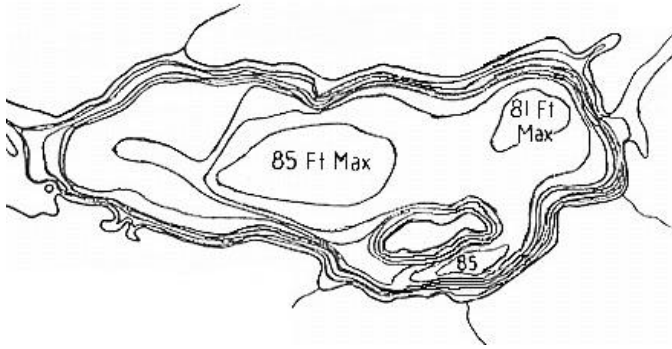


Seventh Lake

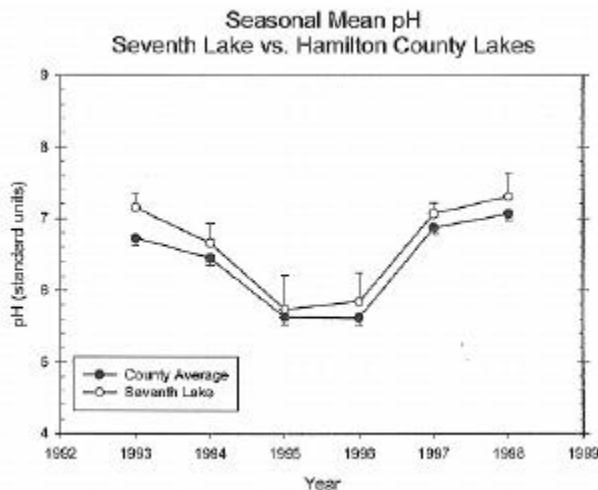


Temperature

Seventh Lake was thermally stratified during the month of August in each of the study years (1993 - 1998). The epilimnion was warmest in August 1995, when the surface temperature was 23.5° C. The epilimnion was coolest in August 1996, when the surface temperature was 22° C. In August of each year, the epilimnion was approximately 5 meters thick, the mid-thermocline depth was around 7.5 meters, and the top of the hypolimnion began at about 10 meters. The thermal profiles for August were similar each year.

Dissolved Oxygen

The hypolimnion of Seventh Lake was well oxygenated during the month of August in each of the study years (1993 - 1998). Dissolved oxygen concentrations in the hypolimnion were above 7 mg/L each August. During each August, the concentrations decreased slightly below 21 meters. In general, the highest hypolimnetic dissolved oxygen levels occurred in August 1995 and the lowest occurred in August 1993. The dissolved oxygen profiles were relatively similar each year, with the lowest concentrations in the epilimnion and increasing concentrations throughout the thermocline.



Location

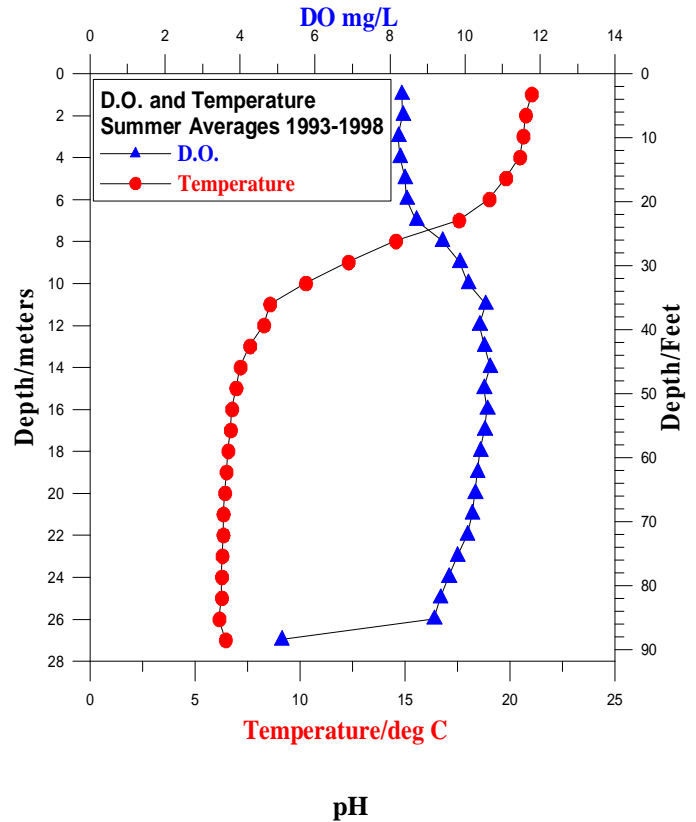
Pond Number: 040878B
 Watershed: Black River
 County: Hamilton
 Topographic Quadrangle: Old Forge/West Canada Lakes

Sample Site

Latitude: 43° 44.381'
 Longitude: 74° 44.262'

