Tri City Lake

Boone County

2006 DATA

Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/1	26	51	1010	29.5	5.4
4/28	34	44	950	23.9	3.7
5/13	29	51	1010	28.9	3.6
6/2	33	46	740	24.4	3.4
6/24	34	54	940	28.8	2.1
7/14	40	51	810	32.9	2.2
8/5	47	46	830	26.1	1.6
9/1	29	46	870	45.4	2.0
9/25	40	38	970	26.8	1.3
Mean	**34**	**47**	**899**	**29.1**	**2.6**

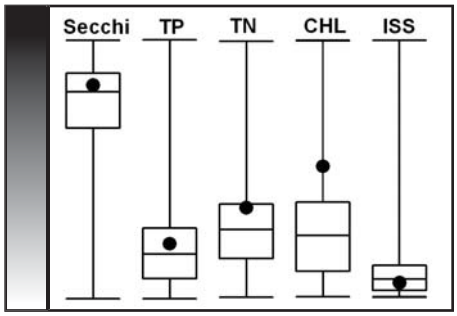
2006 SUMMARY

Nutrient concentrations exhibited a narrower range than expected for values of this magnitude. Phosphorus and nitrogen concentrations were both higher than the state's median value, with nitrogen approaching the 75th percentile.

Aside from a high value of 45.4 µg/L observed on September 1, chlorophyll concentrations were unexpectedly stable, varying by less than 7 µg/L.

ISS concentrations generally decreased as the season progressed, with the overall average of 2.6 mg/L being slightly below the state median value.

Chlorophyll concentrations were among the highest 25% of Missouri lakes



Relative Rank Graph
See page 11 for details

TRENDS

Chlorophyll concentrations were higher in 2006 than seen in either of the two previous years. Lower ISS concentrations are likely responsible for the increase in algal chlorophyll. Reduced shading probably led to more efficient photosynthesis by the algae.