Tri City Lake

Boone County
Latitude: 39.1904 Longitude: -92.2085

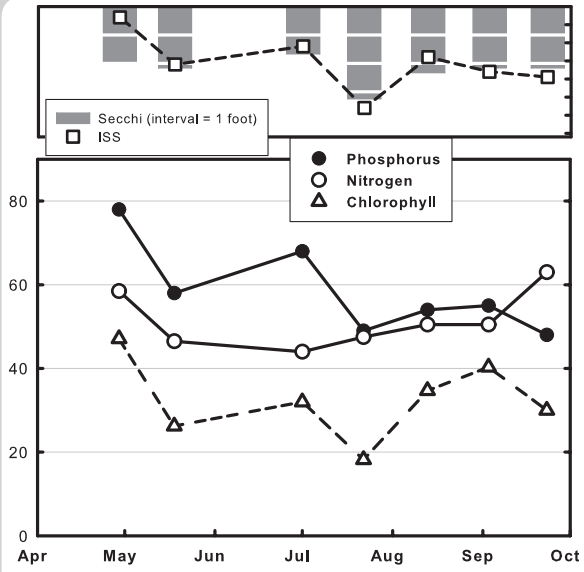
2011 DATA

Date	4/29	5/18	X	7/1	7/22	8/13	9/3	9/23	Mean
Secchi (inches)	24	26		20	39	28	26	26	27
TP (µg/L)	78	58		68	49	54	55	48	58
TN (µg/L)	1170	930		880	950	1010	1010	1260	1023
CHL (µg/L)	47.1	26.2		32.0	18.2	34.7	40.3	30	31.4
ISS (mg/L)	6.4	3.8		4.8	1.4	4.2	3.4	3.1	3.6

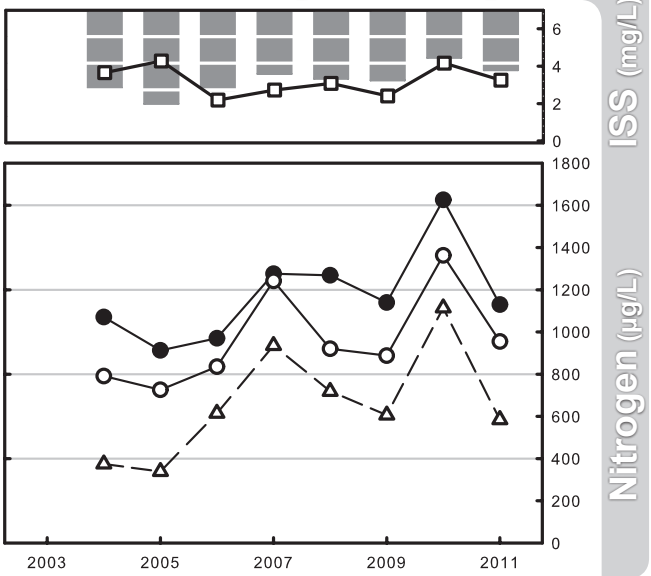
Water quality in Tri City Lake showed moderate levels of variation during the 2011 season, with no strong seasonal patterns. Chlorophyll to phosphorus ratios indicate that algae in Tri City Lake were fairly efficient at using the available nutrients, with the ratio averaging 0.56 for the season (median value for Missouri lakes is 0.31 with an inter-quartile range of 0.22 -0.44).

Long-term phosphorus and nitrogen data show that these two nutrients have followed the same pattern of variation since sampling began in 2004. The maximum annual value for each nutrient has been about 1.8 times higher than the minimum annual value, representing a considerable amount of year-to-year variability. Algal chlorophyll concentrations have mimicked the nutrients since 2004, with the maximum annual value being about 3 times higher than the minimum.

2011 GRAPHS



TREND GRAPHS



See page 3 for help interpreting graphs