

# Simpson Park Lake

This 72 acre lake is located in Simpson Park, in southern St. Louis County. While the lake is in a park, the watershed stretches north more than five miles and is highly urbanized.

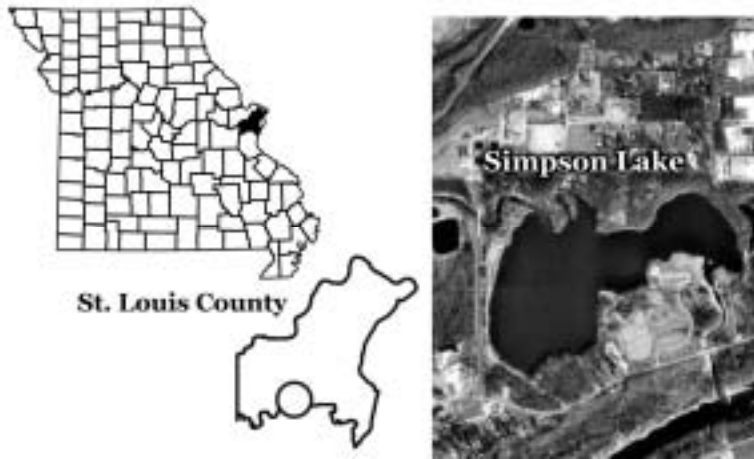


Figure 84. Location of Simpson Lake

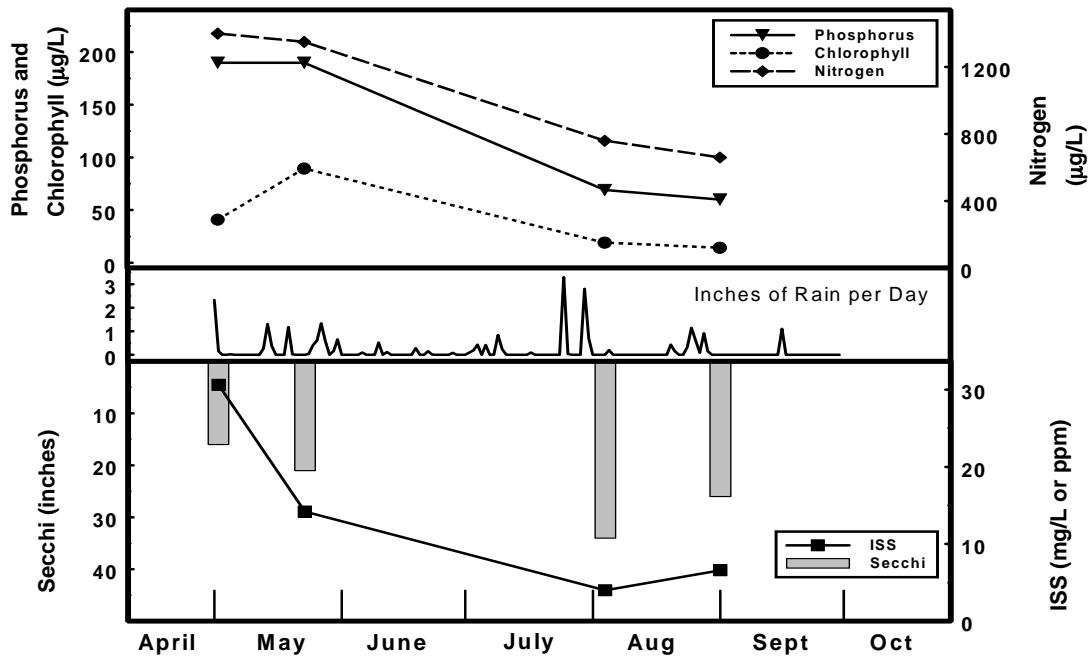


Figure 85. Seasonal fluctuations of parameters for Simpson Lake – 2004

Table 32. Descriptive statistics for Simpson 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>	23	111	987	31.6	10.3
<b>Minimum</b>	16	60	660	14.3	4.0
<b>Maximum</b>	34	190	1400	89.5	30.6
<b>Number of Samples</b>	4	4	4	4	4

### 2004 Results

Figure 85 shows how the parameters nitrogen, phosphorus, algal chlorophyll, inorganic suspended solids and Secchi transparency varied in Simpson Lake during 2004. The descriptive statistics appear in Table 32.

A brief description of the results:

- Only 4 samples were collected in 2004.
- High ISS concentration in first sample due to muddy inflow following rainfall.
- Nutrient and chlorophyll concentrations were high in Simpson Lake
- ISS concentrations were typically high in Simpson Lake in 2004, averaging 10.3 mg/L.
- Secchi transparency values did not exceed 3 feet.
- July rains did not seem to affect ISS or Secchi values.