

# Prairie Lee Lake



## 2010 DATA

Jackson County  
 Latitude: 38.9436 Longitude: -94.3294

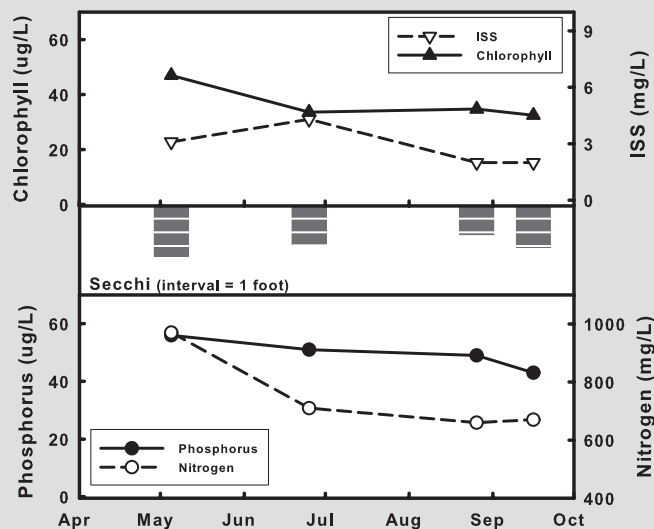
Date	X	5/5	X	6/25	X	X	8/26	9/16	Mean
Secchi (inches)		45		34			26	37	35
TP (µg/L)		56		51			49	43	50
TN (µg/L)		970		710			660	670	743
CHL (µg/L)		47.0		33.6			34.7	32.5	36.5
ISS (mg/L)		3.1		4.3			2.0	2.0	2.7

The limited number of samples collected during 2010 in Prairie Lee Lake hinders our ability to identify seasonal trends. Variations among the four samples were generally low for all water quality parameters. Chlorophyll concentrations were high relative to phosphorus levels, with the average ratio of chlorophyll to phosphorus of .74, a ratio that is about twice the statewide average. This indicates that the algae are efficient at using the nutrients within the lake.

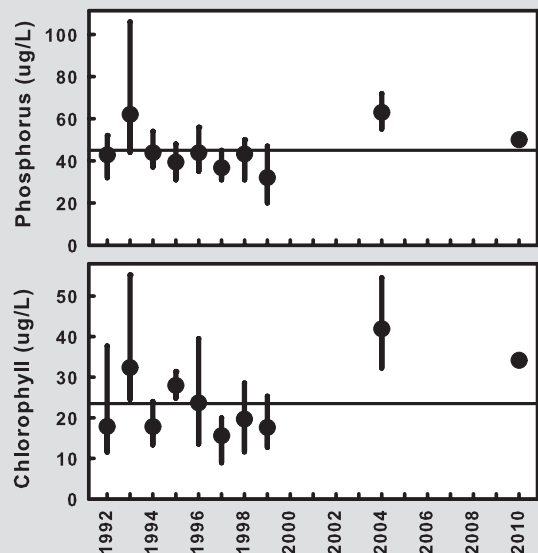
Chlorophyll levels during the last two summers of sampling have been above the long-term average. Note that there were only two samples collected during each summer

(May 15 – Sept. 15) in 2004 and 2010. The limited number of samples during these two years disallows us to call this a true trend. The phosphorus levels during these last two years of monitoring were higher than all of the other years except 1993, when average phosphorus was 62µg/L. Mean phosphorus values from 1992-1999 (sans 1993) ranged from 32 - 44µg/L.

## 2010 GRAPHS



## TREND GRAPHS



See pages 10-11 for help interpreting graphs