

# State of the Lakes





# OVERVIEW

- BRIEF LAKE HISTORY
- ALGAE SAMPLING
- NUTRIENT MONITORING
- SEDIMENTATION
- SHORELINE DEVELOPMENT
- SEPTIC TANKS
- NON-NATIVE SPECIES
- VOLUNTEER OPPORTUNITIES





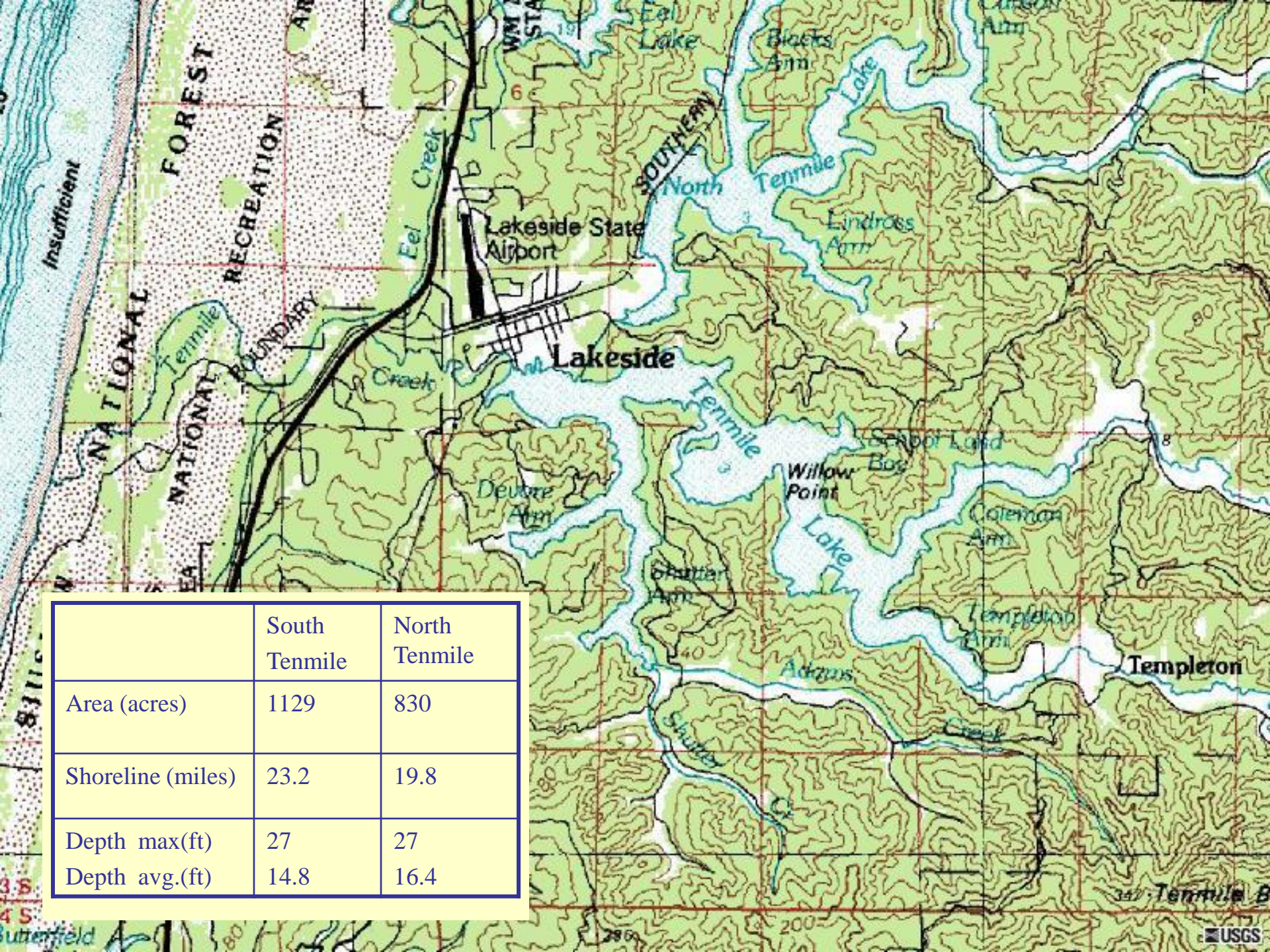


Image State of Oregon

Image © 2008 DigitalGlobe

©2008 Google™





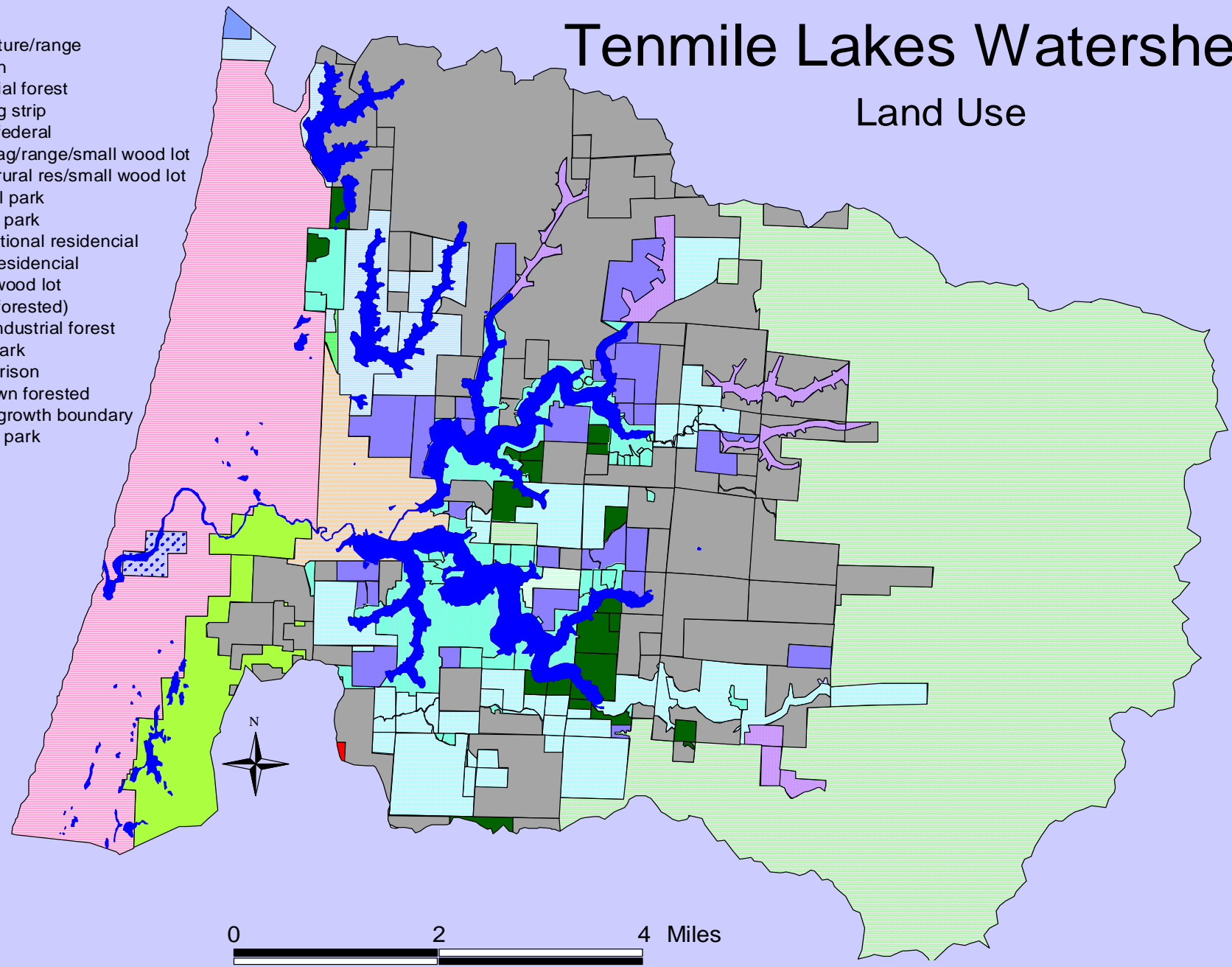
	South Tenmile	North Tenmile
Area (acres)	1129	830
Shoreline (miles)	23.2	19.8
Depth max(ft)	27	27
Depth avg.(ft)	14.8	16.4



