

Jennings Park Lake



(Koeneman Park)



2011 DATA

St. Louis County
Latitude: 38.7384

Longitude: -90.2583

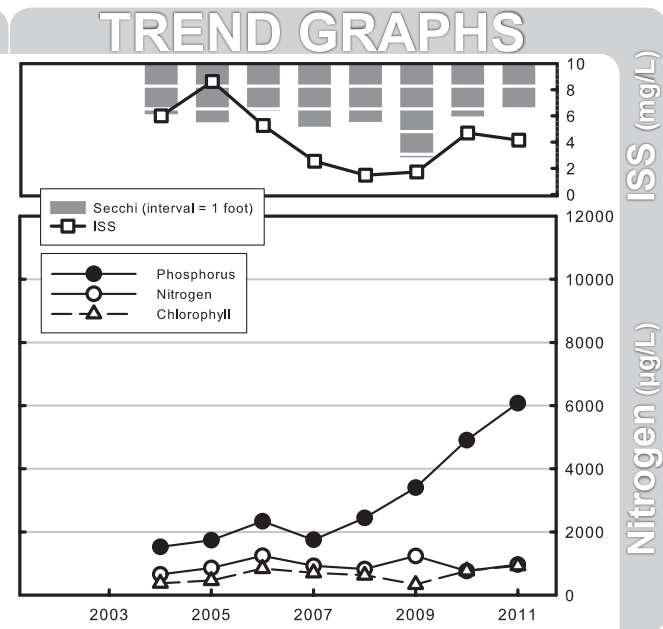
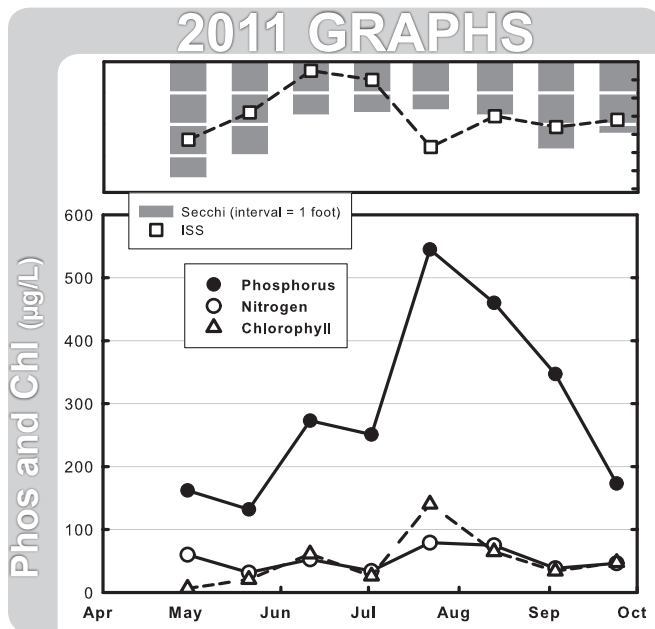
Date	4/30	5/21	6/11	7/2	7/22	8/13	9/3	9/24	Mean
Secchi (inches)	44	36	20	19	18	20	33	27	26
TP (µg/L)	162	132	273	251	545	460	347	173	262
TN (µg/L)	1200	630	1050	680	1580	1500	770	930	989
CHL (µg/L)	6.3	20.7	61.1	25.9	140.3	64.8	33.8	47.5	36.3
ISS (mg/L)	2.7	4.2	6.5	6	2.3	4	3.4	3.8	3.9

This small, shallow, lake is located in Koeneman Park in Jennings. The lake is young, and has been monitored since the year it first filled in with water. This lake is managed and stocked for fishing by MDC, including winter trout fishing.

Total phosphorus concentrations in this lake are remarkably high. The 2011 mean phosphorus in Koeneman Park Lake was 5 times greater than the statewide mean. On July 22 the phosphorus concentration reached 545 µg/L, more than 10 times greater than the long-term statewide mean. Nitrogen concentrations, while high, were comparatively lower at 50% greater than the statewide mean. As expected, there is abundant phosphorus in this lake. The nitrogen to phosphorus ratio was 3.8, compared to the statewide average

of 16.3. Aside from the very high phosphorus concentrations, this lake is similar to many Missouri lakes.

Seasonal mean phosphorus concentrations appear to be trending upward across the past 3 or 4 years. Sediment, nitrogen and chlorophyll values do not appear to be trending in any direction.



See page 3 for help interpreting graphs