

Jennings Park Lake



(Koeneman Park Lake)

2009 DATA

St. Louis County
 Latitude: 38.7384 Longitude: -90.2583

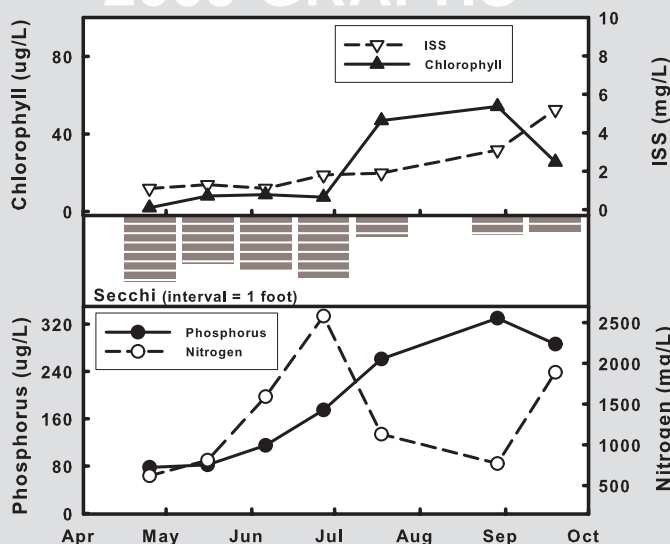
Date	4/25	5/16	6/6	6/27	7/18	X	8/29	9/19	Mean
Secchi (inches)	87	64	72	81	29		26	22	47
TP (µg/L)	78	82	115	175	261		330	286	164
TN (µg/L)	620	810	1590	2580	1130		770	1890	1190
CHL (µg/L)	2.0	8.0	8.7	7.4	46.9		54.2	25.5	13.1
ISS (mg/L)	1.1	1.3	1.1	1.8	1.9		3.1	5.2	1.9

Jennings Lake behaves differently from the average Missouri lake in that nutrients and inorganic suspended sediment (ISS) concentrations were minimal early in the sample season and generally increased as the summer progressed. The range of ISS values was fairly low (4.1 mg/L), while the nutrients showed extreme ranges (phosphorus ranging by 252 µg/L and nitrogen ranging 1960 µg/L). One point of interest is that nitrogen peaked in late June, phosphorus peaked in late August and ISS reached maximum in September. Algal chlorophyll trended with phosphorus.

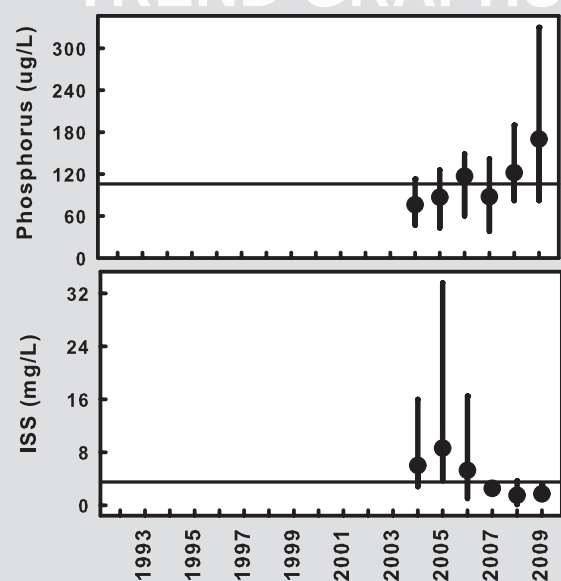
maximum from most previous summers. The extremity of the 2009 phosphorus levels, following the 2008 data which were slightly higher than normal, give the impression that phosphorus is on the rise in Jennings Lake. Due to the amount of overlap in the data, it is hard to identify this as a trend. In contrast, the ISS values during the last three summers have been low and stable relative to the first three summers this lake was monitored. The data suggest that there has been a substantial change in ISS levels in the lake.

Phosphorus levels during 2009 were notably higher than past measurements, with the 2009 average exceeding the

2009 GRAPHS



TREND GRAPHS



See pages 10-11 for help interpreting graphs