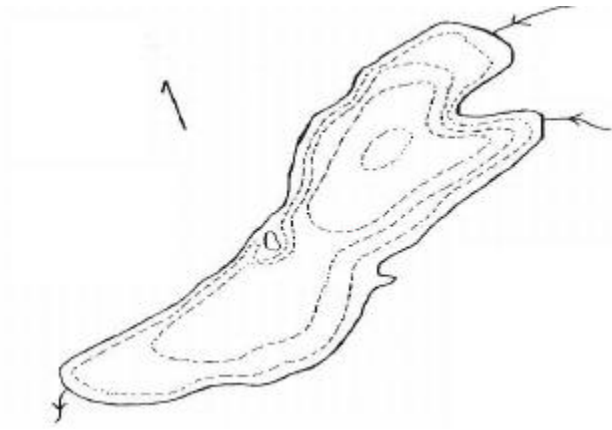


Eighth Lake

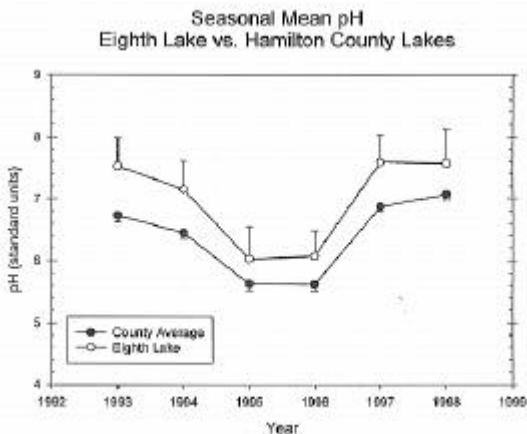


Temperature

Eighth Lake was thermally stratified during the month of August in each of the study years (1993 - 1998). The epilimnion was warmest in August 1998, when the surface temperature was 24° C. The epilimnion was coolest in August 1996, when the surface temperature was 22.5° C. In August of each year, the epilimnion was approximately 4 meters thick, the mid-thermocline depth was around 7 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 Eighth Lake was fairly well oxygenated during the month of August in each of the study years (1993 - 1998), except for 1995. Dissolved oxygen concentrations in the hypolimnion were above 4 mg/L each August, although the concentrations decreased slightly below 18 meters. In general, the highest hypolimnetic dissolved oxygen levels occurred in August 1997 and the lowest occurred in August 1995. Eighth Lake experienced metalimnetic oxygen maxima at around 5 meters during August. The dissolved oxygen profiles were relatively similar for each of the study years, except for 1995, in which the dissolved oxygen levels below 5 mg/L throughout the water column.



Location

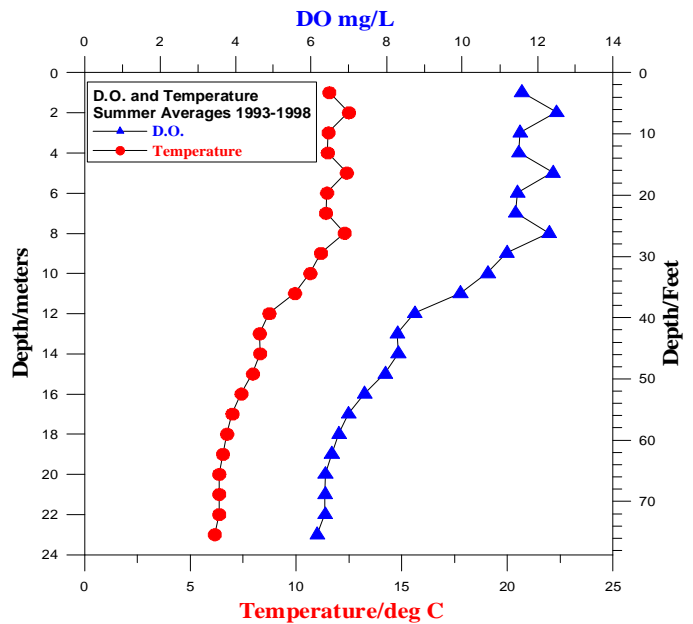
Pond Number: 040790
 Watershed: Black River
 County: Hamilton
 Topographic Quadrangle: Raquette

Sample Site

Latitude: 43° 46.825'
 Longitude: 74° 42.130'

