

# Carlos 21-0057-00

## Lake Information

MN Lake ID: 21-0057-00  
County: Douglas  
Ecoregion: NCHF  
Major Drainage Basin: UM  
Latitude/Longitude: 45.95833333 / -95.36277778  
Years Monitored: 1998 - 2022  
Monitored Sites: 205

[View MPCA CLMP Historical Secchi Data](#)  
[MPCA Assessment Report](#)  
[Search County Monthly Precipitation Data](#)

## Physical Characteristics

Surface area (acres): 2520  
Littoral area (acres): 910  
% Littoral area:  
Max depth (ft): 164  
Max depth (m):  
Mean depth (ft): N/A  
Watershed size (acres): N/A  
Aquatic Invasive Species:

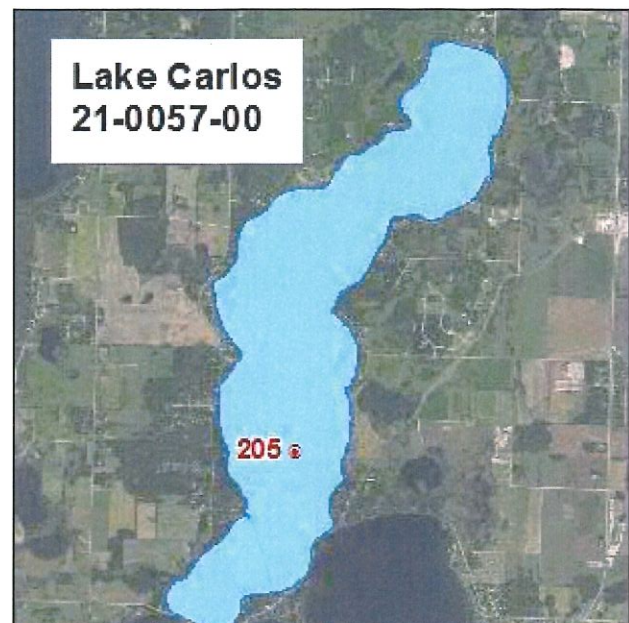
[View MN DNR Fisheries Report](#)  
[View MN DNR Lake Level Report](#)

## Water Quality Characteristics

(data from RMB monitoring database only)

Parameters	Primary Site 205
Total Phosphorus Mean:	14.8
Total Phosphorus Min:	5
Total Phosphorus Max:	38
Number of Observations:	156
Chlorophyll-a Mean:	4
Chlorophyll-a Min:	0
Chlorophyll-a Max:	9.3
Number of Observations:	155
Secchi Depth Mean:	14.1
Secchi Depth Min:	1
Secchi Depth Max:	29
Number of Observations:	151
Trophic State Index Mean:	41.6

Trophic State: Mesotrophic



## Trends

(Primary site only. For detecting trends, a minimum of 8-10 years of consecutive data with 4 or more readings per season are recommended)  
Trend analysis does not take into consideration aquatic invasive species.  
Species like zebra mussels can alter water chemistry over time.

Years Monitored: 1998 - 2022

*24 YEARS*

Total Phosphorus: Improving with 99.9% confidence.  
Chlorophyll-a: Improving with 99.9% confidence.  
Secchi Depth: Improving with 99.9% confidence.  
Trophic State Index: Improving with 99.9% confidence.

## Ecoregion Comparisons

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

Ecoregion: NCHF  
Total phosphorus: Better Than Expected Range  
Chlorophyll-a: Better Than Expected Range  
Secchi depth: Better Than Expected Range