

Deer Ridge Lake

Lewis County

2007 DATA

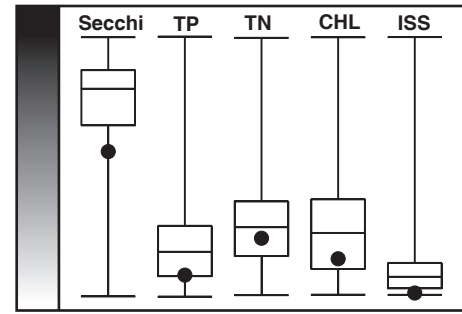


Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/25	76	24	640	13.5	1.1
5/11	64	26	680	4.1	1.6
5/31	76	26	660	5.3	1.0
6/26	75	27	600	4.2	0.4
7/12	84	17	610	7.5	0.7
7/30	74	22	780	16.9	0.6
8/25	71	21	640	16.8	0.8
9/13	92	20	630	11.0	1.0
10/5	92	18	560	10.6	0.8
Mean	78	22	640	8.8	0.8

2007 SUMMARY

All parameters were stable with the exception of chlorophyll, which displayed variation typical of a Missouri Reservoir. The seasonal pattern of chlorophyll was not accompanied by changes in nutrients or ISS, suggesting that biological factors were important in shaping the pattern (increased zooplankton grazing).

Summer mean values of water quality parameters in Deer Ridge Lake compare quite well to statewide rankings, with all parameters falling below the state median and ISS and Secchi being among the least turbid/clearest 25% of Missouri reservoirs. This is impressive given that Deer Ridge Lake is located in the northern plains region of the state.



Relative Rank Graph
See page 11 for details

TRENDS

Phosphorus values during 2006 and 2007 were lower and more stable than those measured in 2005. This may relate to dryer conditions during the last two years which would equate to less inflow (which transports phosphorus) into the lake. Annual mean chlorophyll values were very similar for the last three years. Comparison of the long-term mean value (horizontal line) to the proposed nutrient criteria (top of white box) indicates that Deer Ridge Lake is well below the criteria.

