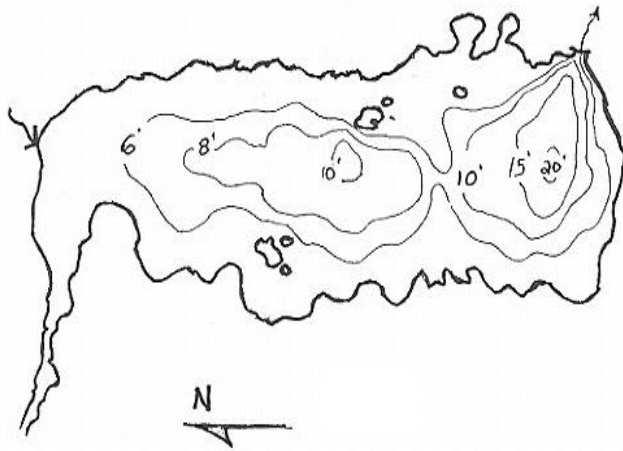


Lake Durant



Location

Pond Number: 050645A
 Watershed: Upper Hudson River
 County: Hamilton
 Topographic Quadrangle: Blue Mountain

Sample Site

Latitude: 43° 50.260'
 Longitude: 74° 23.030'

Morphometry

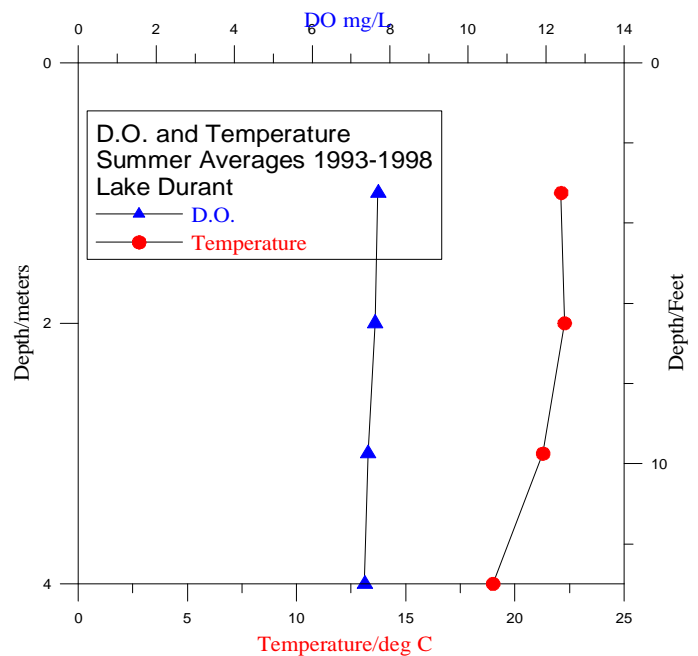
Surface Area: 320 Ac.
 Mean Depth: 9.3 Ft.
 Maximum Depth: 20 Ft.
 Volume: 2,970 Ac./Ft.
 Watershed Area: 9,759 Ac.
 Hydraulic Retention Time: 0.06 Yr.
 Shoreline Length: 5.5 Mi.
 Elevation: 1,768 Ft.
 Water Quality Classification: C
 Trophic State: Mesotrophic

Temperature

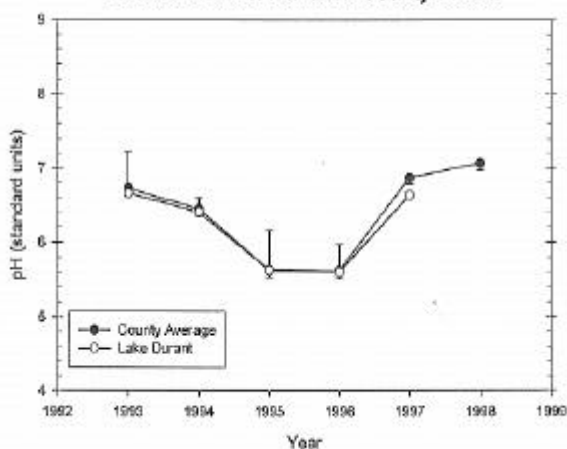
Lake Durant was not thermally stratified during the month of August in any of the study years (1993 - 1997). The lake was warmest in August 1997, when the surface temperature was 24° C. The lake was coolest in August 1993, when the surface temperature was 19.5° C. The thermal profiles for August were relatively similar each year, except for 1993, when the temperature was much lower throughout the water column.

Dissolved Oxygen

Lake Durant was well oxygenated during the month of August in each of the study years (1993 - 1997). Dissolved oxygen concentrations were above 6 mg/L each August. In general, the highest dissolved oxygen concentrations occurred in August 1995 and the lowest occurred in August 1997. The dissolved oxygen profiles were relatively similar each year.



