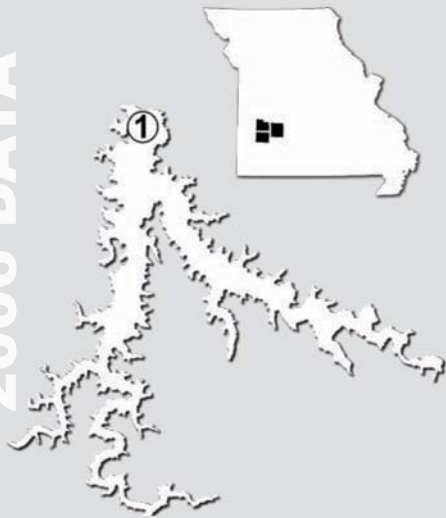


Stockton Lake, Site 1

Cedar County, Dade County and Polk County

2006 DATA



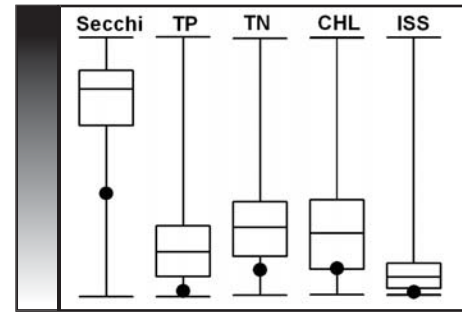
Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/22	126	11	520	11.2	0.1
5/20	159	10	500	4.5	0.6
6/2	78	13	380	5.5	2.0
6/22	125	10	490	5.8	1.0
7/14	88	13	300	10.1	2.5
8/4	106	8	350	5.2	0.7
8/26	88	10	330	8.3	2.1
9/14	84	8	380	6.3	2.1
Mean	104	10	399	6.8	1.0

2006 SUMMARY

Secchi transparency values at the dam site of Stockton Lake varied by nearly 7 feet. When chlorophyll and suspended sediment (ISS) concentrations are very low, even small changes will result in highly variable water clarity.

Sediment, nutrient and chlorophyll concentrations were among the lowest 25% of Missouri lakes. 2006 nutrient concentrations were lower in only two other lakes sampled by the LMVP, Table Rock and Bull Shoals. Likewise, clarity was higher at Stockton's dam than all other lakes except Table Rock and Bull Shoals.

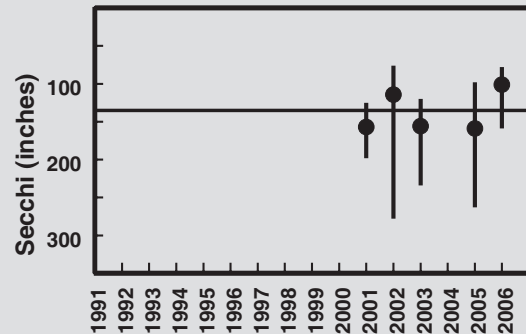
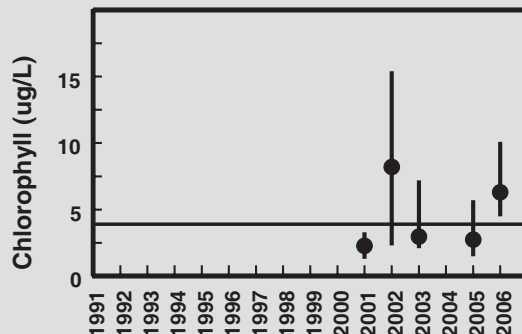
Water quality at the dam was very similar to water quality at the State Park Marina (site 2).



Relative Rank Graph
See page 11 for details

TRENDS

The mean 2006 chlorophyll concentration at the dam was double that observed last year. This resulted in an average Secchi transparency that was more than three feet less than observed in 2005. Variability of this magnitude appears to be common at Stockton Lake.



