

Little Dixie Lake



2009 DATA

Callaway County
Latitude: 38.9064

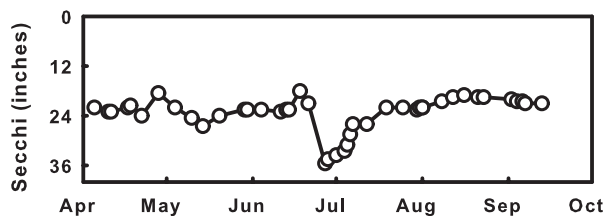
Longitude: -92.1225

Date	4/22	5/20	6/11	7/7	7/25	X	8/21	9/13	Mean
Secchi (inches)	24	24	23	22	22		20	22	22
TP (µg/L)	60	55	62	67	68		63	58	62
TN (µg/L)	1100	1130	1260	1060	1170		1140	1240	1155
CHL (µg/L)	49.3	31.9	48.1	39.0	48.2		52.5	44.4	44.2
ISS (mg/L)	5.9	7.0	6.8	3.7	3.5		5.1	4.1	5.0

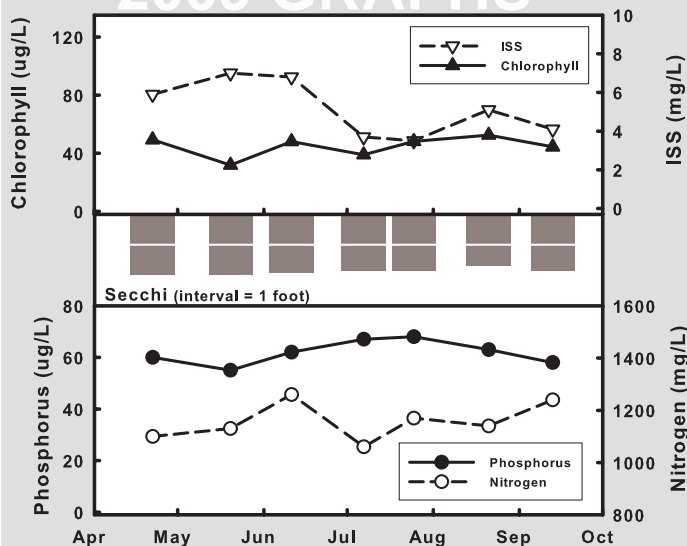
Little Dixie Lake was sampled 7 times in 2009, but the volunteer collected 43 Secchi measurements throughout the season. The seasonal means of the 7 LMVP sample dates and the 43 Secchi readings varies by only 1 inch (22 vs. 23 inches, respectively). Among the 7 readings taken on LMVP sampling days, Little Dixie Secchi values differed by only 4 inches throughout the season. However, among the 43 total Secchi readings, the maximum and the minimum differed by 18 inches, with a clear period occurring at the end of June that would

not have been apparent if only typical LMVP data were used. Overall, conditions were quite stable at Little Dixie Lake, with nutrient, chlorophyll and sediment values also showing little variation.

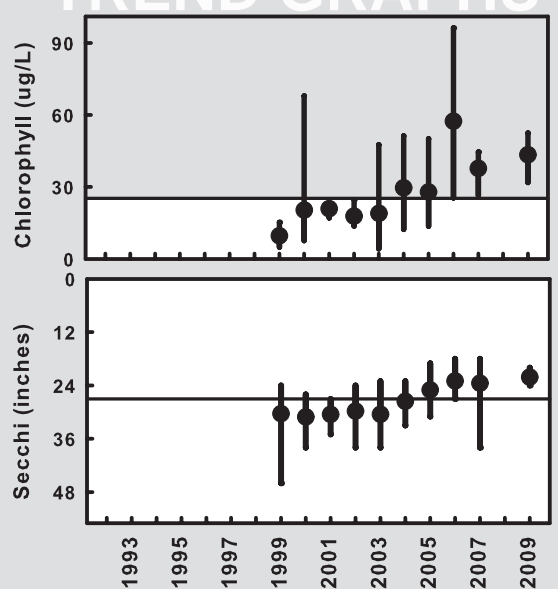
Despite the stability of water clarity, nutrient, chlorophyll and sediment values throughout the season, 2009 was not a great year for water quality at Little Dixie Lake. The 2009 seasonal mean nitrogen and phosphorus values (graphs not shown) were both well above the long-term means and indicate that concentrations may be trending upward. As a result of increasing nutrients, chlorophyll concentrations have increased as well, accompanied by decreasing water clarity.



2009 GRAPHS



TREND GRAPHS



See pages 10-11 for help interpreting graphs