

LAKE: SCHOODIC L (VLMP 21)
 TOWN: LAKE VIEW PLT
 COUNTY: PISCATAQUIS

MIDAS: 956
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

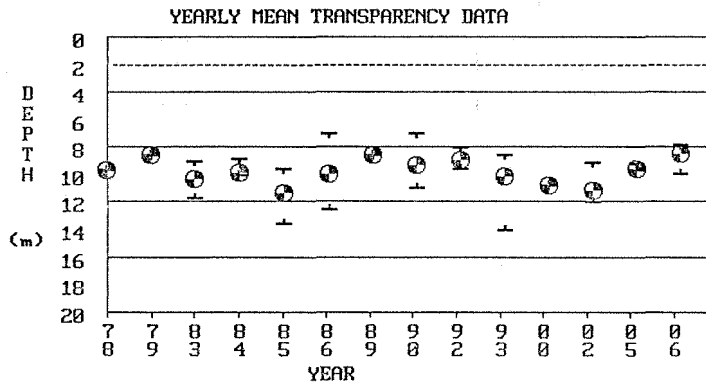
MAX. DEPTH: 57 m. (188 ft.)
 MEAN DEPTH: 24 m. (79 ft.)
 DELORME ATLAS #: 42
 USGS QUAD: MILO NORTH
 IFW REGION F: Penobscot (Enfield)
 IFW FISH. MANAGMENT: Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 2808.0 ha. (6938.5 a.)
 FLUSHING RATE: 0.08 flushes/yr.
 VOLUME: 623367936.0 cu. m. (505673 ac.-ft.)
 DIRECT DRAINAGE AREA: 58.81 sq. km. (22.71 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 Phosphorus 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 GRAPH:



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	MEAN	MEAN	MEAN	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPIC STATE INDICES			
	COLOR	pH	ALK	COND.	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
	(SPU)		(mg/l)	(uS /cm)	CORE	GRAB	GRAB	GRAB											
1978	-	-	-	-	-	-	-	-	9.6	9.6	9.6	1	0.8	0.8	0.8	-	-	-	-
1979	5	6.60	7.0	21	1	-	-	2	8.5	8.5	8.5	1	1.5	1.5	1.5	-	-	-	-
1983	15	7.25	3.0	-	-	-	-	-	9.0*	10.3*	11.7	6	1.0	1.0	1.0	-	-	-	-
1984	10	-	-	-	-	-	-	-	8.8	9.8	10.0	6	-	-	-	-	-	18	-
1985	-	6.70	-	-	-	-	-	-	9.5	11.3	13.5	4	-	-	-	-	-	-	-
1986	10	6.90	1.6	18	4	-	-	5	7.0	9.9	12.5	5	1.4	1.4	1.4	-	-	17	-
1989	-	-	-	-	14	-	-	-	8.5	8.5	8.5	1	3.4	3.4	3.4	-	-	-	-
1990	15	6.70	3.5	18	8	-	-	-	7.0	9.3	11.0	6	-	-	-	-	-	20	-
1992	-	-	-	-	-	-	-	-	8.0	8.9	9.5	3	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	8.5	10.1	14.0	6	-	-	-	-	-	17	-
2000	12	-	5.0	18	4	-	-	-	10.7	10.7	10.7	1	1.9	1.9	1.9	-	-	-	-
2002	-	-	-	-	-	-	-	-	9.1	11.1	12.0	2	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	9.2	9.5	9.6	3	-	-	-	-	-	-	-
2006	13	6.73	3.2	18	3	-	-	-	7.8	8.4	9.9	2	1.8	1.8	1.8	-	-	-	-
SUMMARY:	11	6.77	3.9	19	6	-	-	4	7.0	9.7*	14.0	14	0.8	1.7	3.4	-	-	18	-

