

Jennings Lake

Jennings Lake (or Koeneman Park Lake) is a brand new (2004) 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.



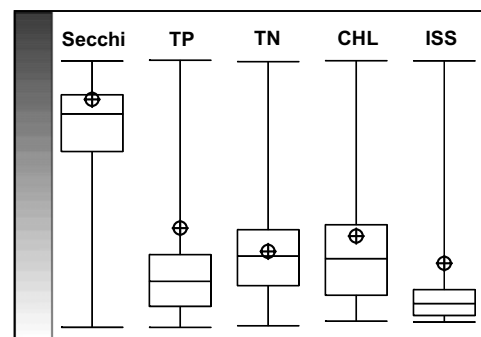
Location of Jennings Lake

Descriptive statistics for Jennings Lake – 2005

	Secchi (inches)	TP (ug/L)	TN (ug/L)	CHL (ug/L)	ISS (mg/L)
Geometric Mean	29	78	763	19.0	8.5
Minimum	22	34	410	5.0	3.7
Maximum	60	126	1430	64.9	33.6
Number of Samples	7	7	7	7	7

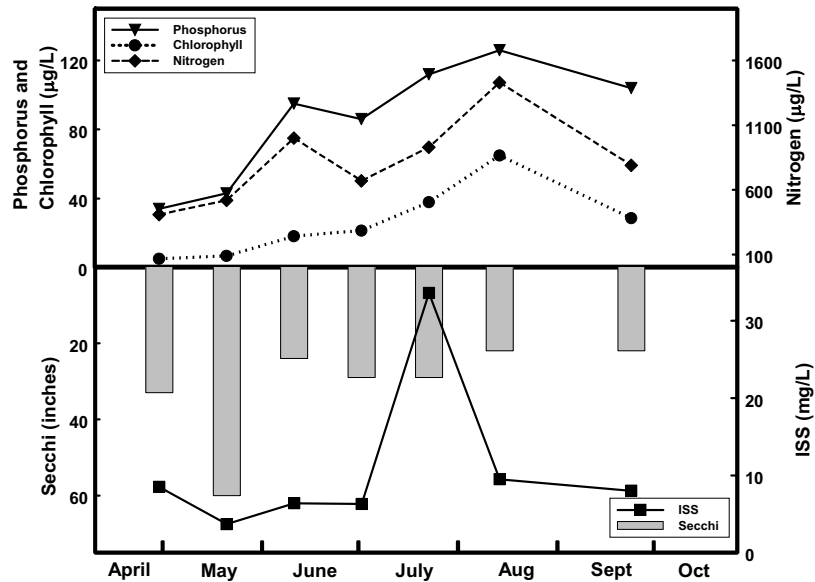
- Geometric mean values for all parameters were above the state-wide median. Phosphorus and ISS concentrations were higher than observed in 75% of Missouri lakes.
- Along with high values, all parameters showed a high amount of variation during the sample season (chlorophyll varied by 13-fold!).

Relative Rank for Jennings Lake



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Seasonal fluctuations of parameters for Jennings Lake – 2005



- Maximum Secchi transparency (60 inches) was recorded on a day when the minimal ISS value was measured and chlorophyll was low, indicating how much water clarity responds to slight decreases in algal biomass and ISS.
- Nutrients and chlorophyll follow the same pattern during the sample season. The increase in nutrients as the season progresses is the opposite of what we normally find in Missouri lakes.
- The maximum ISS value is difficult to explain, as none of the other parameters displayed such a dramatic increase on that day.