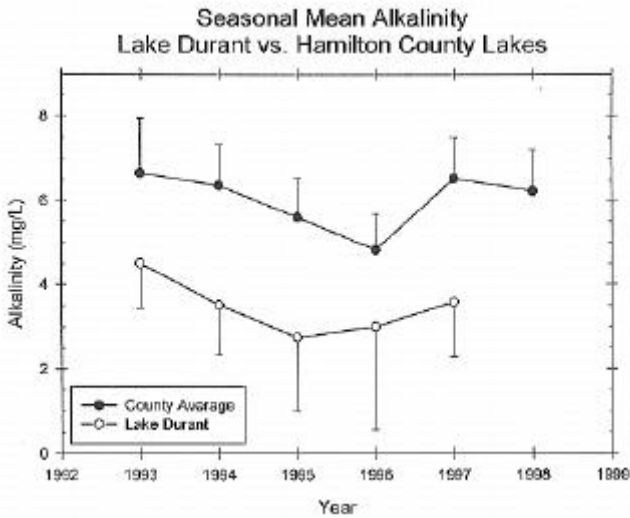
Seasonal Mean pH
 Lake Durant vs. Hamilton County Lakes



pH

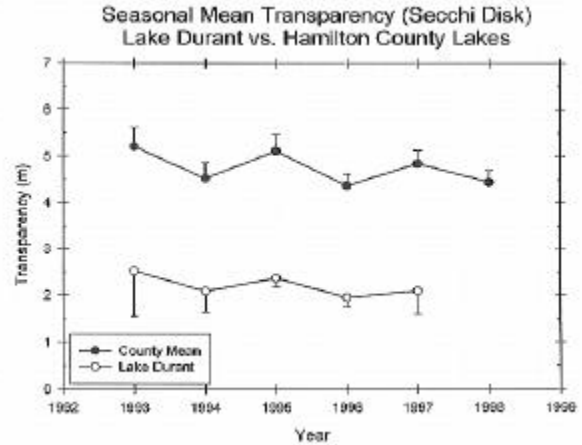
The pH trend for Lake Durant was comparable to the county mean trend, with a low of 5.60 in 1996, and a high of 6.66 in 1993

Lake Durant



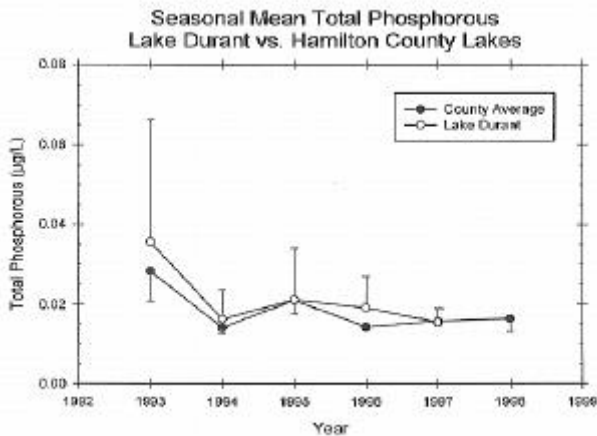
Alkalinity

The alkalinity trend for Lake Durant was similar to the county mean trend, with a low of 2.75 mg/L in 1995, and a high of 4.50 mg/L in 1993. Overall, the mean alkalinity values were lower than the county mean values.



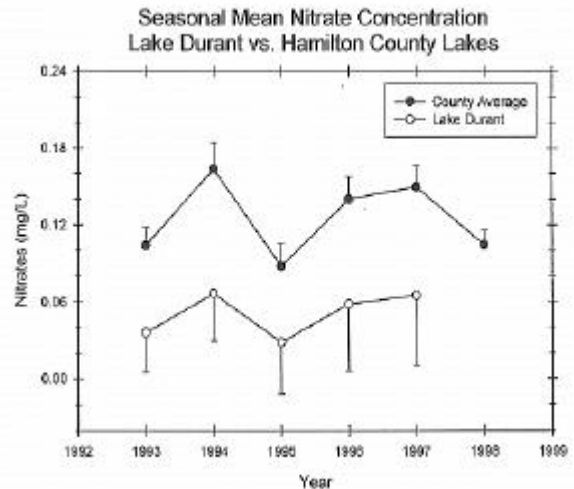
Transparency

The transparency trend in Lake Durant was similar to the county mean trend, with a low of 1.95 m in 1996, and a high of 2.52 m in 1993. Overall, the mean transparency values were lower than the county mean values.



Total Phosphorus

The total phosphorous trend for Lake Durant was comparable to the county mean trend. A low of 0.016 µg/L occurred in 1994 and 1997, and a high of 0.036 µg/L occurred in 1993.



Nitrate

The nitrate concentration trend in Lake Durant was similar to the county mean trend, with a low of 0.03 mg/L in 1995, and a high of 0.07 mg/L in 1994 and 1997. Overall, the mean nitrate concentrations were slightly lower than the county mean values.