

LAKE: MANHANOCK P (VLMP 21)
 TOWN: PARKMAN
 COUNTY: PISCATAQUIS

MIDAS: 758
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

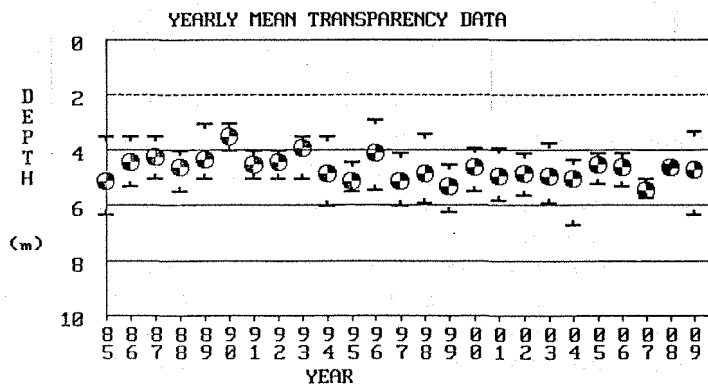
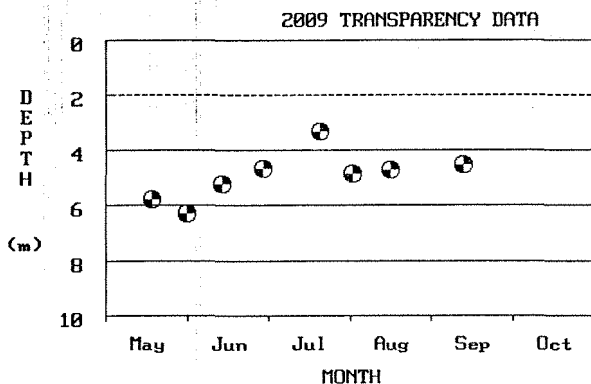
MAX. DEPTH: 11 m. (36 ft.)
 MEAN DEPTH: 2 m. (6 ft.)
 DELORME ATLAS #: 31
 USGS QUAD: GUILFORD
 IFW REGION E: Moosehead Lake (Greenville)
 IFW FISH. MANAGMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 178.0 ha. (439.8 a.)
 FLUSHING RATE: 9.76 flushes/yr.
 VOLUME: 3546458.0 cu. m. (2877 ac.-ft.)
 DIRECT DRAINAGE AREA: 22.29 sq. km. (8.61 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. MANHANOCK P 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 visable at bottom of lake (or one reading used in calculation was visable)].

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	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1985	35	7.30	21.0	65	8	-	17	-	3.5	5.1	6.3	5	-	-	-	-	-	47	-
1986	-	-	-	-	-	-	-	-	3.5	4.4	5.3	5	-	-	-	-	-	55	-
1987	-	-	-	-	-	-	-	-	3.5	4.2	5.0	4	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	4.0	4.6	5.5	4	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	3.0	4.3	5.0	4	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	3.0	3.5	4.0	5	-	-	-	-	-	68	-
1991	23	7.07	29.0	70	12	-	-	-	4.0	4.5	5.0	5	3.4	3.4	3.4	-	-	54	-
1992	-	-	-	-	-	-	-	-	4.0	4.4	5.0	5	-	-	-	-	-	55	-
1993	-	-	-	-	-	-	-	-	3.5	3.9	5.0	3	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	3.5	4.8	6.0	5	-	-	-	-	-	50	-
1995	-	-	-	-	-	-	-	-	4.4	5.1	5.5	5	-	-	-	-	-	47	-
1996	50	-	20.5	61	23	-	14	-	2.9	4.1	5.4	6	3.9	3.9	3.9	-	-	59	-
1997	-	-	-	-	-	-	-	-	4.1	5.1	6.0	5	-	-	-	-	-	47	-
1998	15	-	-	-	-	-	-	-	3.4	4.8	5.9	6	-	-	-	-	-	50	-
1999	-	-	-	-	-	-	-	-	4.5	5.3	6.2	5	-	-	-	-	-	45	-

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	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
2000	-	-	-	-	-	-	-	-	3.9	4.6	5.5	6	-	-	-	-	-	53	-
2001	22	7.61	19.8	63	7	-	23	-	3.9	4.9	5.8	6	4.1	4.1	4.1	-	-	49	-
2002	-	-	-	-	-	-	-	-	4.1	4.8	5.6	4	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	3.7	4.9	5.9	5	-	-	-	-	-	49	-
2004	-	-	-	-	-	-	-	-	4.3	5.0	6.7	5	-	-	-	-	-	48	-
2005	-	-	-	-	-	-	-	-	4.1	4.5	5.2	4	-	-	-	-	-	-	-
2006	33	7.67	27.4	70	9	-	17	-	4.1	4.6	5.3	3	4.5	4.5	4.5	-	-	-	-
2007	-	-	-	-	-	-	-	-	5.0	5.4	5.7	3	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	4.5	4.6	4.6	2	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	3.3	4.7	6.3	5	-	-	-	-	-	52	-
SUMMARY:	30	7.34	23.5	66	12	-	18	-	2.9	4.6	6.7	25	3.4	4.0	4.5	-	-	52	-

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE									
	08/21/85		08/21/91		08/13/96		08/17/01		08/10/06	
m	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	23.1	8.2	20.3	8.2	22.6	7.6	24.1	7.9	24.0	7.4
1.0	23.0	8.2	20.5	8.0	22.6	7.6	24.2	7.8	24.0	7.5
2.0	23.0	8.1	20.5	7.9	22.0	7.2	24.2	7.8	24.0	7.5
3.0	22.8	8.1	20.5	8.0	22.0	4.2	24.1	7.8	23.7	7.3
4.0	22.0	8.1	20.5	7.9	19.1	1.8	24.1	7.8	23.5	7.0
5.0	22.0	7.9	20.3	7.8	18.6	1.8	22.6	5.0	22.9	6.2
6.0	19.0	1.7	20.2	7.8	16.2	0.2	17.2	0.8	17.6	1.0
7.0	16.0	0.5	20.0	7.4	14.0	0.2	12.0	1.9	15.2	0.3
8.0	13.8	0.4	19.0	6.1	11.1	0.2	9.0	0.0	13.7	0.3
9.0	12.5	0.3	12.0	0.3	11.0	0.2	7.9	0.2	13.1	0.3
10.0	12.0	0.3	11.0	0.3	-	-	7.5	0.2	13.3	0.2
11.0	-	-	10.5	0.2	-	-	-	-	-	-

WATER QUALITY SUMMARY

MANHANOCK POND, PARKMAN

Midas: 0758, Station: 01 - Primary

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 water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Manhanock Pond have been collected since 1985. During this period, 5 years of basic chemical information was collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Manhanock Pond is considered to be about average, based on measures of SDT, total phosphorus (TP) and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Manhanock Pond is low to moderate.

Water Quality Measures: Manhanock Pond is a colored lake (average color 30 SPU) with an average SDT of 4.6m (15.2ft). The range of water column TP for Manhanock Pond is 8-23 parts per billion (ppb) with an average of 12 ppb, while Chla ranges from 3.4-4.5 ppb with an average of 4.0 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 moderate.

The SDT readings from 1985- 2006 indicate stable water quality, but this could change with increased development pressure and changes in regional weather patterns.

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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