# Tenmile Lakes Watershed

## Land Use

- Lakes
- Land Use
  - Agriculture/range
  - Aviation
  - Industrial forest
  - Landing strip
  - Mixed federal
  - Mixed ag/range/small wood lot
  - Mixed rural res/small wood lot
  - Federal park
  - Private park
  - Recreational residential
  - Rural residential
  - Small wood lot
  - State (forested)
  - State industrial forest
  - State park
  - State prison
  - Unknown forested
  - Urban growth boundary
  - County park





LAKESIDE ORE.  
TEN MILE.







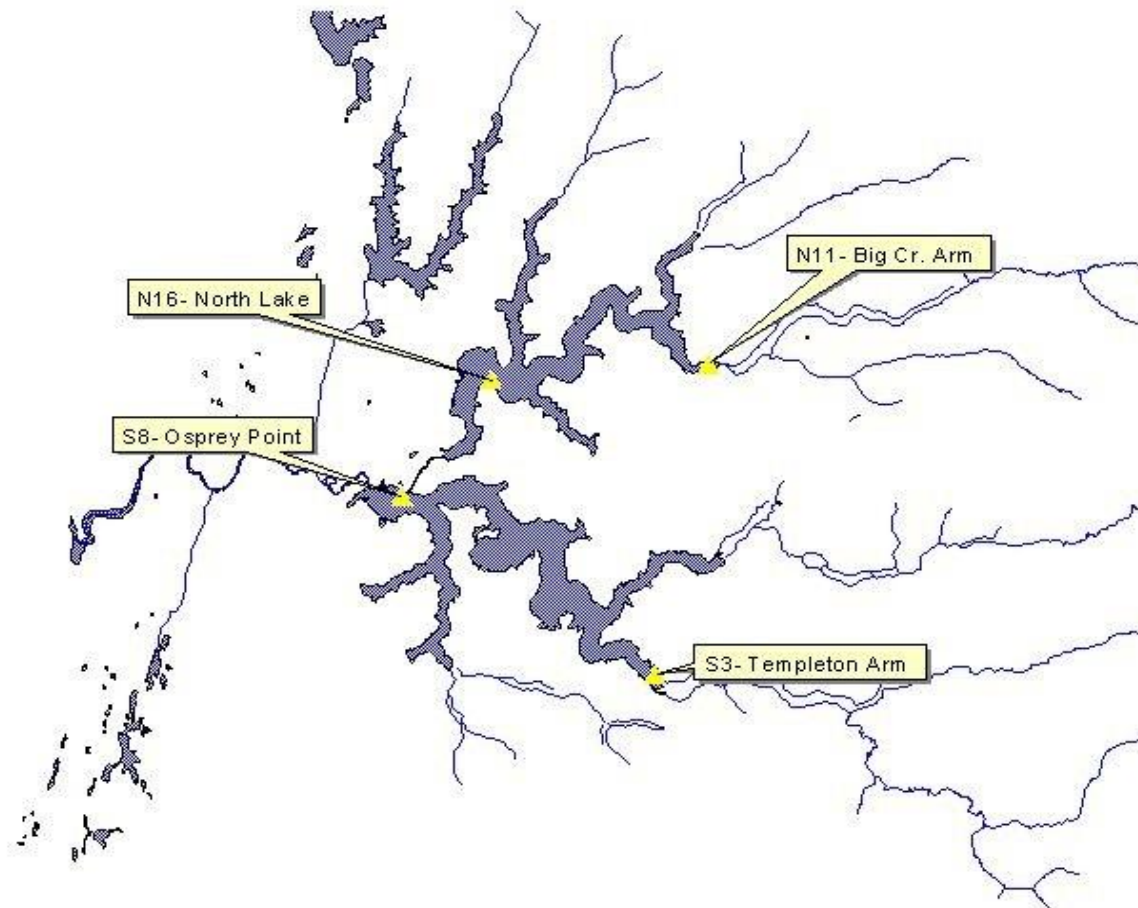




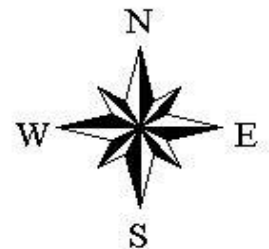
# Algae Sampling Program



# Algae



- ▲ Algae Sampling Sites
- Streams
  - L
  - M
  - S
- Lakes



























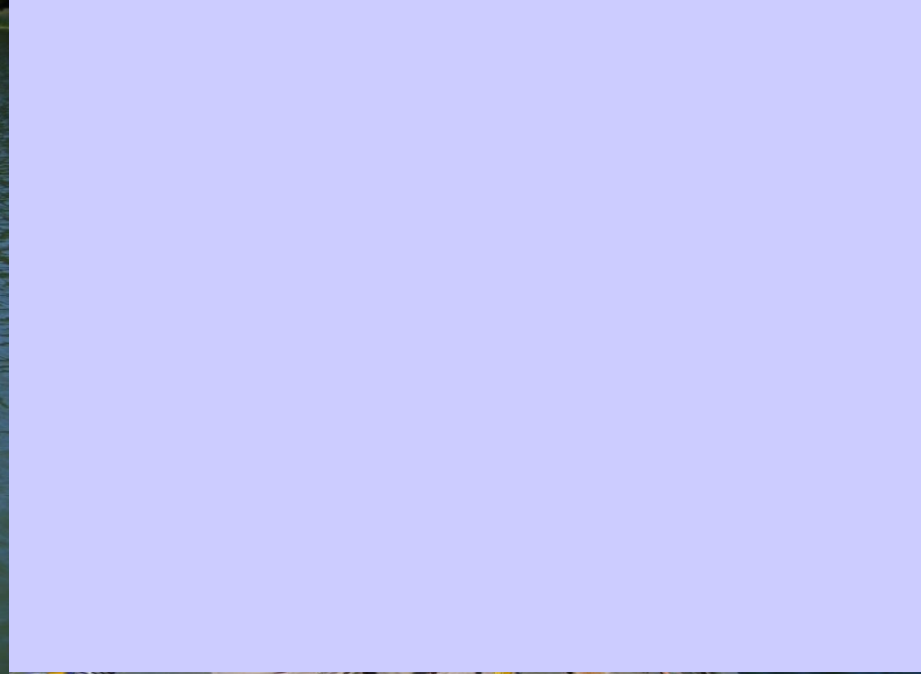
TAKE A FISHING LEAD

EAGLE  
MENU  
DOWN  
PMS CLEAR

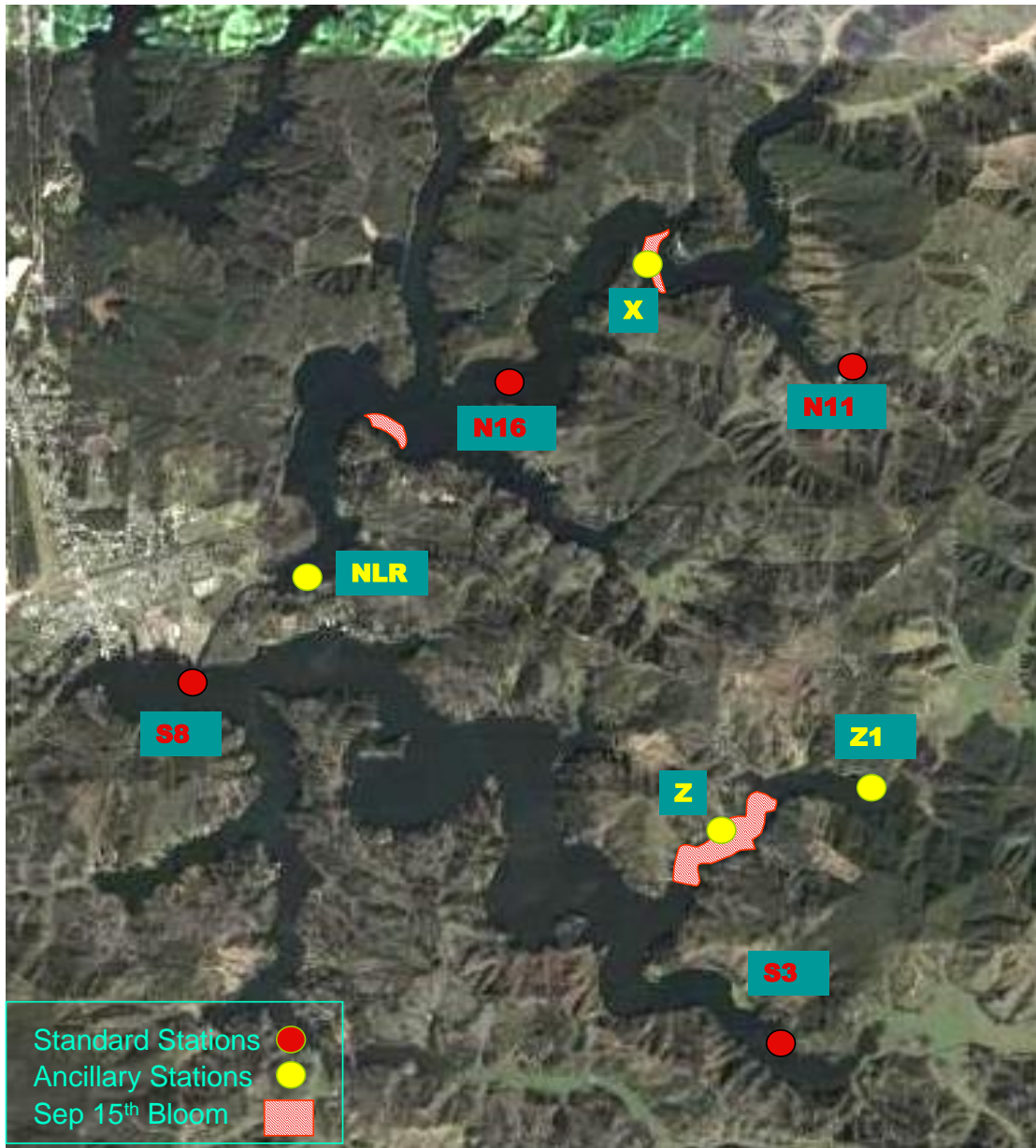














# Oregon Harmful Algae Bloom Program

## 2009 Bloom Season Recap

### Goals:

The Harmful Algae Bloom program is working to gain a better understanding about the occurrence of toxic algal blooms in Oregon and their impact on human health. Funding is through a five-year federal grant from the U.S. Centers for Disease Control and Prevention.

### Accomplishments this year:

- Curtis Cude provided testimony on HAB issues to the Oregon Legislature.
- The first task force meeting occurred in March 2009 to increase collaboration among federal and state partners.
- HABS staff responded to numerous newspaper and radio inquiries, thereby furthering public outreach regarding HABS issues.
- 18 human and 10 animal exposures to HABS were investigated. These exposures ranged from health concerns that were not likely associated to HABS to our most significant incident of the summer which was a confirmed HABS-related animal death.
- Two articles were published: one for the Oregon CD Summary (distributed to 16,000 medical providers statewide) and the other for the Oregon Veterinary Medical Association.
- The program research analyst established the HABISS data tracking system for Oregon.
- The Oregon PH Laboratory has developed capacity for toxin testing (microcystin), species identification and enumeration. More details soon...

