

LAKE: INDIAN P (VLMP 25)
 TOWN: INDIAN STREAM TWP
 COUNTY: SOMERSET

MIDAS: 4090
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

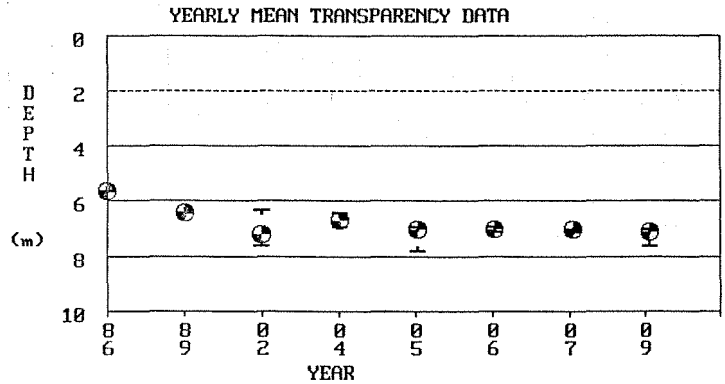
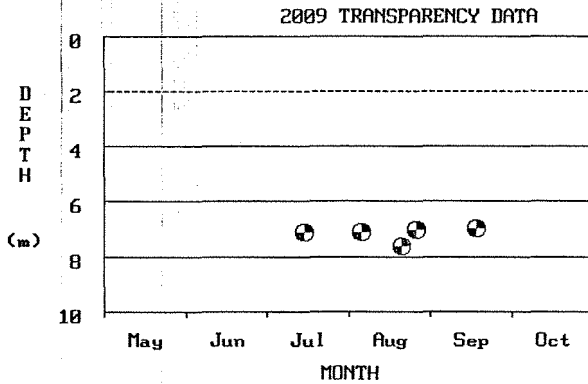
MAX. DEPTH: 36 m. (118 ft.)
 MEAN DEPTH: 6 m. (21 ft.)
 DELORME ATLAS #: 40
 USGS QUAD: INDIAN POND NORTH
 IFW REGION E: Moosehead Lake (Greenville)
 IFW FISH. MANAGMENT: Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 1335.0 ha. (3298.7 a.)
 FLUSHING RATE: 22.65 flushes/yr.
 VOLUME: 79057440.0 cu. m. (64131 ac.-ft.)
 DIRECT DRAINAGE AREA: 253.25 sq. km. (97.78 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. INDIAN 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 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	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1986	-	-	-	-	-	-	-	-	5.6	5.6	5.6	1	-	-	-	-	-	-	-
1989	25	-	9.0	27	5	-	-	-	6.4	6.4	6.4	1	1.8	1.8	1.8	-	-	-	-
2002	-	-	-	-	-	-	-	-	6.3	7.2	7.6	5	-	-	-	-	-	30	-
2004	-	-	-	-	-	-	-	-	6.4	6.7	6.9	2	-	-	-	-	-	-	-
2005	22	7.13	7.6	30	5	-	11	-	6.9	7.0	7.8	5	1.6	1.6	1.6	-	-	32	-
2006	-	-	-	-	-	-	-	-	6.9	7.0	7.1	5	-	-	-	-	-	32	-
2007	-	-	-	-	-	-	-	-	7.0	7.0	7.1	6	-	-	-	-	-	32	-
2009	-	-	-	-	6	-	-	-	7.0	7.1	7.6	3	1.6	1.6	1.6	-	-	-	-
SUMMARY:	23	7.13	8.3	29	5	-	11	-	5.6	6.8	7.8	8	1.6	1.7	1.8	-	-	31	-

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LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE					
	09/13/89		08/25/05		08/20/09	
m	°C	ppm	°C	ppm	°C	ppm
0.0	19.0	9.6	20.4	7.9	23.5	8.1
1.0	19.0	9.6	20.4	7.9	23.5	8.0
2.0	-	-	20.4	7.9	23.4	8.2
3.0	18.8	9.6	20.3	7.9	23.3	8.2
4.0	-	-	20.2	7.9	23.3	8.2
5.0	18.8	9.6	20.2	8.0	23.2	8.1
6.0	-	-	20.2	8.0	22.0	8.3
7.0	18.6	9.4	20.1	7.8	21.6	8.1
8.0	-	-	19.8	8.0	21.4	8.2
9.0	18.6	9.4	19.5	7.8	20.6	7.9
10.0	-	-	15.0	2.4	19.9	7.6
11.0	18.4	9.4	11.9	1.5	19.6	7.4
12.0	-	-	-	-	19.3	7.2
13.0	18.2	9.4	-	-	19.0	6.8
14.0	-	-	-	-	19.0	6.5
15.0	18.0	9.3	-	-	-	-
20.0	17.2	9.3	-	-	-	-
25.0	17.0	9.0	-	-	-	-
30.0	12.0	5.2	-	-	-	-
35.0	10.8	3.8	-	-	-	-
37.0	10.2	2.7	-	-	-	-

WATER QUALITY SUMMARY

INDIAN POND, INDIAN STREAM TWP

Midas: 4090, 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 Indian Pond has been collected since 1986. During this period, only 1 year of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Indian Pond is considered to be above average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance alga blooms on Indian Pond is low.

Water Quality Measures: Remember that color, TP, Chla, and dissolved oxygen data are very limited, from only 1 monitoring event on Indian Pond in 1989. Indian Pond is a slightly colored lake (average color 25 SPU) with an average SDT of 6.5m (21.3ft). The one water column TP reading for Indian Pond is 5 parts per billion (ppb), while the sole Chla result is 1.8 ppb. The one dissolved oxygen (DO) profile in 1989 shows 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. 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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