

Rothwell Lake

Randolph County

2006 DATA

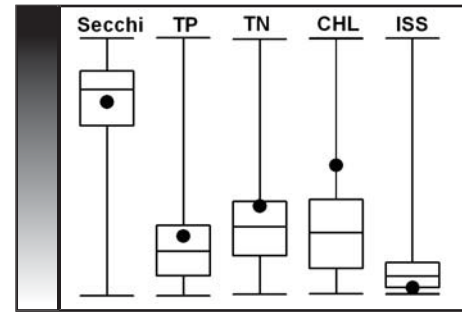


Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/5	142	23	770	2.8	0.5
7/11	30	63	1020	61.2	1.8
8/2	30	85	940	84.5	2.2
8/30	34	49	780	34.0	2.4
9/26	49	56	970	40.0	1.4
Mean	46	51	890	28.8	1.5

2006 SUMMARY

All samples were collected after July 11, except a single sample on April 5. This early season sample differs from the other samples, with extremely low chlorophyll concentrations and high clarity. The remainder of the year was characterized by more typical water clarity and an abundance of algae.

Phosphorus and nitrogen concentrations were higher in Rothwell lake in 2006 than seen in most Missouri lakes. The mean chlorophyll was still higher than observed in more than 75% of Missouri lakes despite the inclusion of the early sample. Suspended sediment concentrations (ISS) were lower than observed in 75% of Missouri lakes.



Relative Rank Graph
See page 11 for details

TRENDS

Chlorophyll concentrations were higher in 2006 than previously measured, which resulted in reduced water clarity. While phosphorus concentrations were higher in 2006 than in previous years, neither nitrogen nor suspended sediment concentrations were substantially higher than observed in 2006.

