

# Grindstone Lake



## 2011 DATA

Dekalb County  
Latitude: 39.7744

Longitude: -94.2952

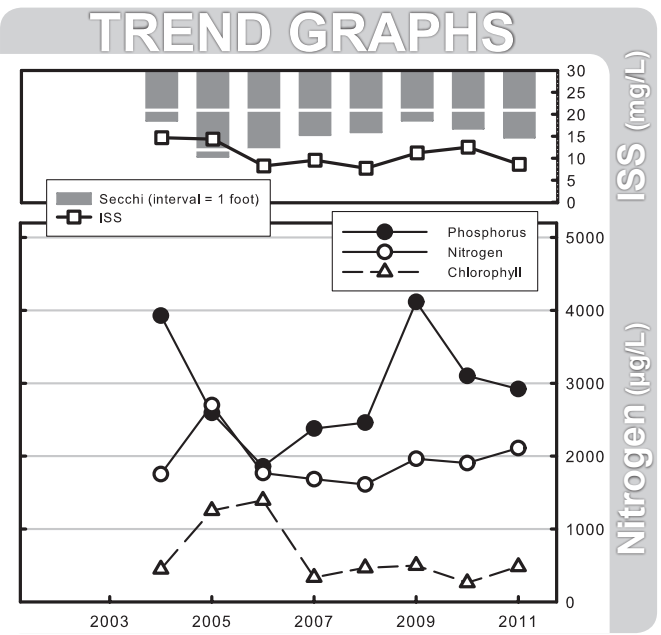
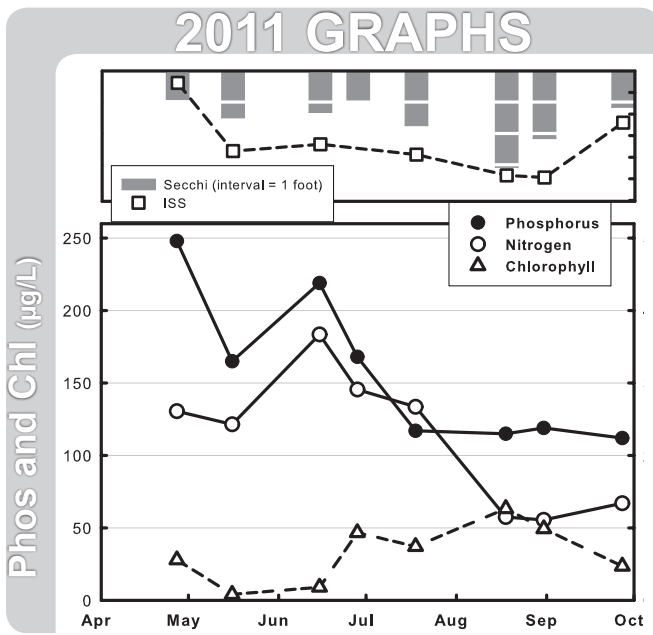
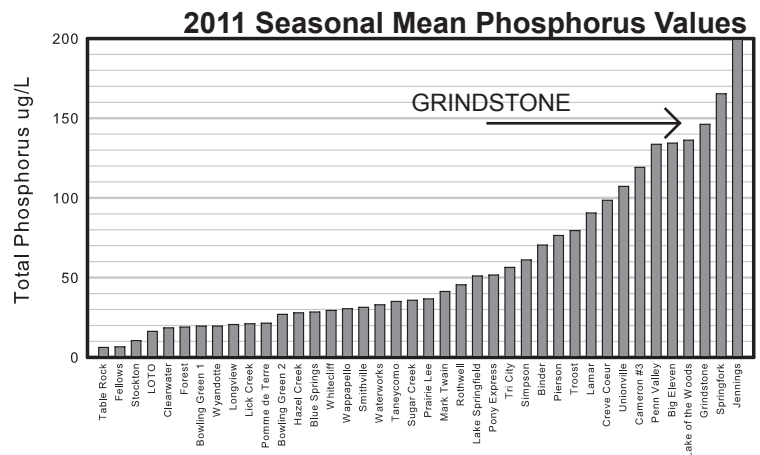
Date	4/27	5/16	6/15	6/28	7/18	8/18	8/31	9/27	Mean
Secchi (inches)	11	18	16	12	21	37	26	14	18
TP (µg/L)	248	165	219	168	117	115	119	112	151
TN (µg/L)	2610	2430	3670	2910	2670	1150	1110	1340	2048
CHL (µg/L)	27.9	4.1	9.0	46.7	37.1	63.3	49.4	23.6	24.5
ISS (mg/L)	27.2	11.4	13.0		10.6	5.8	5.3	18.0	11.3

Grindstone Reservoir is located about 4 miles northwest of Cameron. The very large watershed of this 180 acre reservoir covers 13,417 acres and is dominated by agricultural land use. The large ratio of watershed size to lake volume reduces the reservoir's ability to process the nonpoint source inputs associated with agriculture.

Water clarity averaged just 18 inches in 2011. This is typical of Grindstone, where seasonal average water clarity has been under 2 feet since 2005. Suspended sediment concentrations were high, but not atypical for this lake. While nutrient concentrations were among the highest measured in 2011 (see graph left), algal production was comparatively low because of

shading from sediment particles.

2011 was a typical year for Grindstone Reservoir water quality; there are no apparent trends.



See page 3 for help interpreting graphs