

# Boot Lake Water Quality Report

Amy Klebe

06/05/2010





# Water Quality Results

## Lake Water Quality 2009 Annual Report

Boot Lake  
Oconto County  
Waterbody ID Number: 418700

Lake Type: SEEPAGE  
DNR Region: NE  
GEO Region: NE

Site Name	Station ID
Boot Lake - Deepest Part - East Basin	433252

Date	SD (feet)	SD (meters)	Hit Bottom?	CHL	TP	TSI (SD)	TSI (Chl)	TSI (TP)	Lake Level	Staff Gauge	Clarity	Color	Perception
07/09/2009	18	5.5	NO			35			LOW	34	CLEAR	BLUE	2-Very minor aesthetic problems
07/19/2009	15.5	4.7	NO			38			LOW		CLEAR	GREEN	1-Beautiful, could not be nicer
07/25/2009	15.5	4.7	NO			38			LOW	34	CLEAR	GREEN	1-Beautiful, could not be nicer
09/08/2009	20	6.1	NO			34			LOW	34	CLEAR	BLUE	1-Beautiful, could not be nicer

07/19/2009		
Depth	Temp.	D.O.
FEET	DEGREES C	MG/L
0	18.4	9.79
2	20.7	8.5
4	20.8	7.26
6	20.8	8.63
8	20.8	8.41
10	20.7	8.26
12	20.7	6.61
14	20.7	6.76
16	20.7	7.68
18	20.7	8.43
20	20.7	7.97
22	20.7	7.59
24	20.6	8.17

07/25/2009		
Depth	Temp.	D.O.
FEET	DEGREES C	MG/L
0	21.8	8.49
2	21.8	8.52
4	21.8	8.64
6	21.8	8.6
8	21.8	8.55
10	21.8	8.73
12	21.8	8.76
14	21.7	8.85
16	21.7	8.75
18	21.7	8.74
20	21.7	8.64
22	21.1	8.1
24	20.9	8.46

09/08/2009		
Depth	Temp.	D.O.
FEET	DEGREES C	MG/L
0	22.3	8.4
2	22.2	8.25
4	22.5	8.25
6	21.3	8.4
8	21.2	8.08
10	21.2	8.07
12	21.2	7.8
14	21.1	7.73
16	21.1	8.55
18	21.1	8.5
20	20.9	7.45
22	20.9	7.9
24	20.7	8.77

07/19/2009		
Depth	Temp.	D.O.
FEET	DEGREES C	MG/L
26	20.5	7.94
28	18.3	9.86

07/25/2009		
Depth	Temp.	D.O.
FEET	DEGREES C	MG/L
26	20	8.73
28	17.9	8.6

09/08/2009		
Depth	Temp.	D.O.
FEET	DEGREES C	MG/L
26	20.5	6.5
28	20.3	5.04
30	19.7	2.76
32	18.7	.36

Date	Fieldwork Comment
07/09/2009	calm- sunny- loons seen
07/19/2009	training session with Jay Van Thiele. Kurt Klebe training also. calm Kurt + Amy training on O2 + PH meters with Jay Van Thiele. Calm- clear day. saw 3 loons- 1 crane and 2 eagles. PH 8.5
07/25/2009	Kurt + Amy Klebe windy- partly cloudy PH 8.6
09/08/2009	calm- sunny day. PH 7.7 no wildlife seen

Date	Data Collectors	Project
07/09/2009	Amy Klebe	Citizen Lake Monitoring - Water Quality - Boot Lake - East Basin- Oconto County
07/19/2009	Amy Klebe	Citizen Lake Monitoring - Water Quality - Boot Lake - East Basin- Oconto County
07/25/2009	Amy Klebe	Citizen Lake Monitoring - Water Quality - Boot Lake - East Basin- Oconto County
09/08/2009	Amy and Kurt Klebe	Citizen Lake Monitoring - Water Quality - Boot Lake - East Basin- Oconto County

SD = Secchi depth measured in feet converted to meters; CHL = Chlorophyll a in micrograms per liter (ug/l); TP = Total phosphorus in ug/l, surface sample only; TSI(SD), TSI(CHL), TSI(TP) = Trophic state index based on SD, CHL, TP respectively; Depth measured in feet; Temp = Temperature in degrees Fahrenheit; D.O. = Dissolved Oxygen in parts per million.

Wisconsin Department of Natural Resources \* Wisconsin Lakes Partnership  
Report Generated: 06/02/2010

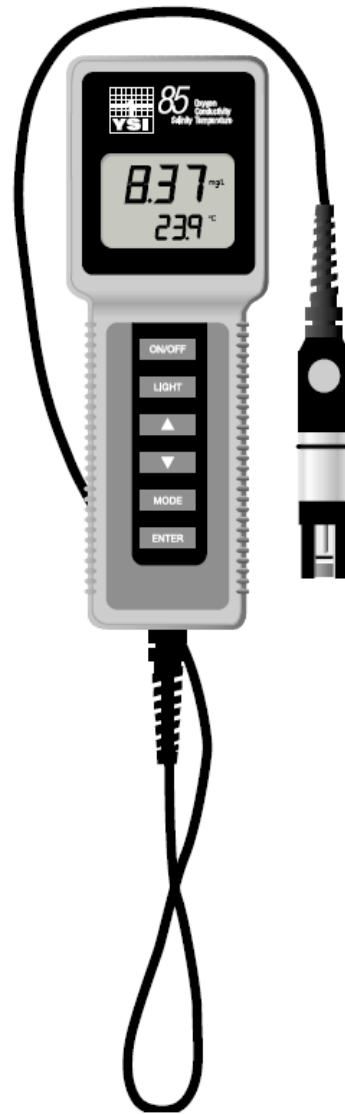
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# Monitoring Instruments