Figure 1. 2009 Advisories, numbered chronologically

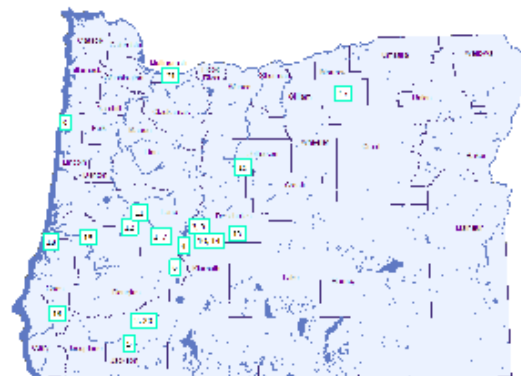
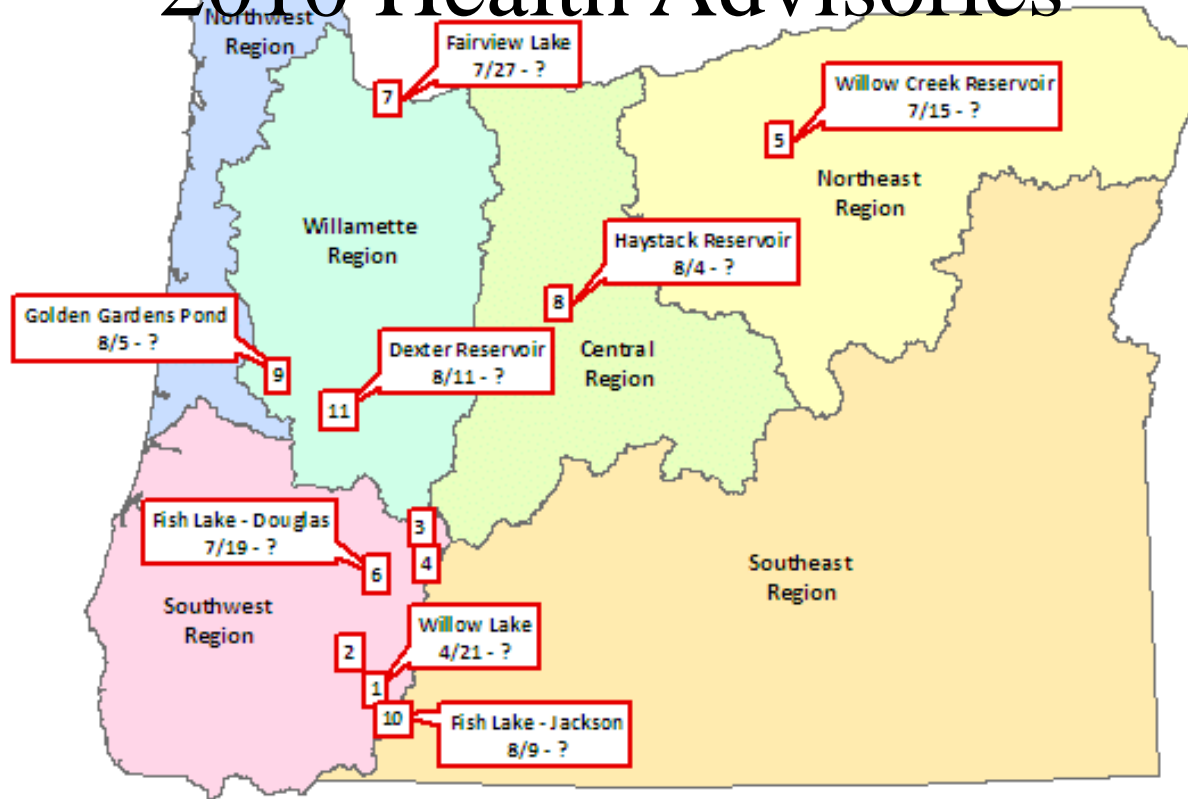


Table 1. 2009 Advisories by waterbody, date and county

#	Waterbody Name	County	Start	End	Duration
1	Hill Creek Reservoir	Lane	5/21	6/16	26 days
2	Lost Creek Lake	Jackson	6/15	6/29	14 days
3	Crane Prairie Reservoir	Deschutes	6/18	7/09	21 days
4	Odell Lake	Klamath	7/22	8/12	21 days
5	Whetstone Pond	Jackson	7/23	9/09	48 days
6	Lemolo Lake	Douglas	7/23	8/18	26 days
7	Hill Creek Reservoir	Lane	7/30	8/31	32 days
8	Devils Lake	Lincoln	7/31	9/08	39 days
9	Crane Prairie Reservoir	Deschutes	7/31	8/12	12 days
10	Wickiup Reservoir	Deschutes	8/12	8/31	19 days
11	Dexter Reservoir	Lane	8/13	9/28	46 days
12	Dorena Reservoir	Lane	8/13	10/23	71 days
13	Paulina Lake	Deschutes	8/27	9/21	25 days
14	Wickiup Reservoir	Deschutes	9/02	9/25	23 days
15	Elk Creek @ Umpqua R.	Douglas	9/04	9/22	18 days
16	Sru Lake	Coos	9/09	11/30	82 days
17	Willow Creek lake	Morrow	9/11	10/19	38 days
18	Tenmile Lake	Coos	9/18	11/30	73 days
19	Haystack Reservoir	Jefferson	9/18	11/02	45 days
20	Lost Creek Lake	Jackson	9/18	10/13	25 days
21	Blue Lake	Multnomah	10/14	11/06	23 days



# 2010 Health Advisories



No.	Waterbody	Region	County	Start Date	End Date	No. of Days
1	Willow Lake	Southwest	Jackson			
2	Lost Cr Lake	Southwest	Jackson	6/04/2010	6/22/2010	18
3	Lemolo Lake	Southwest	Douglas			32
4	Diamond Lake	Southwest	Douglas	7/15/2010	8/03/2010	19
5	Willow Creek Reservoir	Northeast	Morrow			
6	Fish Lake	Southwest	Douglas	7/19/2010		
7	Fairview Lake	Willamette	Multnomah			
8	Haystack Reservoir	Central	Jefferson	8/04/2010		
9	Golden Gardens Pond	Willamette	Lane			
10	Fish Lake	Southwest	Jackson	8/09/2010		
11	Dexter Reservoir	Willamette	Lane			



# Blue-Green Algae Alert Levels

For Drinking Water:

- **Alert Level 1**- Increased Vigilance Level ( >500 cells/ml of potentially toxigenic species)
- **Alert Level 2**- Consultation with Health Authorities and Media release (2000 cells/ml of potentially toxigenic species)
- **Alert Level 3**- assessment by health authorities indicates the water may be unsafe and is unacceptable for supply without treatment to remove toxins. (>15,000cells/ml)

For recreation:

- Recreational postings occur when microcystis exceeds 40,000 cells/ml or when species such as anabaena exceed 100,000 cells/ml



