

LAKE: SEBEC L (VLMP 21)
 TOWN: WILLIMANTIC
 COUNTY: PISCATAQUIS

MIDAS: 848
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

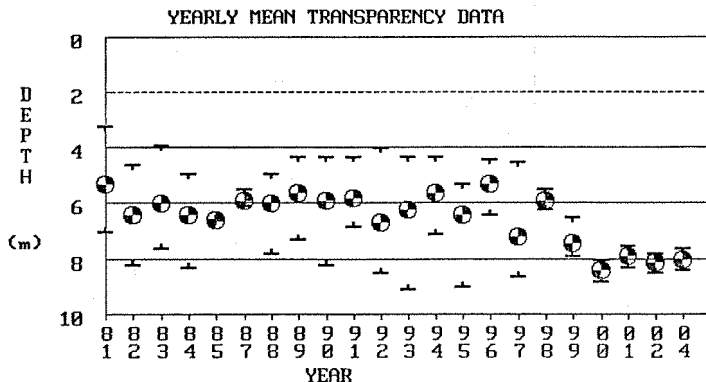
MAX. DEPTH: 47 m. (155 ft.)
 MEAN DEPTH: 13 m. (42 ft.)
 DELORME ATLAS #: 32
 USGS QUAD: SEBEC LAKE WEST
 IFW REGION E: Moosehead Lake (Greenville)
 IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 2659.0 ha. (6570.3 a.)
 FLUSHING RATE: 1.43 flushes/yr.
 VOLUME: 349488384.0 cu. m. (283504 ac.-ft.)
 DIRECT DRAINAGE AREA: 414.09 sq. km. (159.88 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. SEBEC 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 COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
	(SPU)		(mg/l)	(uS)	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1981	-	-	-	-	-	-	-	-	3.2	5.3	7.0	5	-	-	-	-	-	45	-
1982	20	6.80	7.0	30	2	-	6	-	4.6	6.4	8.2	5	1.4	1.4	1.4	-	-	36	-
1983	-	-	-	-	-	-	-	-	3.9	6.0	7.6	5	-	-	-	-	-	39	-
1984	25	-	-	-	-	-	-	-	4.9	6.4	8.3	5	-	-	-	-	-	36	-
1985	25	7.00	7.0	30	4	-	3	-	6.6	6.6	6.6	1	-	-	-	-	-	-	-
1987	-	-	-	-	-	3	-	-	5.5	5.9	6.1	3	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	4.9	6.0	7.8	4	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	4.3	5.6	7.3	4	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	4.3	5.9	8.2	4	-	-	-	-	-	-	-
1991	20	7.20	9.0	-	4	-	-	-	4.3	5.8	6.8	4	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	4.0	6.7	8.5	3	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	4.3	6.2	9.1	3	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	4.3	5.6	7.1	4	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	5.3	6.4	9.0	4	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	4.4	5.3	6.4	5	-	-	-	-	-	45	-

WATER QUALITY SUMMARY

SEBEC LAKE, WILLIMANTIC

Midas: 0848, Sample Station # 1, Northeast of South Cove point

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 Sebec Lake has been collected since 1981. During this period, 4 years of basic chemical information was collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Sebec Lake 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 Sebec Lake is low.

Water Quality Measures: Sebec Lake is a non-colored lake (average color 20 SPU) with an average SDT of 6.3m (20.7ft). The range of water column TP for Sebec Lake is 2-4 parts per billion (ppb) with an average of 3 ppb (State average 12 ppb). Chla was only taken once and was 1.4 ppb (State average is 4.8 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. 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.

Inland Fisheries and Wildlife manages this pond as both a warm-water and cold-water fishery.