LAKE: SCHOODIC L (VLMP 21)
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LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH m	SAMPLE DATE															
	08/02/78		09/11/79		08/10/83		09/02/86		09/08/89		09/11/90		08/23/00		08/22/06	
	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	24.0	99.9	17.0	9.7	22.0	9.0	19.2	8.3	-	-	19.6	8.9	20.3	9.1	21.0	9.0
1.0	-	-	-	-	-	-	-	-	19.0	8.7	19.6	8.8	20.3	9.1	21.0	9.0
2.0	-	-	-	-	22.0	8.9	19.0	8.0	18.0	8.7	-	-	20.3	9.1	20.9	9.0
3.0	-	-	17.0	9.6	-	-	-	-	18.0	8.8	19.6	8.9	20.2	9.1	20.9	9.0
4.0	-	-	-	-	22.0	8.9	19.0	7.5	18.0	8.8	-	-	20.2	9.2	20.8	9.0
5.0	-	-	-	-	-	-	-	-	18.0	8.8	19.6	8.9	19.8	9.2	20.8	9.0
6.0	-	-	17.0	9.5	22.0	8.9	18.8	7.3	18.0	8.7	-	-	19.7	9.2	20.8	9.0
7.0	-	-	-	-	-	-	-	-	17.5	8.7	19.6	8.9	19.7	9.2	20.8	9.0
8.0	-	-	-	-	22.0	9.0	18.0	6.9	17.5	8.7	-	-	19.7	9.1	20.8	9.0
9.0	-	-	17.0	9.5	-	-	-	-	17.0	8.6	19.6	8.8	19.4	9.0	20.7	9.0
10.0	-	-	17.0	9.5	19.0	9.2	18.0	6.7	17.0	8.6	19.5	8.8	14.4	10.0	14.6	9.8
11.0	-	-	14.8	9.8	-	-	-	-	17.0	8.7	17.3	9.2	12.8	10.4	11.3	10.5
12.0	-	-	13.0	10.2	11.5	10.6	18.0	6.6	16.0	8.7	13.8	10.2	10.8	10.6	10.3	10.7
13.0	-	-	-	-	-	-	-	-	14.5	9.0	12.5	10.2	9.8	10.8	9.6	10.9
14.0	-	-	10.5	10.4	9.5	10.6	15.5	6.5	12.0	9.5	11.0	10.4	9.0	10.9	9.1	11.1
15.0	-	-	-	-	-	-	-	-	10.0	9.8	10.8	11.2	8.5	10.8	8.8	11.2
16.0	-	-	8.5	10.6	8.5	10.8	11.5	6.8	9.5	9.9	10.1	10.2	8.2	10.8	-	-
17.0	-	-	-	-	-	-	-	-	9.0	9.9	9.9	10.2	8.0	10.8	8.2	11.3
