

LAKE: SCHOODIC L (VLMP 29)
 TOWN: CHERRYFIELD
 COUNTY: WASHINGTON

MIDAS: 1230
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

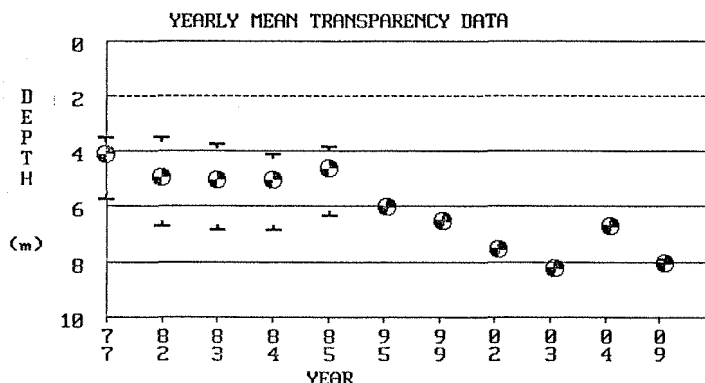
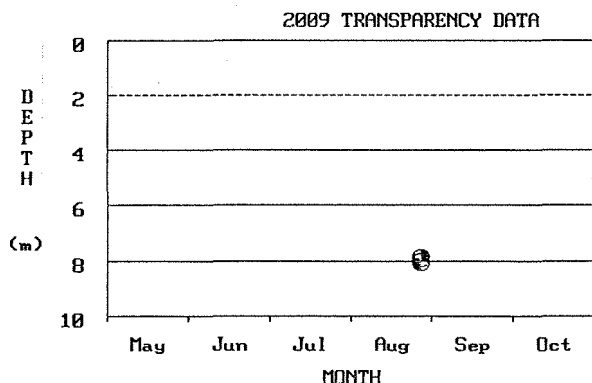
MAX. DEPTH: 11 m. (37 ft.)
 MEAN DEPTH: 7 m. (23 ft.)
 DELORME ATLAS #: 25
 USGS QUAD: SCHOODIC LAKE
 IFW REGION C: Grand Lake Stream (Machias)
 IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 357.0 ha. (882.1 a.)
 FLUSHING RATE: 0.40 flushes/yr.
 VOLUME: 10183432.3 cu. m. (8261 ac.-ft.)
 DIRECT DRAINAGE AREA: 2.79 sq. km. (1.08 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. SCHOODIC L has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2009 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (/cm)	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
					EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1977	-	-	-	-	-	-	-	-	3.5	4.1	5.7	4	-	-	-	-	-	-	-
1982	10	6.90	7.0	27	15	-	-	-	3.5	4.9	6.7	6	1.0	2.1	4.3	53	-	49	32
1983	-	-	-	-	4	-	6	-	3.7	5.0	6.8	6	-	-	-	-	-	48	-
1984	-	-	-	-	-	-	-	-	4.1	5.0	6.8	5	-	-	-	-	-	48	-
1985	5	7.10	6.0	32	12	-	22	-	3.8	4.6	6.3	5	-	-	-	-	-	53	-
1995	-	-	-	-	-	-	-	-	6.0	6.0	6.0	1	-	-	-	-	-	-	-
1999	8	-	5.0	33	11	-	-	-	6.5	6.5	6.5	1	4.5	4.5	4.5	-	-	-	-
2002	8	-	8.0	24	5	-	16	-	7.5	7.5	7.5	1	2.1	2.1	2.1	-	-	-	-
2003	9	-	8.0	27	13	-	26	-	8.2	8.2	8.2	1	11.0	11.0	11.0	-	-	-	-
2004	9	7.02	6.0	24	12	-	-	-	6.7	6.7	6.7	1	5.4	5.4	5.4	-	-	-	-
2009	-	-	-	-	9	-	9	-	7.9	8.0	8.0	1	2.1	2.1	2.1	-	-	-	-
JMMARY:	8	7.00	6.7	28	10	-	16	-	3.5	6.0	8.2	11	1.0	4.5	11.0	53	-	50	32

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LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE													
	09/08/82		08/22/85		08/19/99		08/22/02		08/14/03		08/23/04		08/26/09	
m	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	18.0	9.3	22.0	8.7	22.3	8.3	23.7	8.5	23.5	8.4	21.6	9.5	24.2	8.5
1.0	18.0	9.3	22.0	8.7	22.2	8.3	23.7	8.6	23.5	8.3	21.6	9.5	24.1	8.5
2.0	18.0	9.3	22.0	8.7	22.2	8.4	23.7	8.6	23.5	8.3	21.6	9.5	24.1	8.6
3.0	18.0	9.2	22.0	8.7	22.2	8.4	23.7	8.6	23.4	8.3	21.5	9.5	24.0	8.6
4.0	18.0	9.2	22.0	8.7	22.1	8.3	23.7	8.6	23.3	8.4	21.4	9.6	23.9	8.6
5.0	18.0	9.2	22.0	8.7	22.2	8.3	23.7	8.7	22.5	8.6	21.4	9.6	23.8	8.5
6.0	18.0	9.2	22.0	8.7	22.0	8.3	23.7	8.7	22.1	8.7	21.4	9.5	22.6	8.3
7.0	18.0	9.1	22.0	8.6	22.1	8.3	21.7	9.4	21.6	8.8	21.3	9.5	20.6	6.5
8.0	18.0	9.0	21.8	8.6	22.0	7.9	19.7	7.0	19.2	6.5	21.2	9.3	18.7	2.7
9.0	18.0	8.8	21.4	8.3	21.0	4.0	17.4	3.0	16.2	2.8	18.0	3.2	16.9	1.1
10.0	18.0	8.9	19.0	2.1	16.5	0.3	16.3	0.8	14.0	0.7	15.5	0.2	16.4	0.7
11.0	17.9	8.9	17.0	0.3	-	-	15.5	0.3	13.3	0.3	-	-	15.1	0.3

WATER QUALITY SUMMARY

SCHOODIC LAKE, CHERRYFIELD

Midas: 1230, Sample Station # 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate present water quality, track algae blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data for Schoodic Lake has been collected since 1977. During this period, 5 years of basic chemical information was collected, in addition to 8 years of Secchi Disk Transparencies (SDT). In summary, the water quality of Schoodic Lake is considered to be average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Schoodic Lake is low.

Water Quality Measures:

Schoodic Lake is a non-colored lake (average color 8 SPU) with an average SDT of 5.5m (18ft).

The range of water column TP for Schoodic Lake is 4 - 15 parts per billion (ppb) with an average of 9 ppb, while Chla ranges from 2.1 - 4.5 ppb with an average of 3 ppb.

Recent dissolved oxygen (DO) profiles show moderate DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low to moderate.

Schoodic Lake is managed by the Maine Department of Inland Fish and Wildlife as both a warm water and cold-water fishery. Oxygen levels below 5 parts per million stress certain cold water fish, and a persistent loss of oxygen may eliminate or reduce habitat for sensitive cold water species.

See the ME-DEP *Explanation of Lake Water Quality Monitoring Report* for measured variable explanations. Additional lake information can be obtained by contacting the Maine DEP at 207-287-3901 or the VLMP at 207-783-7733, or on the Internet at <http://www.pearl.maine.edu> and/or <http://www.maine.gov/dep/blwq/lake.htm>.

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