Station	Date	<i>Microcystis aeruginosa</i> (cells/ml)	<i>Gloeotrichia echinulata</i> (cells/ml)	<i>Microcystis + Gloeotrichia</i> (cells/ml)	<i>Anabaena flos-aquae</i> (cells/ml)	<i>Anabaena planktonica</i> (cells/ml)	<i>Anabaena circinalis</i> (cells/ml)	<i>Anabaena sp.</i> (cells/ml)	Total <i>Anabaena</i> (cells/ml)
S3	6/22/09	0	0	0	0	501	0	0	501*
S8	6/22/09	0	0	0	0	0	0	0	0
N11	6/22/09	0	0	0	0	0	0	0	0
N16	6/22/09	0	0	0	0	0	0	0	0
S3	7/13/09	0	0	0	0	348	0	0	348
S8	7/13/09	0	0	0	259	677	0	0	936
N11	7/13/09	0	0	0	0	0	0	0	0
N16	7/13/09	0	3,191	3,191**	0	53	0	0	53
S3	7/27/09	0	0	0	353	6,611	0	0	6,964
S8	7/27/09	2,181	0	2,181	0	2,523	0	0	2,523
N11	7/27/09	0	0	0	0	1,667	0	0	1,667
N16	7/27/09	0	0	0	0	2,075	0	0	2,075
S3	8/10/09	3,719	0	3,719	0	5,397	0	0	5,397
S8	8/10/09	1,018	0	1,018	15	2,684	0	0	2,699
N11	8/10/09	0	0	0	0	10,966	0	0	10,966
N16	8/10/09	172	0	172	0	3,536	0	0	3,536
S3	8/25/09	0	0	0	0	1,945	0	0	1,945
S8	8/25/09	3,915	0	3,915	0	514	23	0	537
N11	8/25/09	741	0	741	0	293	0	0	293
N16	8/25/09	1,611	0	1,611	0	941	0	0	941
S3	9/8/09	2,497	0	2,497	0	0	0	0	0
S8	9/8/09	2,689	0	2,689	0	440	0	0	440
N11	9/8/09	1,222	0	1,222	0	50	0	0	50
X	9/8/09	300,940	0	300,940***	0	605,160	0	0	605,160
N16	9/8/09	2,158	0	2,158	0	610	62	0	672
X	9/15/09	1,104,048	0	1,104,048	0	147,703	0	0	147,703
Z	9/15/09	2,158,388	0	2,158,388	0	2,137	0	0	2,137
S3	9/21/09	12,362	0	12,362	0	260	0	0	260
S8	9/21/09	1,901	0	1,901	0	184	0	0	184
Z	9/21/09	1,008,139	0	1,008,139	0	17,932	0	0	17,932
N11	9/21/09	4,126	0	4,126	0	428	0	0	428
N16	9/21/09	3,479	0	3,479	0	1,516	87	0	1,603
S3	10/5/09	1,974	0	1,974	2	17	0	0	19
S8	10/5/09	1,112	0	1,112	26	24	0	0	50
N11	10/5/09	4,507	0	4,507	0	40	0	0	40
N16	10/5/09	4,599	0	4,599	46	147	0	0	193
NLR	10/5/09	2,612,788	0	2,612,788	814	30,527	0	0	31,341
Z1	10/5/09	3,197,474	0	3,197,474	39,783	86,400	56,498	0	182,681
N16	10/20/09	6,797	0	6,797	182	358	0	0	540
NLR	10/20/09	601,663	0	601,663	9,456	5,621	0	0	15,077
Z1	10/20/09	4,664,468	0	4,664,468	770,835	82,308	0	0	853,143
S3	11/12/09	516	0	516	112	32	0	0	144
S8	11/12/09	535	0	535	51	0	0	0	51
N11	11/12/09	199	0	199	13	29	0	0	42
N16	11/12/09	1,377	0	1,377	90	45	0	0	134





**Date: September 18, 2009**

**General questions: Jodi Sherwood, DHS, 503-480-4982**

**Technical questions: Laura Boswell, 971-673-0438**

Tenmile Lake Basin Partnership: 541-759-2414

**Public health advisory issued for Tenmile Lake**

A health advisory prompted by high algae levels found in Tenmile Lake, 10 miles north of North Bend in Coos County, was issued today by the Oregon Department of Human Services (DHS).

Water monitoring has confirmed the presence of blue-green algae that can produce toxins harmful to humans and animals, said Laura Boswell, Harmful Algae Bloom Surveillance program coordinator in DHS.

These algae levels are likely to be associated with dangerous toxin concentrations in the water, according to World Health Organization guidelines.

Swallowing or inhaling water droplets should be avoided, as well as skin contact with water by humans or animals. Drinking water from Tenmile Lake is especially dangerous. Boswell advised campers and other visitors that toxins cannot be removed by boiling, filtering or treating the water. People who draw in-home water directly from an algae bloom-affected water body are advised to use an alternative water source. If their drinking water supplier draws from an affected water source, they may want to ask if the water has been tested. If the supplier has not tested the water, DHS recommends using another water source not affected by the bloom.

DHS recommends that people who choose to eat fish from waters where algae blooms are present should remove all fat, skin and organs before cooking since toxins are more likely to collect in these tissues.

(more)

Exposure to toxins can produce symptoms of numbness, tingling and dizziness that can lead to difficulty breathing or heart problems and require immediate medical attention. Symptoms of skin irritation, weakness, diarrhea, nausea, cramps and fainting should also receive medical attention if they persist or worsen. Children and pets are particularly susceptible.

The public will be advised when the concern no longer exists.

With proper precautions to avoid water contact, people are encouraged to visit Tenmile Lake and enjoy activities such as camping, hiking, biking, picnicking, catch-and-release fishing and bird watching. Boating is safe as long as speeds do not create excessive water spray, which could lead to inhalation risk.

For local information contact the Tenmile Lake Basin Partnership, 541-759-2414.

For health information, contact Laura Boswell, Harmful Algae Bloom Surveillance program coordinator, 971-673-0438 or

[www.oregon.gov/DHS/ph/hab/](http://www.oregon.gov/DHS/ph/hab/); also the DHS toll-free information line at 1-877-290-6767, or Coos County Health Department at 541-756-2020.





Station N16



Station "X"



Station "Z"



Station "Z1"



<i>Station</i>	<i>Date</i>	<i>Microcystis + Gloeotrichia (cells/ml)</i>	<i>Total Anabaena (cells/ml)</i>	<i>Microcystin (µg/L)</i>	<i>Anatoxin-a (µg/L)</i>	<i>Saxitoxin (µg/L)</i>	<i>Exceedance of microcystin TDI of 0.04 µg/kg/day for a 20kg (44lb) child ingesting 100 mls<sup>1</sup> (x greater than TDI)</i>
X	9/8/2009	300,940	605,160	20.0	nd	nd	2.5
Z	9/15/2009	2,158,388	2,137	2365.0	nt	nt	295.6
Z	9/21/2009	1,008,139	17,932	910.0	nt	nt	113.8
Z1	10/5/2009	3,197,474	182,681	1410.0	0.6	nt	176.3
Z1	10/20/2009	4,664,468	853,143	1265.0	2.0	nt	158.1