18.0	-	-	8.0	10.6	8.0	11.2	10.5	6.7	8.5	9.9	9.4	10.2	7.8	10.8	-	-
19.0	-	-	-	-	-	-	-	-	8.0	9.9	9.5	10.1	7.5	10.8	7.9	11.4
20.0	-	-	7.0	10.6	8.0	11.2	9.5	6.5	8.0	9.8	-	-	7.3	10.8	-	-
21.0	-	-	-	-	-	-	-	-	8.0	9.8	-	-	-	-	7.6	11.6
22.0	-	-	6.5	10.6	-	-	9.0	6.3	8.0	9.8	-	-	7.2	10.8	-	-
23.0	-	-	-	-	-	-	-	-	7.5	9.8	-	-	-	-	7.5	11.6
24.0	-	-	6.0	10.6	-	-	9.0	6.1	7.0	9.8	-	-	7.0	10.6	-	-
25.0	-	-	-	-	-	-	-	-	7.0	9.8	8.8	10.0	-	-	7.4	11.6
26.0	-	-	-	-	7.2	11.2	-	-	7.0	9.8	-	-	6.9	10.6	-	-
27.0	-	-	-	-	-	-	-	-	7.0	9.7	-	-	-	-	-	-
28.0	-	-	6.0	10.5	-	-	8.5	5.7	7.0	9.7	-	-	-	-	-	-
29.0	-	-	-	-	-	-	-	-	7.0	9.7	-	-	-	-	-	-
30.0	-	-	-	-	7.1	11.2	-	-	7.0	9.7	8.5	9.9	-	-	7.1	11.6
31.0	-	-	-	-	-	-	-	-	7.0	9.7	-	-	-	-	-	-
32.0	-	-	6.0	10.5	-	-	8.5	5.5	7.0	9.7	-	-	6.7	10.7	-	-
33.0	-	-	-	-	-	-	-	-	7.0	9.7	-	-	-	-	-	-
34.0	-	-	-	-	-	-	-	-	6.5	9.7	-	-	-	-	-	-
35.0	-	-	-	-	7.0	11.2	-	-	6.5	9.7	8.5	9.8	-	-	7.0	11.6
36.0	-	-	-	-	-	-	8.0	5.3	6.5	9.7	-	-	-	-	-	-
37.0	-	-	-	-	-	-	-	-	6.5	9.6	-	-	-	-	-	-
38.0	-	-	6.0	10.5	-	-	-	-	6.5	9.7	-	-	6.5	10.2	-	-
39.0	-	-	-	-	-	-	-	-	6.5	9.6	-	-	-	-	-	-
40.0	-	-	-	-	-	-	8.0	4.9	6.5	9.6	8.5	9.8	6.4	10.1	6.8	11.5
41.0	-	-	-	-	-	-	-	-	6.5	9.6	-	-	6.3	0.1	-	-
42.0	-	-	-	-	-	-	-	-	6.5	9.6	-	-	-	-	-	-
43.0	-	-	-	-	-	-	-	-	6.5	9.6	-	-	-	-	6.8	11.4
44.0	-	-	-	-	-	-	8.0	4.5	6.5	9.6	-	-	-	-	-	-
45.0	-	-	-	-	6.8	11.2	-	-	6.5	9.6	-	-	-	-	-	-
46.0	-	-	-	-	-	-	-	-	6.0	9.6	-	-	-	-	-	-
47.0	-	-	-	-	-	-	-	-	6.0	9.6	-	-	-	-	-	-
48.0	-	-	5.5	10.2	-	-	-	-	6.0	9.6	-	-	-	-	-	-

