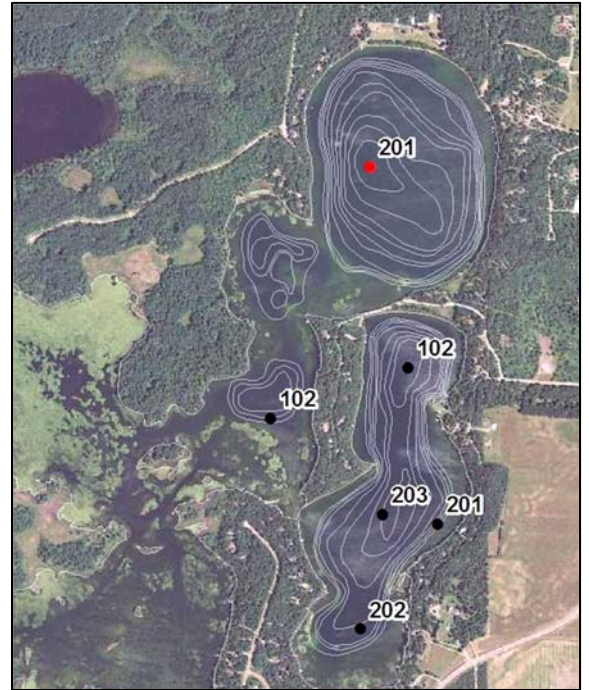
# Hubbard County

## Summary

Spider Lake has good water quality that's better than the expected ecoregion ranges. Long-term trend analysis shows that the water quality is stable. Potential lake impacts could come from shoreline runoff, septic systems and the inlet to the lake. Residents can continue best management practices to protect the water quality into the future.

## Lake Vitals

MN Lake ID:	29-0117-01
Ecoregion:	Northern Lakes and Forests
Major Drainage Basin:	Upper Mississippi River
Surface area (acres):	569
Littoral area (acres):	405
% Littoral area:	71%
Max depth (ft), (m):	96, 29.3
Inlets / Outlets:	1 inlet / 1 outlet
Public Accesses	1
Development Class:	Recreational Development
Aquatic Invasive Species:	None Listed



## Water Quality Characteristics

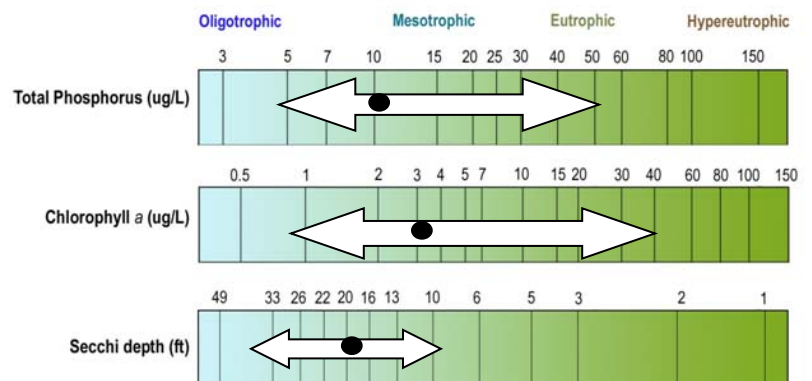
Years monitored: 1997- 2017

Parameters	Historical
Phosphorus Mean (ug/L):	10.1
Phosphorus Min (ug/L):	<5
Phosphorus Max (ug/L):	50.0
Number of Observations:	101
Chlorophyll-a Mean (ug/L):	3.1
Chlorophyll-a Min (ug/L):	<1
Chlorophyll-a Max (ug/L):	39.0
Number of Observations:	100
Secchi Depth Mean (ft):	19.0
Secchi Depth Min (ft):	10.0
Secchi Depth Max (ft):	36.0
Number of Observations:	100

## Trophic State Index

Trophic State: Oligotrophic (36.8)

The figure below shows the minimum and maximum values with the arrows and the mean with the black dot.



## Long-term Trends

Primary site only. Recommend minimum of 8-10 years of data with 4+ readings per season. Minimum confidence accepted by MPCA is 90%

Data Quality	Excellent
Total Phosphorus:	No Significant trend exists
Chlorophyll-a:	No Significant trend exists
Secchi Depth:	No Significant trend exists

## Ecoregion Comparisons

(Primary site only. Comparisons are based on interquartile range, 25th - 75th percentile, for ecoregion reference lakes)

Ecoregion:	Northern Lakes and Forests
Total Phosphorus:	Below Expected range
Chlorophyll-a:	Within expected Range
Secchi Depth:	Above Expected Range