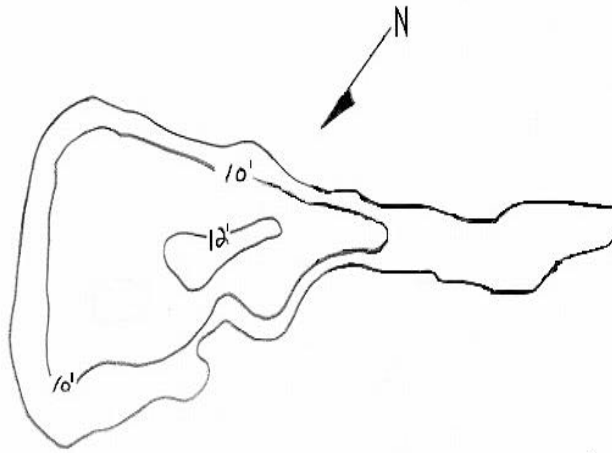


Oxbow Lake



Location

Pond Number: 050252
 Watershed: Upper Hudson River
 County: Hamilton
 Topographic Quadrangle: Lake Pleasant

Sample Site

Latitude: 43° 26.260'
 Longitude: 74° 29.252'

Morphometry

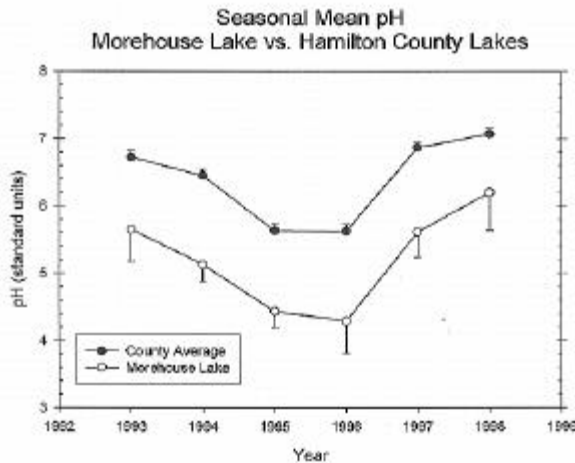
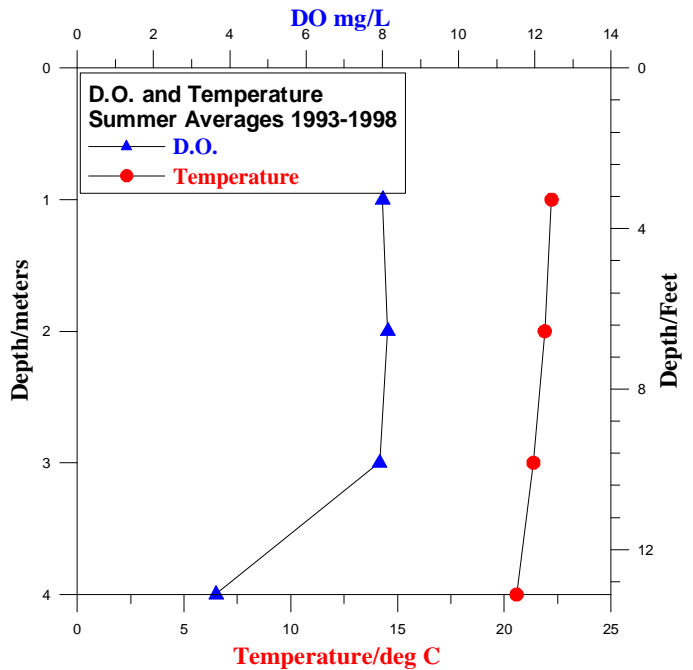
Surface Area: 282 Ac.
 Mean Depth: 5 Ft.
 Maximum Depth: 10 Ft.
 Volume: 1,307 Ac.
 Watershed Area: 3,257 Ac.
 Hydraulic Retention Time: 0.11 Yr.
 Shoreline Length: 4.3 Mi.
 Elevation: 1,706 Ft.
 Water Quality Classification: B
 Trophic State: Mesotrophic

Temperature

Oxbow Lake was not thermally stratified during the month of August in any of the study years (1993 - 1998). The surface temperature was warmest in August 1995, at 24° C. The surface temperature was coolest in August 1994, at 19° C. The thermal profiles for August were similar each year, except 1994, when the August lake temperatures were much cooler than in other years.

