

Smithville Lake



2011 DATA

Latitude: 39.3953

Longitude: -94.5503

Date	4/29	5/19	6/11	7/3	7/17	8/7	8/28	9/18	Mean
Secchi (inches)	38	36	37	36	37	23	23	27	31
TP (µg/L)	37	32	30	38	31	28	30	40	33
TN (µg/L)	880	990	1100	650	640	740	770	780	805
CHL (µg/L)	3.0	5.5	25.4	25.6	17.9	33.9	32.8	27.1	16.6
ISS (mg/L)	6.9	7.9	3.2	6.7	2.3	1.4	2.8	4.7	3.9

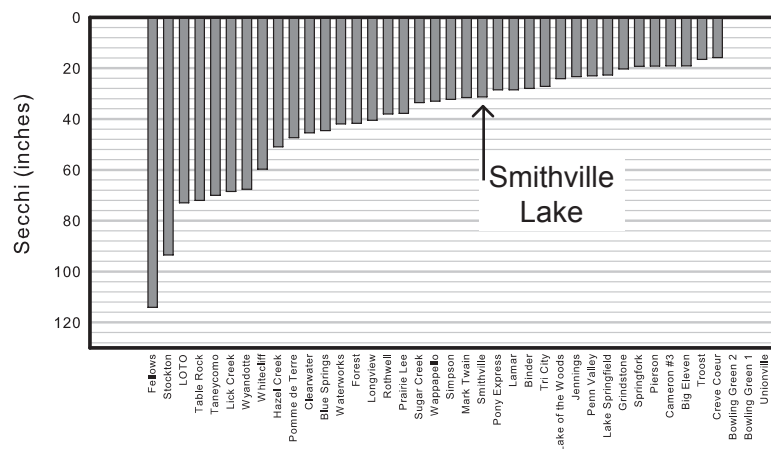
Water clarity varied across the sample season by 15 inches and averaged 31 inches, a foot less than the 2011 statewide mean. The low clarity can be attributed to both the sediment suspended in the water (ISS) and the algal biomass (CHL); each was somewhat higher than the 2011 statewide mean.

Chlorophyll concentrations increased sharply in June, and remained high through the end of the season. There was no significant change in nutrient concentrations during the season, so the change in algal abundance was due to other factors, possibly including grazing pressure and light limitation.

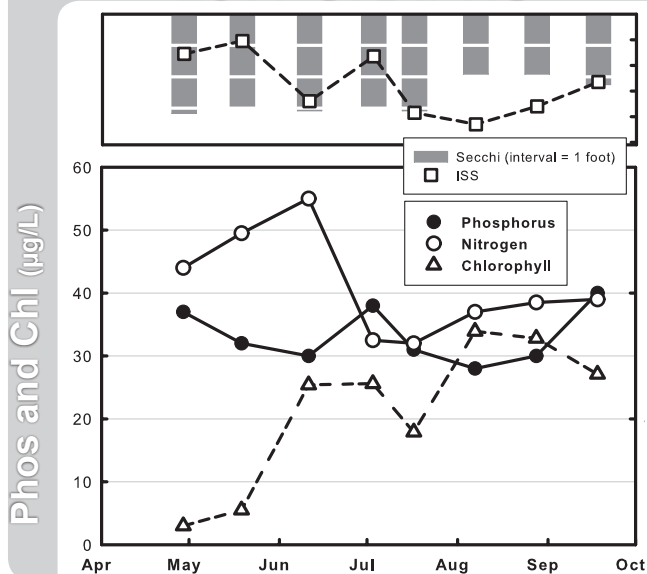
Smithville Lake has been monitored

at this site (near the dam) rather inconsistently since 1996. Data were collected in only 6 of the past 16 seasons, making trend detection impossible. Data from 2011 are comparable to previously collected data.

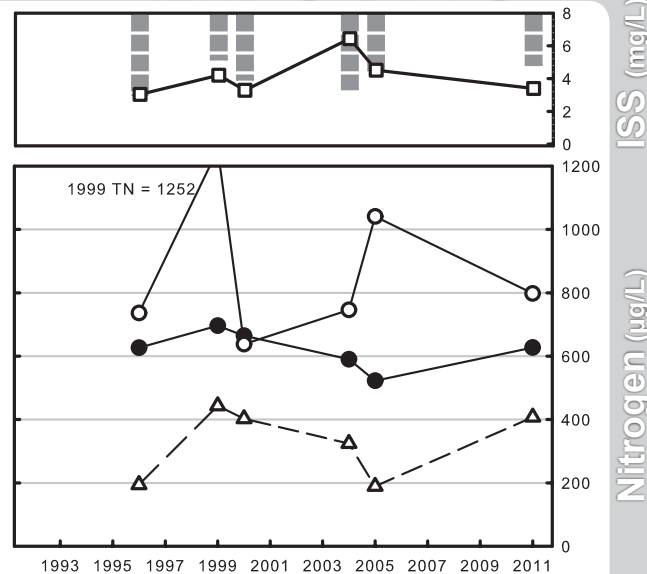
2011 Summer Mean Secchi Values



2011 GRAPHS



TREND GRAPHS



See page 3 for help interpreting graphs