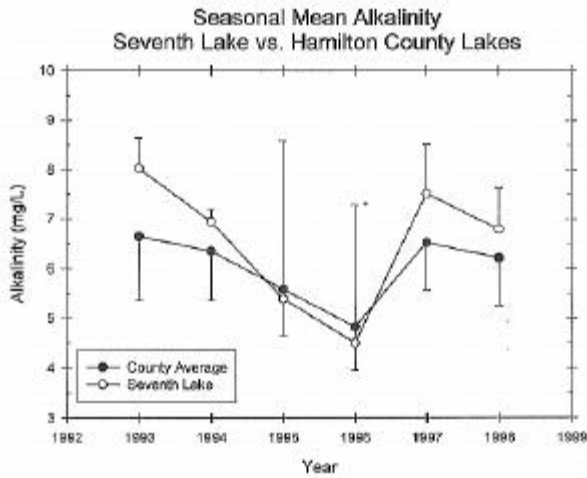
Morphometry

Surface Area: 851 Ac.
 Mean Depth: 40 Ft.
 Maximum Depth: 87 Ft.
 Volume: 34,195 Ac./Ft.
 Watershed Area: 8,642 Ac.
 Hydraulic Retention Time: .76 Yr.
 Shoreline Length: 11.2 Mi.
 Elevation: 1,788 Ft.
 Water Quality Classification: A(T)
 Trophic State: Mesotrophic



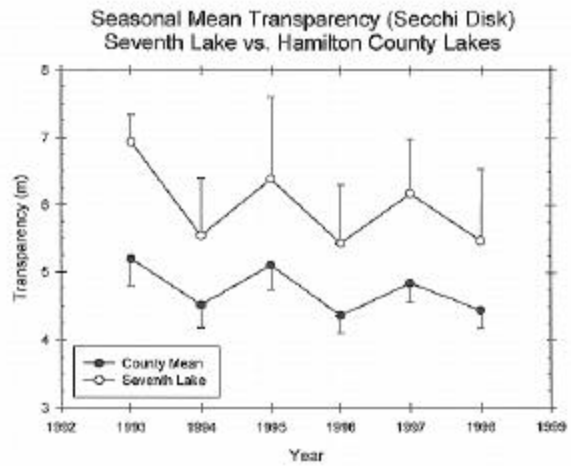
The pH trend for Seventh Lake was similar to the county mean trend, with a low of 5.74 in 1995, and a high of 7.30 in 1998. Overall, the mean pH values were slightly higher than the county mean values.

Seventh Lake



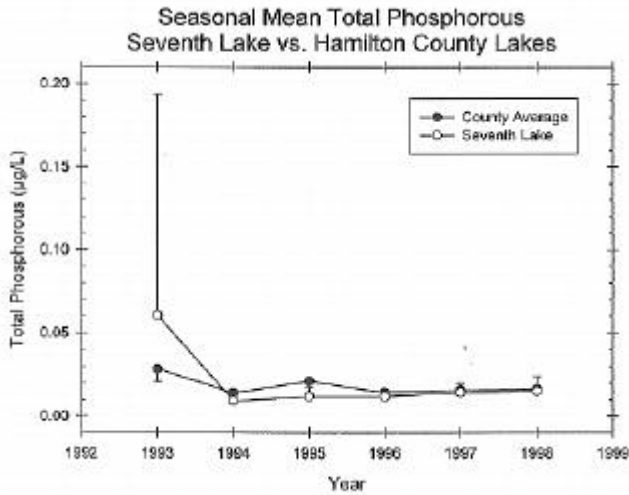
Alkalinity

The alkalinity trend for Seventh Lake was comparable to the county mean trend, with a low of 4.50 mg/L in 1996, and a high of 8.03 mg/L in 1993.



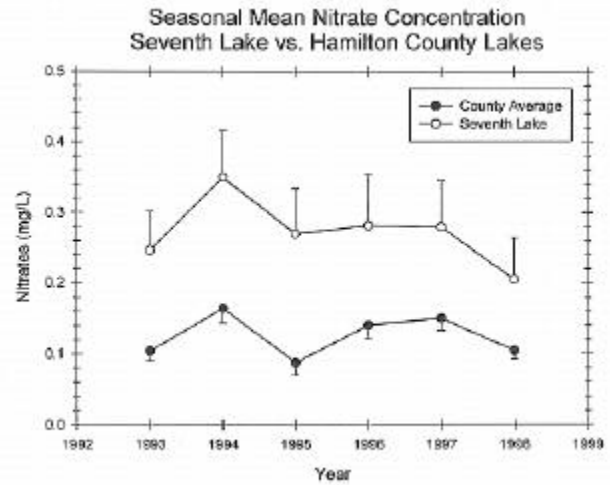
Transparency

The transparency trend in Seventh Lake was similar to the county mean trend, with a low of 5.44 m in 1996, and a high of 6.94 m in 1993. Overall, the mean transparency values were higher than the county mean values.



Total Phosphorus

The total phosphorus trend for Seventh Lake was comparable to the county mean trend. A low of 0.009 µg/L occurred in 1994, and a high of 0.061 µg/L occurred in 1993.



Nitrate

The nitrate concentration trend in Seventh Lake was similar to the county mean trend, with a low of 0.21 mg/L in 1998, and a high of 0.35 mg/L in 1994. Overall, the mean nitrate concentrations were slightly higher than the county mean values.