Stockton Lake, Site 2

Cedar County, Dade County and Polk County

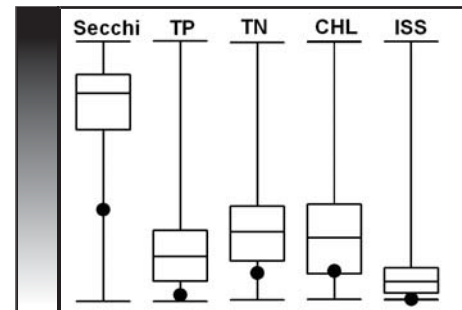
2006 DATA



Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/21	131	14	730	7.9	0.5
5/13	129	12	690	7.8	1.2
6/2	115	11	250	6.3	0.4
6/22	107	11	520	6.2	1.0
7/14	99	12	330	8.2	1.3
8/4	105	9	340	4.6	0.4
8/26	106	9	330	8.4	0.5
9/14	102	10	320	9.3	0.5
Mean	111	11	408	7.2	0.6

2006 SUMMARY

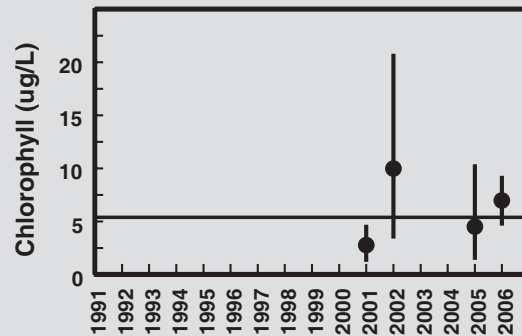
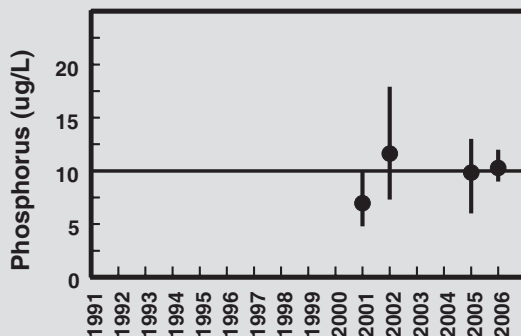
This site is located in the Little Sac Arm of Stockton Lake. Tributary sites typically have higher concentrations of nutrients, chlorophyll and sediments than found at the dam, however water quality at the State Park Marina (site 2) was virtually indistinguishable from water quality at the dam.



Relative Rank Graph
See page 11 for details

TRENDS

The range of phosphorus concentrations was lower in 2006 than in 2005, with a mean that differed by only 1 µg/L. Mean chlorophyll concentrations were higher in 2006 than 2005, though still comparable to the overall mean. There are no apparent trends for Stockton Lake, Site 2.



Stockton Lake, Site 3

Cedar County, Dade County and Polk County

2006 DATA

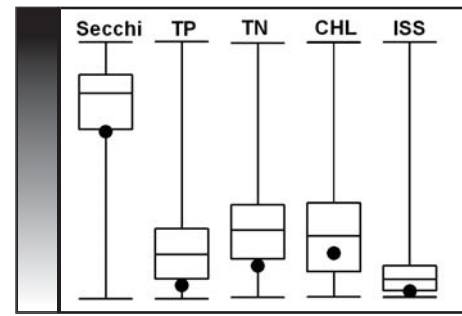


Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/18	92	16	700	7.6	1.5
5/17	77	18	590	13.0	1.2
6/29	54	21	390	15.0	1.7
7/21	64	12	240	5.3	1.1
8/23	55	14	380	10.2	1.2
9/27	45	18	550	17.4	1.7
Mean	63	16	448	10.6	1.4

2006 SUMMARY

Site 3 is on the western arm of Stockton Lake, near the Mutton Creek Recreation Area. Nutrient and chlorophyll concentrations were slightly higher at site 3 than at the other monitored sites at Stockton Lake in 2006.

In general, conditions at this uplake site were quite good in 2006. The mean Secchi depth was greater than observed at the dam in 75% of Missouri lakes. Nutrient and sediment concentrations were lower than found at the dam in 75% of Missouri lakes, and chlorophyll concentrations were lower than observed in half of Missouri's lakes.



Relative Rank Graph
See page 11 for details

TRENDS

2002 is the only other year with simultaneous data for this site and sites 1 and 2. Concentrations of phosphorus and chlorophyll were considerably higher at all three sites during that year.

