

# Tri City Lake

Boone County

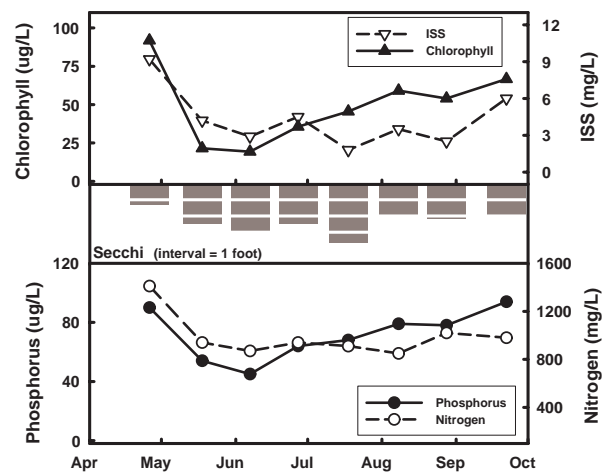
2008 DATA



Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/26	16	90	1410	91.8	9.2
5/18	30	54	940	21.5	4.2
6/7	36	45	870	19.3	2.9
6/27	30	64	940	35.6	4.5
7/18	44	68	910	45.5	1.8
8/8	24	79	850	59.1	3.5
8/28	26	78	1020	54	2.5
9/22	24	94	980	66.7	6
<b>Mean</b>	<b>28</b>	<b>70</b>	<b>978</b>	<b>43.6</b>	<b>3.8</b>

2008 SUMMARY

The water quality parameters displayed an interesting array of seasonal patterns in Tri City Lake in 2008. All parameters (except Secchi transparency) started the season at high levels, followed by decreased concentrations over the next few months. Phosphorus and chlorophyll values then slowly increased over the rest of the summer and into the fall, while nitrogen and inorganic suspended solids fluctuated the remainder of the season with no strong trend towards increasing or decreasing levels. Often in Missouri reservoirs the phosphorus concentrations tend to trend with inorganic suspended solids. This was not the case this past summer in Tri City Lake, suggesting that the phosphorus concentrations measured at the dam may not relate to turbid inflows from the watershed.



TRENDS

During the last three years, maximum inorganic suspended solid values have not been nearly as high as those measured during 2004 and 2005. Continued monitoring of Tri City Lake will determine if there is a long-term trend for lower ISS. The extreme nitrogen and chlorophyll values measured in 2007 seem, at this point, to be anomalies. No long term trends in water quality are currently identifiable in Tri City Lake.

