

Blue Springs Lake

Jackson County

2008 DATA

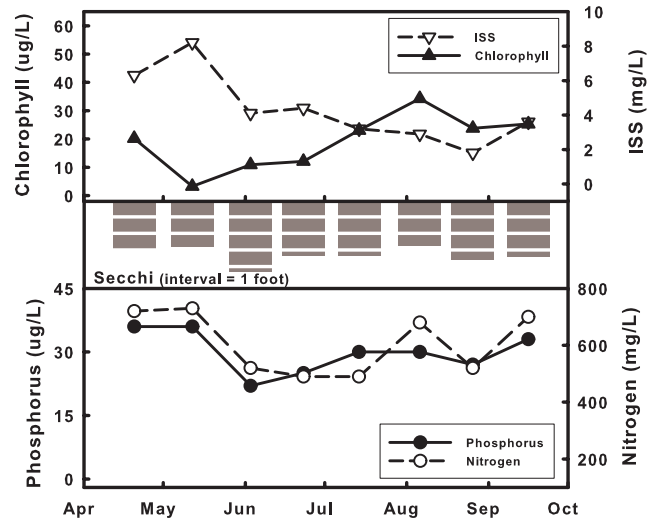


Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/20	36	36	720	20.2	6.3
5/12	34	36	730	3.3	8.2
6/3	52	22	520	10.9	4.1
6/23	40	25	490	12.1	4.4
7/14	40	30	490	23.1	3.2
8/6	33	30	680	34.3	2.9
8/26	43	27	520	23.8	1.8
9/16	41	33	700	25.3	3.6
Mean	39	29	597	16.0	3.9

2008 SUMMARY

Blue Springs Lake has been monitored each of the LMVP's 17 sampling seasons. Water quality measurements were quite stable in Blue Springs Lake during 2008. Secchi transparency varied only 16 inches, averaging 39 inches. The average phosphorus concentration was 29 µg/L, and varied by only 14 µg/L. Nitrogen concentrations were similarly stable. Chlorophyll concentrations varied tenfold, from a low of 3.3 to a high of 34.3 µg/L. The lowest chlorophyll concentration occurred in May, the same date as the seasonal maximum Inorganic Suspended Solid (ISS) value of 8.2 mg/L. This implies that there may have been enough particulates in the water to inhibit algal growth through shading.

All 2008 mean values were near the long-term average. Blue Springs lake is quite stable and (aside from a few exceptions) seasonal means are typically close to the respective long-term means. The long-term trend graphs highlight the high within-year variability of chlorophyll.



TRENDS

