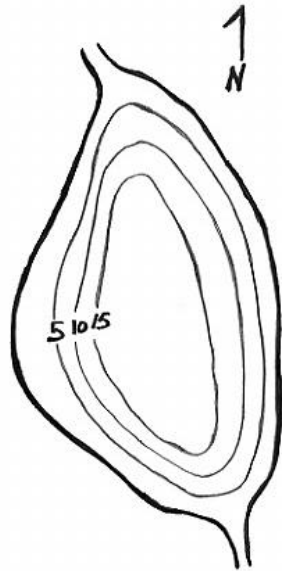


Fifth Lake



Location

Pond Number: 040786
 Watershed: Black River
 County: Hamilton
 Topographic Quadrangle: Old Forge

Sample Site

Latitude: 43° 44.923'
 Longitude: 74° 47.531'

Morphometry

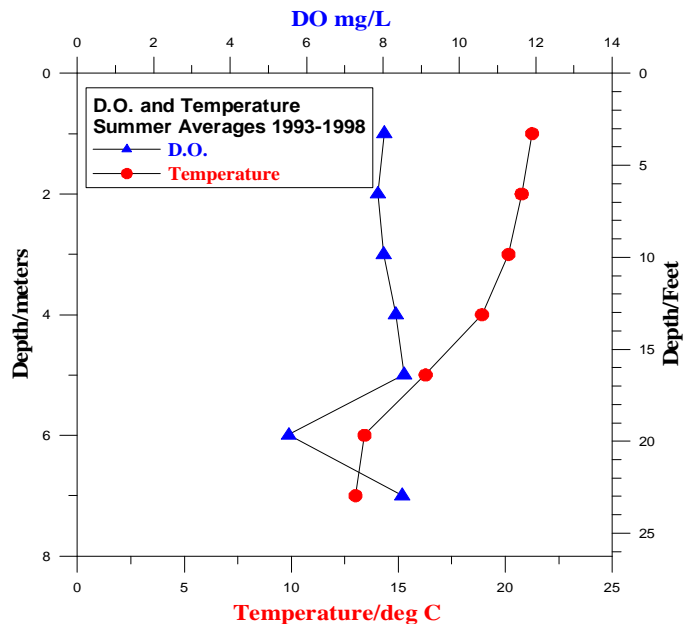
Surface Area: 13 Ac.
 Mean Depth: 7.7 Ft
 Maximum Depth: 16.7 Ft
 Volume: 101 Ac./Ft.
 Watershed Area: 288 Ac.
 Hydraulic Retention Time: 0.06 Yr.
 Shoreline Length: 0.6 Mi.
 Elevation: 1,706 Ft.
 Water Quality Classification: A
 Trophic State: Mesotrophic

Temperature

Fifth 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 1997 and 1998, at 23.5° C. The surface temperature was coolest in August 1993 and 1994, at 22° C. The thermal profiles for August were similar each year.

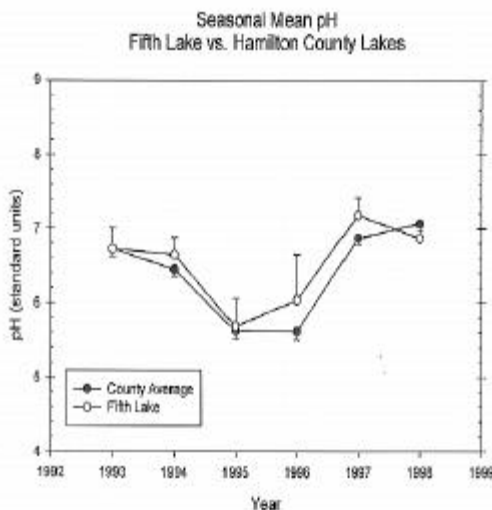
Dissolved Oxygen

Fifth Lake was fairly 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 to a depth of 3 meters. In general, the dissolved oxygen concentrations increased each August from 1993 to 1998. The overall dissolved oxygen profiles were relatively similar each year.

