

# Jennings Lake

Jennings Lake (or Koeneman Park Lake) is a brand new 6-acre fishing lake in Jennings' Koeneman Park, in northern St. Louis County. While this lake is located in a park, the urban land use surrounding the park may affect water quality. Fishing on Jennings Lake is managed by the Missouri Department of Conservation.



Figure 44. Location of Jennings Lake.

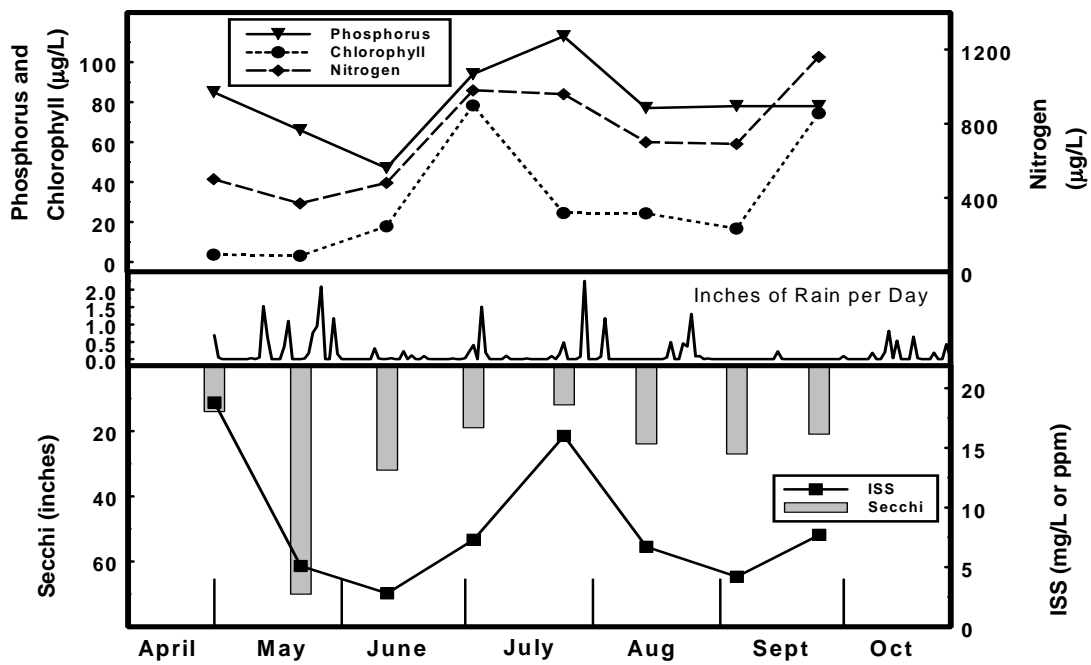


Figure 45. Seasonal fluctuations of parameters for Jennings Lake – 2004. Bars represent Secchi, line represents ISS.

Table 13. Descriptive statistics for Jennings Lake – 2004.

	<b>Secchi (inches)</b>	<b>TP (ug/L)</b>	<b>TN (ug/L)</b>	<b>CHL (ug/L)</b>	<b>ISS (mg/L)</b>
<b>Geometric Mean</b>	24	78	682	18.0	7.1
<b>Minimum</b>	12	47	370	3.0	2.8
<b>Maximum</b>	70	113	1160	78.3	18.8
<b>Number of Samples</b>	8	8	8	8	8

### 2004 Results

Figure 45 shows how the parameters nitrogen, phosphorus, algal chlorophyll, inorganic suspended solids and Secchi transparency varied in Jennings Lake during 2004. The descriptive statistics appear in Table 13.

A brief description of the results:

- The parameters were extremely variable throughout the sample season. This is expected, as vegetation in and around this new lake has not become established.
- The urban location and the young age of the lake may be responsible for the high ISS and high nutrient concentrations observed. The small size of the lake will magnify these effects.
- The Secchi transparency maximum of 70 inches on May 1 was the only observation over 30 inches and it coincided with low ISS and low chlorophyll concentrations.
- ISS concentrations got high enough on at least 2 occasions to have a negative effect on algae growth.