Ashland Lake

Boone County

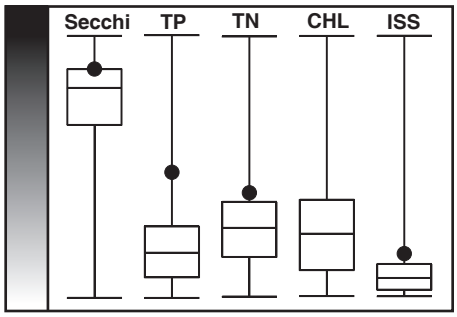
2007 DATA

Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
5/25	20	89	1080	84.2	1.2
6/22	17	124	680	68.3	16.1
9/10	55	87	1350	275.2	13.3
Mean	**27**	**99**	**1000**	**116.5**	**6.3**

2007 SUMMARY

Water quality in Ashland Lake was variable during 2007, with elevated levels of nutrients, chlorophyll and inorganic suspended solids. Data from September 10th is unusual in that the Secchi reading was 55 inches even though chlorophyll concentrations were extremely high. The field data sheet noted that surface algae was present. A surface scum of algae would lead to high measured chlorophyll while having a minimal impact of water clarity.

Ashland Lake had mean nutrient, ISS and Secchi values that were in the upper quartile of statewide data. Mean chlorophyll for 2007 was well above the 55 µg/L upper limit shown in the Relative Rank Graph.



Relative Rank Graph
See page 11 for details

TRENDS

Phosphorus in Ashland Lake varies substantially from year to year as well as within individual years. The same is true for chlorophyll, with even greater year to year variability. Currently there are no identifiable water quality trends in Ashland Lake.

Phosphorus, nitrogen and chlorophyll all exceed proposed criteria levels (as indicated by the white box).