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: sebe0848, Revised: 02, By: jp

LAKE: SEBEC L (VLMP 21)
 TOWN: WILLIMANTIC
 COUNTY: PISCATAQUIS

MIDAS: 848
 TRUE BASIN: 1
 SAMPLE STATION: 2

WHOLE LAKE INFORMATION

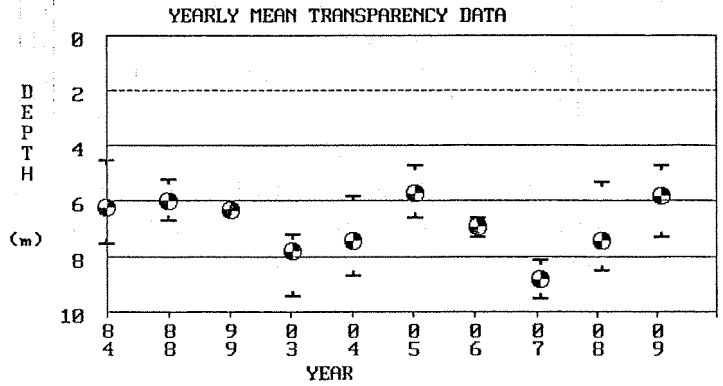
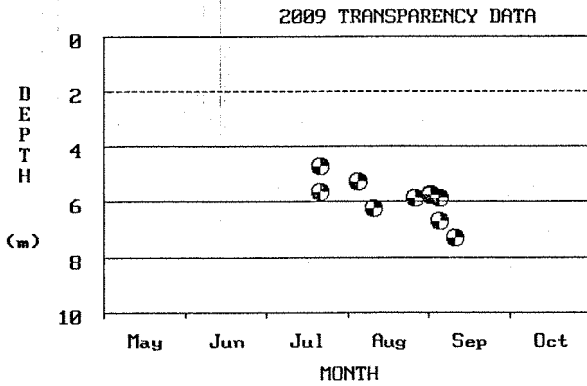
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SECCHI DISK TRANSPARENCY GRAPHS:



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	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	CHI
	(SPU)		(mg/l)	(uS /cm)															
1984	-	-	-	-	-	-	-	-	4.5	6.2	7.5	5	-	-	-	-	-	37	-
1988	-	-	-	-	-	-	-	-	5.2	6.0	6.7	1	-	-	-	-	-	-	-
1999	5	-	5.0	-	9	-	-	-	6.3	6.3	6.3	1	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	7.2	7.8	9.4	5	-	-	-	-	-	27	-
2004	-	-	-	-	-	5	-	-	5.8	7.4	8.7	3	-	-	-	-	-	-	-
2005	-	-	-	-	-	4	-	-	4.7	5.7	6.6	5	-	-	-	-	-	42	-
2006	-	-	-	-	-	4	-	-	6.6	6.9	7.3	3	-	-	-	-	-	-	-
2007	17	7.07	5.9	21	-	4	-	-	8.1	8.8	9.5	4	-	-	-	-	-	-	-
2008	-	-	-	-	-	4	-	-	5.3	7.4	8.5	3	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	4.7	5.8	7.3	3	-	-	-	-	-	-	-
SUMMARY:	11	7.07	5.5	21	9	4	-	-	4.5	6.8	9.5	10	-	-	-	-	-	35	-

WATER QUALITY SUMMARY

SEBEC LAKE, WILLIMANTIC

Midas: 848, Station: 02 – Northeast of Greeley's Landing

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 Sebec Lake have been collected since 1984. During this period, 4 years of basic chemical information was collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Sebec Lake is considered to be above average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Sebec Lake is low.

Water Quality Measures: Sebec Lake is a non-colored lake (average color 5 SPU) with an average SDT of 6.6m (21.8ft). The range of water column TP for Sebec Lake is 4-9 parts per billion (ppb) with an average of 6 ppb. Chla has not been taken at this sample station, but is probably similar to that of Station 1 which has an average of 1.8 ppb. Recent dissolved oxygen (DO) profiles show 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. 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 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: SEBE0848_02, Revised: 12/06, By: jp