Morphometry

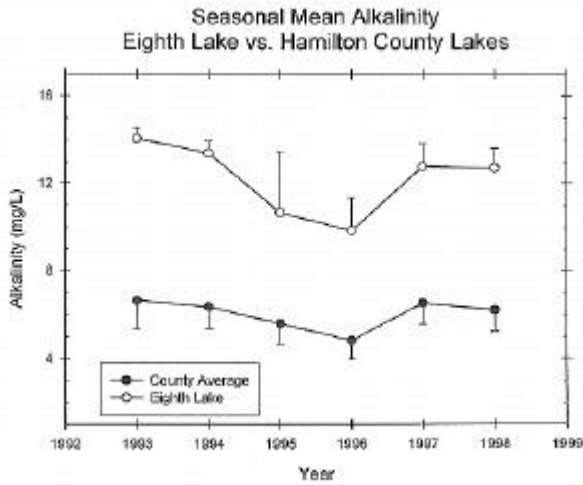
Surface Area: 303 Ac.
 Mean Depth: 39 Ft.
 Maximum Depth: 81 Ft.
 Volume: 11,817 Ac./Ft.
 Watershed Area: 2,034 Ac.
 Hydraulic Retention Time: 2.5 Yr.
 Shoreline Length: 4.0 Mi.
 Elevation: 1,791 Ft.
 Water Quality Classification: A(T)
 Trophic State: Mesotrophic



pH

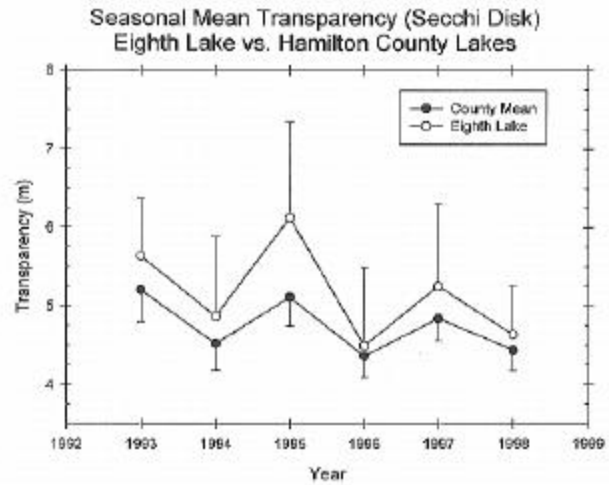
The pH trend in Eighth Lake was similar to the county mean trend, with a low of 6.03 in 1995, and a high of 7.59 in 1997. Overall the mean pH values were slightly higher (less acidic) than the county mean values.

Eighth Lake



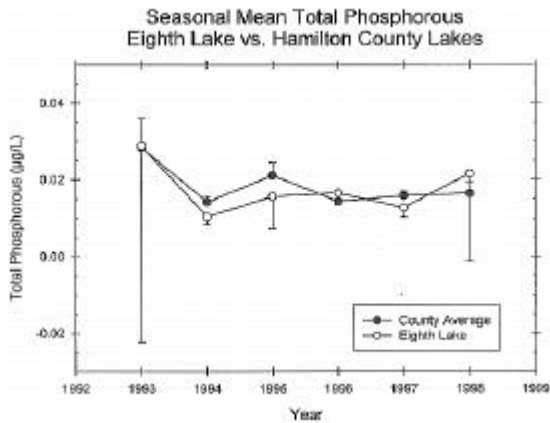
Alkalinity

The alkalinity trend for Eighth Lake was similar to the county mean trend, with a low of 9.85 mg/L in 1996, and a high of 14.05 mg/L in 1993. Overall, the mean alkalinity values were higher than the county mean values.



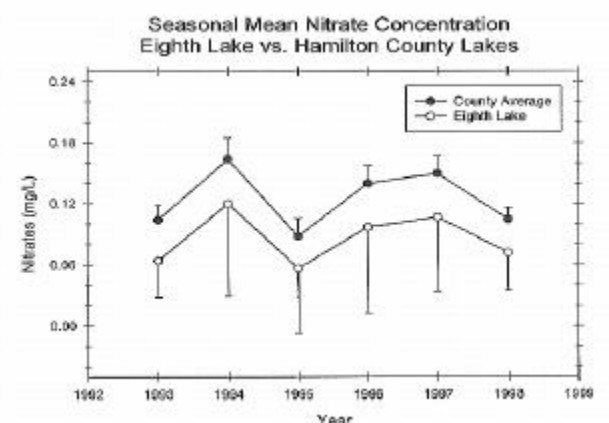
Transparency

The transparency trend in Eighth Lake was similar to the county mean trend, with a low of 4.50 m in 1996, and a high of 6.13 m in 1995. Overall, the mean transparency values were higher than the county mean values.



Total Phosphorus

The total phosphorous trend for Eighth Lake was comparable to the county mean trend. A low of 0.010 µg/L occurred in 1994, and a high of 0.029 µg/L occurred in 1993.



Nitrate

The nitrate concentration trend in Eighth Lake was similar to the county mean trend, with a low of 0.06 mg/L in 1993 and 1995, and a high of 0.12 mg/L in 1994. Overall, the mean nitrate concentrations were slightly lower than the county mean values.