

Longview Lake

Jackson County

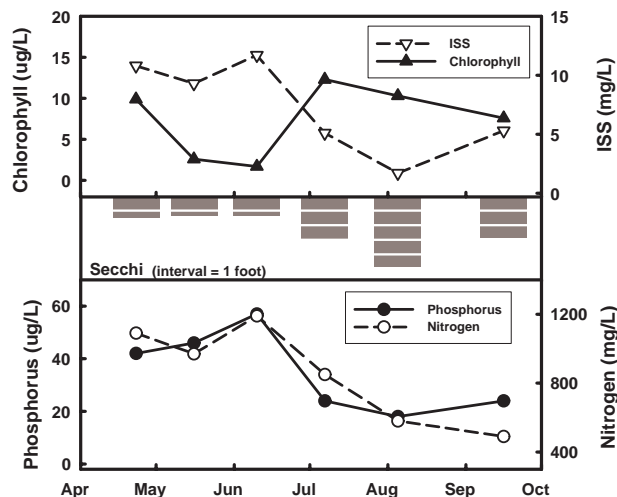
2008 DATA



Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/23	18	42	1090	9.9	10.8
5/16	16	46	970	2.6	9.3
6/10	16	57	1190	1.7	11.7
7/7	36	24	850	12.3	5.1
8/5	58	18	580	10.3	1.7
9/16	34	24	490	7.6	5.3
Mean	26	32	820	5.9	6.1

2008 SUMMARY

Early season rainfall brought sediments (ISS) and nutrients into Longview Lake in 2008. Secchi transparency values were less than two feet until July, due to high concentrations of suspended sediments. This turbid water resulted in reduced algal growth due to light limitation. Sediment concentrations decreased substantially during the second half of the season. This allowed more light into the water column and the algae responded with increased growth (relative to the available nutrients). Water clarity increased by roughly two-fold during the second half of the season despite the greater amount of algae present. Nutrient concentrations generally followed sediment values throughout the season.



TRENDS

The 2008 mean chlorophyll concentration was below the long-term mean value, thanks to the sediment-induced shading observed during the first half of the season. Despite the low 2008 mean chlorophyll value, the 2008 maximum was comparable to other years. The 2008 mean sediment concentration was the highest since 1993 and 2mg/L higher than the long-term mean. Despite the high 2008 mean ISS value, the maximum 2008 value was not atypical.

