

Lake Details

Lake ID: 18003800

Acres: 889

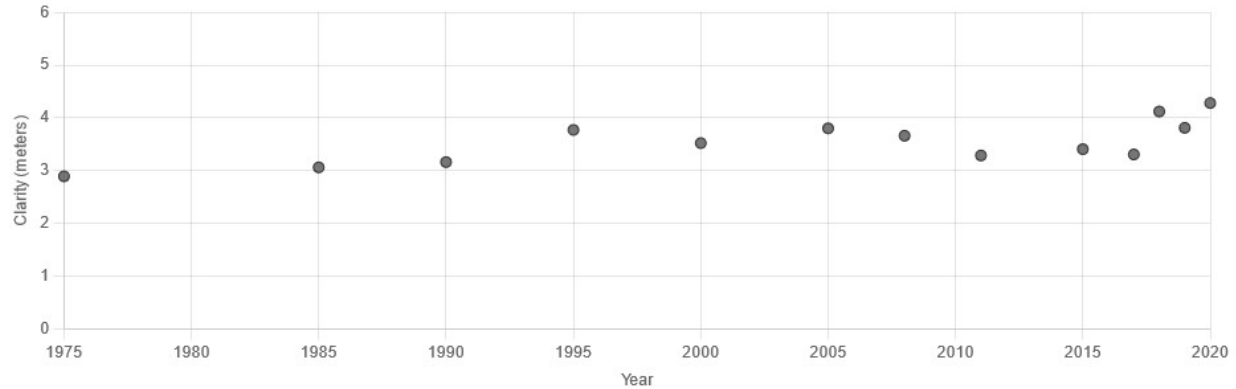
Wetland type: inland open fresh water, shallow pond, or reservoir

Classification: protected water

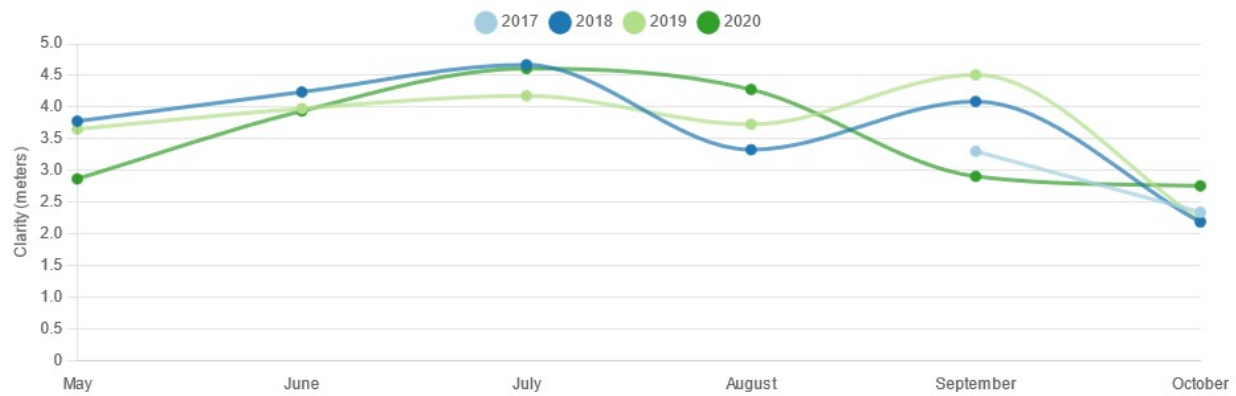
[View at PCA/DNR Lake Finder](#)

Lake Clarity

Lake Clarity by Year



Lake Clarity by Month



Lake Clarity Tabular View

The seasonal means for the years 2017–2020 are calculated using values from July 20 through September 20.

| Year | Seasonal mean | May | June | July | August | September | October |
|------|---------------|-----|------|------|--------|-----------|---------|
| 1975 | 2.9 | | | | | | |
| 1985 | 3.1 | | | | | | |
| 1990 | 3.2 | | | | | | |
| 1995 | 3.8 | | | | | | |
| 2000 | 3.5 | | | | | | |
| 2005 | 3.8 | | | | | | |
| 2008 | 3.7 | | | | | | |
| 2011 | 3.3 | | | | | | |
| 2015 | 3.4 | | | | | | |
| 2017 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 2.4 |
| 2018 | 4.1 | 3.8 | 4.2 | 4.7 | 3.3 | 4.1 | 2.2 |
| 2019 | 3.8 | 3.7 | 4.0 | 4.2 | 3.7 | 4.5 | 2.2 |
| 2020 | 4.3 | 2.9 | 3.9 | 4.6 | 4.3 | 2.9 | 2.8 |