Dissolved Oxygen

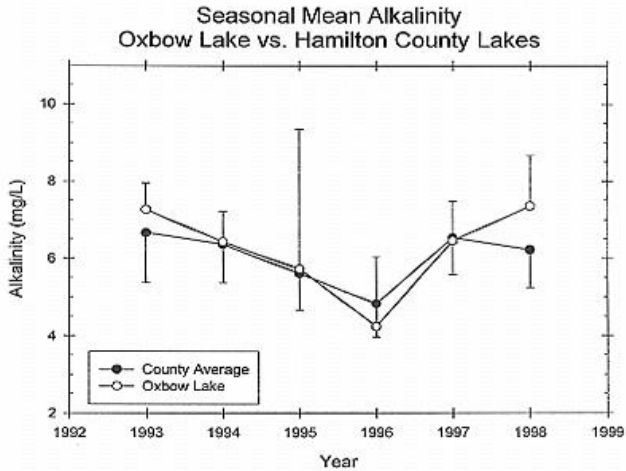
Oxbow Lake was well oxygenated during the month of August in each of the study years (1993 - 1998). Dissolved oxygen concentrations were above 6 mg/L each August. In general, the highest hypolimnetic dissolved oxygen levels occurred in August 1998 and the lowest occurred in August 1993. The overall dissolved oxygen profiles were relatively similar each year.



pH

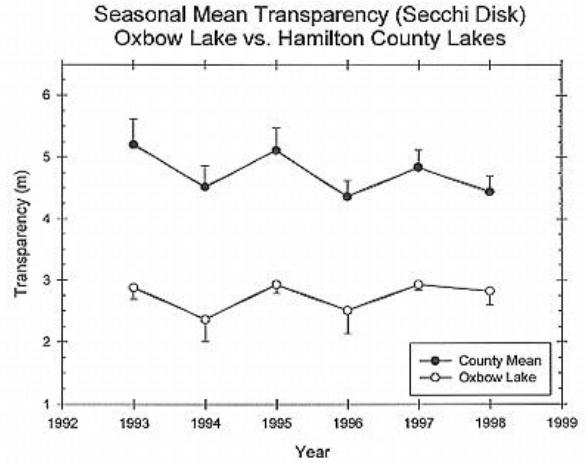
The pH trend for Oxbow Lake was comparable to the county mean trend, with a low of 5.54 in 1995, and a high of 7.05 in 1997.

Oxbow Lake



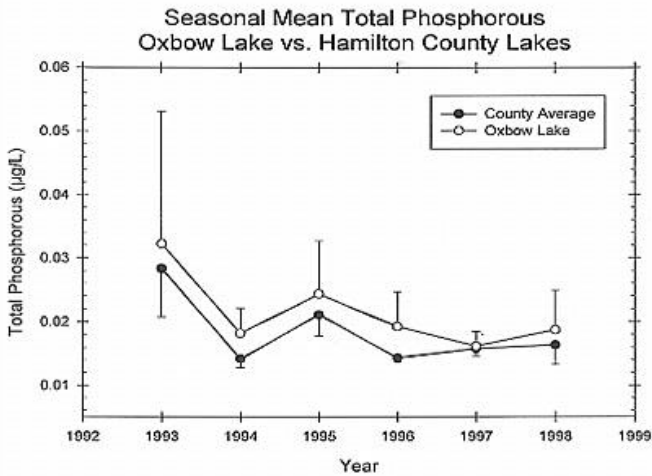
Alkalinity

The alkalinity trend for Oxbow Lake was comparable to the county mean trend, with a low of 4.23 mg/L in 1996, and a high of 7.35 mg/L in 1998.



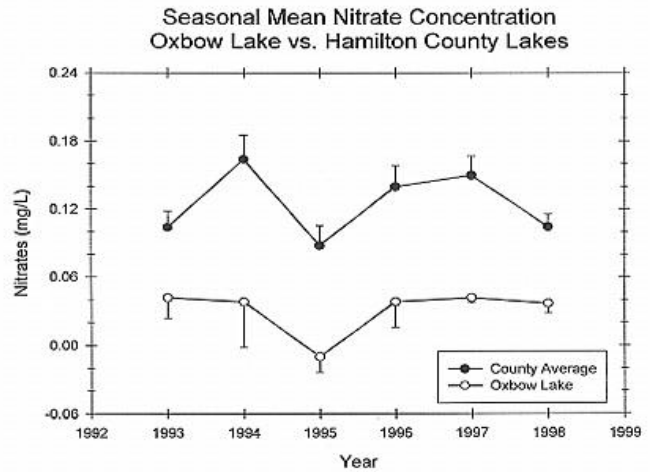
Transparency

The transparency trend in Oxbow Lake was similar to the county mean trend, with a low of 2.37 m in 1994, and a high of 2.93 m in 1995 and 1997. Overall, the mean transparency values were lower than the county mean values.



Total Phosphorus

The total phosphorus trend for Oxbow Lake was comparable to the county mean trend. A low of 0.016 µg/L occurred in 1997, and a high of 0.032 µg/L occurred in 1993.



Nitrate

The nitrate concentration trend in Oxbow Lake was similar to the county mean trend, with a low of -0.01 mg/L in 1995, and a high of 0.04 mg/L in 1993, 1994, 1996, 1997, and 1998. Overall, the mean nitrate concentrations were slightly lower than the county mean values.