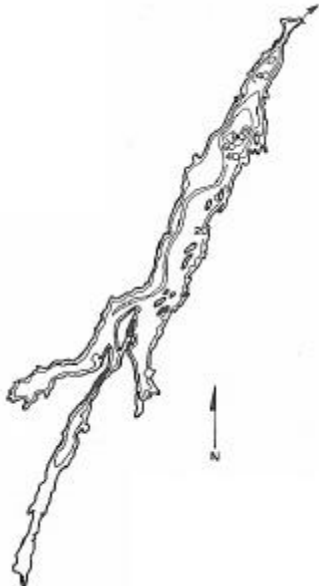


Indian Lake

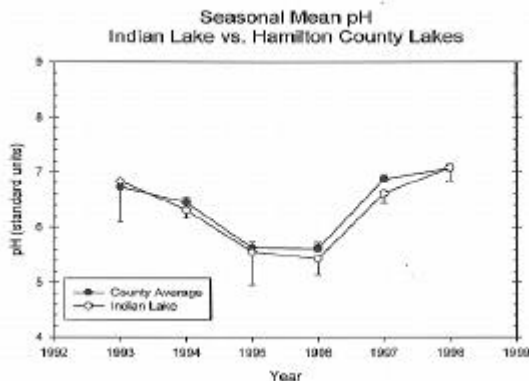


Temperature

Indian 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 1993, when the surface temperature was 21.5° C. In August of each year, the epilimnion was approximately 6 meters thick, the mid-thermocline depth was around 9.5 meters, and the top of the hypolimnion began at about 13 meters. The thermal profiles for August were similar each year.

Dissolved Oxygen

The hypolimnion of Indian Lake was fairly well oxygenated during the month of August in each of the study years (1993 - 1998). Dissolved oxygen concentrations in the hypolimnion were above 4 mg/L each August, down to a depth of 17 meters. Below 17 meters, the dissolved oxygen concentrations decreased to less than 3 mg/L in 1994, 1997 and 1998. In general, the highest hypolimnetic dissolved oxygen levels occurred in August 1993 and the lowest occurred in August 1998. Indian Lake experienced metalimnetic oxygen minima at around 9 meters during August. The dissolved oxygen profiles were relatively similar each year.



Location

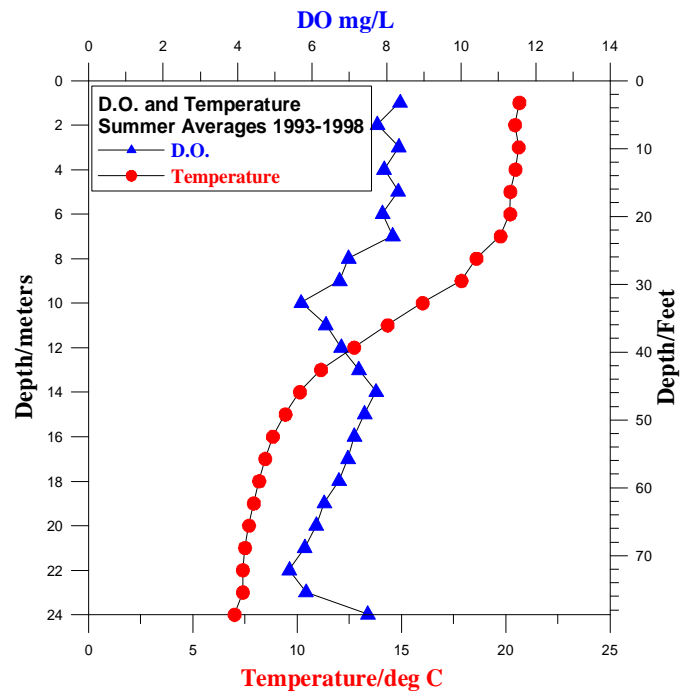
Pond Number: 050597
 Watershed: Upper Hudson River
 County: Hamilton
 Topographic Quadrangle: Indian Lake

Sample Site

Latitude: 43° 43.418'
 Longitude: 74° 18.231'

Morphometry

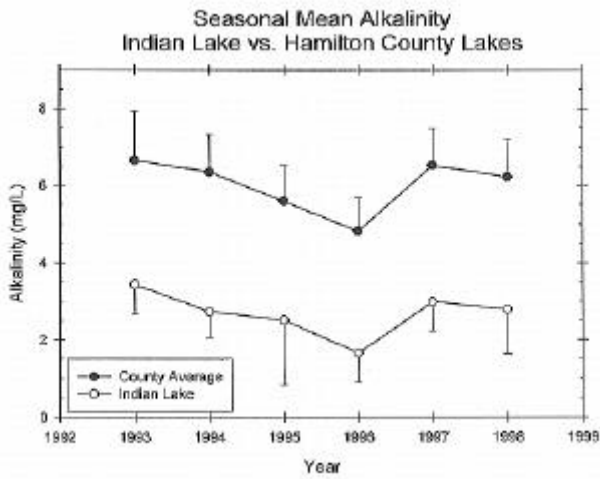
Surface Area: 4,365 Ac.
 Mean Depth: 39 Ft.
 Maximum Depth: 85 Ft.
 Volume: 170,235 Ac./Ft.
 Watershed Area: 83,840 Ac.
 Hydraulic Retention Time: 0.9 Yr.
 Shoreline Length: 38.7 Mi.
 Elevation: 1,650 Ft.
 Water Quality Classification: AA
 Trophic State: Mesotrophic