Mean clarity (meters)

Daily Values

| Date | Clarity (meters) | Chlorophyll <i>a</i> (µg/L) | CDOM ($a_{440m^{-1}}$) |
|------------|------------------|-----------------------------|--------------------------|
| 2017-09-12 | 2.52 | 3.8 | 2.77 |
| 2017-09-17 | 4.28 | 4.96 | 0.8 |
| 2017-10-07 | 2.72 | 5.18 | 2.65 |
| 2017-10-22 | 1.95 | 8.04 | 2.31 |
| 2018-05-15 | 3.61 | 7.74 | 0.31 |
| 2018-05-20 | 3.28 | 9.2 | 0.31 |
| 2018-05-25 | 4.16 | 6.24 | 0.52 |
| 2018-06-04 | 4.21 | 4.89 | 0.82 |
| 2018-07-09 | 4.56 | 5.67 | 0.3 |
| 2018-07-14 | 5.01 | 4.02 | 0.46 |
| 2018-07-29 | 4.66 | 3.33 | 1.35 |
| 2018-08-08 | 4.2 | 3.27 | 1.66 |
| 2018-08-13 | 3.28 | 3.73 | 2.79 |
| 2018-08-23 | 2.32 | 4.06 | 3.42 |
| 2018-09-07 | 4.3 | 3.88 | 0.99 |
| 2018-09-12 | 4.22 | 3.42 | 1.67 |
| 2018-09-22 | 3.44 | 4.36 | 1.69 |
| 2018-10-12 | 2.53 | 5.64 | 1.69 |
| 2018-10-17 | 2.17 | 7.59 | 1.47 |
| 2018-10-22 | 2.17 | 7.77 | 1.43 |
| 2019-05-15 | 3.85 | 9.74 | 0.04 |
| 2019-05-20 | 3.31 | 8.15 | 0.34 |
| 2019-06-04 | 3.86 | 4.55 | 1.42 |
| 2019-06-14 | 3.97 | 4.77 | 0.78 |
| 2019-06-19 | 4.84 | 4.99 | 0.42 |
| 2019-07-24 | 4.15 | 3.89 | 1.43 |
| 2019-08-03 | 4.65 | 3.96 | 0.62 |
| 2019-08-08 | 3.83 | 5.1 | 0.69 |
| 2019-08-18 | 3.11 | 6.06 | 1.52 |
| 2019-08-23 | 3.67 | 6.22 | 0.66 |
| 2019-08-28 | 3.34 | 6.28 | 1.07 |
| 2019-09-02 | 4.7 | 3.8 | 0.87 |
| 2019-10-07 | 2.19 | 9.01 | 15.06 |
| 2019-10-17 | 2.27 | 7.48 | 2.16 |

| | | | |
|------------|------|------|------|
| 2020-05-19 | 2.84 | 9.31 | 0.36 |
| 2020-06-03 | 3.34 | 7.06 | 1.07 |
| 2020-06-13 | 4.92 | 5.11 | 1.33 |
| 2020-07-18 | 5.9 | 3.75 | 0.58 |
| 2020-07-23 | 3.82 | 6.02 | 0.69 |
| 2020-07-28 | 4.46 | 5.66 | 0.45 |
| 2020-08-02 | 3.99 | 5.3 | 0.62 |
| 2020-08-17 | 4.8 | 4.23 | 0.42 |
| 2020-08-22 | 4.45 | 3.41 | 1.24 |
| 2020-08-27 | 3.95 | 3.88 | 1.69 |
| 2020-09-11 | 2.9 | 4.85 | 2.87 |
| 2020-09-16 | 5.51 | 2.3 | 0.73 |
| 2020-09-21 | 2.27 | 5.8 | 5.3 |
| 2020-10-16 | 2.81 | 3.28 | 1.41 |

Summertime Clarity Percentiles by Region

Average summertime (June–September) clarity values calculated from 2018 through 2020 clarity are compared against the values for other lakes throughout the state, as well as county, ecoregion, and watershed (HUC4 and HUC8). Higher percentile values indicate that a lake has greater average clarity than other lakes in the region, e.g. a lake in the 95th percentile in its county has better average clarity than 95% of the lakes in the county. Note that lakes that are not ranked lacked enough measurements to calculate the summertime averages and some lakes may appear as being in the 100th percentile due to rounding.

