

Troost Lake



2011 DATA

Jackson County
Latitude: 39.0755

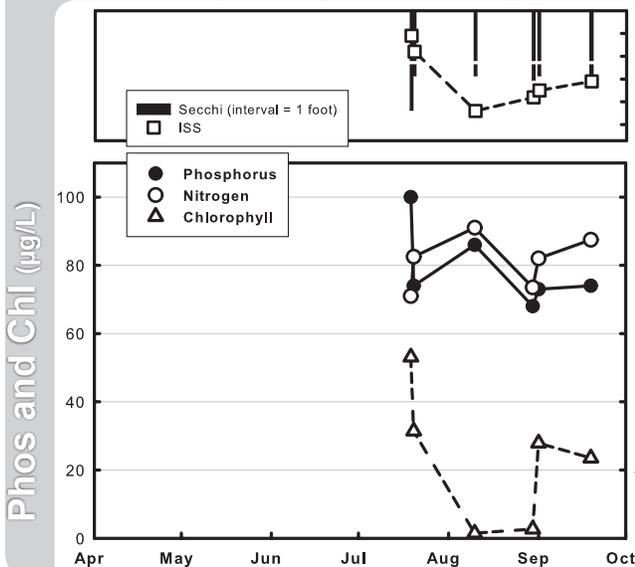
Longitude: -94.5647

Date	X	X	7/19	7/20	8/10	8/30	9/1	9/19	Mean
Secchi (inches)			23	15	15	16	15	16	16
TP (µg/L)			100	74	86	68	73	74	78
TN (µg/L)			1420	1650	1820	1470	1640	1750	1619
CHL (µg/L)			53.1	31.4	1.5	2.7	27.9	23.5	12.8
ISS (mg/L)			3.9	3.2	0.6	1.2	1.5	1.9	1.7

Nutrient levels in Troost Lake were fairly stable during the sample season with maximum values being about 1.4 times higher than minimum concentrations (it is common for phosphorus to vary 3-fold during a sample season in Missouri). While nutrients were stable they were high compared to the 2011 LMVP phosphorus and nitrogen averages. Chlorophyll concentrations in July and September were typical given the nutrient levels, while August chlorophyll values were extremely low. These low chlorophyll values were not the result of increased suspended sediment (ISS) levels which can cause light limitation. Also, decreased algal levels did not result in improved water clarity.

Some of the samples from Troost Lake were collected very close in time to one another (July 19 and 20; August 30 and September 1). Comparison of water quality results within the pairs of samples indicated notable differences. The July 20th sample had 41% less chlorophyll than the sample from the previous day, while the September 1st sample had a chlorophyll concentration that was 10 times that measured two days previously. It is quite likely that these differences are a result of wind accumulating the algae on one side of the lake. High values occur when the wind blows across the lake towards the near shore sample site and low values are measured when the wind blows away from the sample site.

2011 GRAPHS



TREND GRAPHS

Not enough data available to characterize a trend

See page 3 for help interpreting graphs