1µg/L – Drinking water advisory

8µg/L – Recreational advisory



**Oregon Health Division  
Drinking water treatment guidance**

- 1. Treatment systems should consist of sand filtration followed by chlorination, followed by activated charcoal filtration. It is essential that sand filtration be done before disinfection to remove as many algal cells as possible without killing or rupturing them.**
- 2. Chlorination systems should be capable of maintaining at least 1 ppm of chlorine residual for at least 20 minutes contact time before the water enters the activated charcoal system.**
- 3. The final step in the process should be effective activated charcoal treatment to remove toxin remaining after the sand filtration and disinfection processes.**
- 4. All treatment equipment used should meet NSF standard 53, and should be adequately sized to treat the maximum amount of water that you use. Treatment equipment needs regular monitoring and servicing to assure that it functions properly.**
- 5. Ideally all water entering your home should be treated as recommended. It is possible to treat only water used in the kitchen, but this increases chances that animals or pets would inadvertently drink untreated water.**

**As more monitoring is done and toxin levels are measured this advisory may be altered. The advisory is to remain in effect until specifically changed or lifted by county and state health officials.**

**Contact Person: Laura Boswell (971) 673-0440**





Lab Station ID	Description	Date	<i>Microcystis aeruginosa</i> (cells/ml)	<i>Anabaena flosaquae</i> (cells/ml)	<i>Anabaena planktonica</i> (cells/ml)	<i>Anabaena circinalis</i> (cells/ml)	<i>Anabaena</i> sp. (cells/ml)	Total <i>Anabaena</i> (cells/ml)	<i>Microcystin</i> (ug/ml)
L1	Tap	9/27/2006	0	326	41	0	0	367	
L2	intake	9/27/2006	735	392	221	0	0	613	
L1	Tap	10/11/2006	0	580	232	0	0	812	
L2	intake	10/11/2006	0	756	571	33	0	1360	
L1	Tap	8/7/2007	0	0	742	0	0	742	
L2	intake	8/7/2007	323	3839	23517	264	0	27620	
L1	Tap	10/27/2007	0	35	0	0	0	35	non-detect
L2	intake	10/27/2007	4271	0	0	0	0	0	0.7
Dock	Tap	9/26/2009	0	0	0	0	0	0	non-detect
Dock	intake	9/26/2009	10561	210	1117	0	0	1458	1.8