| Unit Level | Unit Name/ID | Percentile |
|-----------------------|---|------------|
| Statewide | | 79 |
| County | Crow Wing | 53 |
| Ecoregion | Northern Lakes and Forests | 65 |
| HUC4 Watershed | Mississippi Headwaters (0701) | 70 |
| HUC8 Watershed | Mississippi River - Brainerd (07010104) | 55 |

Chlorophyll *a*

Chlorophyll *a* is measured in micrograms per liter (µg/L). The seasonal means for the years 2017—2020 are calculated using values from July 20 through September 20. [Learn more about Chlorophyll *a*.](#)

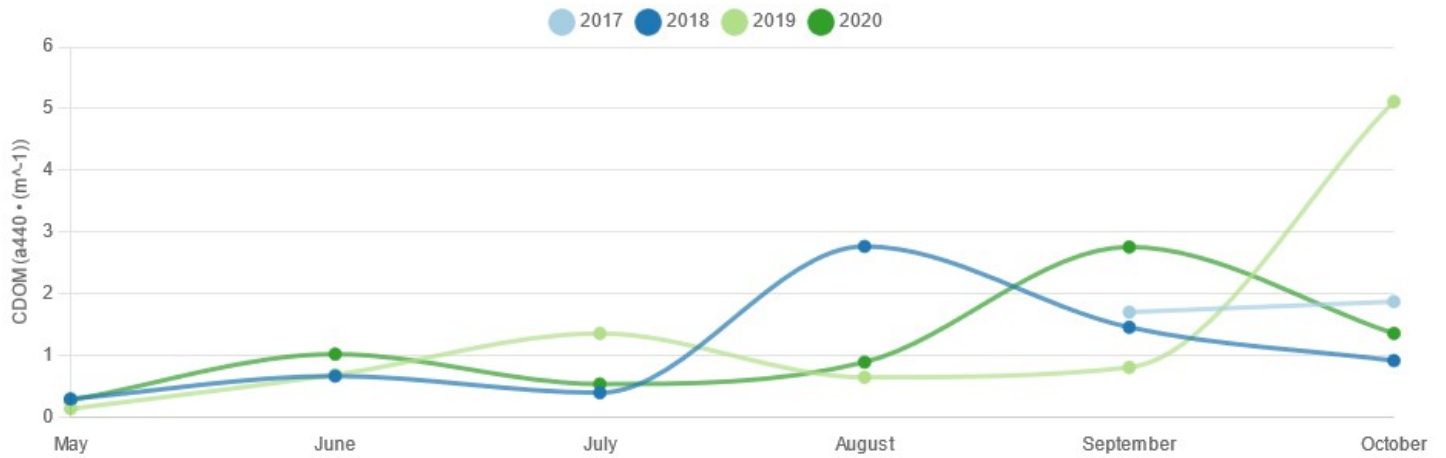


| Year | Seasonal mean | May | June | July | August | September | October |
|-------------|---------------|-----|------|------|--------|-----------|---------|
| 2017 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 5.5 |
| 2018 | 3.2 | 5.8 | 4.2 | 3.7 | 3.5 | 3.3 | 6.5 |
| 2019 | 4.7 | 6.3 | 4.2 | 3.6 | 4.7 | 3.1 | 7.3 |
| 2020 | 3.5 | 6.7 | 5.3 | 3.6 | 3.3 | 4.5 | 3.2 |

Mean chlorophyll *a* (µg/L)

Colored Dissolved Organic Matter

Colored dissolved organic matter (CDOM) is measured as the light absorption coefficient at 440 nm (a_{440}) and has units of reciprocal meters (m^{-1}). The seasonal means for the years 2017—2020 are calculated using values from July 20 through September 20. [Learn more about CDOM](#)



