

LAKE: CARRY P (EAST) (VLMP 25)
 TOWN: CARRYING PLC TWN TWP
 COUNTY: SOMERSET

MIDAS: 44
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

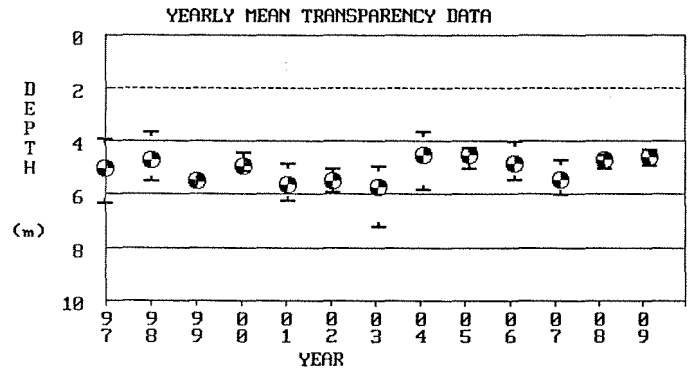
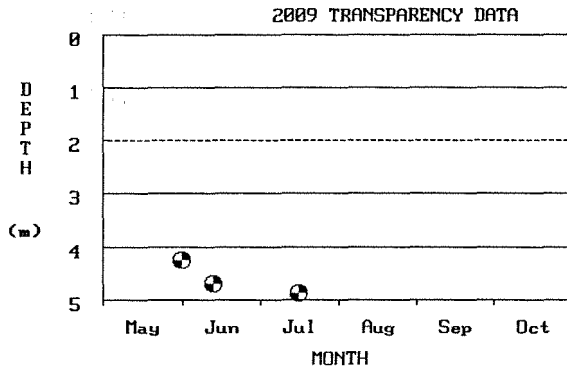
MAX. DEPTH: 9 m. (30 ft.)
 MEAN DEPTH: 4 m. (12 ft.)
 DELORME ATLAS #: 30
 USGS QUAD: EAST CARRY POND
 IFW REGION D: Rangeley Lakes (Strong)
 IFW FISH. MANAGMENT: Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 114.0 ha. (281.7 a.)
 FLUSHING RATE: 0.86 flushes/yr.
 VOLUME: 3610336.3 cu. m. (2929 ac.-ft.)
 DIRECT DRAINAGE AREA: 4.56 sq. km. (1.76 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. CARRY P (EAST) 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)			TROPHIC STATE INDICES			
					EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1997	-	-	-	-	-	-	-	-	3.9	5.0	6.3	3	-	-	-	-	-	-	-
1998	32	-	50.0	18	7	-	10	-	3.6	4.7	5.5	5	8.1	8.1	8.1	-	-	52	-
1999	-	-	-	-	-	-	-	-	5.5	5.5	5.5	2	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	4.4	4.9	5.1	4	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	4.8	5.6	6.2	3	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	5.0	5.5	5.9	3	-	-	-	-	-	-	-
2003	11	-	8.8	23	1	-	6	-	4.9	5.7	7.2	4	2.6	2.6	2.6	-	-	-	-
2004	-	-	-	-	-	-	-	-	3.6	4.5	5.8	4	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	4.2	4.5	5.0	2	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-	4.0	4.8	5.4	3	-	-	-	-	-	-	-
2007	29	6.69	4.1	17	12	-	7	-	4.7	5.4	6.0	4	3.1	3.1	3.1	-	-	-	-
2008	-	-	-	-	-	-	-	-	4.5	4.7	5.0	3	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	4.3	4.6	4.9	3	-	-	-	-	-	-	-
SUMMARY:	24	6.69	21.0	19	7	-	8	-	3.6	5.0	7.2	13	2.6	4.6	8.1	-	-	52	-

LAKE: CARRY P (EAST) (VLMP 25)
TOWN: CARRYING PLC TWN TWP
COUNTY: SOMERSET

MIDAS: 44
*TRUE BASIN: 1
*SAMPLE STATION: 1

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE					
	08/19/98		08/18/03		08/13/07	
<u>m</u>	<u>°C</u>	<u>ppm</u>	<u>°C</u>	<u>ppm</u>	<u>°C</u>	<u>ppm</u>
0.0	21.0	8.2	23.5	8.2	22.8	8.1
1.0	21.2	8.2	23.1	8.3	22.7	8.1
2.0	21.2	8.1	23.0	8.2	22.7	8.1
3.0	21.2	8.2	22.9	8.2	22.6	8.1
4.0	21.2	8.2	22.9	8.2	22.2	8.1
5.0	21.1	8.1	22.3	7.7	21.7	7.9
6.0	18.8	3.1	20.0	5.3	21.0	7.3
7.0	16.8	1.3	18.1	2.8	20.4	6.2
8.0	15.1	0.8	16.5	0.7	18.6	2.3
9.0	14.8	0.6	14.9	0.2	18.0	1.4
10.0	-	-	14.0	0.2	15.4	0.1
11.0	-	-	13.5	0.2	-	-

WATER QUALITY SUMMARY

EAST CARRY POND, Carrying Place Township

Midas: 0044, Basin: Primary (01)

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 East Carry Pond has been collected since 1997. During this period, 2 years of basic chemical information has been collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of East Carry Pond is considered to be average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on East Carry Pond is low to moderate.

Water Quality Measures: East Carry Pond is a non-colored lake (average color 22 SPU) with an average SDT of 5.2m (17ft). Water column TP for East Carry Pond is approximately 4 parts per billion (ppb), while Chla levels are around 5.4 ppb. Recent dissolved oxygen (DO) profiles show moderate 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 to moderate. 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 found on the World Wide Web at <http://www.pearl.maine.edu> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: CARR0044, Revised: 3/05, By: jp