

# Binder Lake

Cole County

2006 DATA

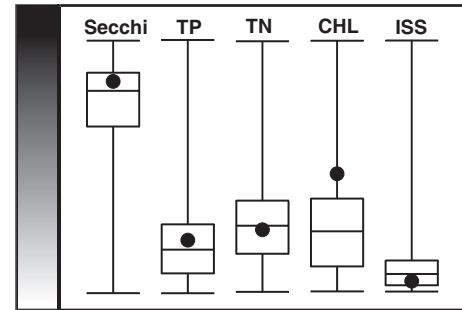


Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/24	68	27	500	5.8	1.5
5/14	43	32	560	18.8	2.1
6/16	32	48	670	22.6	1.6
7/4	28	63	790	43.9	1.9
7/18	30	52	810	27.8	2.5
8/10	27	54	780	40.8	1.4
8/28	26	66	840	54.0	2.2
9/19	21			41.4	4.1
<b>Mean</b>	<b>32</b>	<b>47</b>	<b>695</b>	<b>26.9</b>	<b>2.0</b>

2006 SUMMARY

The pattern displayed in Binder Lake of increasing nutrients and chlorophyll through the sample season differs from the pattern typically observed in Missouri lakes. Usually maximum values, especially for nutrients, occur in the spring with decreases as summer progresses. Variations in TN and TP were normal, with minimums values differing from maximums by factors of ~2 to 2.5. Chlorophyll varied by a factor of 10, with minimum value of 5.8 and a maximum of 54.0 µg/L.

All parameters except chlorophyll were ranked near the statewide median, making Binder Lake “typical” for Missouri. Chlorophyll levels were high relative to nutrient concentrations, ranking in the upper 25% of what we normally see in Missouri lakes.



Relative Rank Graph  
See page 11 for details

TRENDS

Summertime phosphorus and chlorophyll concentrations in 2006 were higher than those in 2005, but comparable to past levels. There are no obvious trends of changing water quality in Binder Lake.

