Lamar City Lake, Site 1

Barton County

2006 DATA

Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/25	42	39	520	13.8	3.4
5/16	36	60	870	22.9	3.6
6/9	42	64	1010	29.5	1.4
6/26	30	72	980	41.8	3.0
7/26	24	93	1100	49.2	3.4
8/11	30	83	1600	73.9	2.2
8/30	24	81	1120	52.5	2.8
9/20	30	62	1010	42.1	2.4
Mean	**32**	**67**	**986**	**36.5**	**2.7**

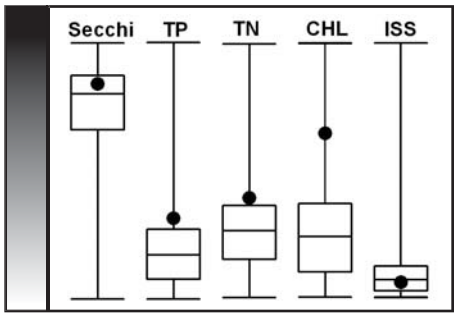
2006 SUMMARY

Nutrient and chlorophyll concentrations in Lamar City Lake are among the highest 25% of Missouri lakes, while suspended sediments are just under the median.

Phosphorus and chlorophyll concentrations increase from their 2006 low values at the beginning of the season and then reach their peak on August 11 before decreasing again.

Early season Secchi transparency values were greater than the seasonal mean, likely due to lower nutrient concentrations and subsequently less algae than measured after mid-June.

Lamar City Lake has a mean Secchi transparency value that is shallower than half of Missouri's lakes.



Relative Rank Graph
See page 11 for details

TRENDS

Aside from some extreme chlorophyll concentrations in 2004, the conditions in Lamar Lake have varied little in the last 4 years.