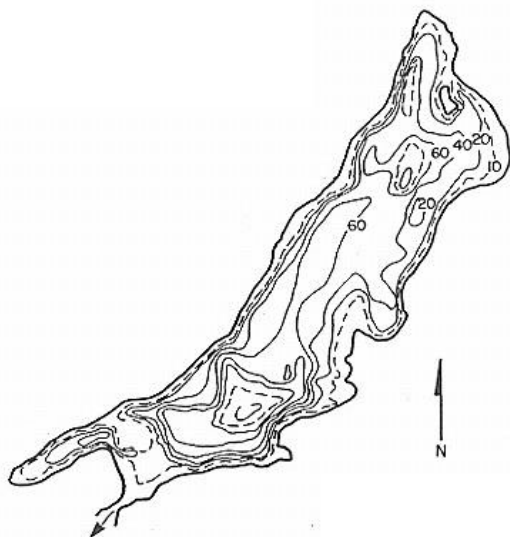


Piseco Lake



Location
 Pond Number: 050234
 Watershed: Upper Hudson River
 County: Hamilton
 Topographic Quadrangle: Piseco Lake

Sample Site
 Latitude: 43° 23.860'
 Longitude: 74° 33.334'

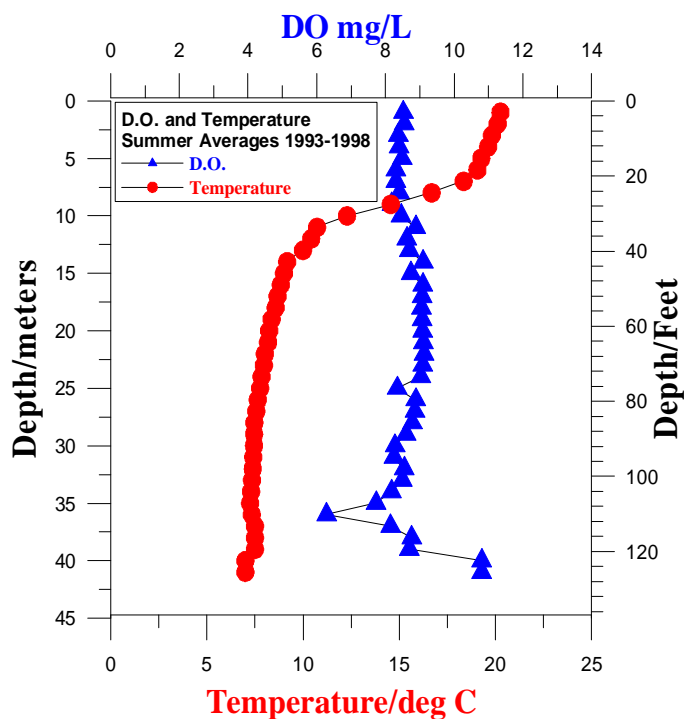
Morphometry
 Surface Area: 2,842 Ac.
 Mean Depth: 58 Ft.
 Maximum Depth: 125 Ft.
 Volume: 164,836 Ac./Ft.
 Watershed Area: 38,023 Ac.
 Hydraulic Retention Time: 1.5 Yr.
 Shoreline Length: 21.3 Mi.
 Elevation: 1,661 Ft.
 Water Quality Classification: B
 Trophic State: Mesotrophic

Temperature

Piseco 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 24° C. The epilimnion was coolest in August 1994, when the surface temperature was 20° C. In August of each year, the epilimnion was approximately 6 meters thick, the mid-thermocline depth was around 9 meters, and the top of the hypolimnion began at about 12 meters. The thermal profiles for August were similar each year.

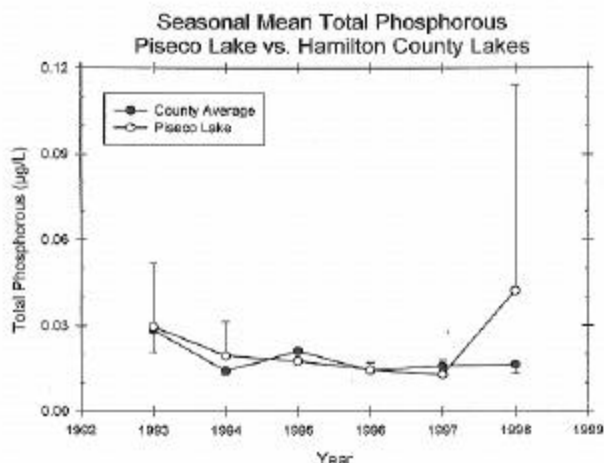
Dissolved Oxygen

The hypolimnion of Piseco 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 6 mg/L each August. In general, the highest hypolimnetic dissolved oxygen levels occurred in August 1998 and the lowest occurred in August 1993. Piseco Lake experienced metalimnetic oxygen minima at around 8 meters during August each year. The dissolved oxygen profiles were relatively similar each year.

