

Henry Sever Lake

Knox County

2007 DATA

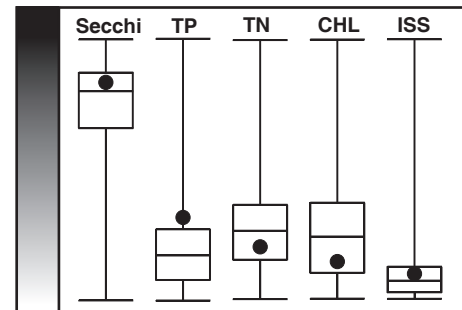


Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/25	20	166	720	5.6	4.7
5/11	20	149	950	26.4	6.4
5/31	21	134	860	2.5	3.8
6/26	--	62	440	14.7	3.9
7/13	31	45	320	10.5	5.3
7/30	40	50	690	16.1	5.3
8/25	59	38	550	6.2	2.9
9/13	47	36	590	10.0	3.2
10/5	46	46	570	6.6	2.2
Mean	33	68	600	9.0	4.0

2007 SUMMARY

Nutrients values in Henry Sever Lake follow the common pattern of larger values in the spring, with decreasing concentrations during summer and into the fall. Normally inorganic suspended solids follow this same pattern, but this not supported by the data. It is likely that a fair proportion of suspended clays that impact Henry Sever Lake are small enough to pass through the TSS filter. This would explain why Secchi values were only ~20 inches in spring even though ISS values were not substantially higher than the rest of the year.

All parameters except for phosphorus were within the middle 50% of the statewide range. The elevated phosphorus concentrations measured during the early part of the season led to the phosphorus being ranked in the upper quartile.



Relative Rank Graph
See page 11 for details

TRENDS

While measured values vary during individual years, the average phosphorus and chlorophyll have been comparable during the last three years.

Long-term phosphorus value in Henry Sever is slightly below the proposed criterion, while chlorophyll is well below proposed criterion.