pH

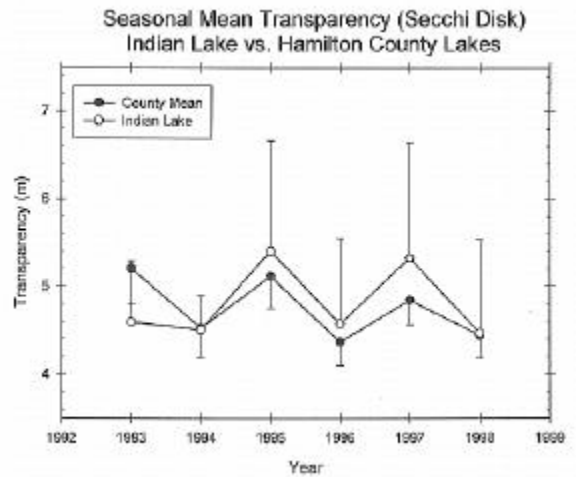
The pH trend for Indian Lake was similar to the county mean trend, with a low of 5.43 in 1996, and a high of 7.08 in 1998. Overall the mean pH values were slightly lower (more acidic) than the county mean values.

Indian Lake



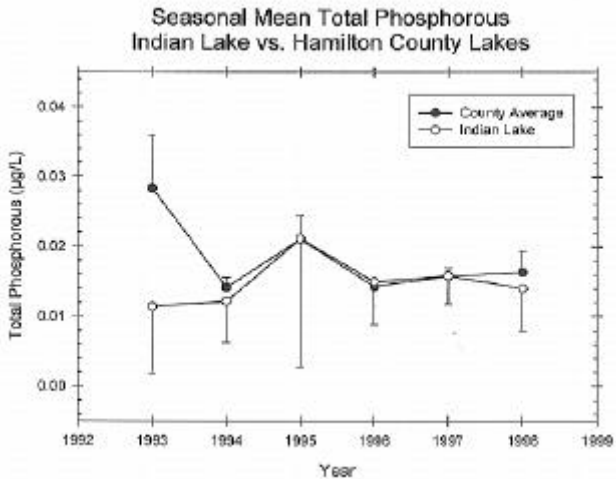
Alkalinity

The alkalinity trend for Indian Lake was similar to the county mean trend, with a low of 1.65 mg/L in 1996, and a high of 3.44 mg/L in 1993. Overall, the mean alkalinity values were lower than the county mean values.



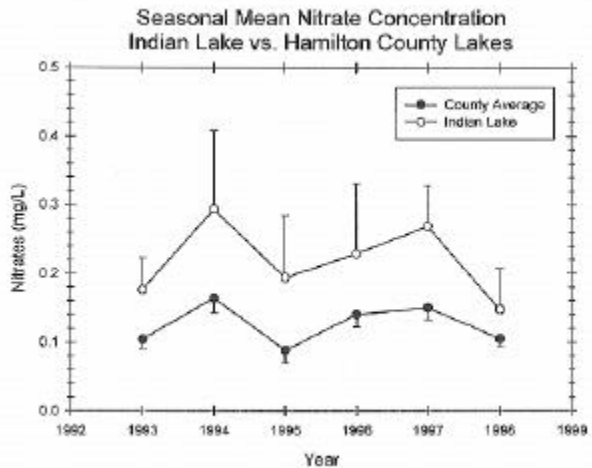
Transparency

The transparency trend in Indian Lake was similar to the county mean trend, with a low of 4.46 m in 1998, and a high of 5.40 m in 1995. Overall, the mean transparency values were slightly higher than the county mean values in 1995 - 1997 and equal to the county means in 1994 and 1998.



Total Phosphorus

The total phosphorus trend for Indian Lake was comparable to the county mean trend. A low of 0.011 µg/L occurred in 1993, and a high of 0.021 µg/L occurred in 1995.



Nitrate

The nitrate concentration trend in Indian Lake was similar to the county mean trend, with a low of 0.15 mg/L in 1998, and a high of 0.29 mg/L in 1994. Overall, the mean nitrate concentrations were slightly higher than the county mean values.