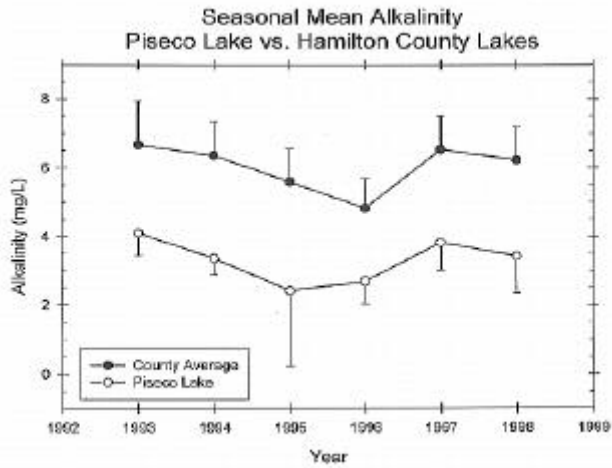


pH

The pH trend for Piseco Lake was comparable to the county mean trend, with a low of 5.26 in 1995, and a high of 7.56 in 1998.

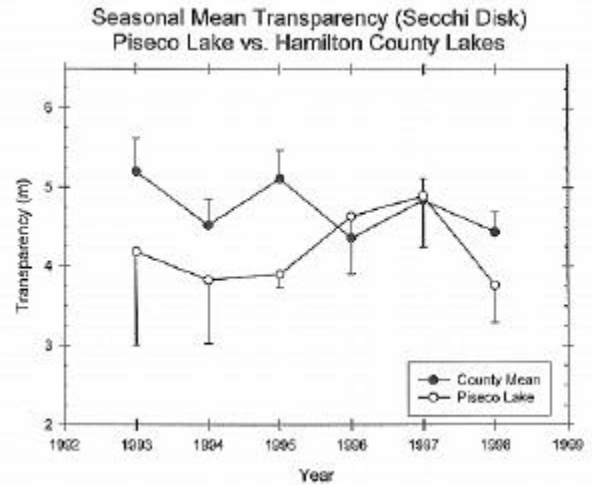


Piseco Lake



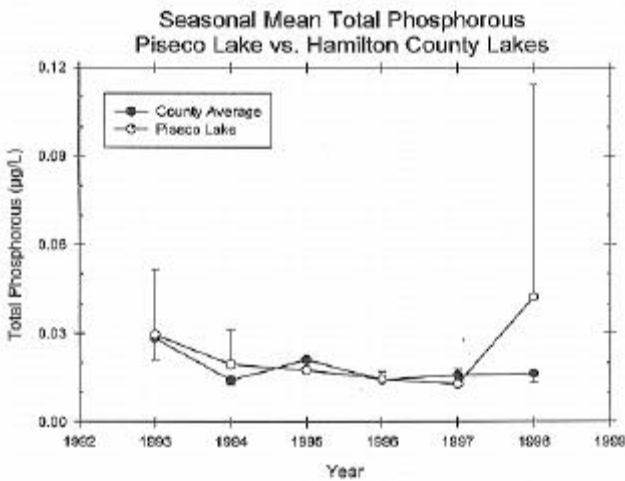
Alkalinity

The alkalinity trend for Piseco Lake was similar to the county mean trend, with a low of 2.68 mg/L in 1996, and a high of 4.10 mg/L in 1993. Overall, the mean alkalinity values were lower than the county mean values.



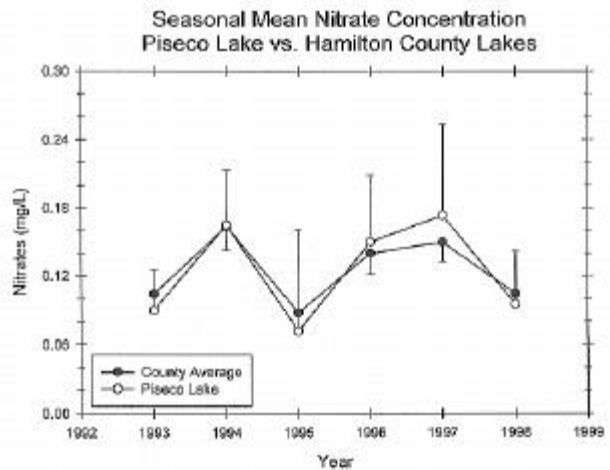
Transparency

The transparency trend in Piseco Lake was similar to the county mean trend, with a low of 3.76 m in 1998, and a high of 4.90 m in 1997. Overall, the mean transparency values were slightly lower than the county mean values, except during 1996 and 1997 when mean values were similar to county means.



Total Phosphorus

The total phosphorous trend for Piseco Lake was comparable to the county mean trend. A low of 0.013 µg/L occurred in 1997, and a high of 0.042 µg/L occurred in 1998. The abnormally high mean value in 1998 was due to one data point of 0.182 µg/L in October.



Nitrate

The nitrate concentration trend in Piseco Lake was comparable to the county mean trend, with a low of 0.07 mg/L in 1995, and a high of 0.17 mg/L in 1994 and 1997.