

Henry Sever Lake

Knox County

2006 DATA



Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/24	29	37	620	9.8	3.3
5/16	32	49	790	3.6	4.0
6/2	29	48	880	2.2	4.8
6/26	40	40	980	17.4	3.3
7/16	42	39	740	11.7	2.9
8/7	40	40	740	14.5	3.3
8/28	52	39	720	17.5	2.8
9/20	38	29	700	10.6	2.5
10/9	52	28	760	7.0	2.7
Mean	38	38	764	8.7	3.2

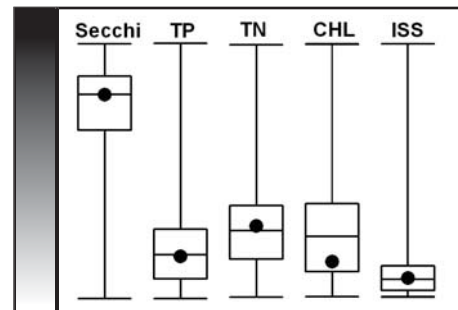
2006 SUMMARY

Henry Sever Lake was well monitored in 2006, with 9 samples from April 24 through October 9.

Variability was low for all parameters except chlorophyll in 2006. Chlorophyll concentrations ranged 8-fold, while other parameters varied less than two-fold from minimum to maximum.

The chlorophyll to phosphorus ratio remained low in Henry Sever. The suppression of algae is likely due to shading by clay particles that are too small to be captured on the suspended sediments filters used by the LMVP. As a result, our measurements likely underestimate the amount of soil material suspended in the lake.

The 2006 mean chlorophyll concentration was well below the statewide median, while all other parameters' means fell on or near their respective statewide median values.



Relative Rank Graph
See page 11 for details

TRENDS

Shown are the 2006 seasonal trends for Henry Sever Lake. The low variability is evident, as there are no significant peaks among the parameters.

Although the mean phosphorus and nitrogen concentrations were higher in 2006 than in 2005 (45% and 30%, respectively), the range of values observed was lower in 2006.

