

LAKE: FAULKNER L (VLMP 03)
 TOWN: WESTON
 COUNTY: AROOSTOOK

MIDAS: 1064
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

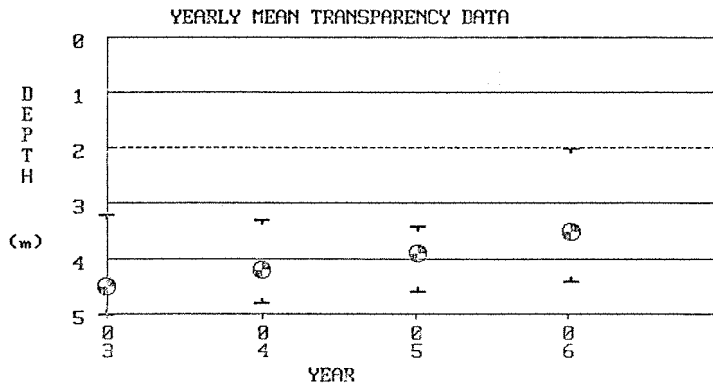
MAX. DEPTH: 4 m. (12 ft.)
 MEAN DEPTH: 2 m. (6 ft.)
 DELORME ATLAS #: 53
 USGS QUAD: HAYNESVILLE
 IFW REGION F: Penobscot (Enfield)
 IFW FISH. MANAGMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 29.0 ha. (71.7 a.)
 FLUSHING RATE: 2.97 flushes/yr.
 VOLUME: 476249.2 cu. m. (386 ac.-ft.)
 DIRECT DRAINAGE AREA: 2.24 sq. km. (0.86 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. FAULKNER 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 (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS /cm)	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPIC STATE INDICES			
					EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
2003	-	-	-	-	-	-	-	-	3.2*	4.5*	5.0*	5	-	-	-	-	-	-	-
2004	-	6.83	-	-	12	-	-	-	3.3*	4.2*	4.8*	6	3.6	3.6	3.6	-	-	-	-
2005	-	-	-	-	-	-	-	-	3.4*	3.9*	4.6*	3	-	-	-	-	-	-	-
2006	30	6.98	8.4	30	9	-	-	-	2.0*	3.5*	4.4*	6	5.5	5.5	5.5	-	-	-	-
SUMMARY:	30	6.90	8.4	30	11	-	-	-	2.0*	4.0*	5.0*	4	3.6	4.6	5.5	-	-	-	-

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH (m)	SAMPLE DATE			
	09/03/04		08/24/06	
	°C	ppm	°C	ppm
0.0	20.4	8.1	20.2	8.9
1.0	20.4	8.0	20.2	9.0
2.0	20.4	8.0	20.1	8.9
3.0	20.3	8.0	19.9	8.9

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DEPTH	SAMPLE DATE			
	09/03/04		08/24/06	
<u>m</u>	<u>°C</u>	<u>ppm</u>	<u>°C</u>	<u>ppm</u>
4.0	20.1	7.9	19.3	8.6

WATER QUALITY SUMMARY

FAULKNER LAKE, WESTON

Midas: 1064, Sample Station # 1, 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 datasets for Faulkner Lake have been collected since 2003. During this period, 1 year of basic chemical information was collected, in addition to 3 years of Secchi Disk Transparencies (SDT). In summary, the water quality of Faulkner Lake is considered to be about average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance alga blooms on Faulkner Lake is low to moderate.

Water Quality Measures: Faulkner Lake has an average SDT of 4.2*m (13.8*ft). The * indicates that the Secchi disk was visible on the bottom of the lake for most of the readings; If the lake were deeper, the SDT readings would be greater. The water column TP for Faulkner Lake is 12 parts per billion (ppb), and Chla is 3.6 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.

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: faul1064, Revised: 3/06, By: JP