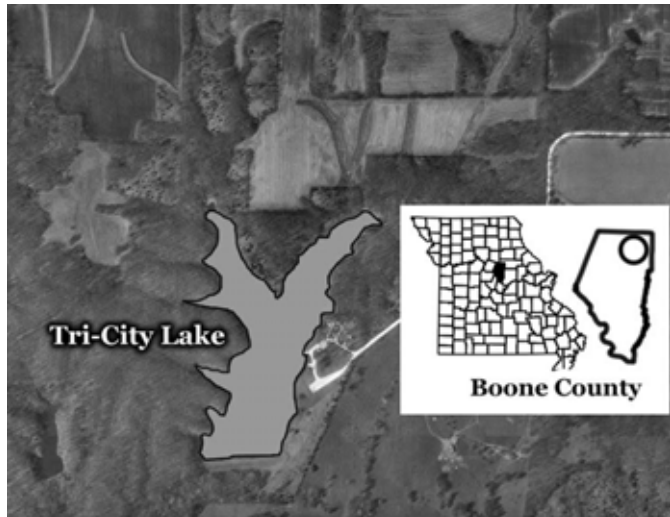


Tri City Lake

Tri City Community Lake is centrally located between Hallsville, Centralia and Sturgeon, in north-eastern Boone County, Missouri. This 28 acre lake has a watershed of 325 acres. 45% of the watershed is covered by row crops, 28% by forest and 17% by grassland or pasture.



Location of Tri City Lake

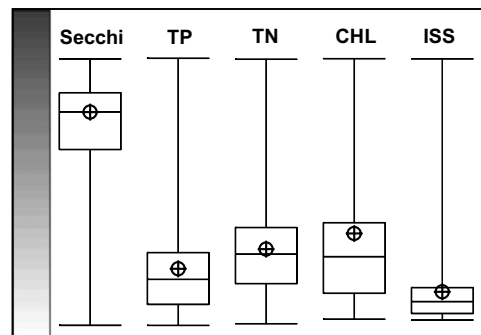
Descriptive statistics for Tri City Lake – 2005

| | Secchi (inches) | TP (ug/L) | TN (ug/L) | CHL (ug/L) | ISS (mg/L) |
|--------------------------|--------------------|--------------|--------------|---------------|---------------|
| Geometric Mean | 38 | 47 | 764 | 19.1 | 4.4 |
| Minimum | 24 | 33 | 640 | 9.9 | 2.7 |
| Maximum | 59 | 84 | 900 | 36.9 | 9.5 |
| Number of Samples | 12 | 12 | 12 | 12 | 12 |

2005 is the second year for sampling at Tri City Community Lake. The volunteer at Tri City Lake collected 12 samples between April 9 and November 4.

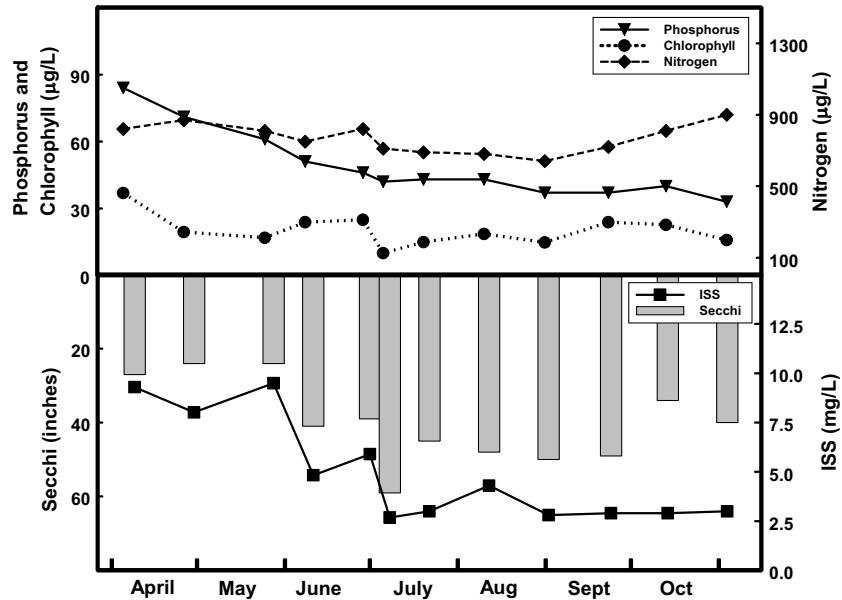
The low ratio of watershed to lake volume helps Tri City Lake to process the nutrients from the cropland in its watershed more efficiently than a similarly sized lake with a much larger watershed. Even though nearly half of Tri City Lake’s watershed is in row crop, all parameters are near the median for Missouri lakes.

Relative Rank for Tri City Lake



Tri City Lake

Seasonal fluctuations of parameters for Tri City Lake – 2005



Phosphorus and ISS concentrations decreased during the 2005 sampling season. Maximum and minimum values ranged more than two-fold for phosphorus and more than three-fold for ISS.

Nitrogen showed very little variation throughout the season, with the maximum value only about 40% higher than the minimum value.

Chlorophyll concentrations varied slightly more than did phosphorus concentrations, but unlike phosphorus showed no trend across the sampling season.

The maximum Secchi transparency and the minimum chlorophyll concentration both occurred on the July 8 sample date.