

January-Wabash Lake

Region - Ozark Border

January-Wabash Lake, located in January-Wabash Park, is managed by the City of Ferguson. All of this 5.5 acre lake's watershed is urban. The Missouri Department of Conservation includes the lake in its Urban Fishing Program and stocks the lake with a variety of fish.

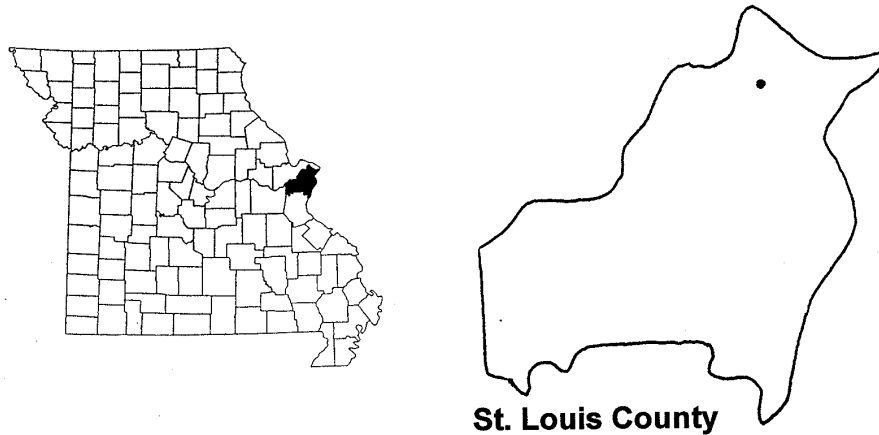


Figure 25. Location of January-Wabash Lake.

1999 Results

Figure 26 shows how the parameters phosphorus, nitrogen, algal chlorophyll, inorganic suspended solids, and Secchi transparency varied in January-Wabash Lake during the 1999 sampling season. A brief description of these results are:

- ▶ All parameters displayed considerable variability during the sample season.
- ▶ The nitrogen:phosphorus ratios suggest that the algae may have been limited by nitrogen. (See page 7 for further explanation of ratios.)
- ▶ Nutrient concentrations were high relative to inorganic suspended solid values. This may reflect the urban watershed where surface and storm-sewer runoff generally does not cause large amounts of erosion.
- ▶ Average values measured for phosphorus, nitrogen and chlorophyll were in the hypereutrophic range.

Table 12. Descriptive statistics for January-Wabash Lake - 1999.

Parameters	Average	Median	Minimum	Maximum
Chlorophyll ($\mu\text{g/L}$)	55.9	61.4	15.9	87.6
Nitrogen ($\mu\text{g/L}$)	1370	1490	940	1690
Phosphorus ($\mu\text{g/L}$)	133	121	79	201
ISS (mg/L)	10.0	9.4	5.5	15.2
Secchi (inches)	18	17	12	25

ISS = Inorganic Suspended Solids

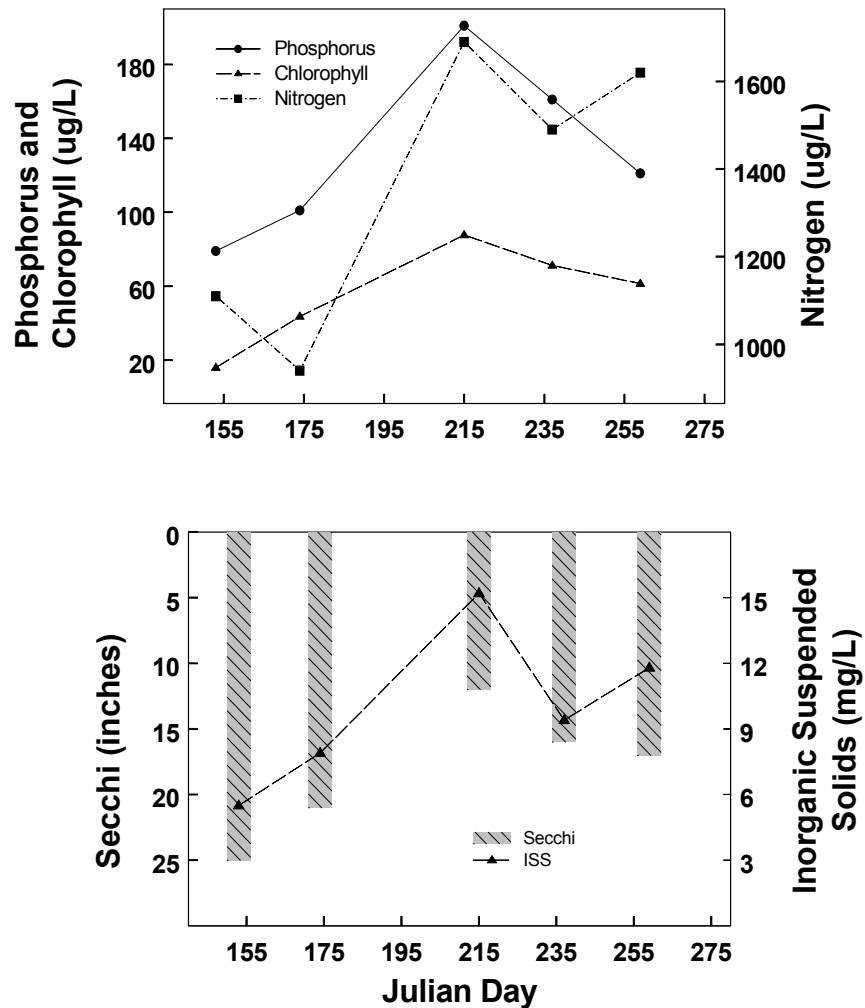


Figure 26. Seasonal fluctuations of parameters in January-Wabash Lake - 1999.

fluctuations