## YSI Model 85

Handheld Oxygen,  
Conductivity, Salinity,  
and Temperature  
System



Oakton® Waterproof EcoTestr™ pH 2 Pocket pH Meter

# Water Clarity

## Boot Lake - Deepest Part - East Basin 2009 Results



Eutrophic Mesotrophic Oligotrophic

**Boot Lake - Deepest Part - East Basin** was sampled **4** different days during the 2009 season. Water clarity was sampled with a secchi disk.

The average summer (July-Aug) secchi disk reading for Boot Lake - Deepest Part - East Basin (Oconto County, WBIC: 418700) was 16.33 feet. The average for the Northeast Georegion was 11.2 feet. Typically the summer (July-Aug) water was reported as **CLEAR** and **GREEN**.

The overall Trophic State Index (based on secchi) for Boot Lake - Deepest Part - East Basin was 37. The TSI suggests that Boot Lake - Deepest Part - East Basin was **oligotrophic**. This TSI suggests deeper lakes still oligotrophic, but bottom water of some shallower lakes will become oxygen-depleted during the summer.

# Watercraft Inspection Report



State of Wisconsin  
Department of Natural Resources  
Wisconsin Lakes Partnership

Watercraft Inspection Report  
Form 3200-120 (R 6/08)

Inspector Name(s)  Volunteer  Paid Date \_\_\_\_\_  
 Waterbody Name \_\_\_\_\_ County \_\_\_\_\_ Landing Location Description \_\_\_\_\_

Inspection Time	Boat Was...		Questions to Ask Boater														Sources of Information About Aquatic Invasive Species (select all that apply)						Observations							
	Entering	Leaving	Was boat used during past 5 days on a different waterbody?	After Last Use Did You...								Aware of Law?		Inspector / Boater	Media	Announcement	News	Brochure	Signs at Launch	Billboards	Web	Vegetation		Violation		Number of People Contacted				
				Inspect and Remove Plants	Drain Water	Dispose of Bait	Ice Your Catch	Wash Equip. or Dry 5 Days	Y	N	Y											N	N/A	Y	N		N/A	Y	N	Y
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Totals																														
Total Hours Spent at this Location	Comments:																													

Please report totals online at: [dnr.wi.gov/lakes/cbcw-data](http://dnr.wi.gov/lakes/cbcw-data)  
If you have any questions, please call 715-346-4978.

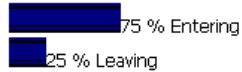


# Watercraft Summary Graphs

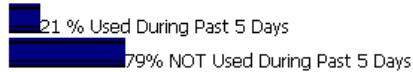
## Project: Clean Boats- Clean Waters on Boot Lake

Total number of boats inspected so far: 24  
 Total number of people contacted so far: 51  
 Time spent: 16.5 hours

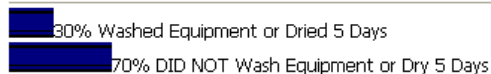
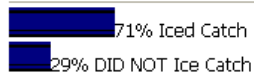
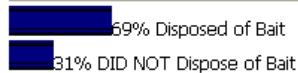
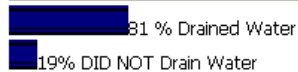
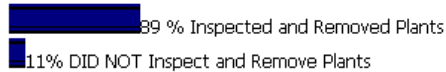
### Boats:



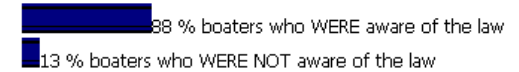
### Boat Use...



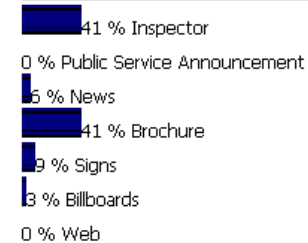
### After Last Use...



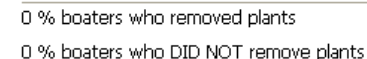
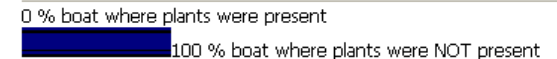
### Aware of Law:



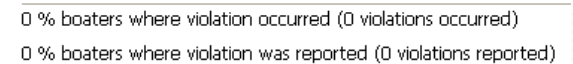
### Of those who had previous knowledge:



### Were Plants Removed (If Present)?:



### Violations?:





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Imagery Date: Mar 5, 2005

45°16'03.92" N 88°38'06.52" W elev 1336 ft

Eye alt 11840 ft