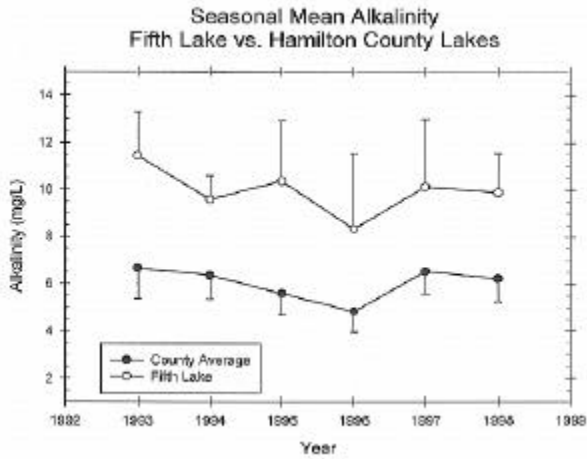


pH

The pH trend in Fifth Lake was similar to the county mean trend, with a low of 5.69 in 1995, and a high of 7.18 in 1997. The mean pH values were slightly higher (less acidic) than the county mean values.

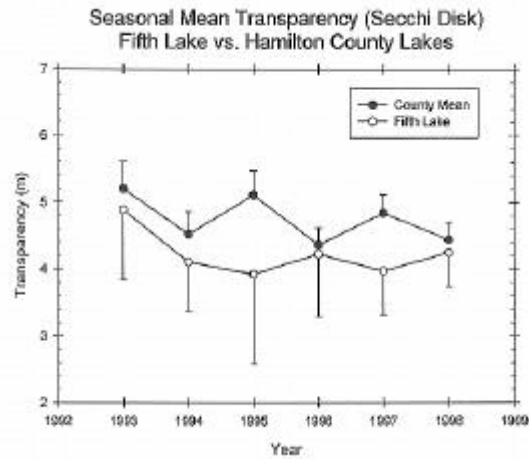


Fifth Lake



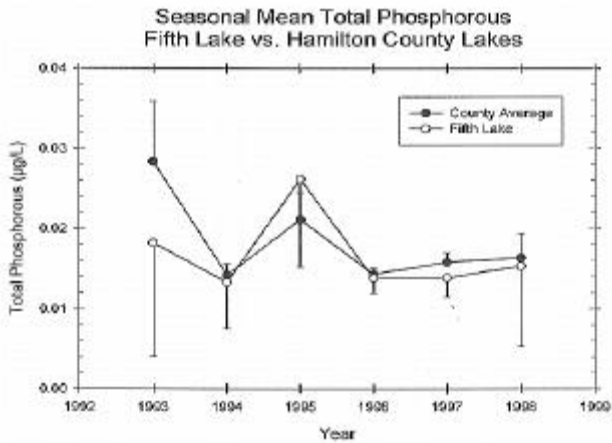
Alkalinity

The alkalinity trend for Fifth Lake was similar to the county mean trend, with a low of 8.34 mg/L in 1996, and a high of 11.43 mg/L in 1993. Overall, the mean alkalinity values were higher than the county mean values.



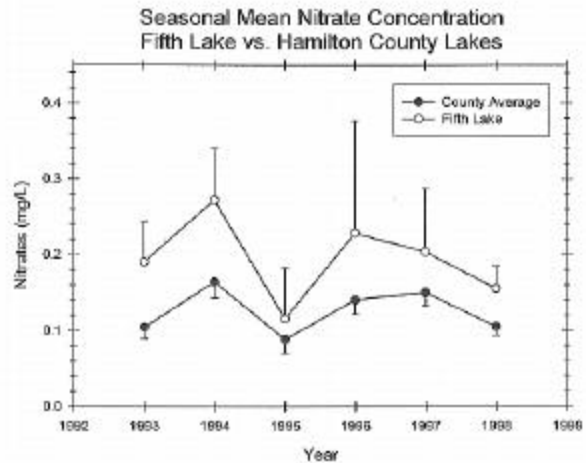
Transparency

The transparency trend in Fifth Lake was similar to the county mean trend, with a low of 3.92 m in 1995, and a high of 4.88 m in 1993. Overall, the mean transparency values were lower than the county mean values.



Total Phosphorous

The total phosphorous trend for Fifth Lake was comparable to the county mean trend. A low of 0.013 µg/L occurred in 1994, and a high of 0.026 µg/L occurred in 1995.



Nitrate

The nitrate concentration trend in Fifth Lake was similar to the county mean trend, with a low of 0.12 mg/L in 1995, and a high of 0.27 mg/L in 1994. Overall, the mean nitrate concentrations were slightly higher than the county mean values.