Jennings Park Lake (Koeneman Park Lake)

Saint Louis County

2006 DATA

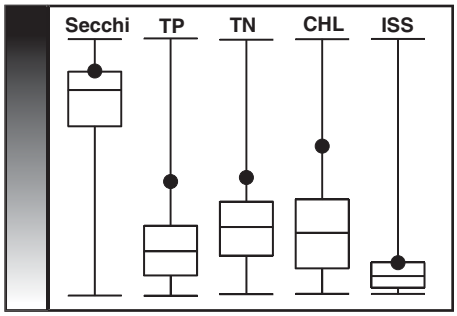
Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/15	88	31	750	3.5	1.2
5/6	49	72	620	16.8	2.5
5/27	42	60	610	10.7	1.0
6/17	25	137	1070	104.9	5.0
7/8	38	122	1050	3.3	6.1
8/6	20	149	2370	204.1	8.1
8/19	11	146	1850	174.9	16.5
9/16	14	122	1370	68.3	11.1
10/7	11	79	1400	86.7	12.1
Mean	**26**	**92**	**1116**	**33.0**	**4.9**

2006 SUMMARY

There was an extreme range of chlorophyll concentrations among the 9 samples of 2006, with the maximum being 58 times higher than the minimum. In just two months, Jennings Lake's chlorophyll concentrations showed the same range found across the entire state. Other parameters were not nearly as variable as chlorophyll, but did show significant ranges.

There was an apparent crash in the algal population on the July 8 sample date, as the chlorophyll concentration was only 3.3, while phosphorus concentration was 122 µg/L.

Extreme nutrient, sediment and chlorophyll concentrations placed Jennings lake among the 25% of Missouri's most nutrient-rich lakes. As a result, 75% of Missouri's lakes have more clarity than Jennings lake.



Relative Rank Graph
See page 11 for details

TRENDS

Phosphorus and chlorophyll concentrations are steadily increasing as monitoring continues. The range of 2006 chlorophyll concentrations in Jennings Lake is staggering, ranging from 3.3 to 204.1.

There are not enough years' worth of data to determine if a trend exists.