Waterworks Lake

Randolph County

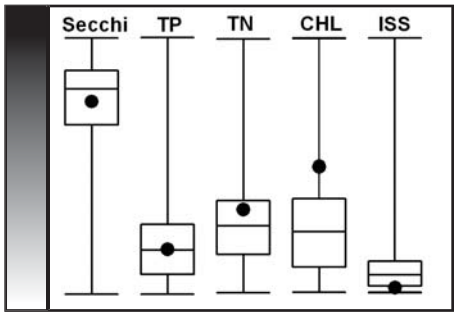
2006 DATA

Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
7/11	43	33	970	38.4	1.1
8/2	49	28	840	29.1	0.4
8/30	39	52	830	29.0	2.7
9/26	56	54	800	19.9	2.1
Mean	**46**	**40**	**858**	**28.3**	**1.3**

2006 SUMMARY

Sampling began late in the season for Waterworks lake, with the first sample occurring in mid-July, so only four samples were collected this year. Phosphorus and suspended sediment concentrations (ISS) increased in late August and September, while chlorophyll and nitrogen did not.

Chlorophyll concentrations were higher than found in 75% of Missouri's lakes. ISS concentrations, on the other hand, were *lower* than seen in 75% of Missouri's lakes. Phosphorus concentrations in Waterworks Lake were at the median value for Missouri, while nitrogen concentrations were just above the Missouri median.



Relative Rank Graph
See page 11 for details

TRENDS

The chlorophyll concentrations were higher in 2006 than in previous years. It should be noted that the 2004 samples were all collected by early July, and the 2006 samples were collected following mid-July. Thus care should be taken when comparing the two years. Nutrient concentrations and Secchi values show little to no variation over the three years Waterworks lake has been monitored.