

LAKE: WILSON P (LOWER) (VLMP 21)
 TOWN: GREENVILLE
 COUNTY: PISCATAQUIS

MIDAS: 342
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

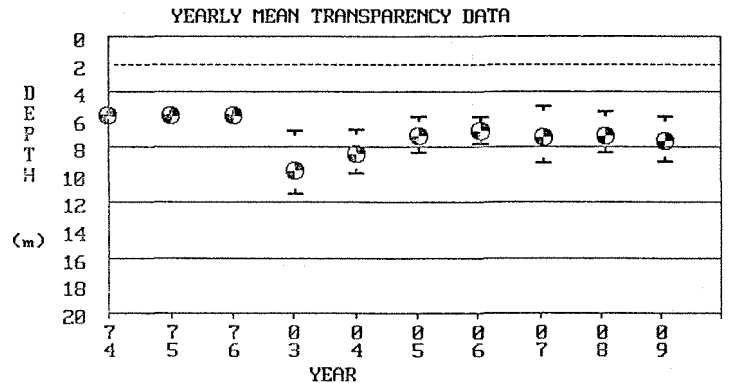
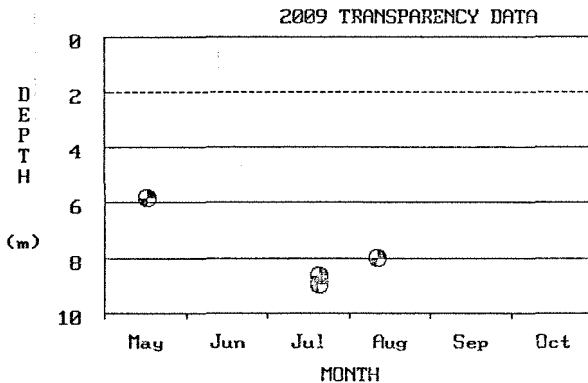
MAX. DEPTH: 21 m. (70 ft.)
 MEAN DEPTH: Undetermined
 DELORME ATLAS #: 41
 USGS QUAD: GREENVILLE
 IFW REGION E: Moosehead Lake (Greenville)
 IFW FISH. MANAGMENT: Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 558.0 ha. (1378.8 a.)
 FLUSHING RATE: 1.00 flushes/yr.
 VOLUME: 49400000.0 cu. m. (40073 ac.-ft.)
 DIRECT DRAINAGE AREA: 14.71 sq. km. (5.68 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. WILSON P (LOWER) 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	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
1974	15	7.00	10.0	5	-	5	-	-	5.6	5.6	5.6	1	2.6	2.6	2.6	-	-	-	-
1975	9	6.75	8.0	18	-	10	-	-	5.6	5.6	5.6	1	2.7	2.7	2.7	-	-	-	-
1976	15	7.30	9.0	27	5	-	-	-	5.7	5.7	5.7	1	3.2	3.2	3.2	-	-	-	-
2003	-	-	-	-	-	-	-	-	6.8	9.6	11.3	5	-	-	-	-	-	19	-
2004	10	7.26	9.5	29	-	3	-	-	6.7	8.4	9.8	4	1.8	1.8	1.8	-	-	-	-
2005	-	-	-	-	-	-	-	-	5.8	7.1	8.3	5	-	-	-	-	-	31	-
2006	-	-	-	-	-	5	-	-	5.8	6.8	7.7	5	-	-	-	-	-	33	-
2007	-	-	-	-	-	-	-	-	5.0	7.2	9.1	5	-	-	-	-	-	30	-
2008	14	7.12	7.3	25	-	5	-	-	5.4	7.1	8.3	5	-	-	-	-	-	31	-
2009	-	-	-	-	-	-	-	-	5.8	7.5	9.0	3	-	-	-	-	-	-	-
SUMMARY:	13	7.04	8.8	21	5	6	-	-	5.0	7.1	11.3	10	1.8	2.6	3.2	-	-	29	-

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LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE							
	08/14/74		09/10/75		09/23/76		08/16/04	
m	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	22.2	8.6	15.1	9.8	21.2	8.7	21.5	8.7
1.0	-	-	15.1	9.7	21.2	8.8	21.5	8.7
2.0	22.0	8.5	15.2	9.5	21.2	8.9	21.5	8.8
3.0	21.5	8.9	15.2	9.4	21.0	8.9	21.5	8.8
4.0	-	-	15.2	9.4	21.0	8.9	21.5	8.8
5.0	20.0	8.9	15.2	9.2	20.0	8.9	21.3	8.8
6.0	18.7	8.8	15.2	9.3	18.6	8.7	21.1	8.8
7.0	-	-	15.2	9.3	17.8	8.4	21.1	8.8
8.0	12.7	8.5	15.2	9.2	15.5	8.0	20.9	8.7
9.0	9.0	8.7	15.0	9.2	12.1	7.5	17.2	7.4
10.0	-	-	14.4	8.8	9.8	7.6	14.8	6.9
11.0	8.0	8.8	10.0	7.4	9.0	7.2	13.4	7.0
12.0	7.8	8.6	9.0	6.4	8.7	7.2	12.4	6.9
13.0	-	-	8.5	6.4	8.0	7.2	11.5	6.9
14.0	7.2	8.6	7.6	6.6	-	-	10.7	6.8
15.0	6.8	8.6	7.2	6.5	7.6	7.0	10.2	6.6
16.0	-	-	7.0	6.4	-	-	9.8	6.7
17.0	6.7	8.6	7.0	6.3	7.2	7.0	8.9	6.9
18.0	6.5	8.7	6.8	6.3	-	-	8.5	6.8
19.0	-	-	-	-	7.0	6.8	8.3	6.7
20.0	6.2	8.6	6.3	6.3	-	-	8.1	6.8
21.0	6.2	8.6	-	-	7.0	6.7	8.0	6.9
22.0	-	-	6.3	6.3	-	-	7.9	6.9
23.0	6.0	8.4	-	-	6.9	6.3	7.8	6.6
24.0	6.0	8.5	6.2	6.0	6.9	6.0	-	-
26.0	6.0	8.2	6.1	5.7	-	-	-	-
27.0	6.0	8.3	-	-	-	-	-	-
28.0	-	-	6.1	5.6	-	-	-	-
29.0	6.0	8.1	6.0	5.3	-	-	-	-
31.0	6.0	8.1	-	-	-	-	-	-
32.0	6.0	8.0	-	-	-	-	-	-

WATER QUALITY SUMMARY

WILSON POND (LOWER), GREENVILLE

Midas: 342, 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 water quality, track algal blooms, and determine water quality trends. This dataset does not include data for bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data for Lower Wilson Pond was collected during five years between 1974 and 2004. Limited chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Lower Wilson Pond is considered to be above average based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algae blooms on Lower Wilson Pond is low.

Water Quality Measures: Lower Wilson Pond is an uncolored lake (color about 12 SPU) with an average SDT of 7 m (23 ft). The range of water column TP for Lower Wilson Pond averaged 6, with a range of 5 to 10 parts per billion (ppb), while Chla averaged 2.6 ppb (range 1.8-3.2). August dissolved oxygen (DO) profiles show little DO depletion in bottom waters of the lake, consistent with data from the 1970's. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

Lower Wilson Pond is managed by MDIFW primarily as a coldwater fishery. DO, in the cold, deep water during late summer is suitable for coldwater fish, which prefer water with more than 5ppm oxygen.

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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