

## 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 lake is in the Urban Fishing Program and stocked with a variety of fish by the Missouri Department of Conservation.

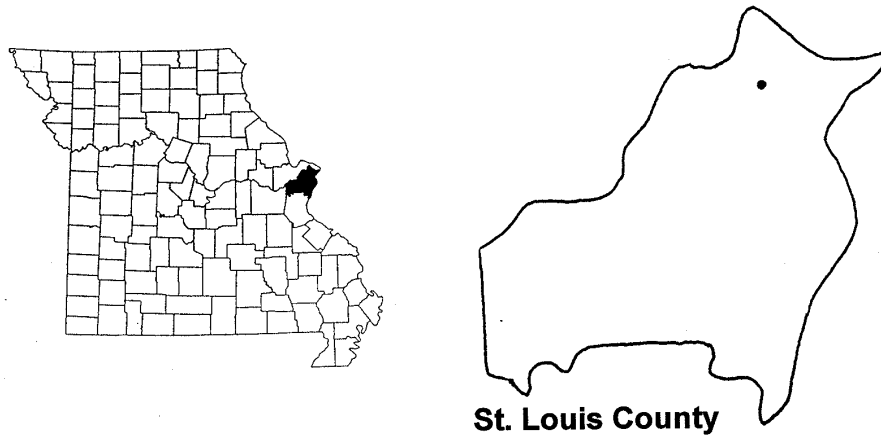


Figure 21. Location of January-Wabash Lake.

### 2000 Results

Figure 22 shows how the parameters phosphorus, nitrogen, algal chlorophyll, inorganic suspended solids, and Secchi transparency varied in January-Wabash Lake during the 2000 sampling season. A brief description of these results are:

- ▶ Six samples were collected, the first on 4-28 and the last on 9-20.
- ▶ Due to the fact that this lake has an aerator, stratification probably does not occur. See page 12 for further explanation of stratification.
- ▶ Chlorophyll values were higher this year than last year. Further sampling will help determine if this is a trend or just normal season to season fluctuations.
- ▶ Average values measured for phosphorus, nitrogen and chlorophyll were in the hypereutrophic range.

Table 10. Descriptive statistics for January-Wabash Lake - 2000.

Parameters	Average	Median	Minimum	Maximum
Chlorophyll ( $\mu\text{g/L}$ )	88.2	82.9	40.8	175.8
Nitrogen ( $\mu\text{g/L}$ )	1448	1450	1010	1920
Phosphorus ( $\mu\text{g/L}$ )	151	151	106	189
ISS (mg/L)	12.4	11.1	5.4	22.0
Secchi (inches)	17	17	13	22

ISS = Inorganic Suspended Solids

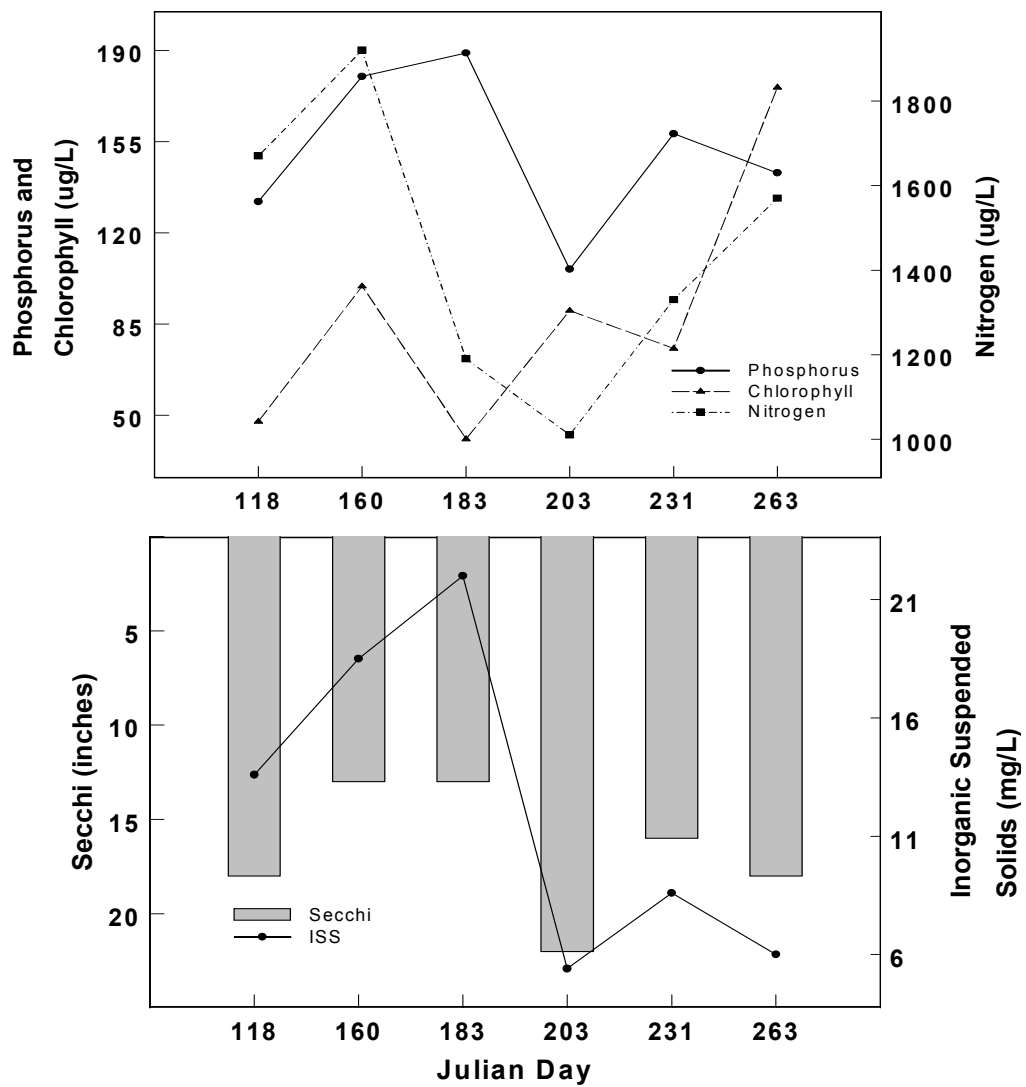


Figure 22. Seasonal fluctuations of parameters in January-Wabash Lake - 2000.

Season