

Tri City Lake

Boone County

2007 DATA



Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
5/10	35	88	970	24.4	4.1
5/26	36	65	830	24.1	4.1
6/9	34	49	770	16.7	2.6
7/5	14	92	2670	216.5	3.0
7/27	36	70	1490	56.3	2.3
8/18	31	62	1220	47.9	2.4
9/9	30	53	1180	44.5	2.3
9/28	26	58	1260	43.5	3.4
Mean	29	66	1210	42.7	2.9

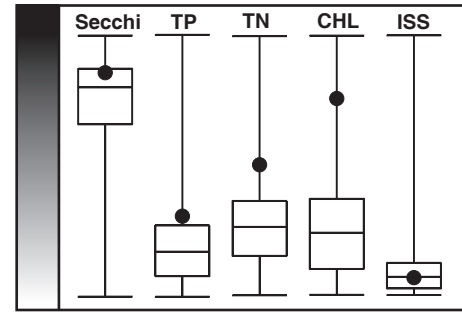
2007 SUMMARY

Eight samples were collected between May 10 and September 28, 2007.

Secchi varied by only 22 inches with a mean of 29 inches, just under the statewide average. Phosphorus and suspended sediment concentrations were rather stable in 2007, not even varying twofold.

Nitrogen and chlorophyll concentrations showed considerable variation in 2007, due primarily to the July 5 sample. On this day, the chlorophyll concentration was nearly four times the next highest value, and the nitrogen concentration was nearly double the second highest value.

This could indicate a bloom of blue-green algae, which are capable of using atmospheric nitrogen. The abnormally high amount of algae relative to phosphorus on July 5 suggests the algae were extremely efficient.



Relative Rank Graph
See page 11 for details

TRENDS

Chlorophyll concentrations have been higher during the past two years, compared to the previous two years. 2007 chlorophyll values varied considerably more than any other year, largely due to a single value of over 200 µg/L. The long term chlorophyll mean is higher than the proposed nutrient criteria value.

After three years of stable nitrogen values, this nutrient showed high variability in 2007.

The graphs to the right highlight the high variability nitrogen and chlorophyll exhibited in 2007, relative to other years.