WATER QUALITY SUMMARY

SCHOODIC LAKE, Lake View Plantation

Midas: 0956, Basin: Southern (01)

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 this station on Schoodic Lake has been collected since 1978. During this period, 5 years of basic chemical information were collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Schoodic Lake is considered to be excellent, 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 11 SPU) with an average SDT of 9.8 (32.1ft). Water column TP for Schoodic Lake is approximately 6 parts per billion (ppb); Chla levels are around 1.7 ppb. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

Recent dissolved oxygen (DO) profiles show almost no DO depletion in deep areas of the lake. In fact, this lake has one of the highest deep water oxygen concentrations in the State, due in part to its very low algae growth and large, high volume deep water areas. This means there is no summer time oxygen limitation for cold water fish.

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>.

Filename: SCH0956_1.DOC, Revised: 3/06 By: rjb

LAKE: SCHOODIC L (VLMP 21)
 TOWN: LAKE VIEW PLT
 COUNTY: PISCATAQUIS

MIDAS: 956
 TRUE BASIN: 1
 SAMPLE STATION: 2

WHOLE LAKE INFORMATION

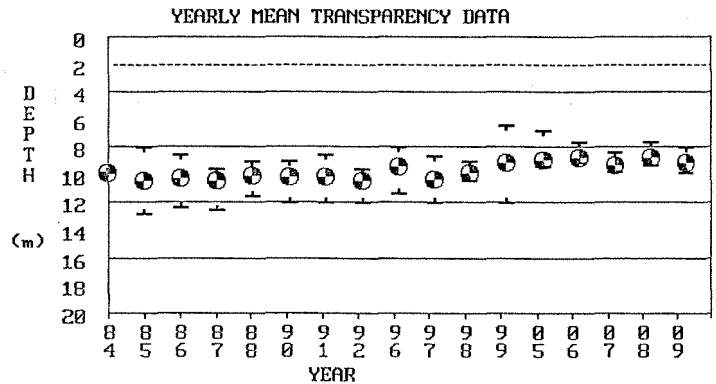
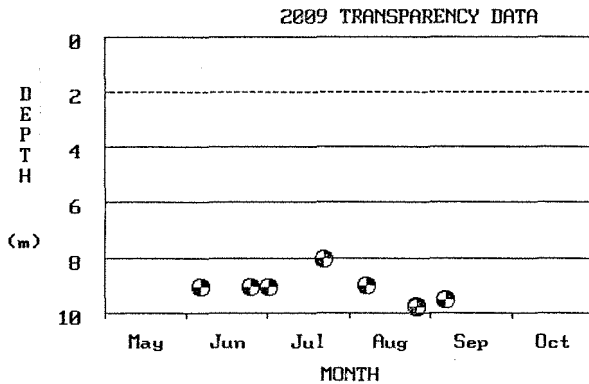
MAX. DEPTH: 57 m. (188 ft.)
 MEAN DEPTH: 24 m. (79 ft.)
 DELORME ATLAS #: 42
 USGS QUAD: MILO NORTH
 IFW REGION F: Penobscot (Enfield)
 IFW FISH. MANAGMENT: Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 2808.0 ha. (6938.5 a.)
 FLUSHING RATE: 0.08 flushes/yr.
 VOLUME: 623367936.0 cu. m. (505673 ac.-ft.)
 DIRECT DRAINAGE AREA: 58.81 sq. km. (22.71 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. (uS/cm)	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPIC STATE INDICES			
					EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1984	-	-	-	-	-	-	-	-	9.8	9.8	9.8	1	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	8.0	10.4	12.8	5	-	-	-	-	-	16	-
1986	-	-	-	-	-	-	-	-	8.5	10.2	12.3	5	-	-	-	-	-	16	-
1987	-	-	-	-	-	-	-	-	9.5	10.4	12.5	5	-	-	-	-	-	16	-
1988	-	-	-	-	-	-	-	-	9.0	10.0	11.5	5	-	-	-	-	-	17	-
1990	-	-	-	-	-	-	-	-	9.0	10.1	12.0	6	-	-	-	-	-	17	-
1991	-	-	-	-	-	-	-	-	8.5	10.1	12.0	6	-	-	-	-	-	17	-
1992	-	-	-	-	-	-	-	-	9.5	10.4	12.0	3	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	8.0	9.4	11.3	5	-	-	-	-	-	19	-
1997	-	-	-	-	-	-	-	-	8.6	10.3	12.0	4	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	9.0	9.8	10.4	5	-	-	-	-	-	18	-
1999	5	-	4.5	29	6	-	-	-	6.4	9.1	12.0	5	1.8	1.8	1.8	-	-	21	-
2005	-	-	-	-	-	-	-	-	6.8	8.9	9.4	6	-	-	-	-	-	21	-
2006	-	-	-	-	-	-	-	-	7.6	8.7	9.1	5	-	-	-	-	-	22	-
2007	-	-	-	-	-	-	-	-	8.3	9.3	9.7	2	-	-	-	-	-	-	-

LAKE: SCHOODIC L (VLMP 21)
 TOWN: LAKE VIEW PLT
 COUNTY: PISCATAQUIS

MIDAS: 956
 *TRUE BASIN: 1
 *SAMPLE STATION: 2

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

YEAR	MEAN	MEAN	MEAN	MEAN	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
	COLOR (SPU)	pH	ALK (mg/l)	COND. (uS /cm)	EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	EPI PHOS		SEC	CHL
2008	-	-	-	-	-	-	-	-	7.6	8.7	9.3	3	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	8.0	9.1	9.8	4	-	-	-	-	-	-	-
SUMMARY:	5	-	4.5	29	6	-	-	-	6.4	9.7	12.8	17	1.8	1.8	1.8	-	-	18	-

