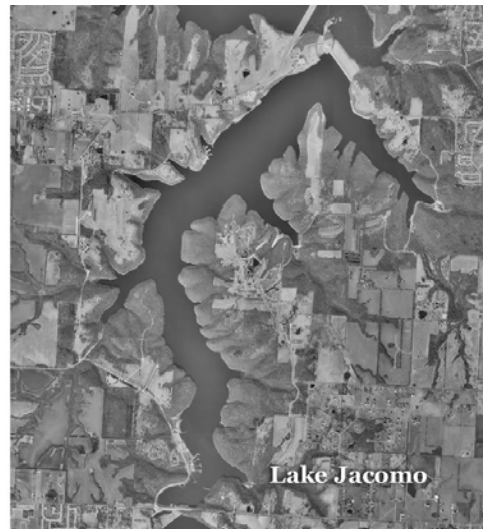
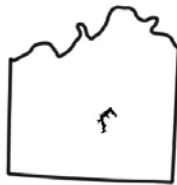


Lake Jacomo

Lake Jacomo is managed by the Jackson County Parks and Recreation Department and is located in Fleming Park. Most of this 1,068-acre lake's watershed is urban (56%) with forest, grassland and row crop comprising the rest. Prairie Lee Lake is located directly upstream and acts as a buffer between Lake Jacomo and much of the watershed.



Jackson County



Lake Jacomo

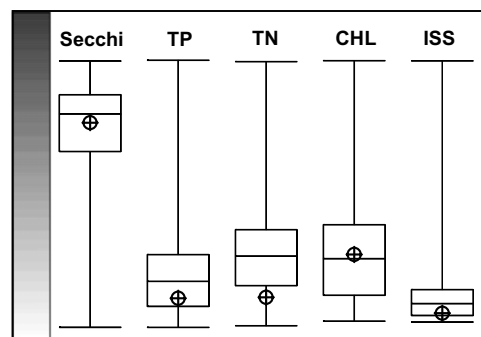
Location of Lake Jacomo

Descriptive statistics for Lake Jacomo – 2005

	Secchi (inches)	TP (ug/L)	TN (ug/L)	CHL (ug/L)	ISS (mg/L)
Geometric Mean	44	27	416	15.2	1.8
Minimum	26	19	240	5.3	0.8
Maximum	78	32	720	27.3	3.3
Number of Samples	8	8	8	8	8

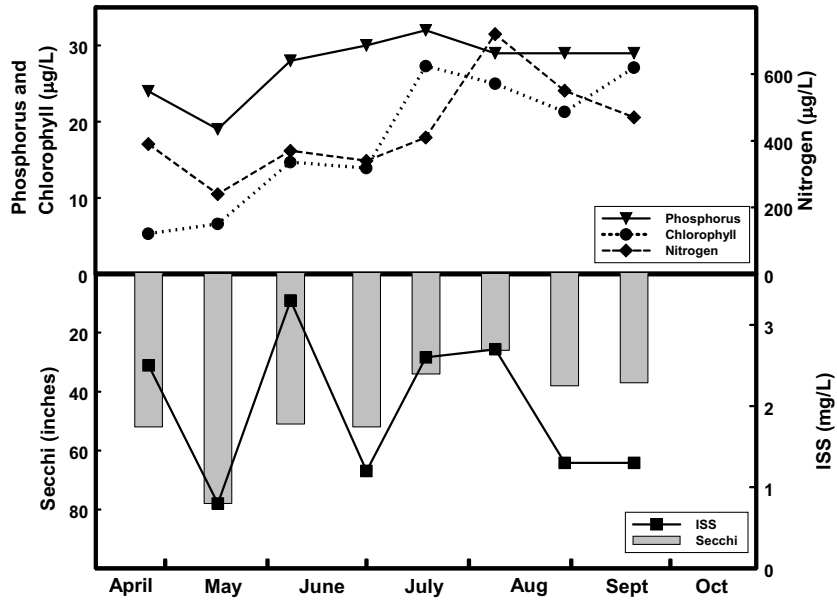
- Nitrogen concentrations for Lake Jacomo were in the bottom 25th percentile while chlorophyll concentrations were above the statewide median.
- Low levels of ISS relative to other lakes in the state may explain why chlorophyll values were higher than expected given the nutrient levels. In many Missouri lakes ISS block light and bind nutrients, thus leading to lower chlorophyll values.
- Variability during the sample season was low to normal with the exception of chlorophyll, which varied five fold.
- The increase in nutrients (and chlorophyll) during the sample season differed from the normal pattern of decreasing values as summer progresses.

Relative Rank for Lake Jacomo



Lake Jacomo

Seasonal fluctuations of parameters for Lake Jacomo – 2005



Phosphorus and Secchi trends in Lake Jacomo

Lake Jacomo became involved with the LMVP during our very first year and has been sampled every year since.

Since 1999, only 2004 has had even a single summer phosphorus value above 40µg/L. During the years prior, however, all except 1996 had maximum phosphorus values well above 40µg/L.

Secchi transparency values show no long term trend. Maximum clarity observations vary considerably from year to year.

