

## Sugar Creek Lake

Region - Glacial Plains

Sugar Creek Lake is a 346 acre lake located in Randolph County. Owned by the City of Moberly, it is used as the city's drinking water reservoir. Sugar Creek's watershed is approximately 6,700 acres.

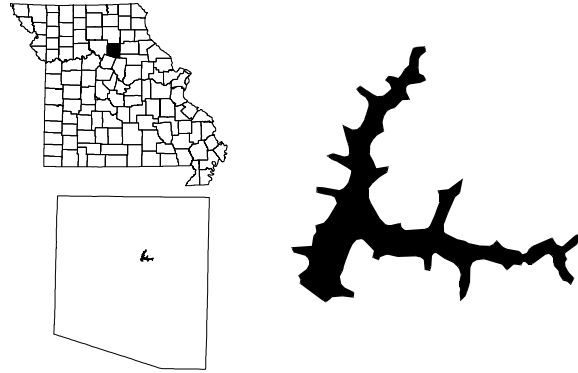


Figure 42. Location of Sugar Creek Lake.

Sugar Creek Lake was added to the program late in the season in 2000. The volunteers were only able to collect two samples, therefore there are not enough data to graph or establish trophic state of the lake. Three sites were sampled on 9-2 and 9-23 and the values are reported in Table 21. A full set of samples will be collected in the 2001 sample season and the parameters will be reported. Site 1 was at the dam, Site 2 was in the southern arm and Site 3 in the northern.

Table 21. Data collected on Sugar Creek Lake in 2000.

Site	Date	Secchi (inches)	Phosphorus ( $\mu\text{g/L}$ )	Nitrogen ( $\mu\text{g/L}$ )	Chlorophyll ( $\mu\text{g/L}$ )	ISS ( $\text{mg/L}$ )
1	9-2	25	65	840	35.0	5.6
1	9-23	27	80	1380	40.6	3.5
2	9-2	23	82	850	41.9	4.5
2	9-23	25	99	1390	92.4	5.4
3	9-2	26	58	780	27.5	4.5
3	9-23	16	119	990	96.9	8.6

ISS = Inorganic Suspended Solids