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE	
	08/11/99	
m	°C	ppm
0.0	21.0	8.8
1.0	21.1	8.8
2.0	20.8	8.9
3.0	20.4	8.9
4.0	20.4	8.9
5.0	20.3	8.9
6.0	20.2	8.8
7.0	20.2	8.8
8.0	20.2	8.8
9.0	20.1	8.9
10.0	20.1	8.9
11.0	20.0	8.9
12.0	17.7	9.2
13.0	11.7	10.3
14.0	9.8	10.4
15.0	9.4	10.5
16.0	9.0	10.6
17.0	9.0	10.6
18.0	8.8	10.7
19.0	8.8	10.6
20.0	8.7	10.6
21.0	8.7	10.6
22.0	8.7	10.6
23.0	8.5	10.7
24.0	8.5	10.6
25.0	24.6	99.9

WATER QUALITY SUMMARY

SCHOODIC LAKE, LAKEVIEW PLT

Midas: 956, Basin 2: Northern

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Water quality monitoring data for Schoodic Lake has been collected since 1984. During this period, 1 year of basic chemical information has been collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Schoodic Lake is considered to be excellent, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algae blooms on Schoodic Lake is low.

Water Quality Measures: Schoodic Lake is a non-colored lake (average color about 5 SPU) with an average SDT of 9.9 m (32.5 ft). The water column TP is about 6 parts per billion (ppb), while the one Chla value was 1.8 ppb. Recent dissolved oxygen (DO) profiles show no 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.

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>.

Filename: scho0956_2, Revised: 3/06, By: rjb

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WHOLE LAKE INFORMATION

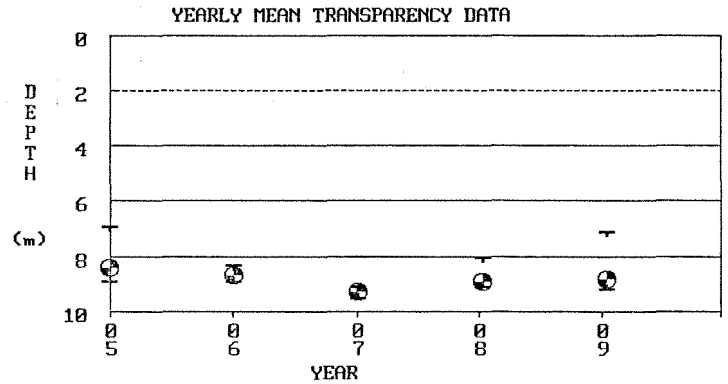
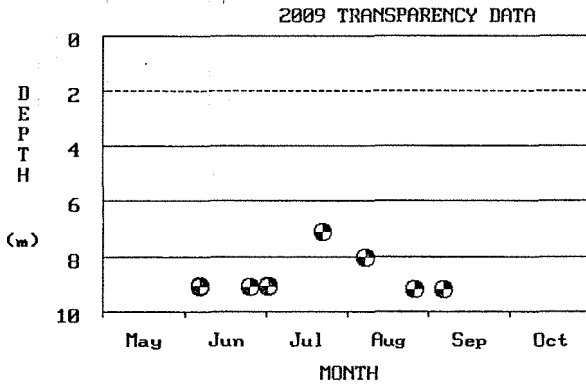
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2006	-	-	-	-	-	-	-	-	8.3	8.7	8.9	5	-	-	-	-	-	22	-
2007	-	-	-	-	-	-	-	-	9.1	9.3	9.5	2	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	8.0	8.9	9.1	3	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	7.1	8.8	9.2	4	-	-	-	-	-	-	-
SUMMARY:	-	-	-	-	-	-	-	-	6.9	8.8	9.5	5	-	-	-	-	-	23	-