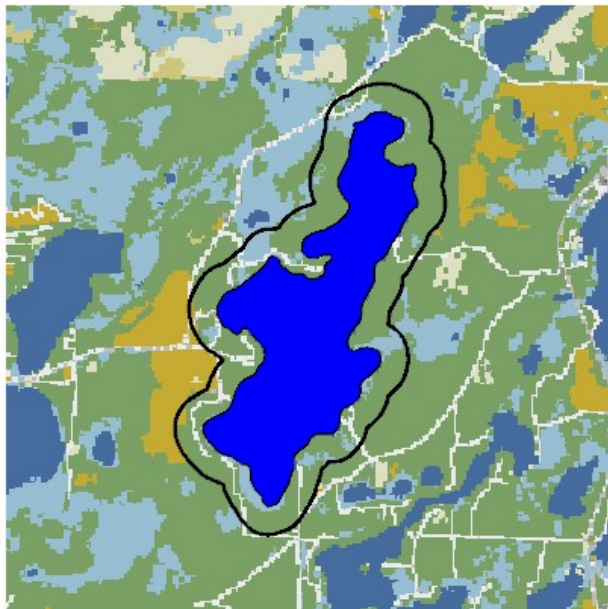
| Year | Seasonal mean | May | June | July | August | September | October |
|------|---------------|-----|------|------|--------|-----------|---------|
| 2017 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.9 |
| 2018 | 1.5 | 0.3 | 0.7 | 0.4 | 2.8 | 1.5 | 0.9 |
| 2019 | 0.8 | 0.1 | 0.7 | 1.4 | 0.7 | 0.8 | 5.1 |
| 2020 | 0.7 | 0.3 | 1.0 | 0.5 | 0.9 | 2.8 | 1.4 |

Mean CDOM ($a_{440}m^{-1}$)

Land Cover

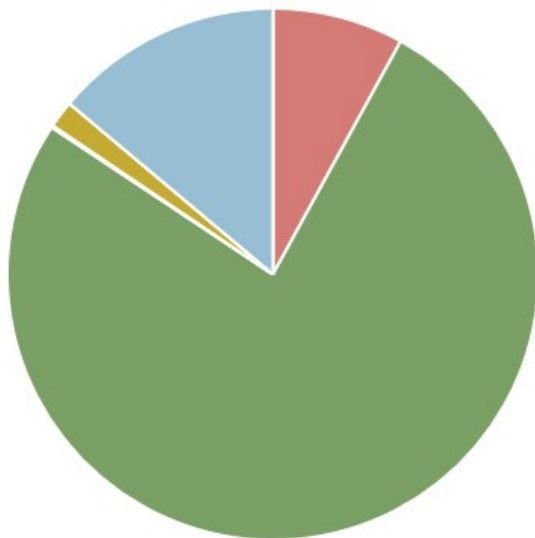
Land cover is calculated for an area within 1000' of the basin (this is considered shoreland) that includes the selected lake feature. Note that the Minnesota LakeBrowser splits some lakes into components. Values are determined using the [National Land Cover Database \(2016\)](#) (NLCD). Additionally, open water within 1000' of the basin is excluded as shorelines change over time. Note that unclassified land cover is common for lakes near the Canadian border as the NLCD does not extend into Canada.

In the image below the lake appears as solid blue and dark lines indicate the shoreland buffer.



- Land Cover (NLCD 2016)
- Open Water
 - Developed, Open Space
 - Developed, Low Intensity
 - Developed, Medium Intensity
 - Developed, High Intensity
 - Barren Land
 - Forest
 - Shrub/Scrub
 - Herbaceous
 - Planted/Cultivated
 - Wetlands

- Developed
- Barren Land
- Forest
- Shrub/Scrub
- Herbaceous
- Planted/Cultivated
- Wetlands
- Unclassified



| Level 1 Class (General) | % | Level 2 Class (Detailed) | % |
|---------------------------|------|------------------------------|------|
| Developed | 8 | Developed, Open Space | 7.3 |
| | | Developed, Low Intensity | 0.6 |
| | | Developed, Medium Intensity | 0.1 |
| | | Developed, High Intensity | 0 |
| Barren | 0 | Barren Land (Rock/Sand/Clay) | 0 |
| Forest | 76.3 | Deciduous Forest | 72.9 |
| | | Evergreen Forest | 0.7 |
| | | Mixed Forest | 2.8 |
| Shrubland | 0 | Shrub/Scrub | 0 |
| Herbaceous | 0.1 | Grassland/Herbaceous | 0.1 |
| Planted/Cultivated | 1.7 | Pasture/Hay | 0.6 |
| | | Cultivated Crops | 1 |
| Wetlands | 13.9 | Woody Wetlands | 7.5 |
| | | Emergent Herbaceous Wetlands | 6.4 |
| Unclassified | 0 | Unclassified | 0 |