

LAKE: SARGENT MTN P (VLMP ANP)
 TOWN: MOUNT DESERT
 COUNTY: HANCOCK

MIDAS: 8473
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

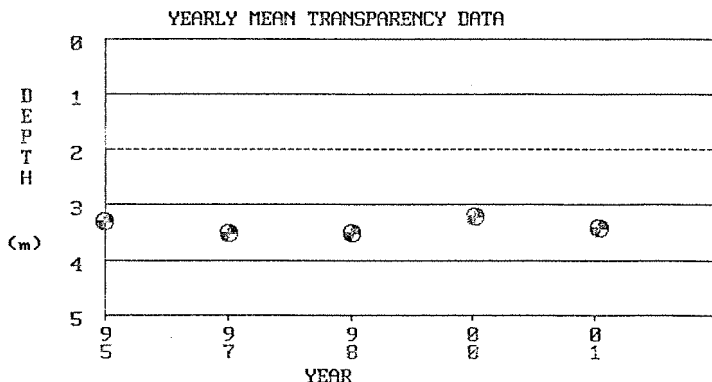
MAX. DEPTH: Undetermined
 MEAN DEPTH: Undetermined
 DELORME ATLAS #: 16
 USGS QUAD: SOUTHWEST HARBOR
 IFW REGION C: Grand Lake Stream (Machias)
 IFW FISH. MANAGMENT: None

TRUE BASIN CHARACTERISTICS

SURFACE AREA: Undetermined
 FLUSHING RATE: Undetermined
 VOLUME: Undetermined
 DIRECT DRAINAGE AREA: Undetermined

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. SARGENT MTN P has 1 True Basin.

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 COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPIC STATE INDICES			
	(SPU)		(mg/l)	(uS)	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1994	-	4.75	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	23	4.88	-0.3	28	10	-	-	-	3.3*	3.3*	3.3*	1	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	3.5*	3.5*	3.5*	1	-	-	-	-	-	-	-
1998	13	4.87	0.0	31	-	-	-	-	3.5*	3.5*	3.5*	2	-	-	-	-	-	-	-
1999	15	4.75	-0.2	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	9	4.78	-0.8	38	-	-	-	-	3.2*	3.2*	3.2*	1	-	-	-	-	-	-	-
2001	4	5.05	-0.3	32	-	-	-	-	3.4*	3.4*	3.4*	1	-	-	-	-	-	-	-
2002	10	4.95	-0.4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	16	5.02	-0.3	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	5	4.91	-0.4	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	24	5.19	-0.2	20	-	-	-	-	0.0	0.0	0.0	1	-	-	-	-	-	-	-
SUMMARY:	13	4.90	-0.3	31	10	-	-	-	0.0	2.8*	3.5*	6	-	-	-	-	-	-	-

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LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

SAMPLE DATE		
DEPTH	08/24/95	
<u>m</u>	<u>°C</u>	<u>ppm</u>
0.0	20.5	99.9
1.0	20.5	8.0
2.0	20.5	8.1
3.0	20.5	7.5

WATER QUALITY SUMMARY

SARGENT MOUNTAIN POND, MOUNT DESERT

Midas: 8473, 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 Sargent Mountain Pond has been collected since 1995. During this period, 7 years of basic chemical information was collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Sargent Mountain Pond is considered to be above average, based on measures of SDT and total phosphorus (TP). The potential for nuisance alga blooms on Sargent Mountain Pond is low.

Water Quality Measures: Sargent Mountain Pond is a non-colored lake (average color 12 SPU) with an average SDT of 3.4*m (11 *ft). The * means all Secchi disk readings hit the bottom of the pond. If the pond were deeper, Secchi disk readings would be deeper. The water column TP for Sargent Mountain Pond is 10 parts per billion (ppb). TP has only been collected once. Chl_a has not been taken. The only dissolved oxygen (DO) profile taken, 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.

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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