

Stephens Lake

Boone County

2008 DATA



Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
6/1	25	37	600	16.4	4.7
7/20	42	25	440	6.9	3.2
9/3	39	33	460	12.1	4.0
Mean	34	31	495	11.1	3.9

2008 SUMMARY

Stephens Lake was only monitored on three occasions during 2008. The minimal number of samples limits our ability to describe seasonal trends in water quality. All parameters appeared to be quite stable in 2008, though that stability may be an artifact of the small number of samples. Secchi transparency fluctuated slightly as the amounts of algae and inorganic suspended solids varied.

Stephens Lake has been sampled during three years. The data indicate that algal chlorophyll in 2006 was notably higher, with a geometric mean that was three times greater than the other two years. Both phosphorus and nitrogen were also higher in 2006 suggesting that algal levels in this lake do respond to differences in nutrient concentrations. The inorganic suspended solids concentrations have been comparable from one year to the next. The Stephens Lake morphology and hydrology have not yet been assessed, so nutrient criteria cannot be calculated.

TRENDS

