

Creve Coeur Lake

Saint Louis County

2006 DATA

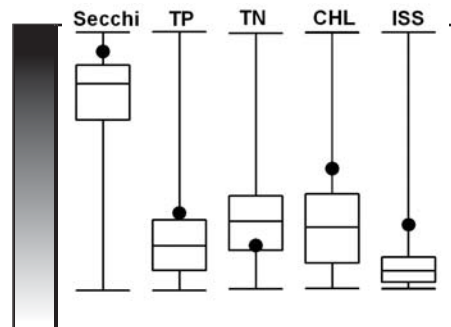


Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/24	24	53	510	25.0	7.4
5/21	24	56	480	21.2	3.8
6/4	25	36	480	19.7	5.4
6/25	18	48	390	12.6	6.8
7/22	16	81	600	28.5	13.2
8/13	18	87	560	38.3	14.0
9/2	14	84	710	39.4	13.6
9/24	12	95	640	47.1	23.4
Mean	18	64	538	26.8	9.4

2006 SUMMARY

Water quality in Creve Coeur Lake differed substantially from the first half to the second half of the season, with increases in nutrient, chlorophyll and inorganic suspended sediments concentrations during the last half of the season. The dock from which the volunteers normally sample was inaccessible most of the season, and small changes in sampling location may explain the apparent shift in water quality.

All parameter means for 2006 were high, relative to state rankings. The exception to this was nitrogen, which was near the 25th percentile. This is odd in that most lakes have phosphorus and nitrogen values that tend to rank similarly relative to state rankings.



Relative Rank Graph
See page 11 for details

TRENDS

Water Quality in Creve Coeur Lake may be improved compared to the mid 1990's when LMVP first monitored it. Inorganic suspended sediments concentrations have been lower since 2001, with none of the summer values during the last two years exceeding the long term average. The water clarity has improved due to the decrease in ISS, though the increase has been relatively small (~8 inches). The last two years have also had lower phosphorus levels (graph not shown).

