



Minnesota Pollution Control Agency

520 Lafayette Road
St. Paul, MN 55155-4194

Fish Lake, Scott County

National Lake Assessment Project (NLAP)

Sample Date: August 6, 2007

Minnesota Lake ID: 70-0069

Area: 171 acres

Watershed Area: 6,260 acres

Ecoregion: North Central Hardwoods Forests (NCHF)

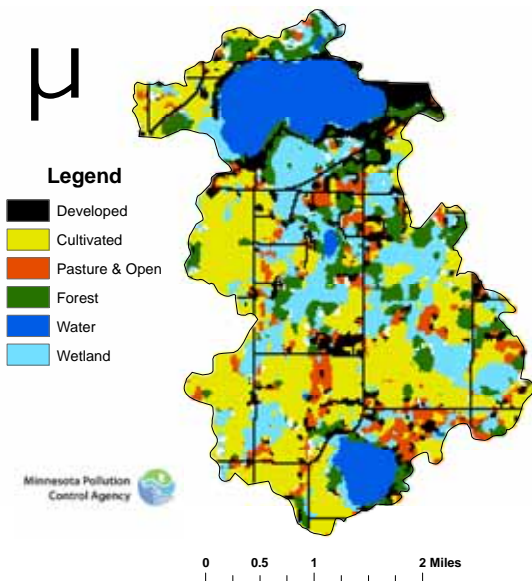
NLAP ID: 0935

Maximum Depth: 28 ft

Mean Depth: 15 ft



Fish Lake Land Use
Scott County



Land Use	Fish Lake Land Use %	NCHF Typical Land Use %
Developed	13	2-9
Cultivated (Ag)	33	22-50
Pasture & Open	8	11-25
Forest	12	6-25
Water & Wetland	32	14-30
Feedlots (#)	1	

Minnesota 2000 Level 1 Landsat Landcover
Classification.img

University of Minnesota Remote & Geospatial Analysis Lab

Fish Lake 2007 as compared to typical range for NCHF ecoregion reference lakes. Single NLAP visit based on U.S. Environmental Protection Agency protocol as compared to typical range for summer-means.

Data from Minnesota Department of Health (MDH) laboratory.

Parameter	Fish (MDH)	NCHF
Number of reference lakes	1	43
Total Phosphorus (µg/L)	30	23 - 50
Chlorophyll-a (µg/L)	18	5 - 22
Secchi Disk (feet)	3.6	4.9 - 10.5
(meters)	1.1	(1.5 - 3.2)
Total Kjeldahl Nitrogen (mg/L)	1.2	< 0.60 - 1.2
Alkalinity (mg/L)	110	75 - 150
Color (Pt-Co U)	5	10 - 20
pH (SU)	9.4	8.6 - 8.8
Chloride (mg/L)	46	4 - 10
Total Suspended Solids (mg/L)	5	2 - 6
Total Suspended Inorganic Solids (mg/L)	0.4	1 - 2
Conductivity (umhos/cm)	318	300 - 400
TN:TP ratio	40:1	25:1 - 35:1
Microcystin(µg/L)	Near Shore	<10 Low Risk
WHO risk Category*	Index Site	10-20 Moderate Risk
	1.5	20- 200 High Risk

* Guidelines for safe recreational water environments (World Health Organization, 2003)

µg/L = micrograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

Pt-Co-U = Platinum Cobalt Units

SU = Standard Units

Mixing Status: thermally stratified (dimictic)

**Temperature and Dissolved Oxygen Profile for Fish Lake. August 6, 2007.
Temp (C) and DO (mg/L)**

