

LAKE: LEIGH'S MILL P (VLMP 31)
 TOWN: SOUTH BERWICK
 COUNTY: YORK

MIDAS: 117
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

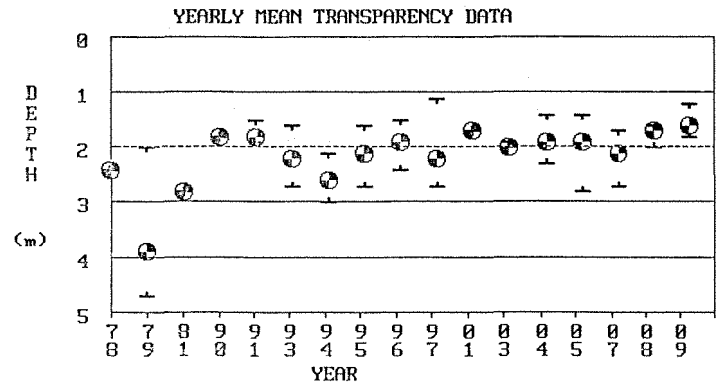
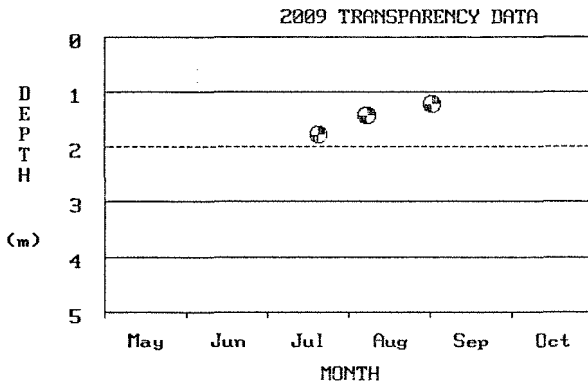
MAX. DEPTH: 7 m. (23 ft.)
 MEAN DEPTH: 3 m. (10 ft.)
 DELORME ATLAS #: 01
 USGS QUAD: DOVER EAST
 IFW REGION A: Sebago Lake (Gray)
 IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: ~16.0 ha. (39.5 a.)
 FLUSHING RATE: ~249.10 flushes/yr.
 VOLUME: ~457414.9 cu. m. (371 ac.-ft.)
 DIRECT DRAINAGE AREA: ~224.29 sq. km. (86.60 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. LEIGH'S MILL P has 1 True Basin.

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 COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS/cm)	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
					EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1978	50	6.80	15.0	76	-	-	-	-	2.4	2.4	2.4	1	2.6	2.6	2.6	-	-	-	-
1979	60	6.70	20.0	80	30	-	-	48	2.0	3.9	4.7	3	1.2	6.1	10.4	-	-	-	-
1981	70	7.40	16.0	72	59	-	-	-	2.8	2.8	2.8	1	5.5	41.1	72.6	-	-	-	-
1990	110	7.14	19.5	97	26	-	-	-	1.8	1.8	1.8	1	13.8	13.8	13.8	-	-	-	-
1991	-	-	-	-	-	-	-	-	1.5	1.8	1.9	2	-	-	-	-	-	-	-
1993	-	-	15.0	-	21	-	-	-	1.6	2.2	2.7	2	7.8	9.2	10.5	-	-	-	-
1994	15	-	15.0	-	29	-	-	-	2.1	2.6	3.0	4	8.0	8.0	8.0	-	-	-	-
1995	-	-	-	-	-	-	-	-	1.6	2.1	2.7	6	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	1.5	1.9	2.4	4	-	-	-	-	-	-	-
1997	70	6.60	6.8	69	26	-	-	-	1.1	2.2	2.7	4	2.5	2.8	3.0	-	-	-	-
2001	99	7.32	17.0	108	30	-	-	-	1.7	1.7	1.7	1	16.7	16.7	16.7	-	-	-	-
2003	-	-	-	-	-	-	-	-	1.9	2.0	2.0	2	-	-	-	-	-	-	-
2004	92	6.84	15.0	114	27	-	-	-	1.4	1.9	2.3	3	6.1	6.1	6.1	-	-	-	-
2005	93	7.16	14.6	133	26	-	52	-	1.4	1.9	2.8	3	4.4	4.4	4.4	-	-	-	-
2007	-	-	-	-	-	-	-	-	1.7	2.1	2.7	4	-	-	-	-	-	-	-

WATER QUALITY SUMMARY

LEIGH'S MILL POND, SOUTH BERWICK

Midas: 0117, 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 data-set does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data for Leigh's Mill Pond has been collected since 1978. During this period, 7 years of basic chemical information was collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Leigh's Mill Pond is considered to be below average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algae blooms on Leigh's Mill Pond is low.

Water Quality Measures: Leigh's Mill Pond is a colored lake (average color 68 SPU) with an average SDT of 2.3m (7.5ft). The range of water column TP for Leigh's Mill Pond is 21-59 parts per billion (ppb) with an average of 32 ppb, while Chla ranges from 1.2-72.6 ppb with an average of 12.5 ppb. Recent dissolved oxygen (DO) profiles show moderate to low 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.

MDIFW (Region A) manages Leigh's Mill Pond as a mixed warmwater/coldwater 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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