# Alternative water sources





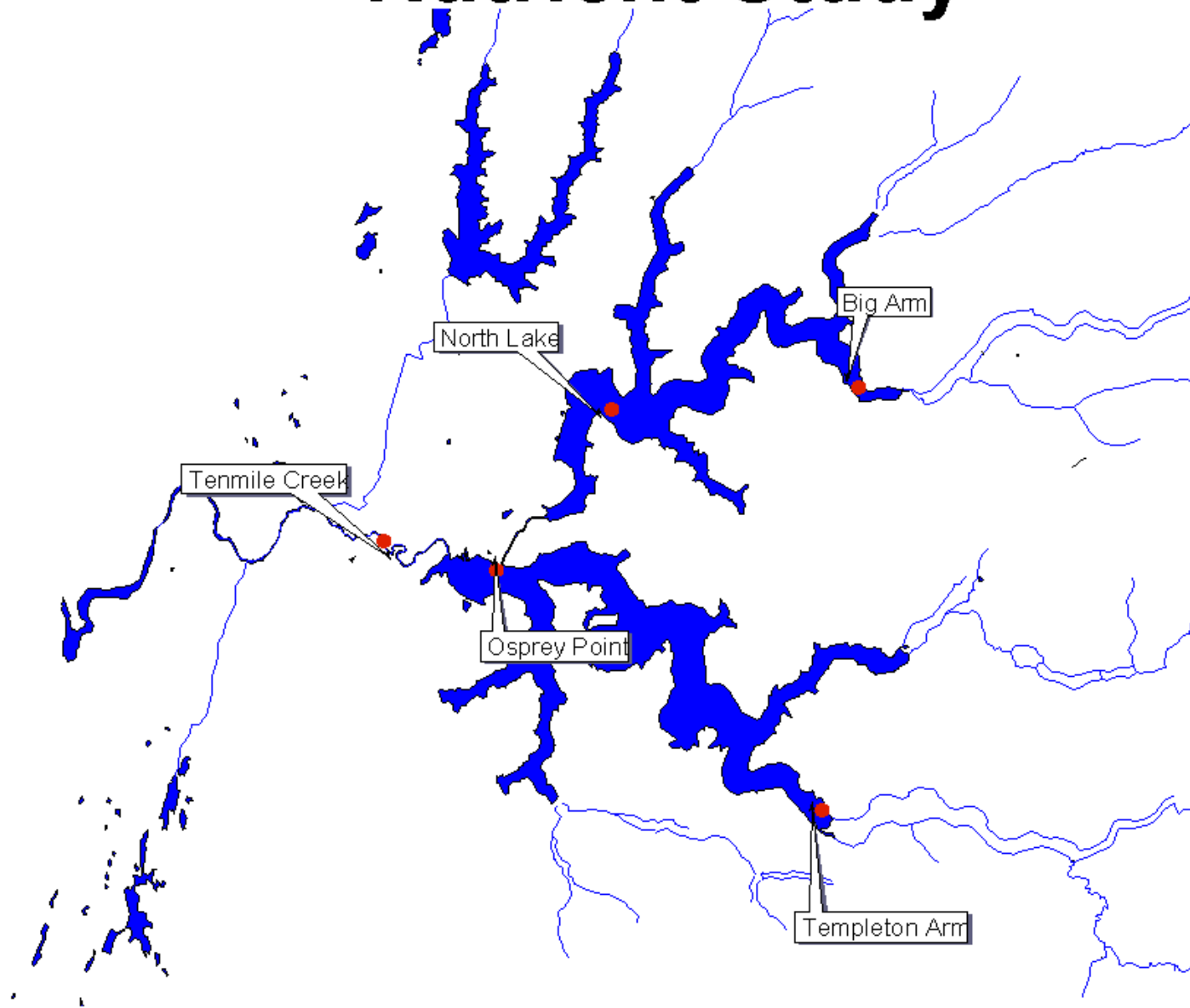
# NUTRIENTS

- LAKE SAMPLING
- STORM CHASING/ WINTER TRIB SAMPLING





# Nutrient Study







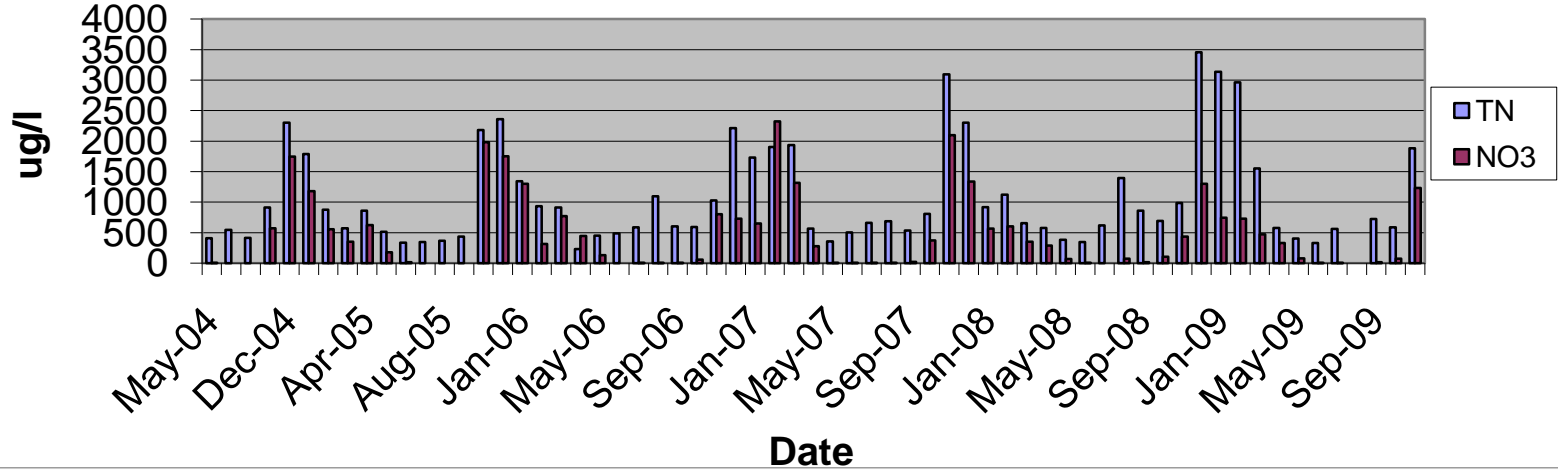




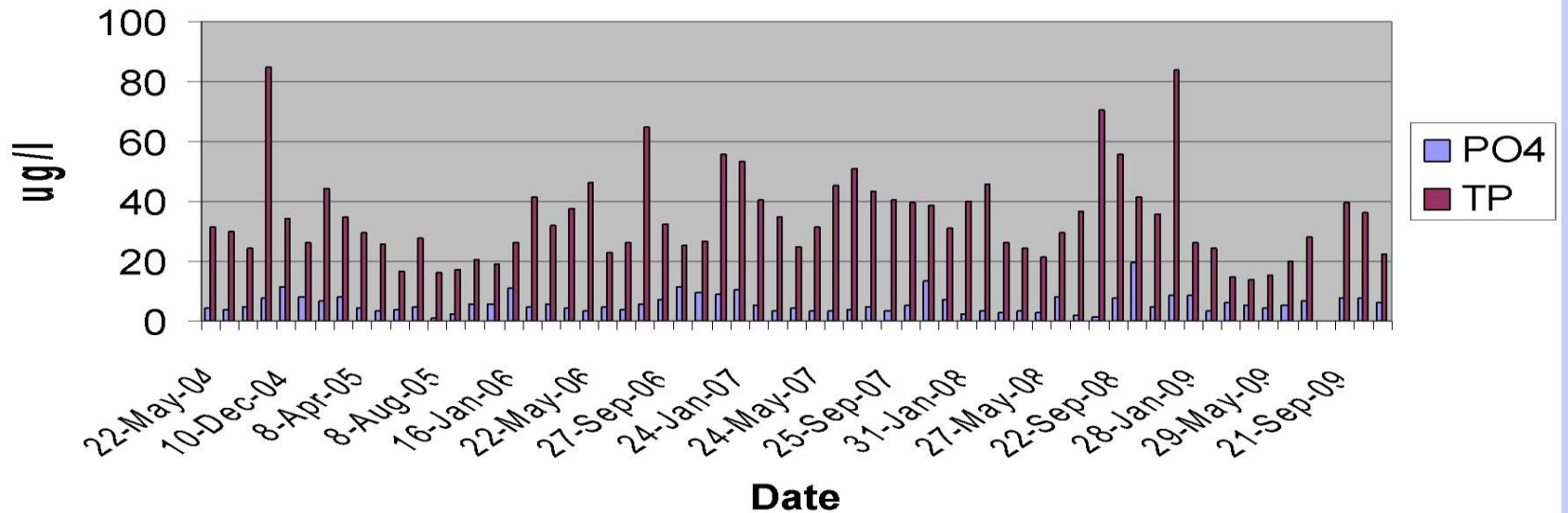


# Big Cr. Arm

## Nitrogen

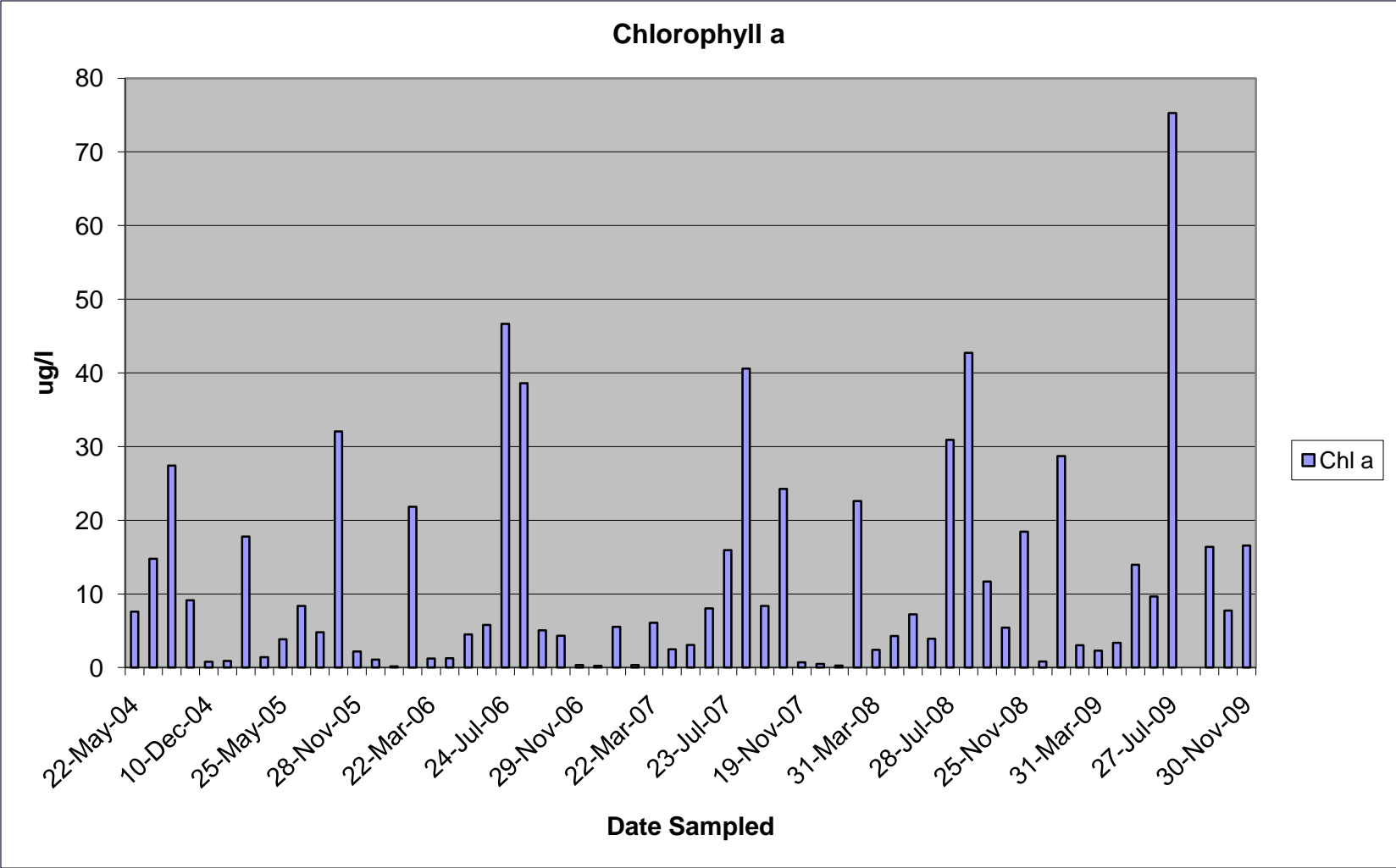


## Phosphorus





# TEMPLETON ARM



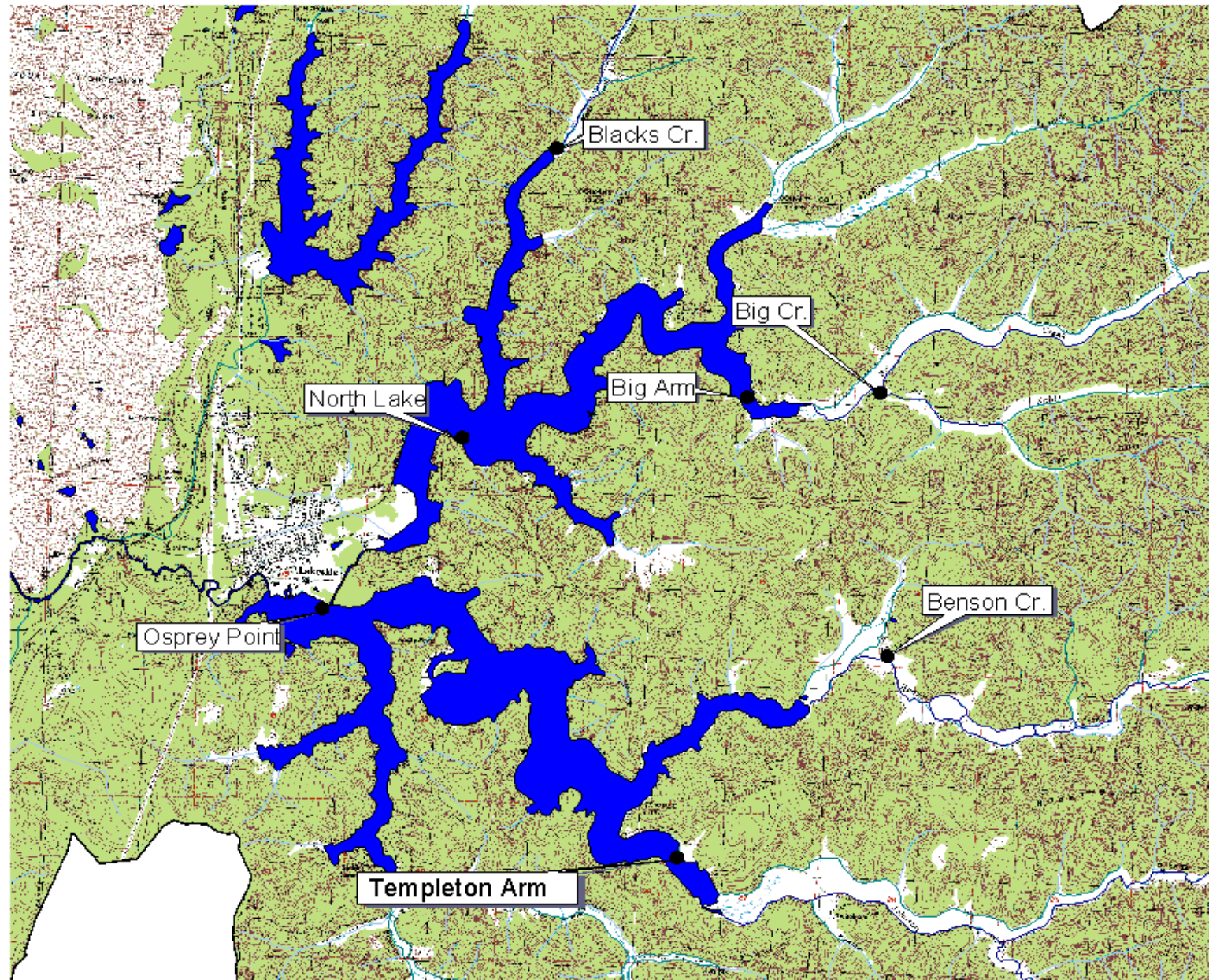


# Tenmile Nutrient Summary

Parameter	USEPA	Tenmile Lakes (5.5yr avg.)
NO <sub>2</sub> -+NO <sub>3</sub> -	20 (ug/L)	320-510 (ug/L)
TN	190 (ug/L)	785-1091 (ug/L)
TP	7.1 (ug/L)	36-44 (ug/L)
Chlorophyll <u>a</u>	2.3 (ug/L)	7-18 (ug/L)



# Storm Chasing





# Rainfall Triggers

## Return Periods for Daily Precipitation

### North Bend

#### 2 year Storm Event

Hours:	24	48	72	96	120
Inches:	2.68	4.1	5.15	5.95	6.73

#### 5 year Storm Event

Hours:	24	48	72	96	120
Inches:	3.81	5.51	6.6	7.57	8.41

#### 10 year Storm Event

Hours:	24	48	72	96	120
Inches:	4.87	6.49	7.51	8.57	9.45

#### 25 year Storm Event

Hours:	24	48	72	96	120
Inches:	6.43	7.74	8.59	9.74	10.66





# Blacks Creek Auto Sampler







# Big Cr. Auto Sampler







# Benson Auto Sampler





# Bowron Cr. Auto Sampler

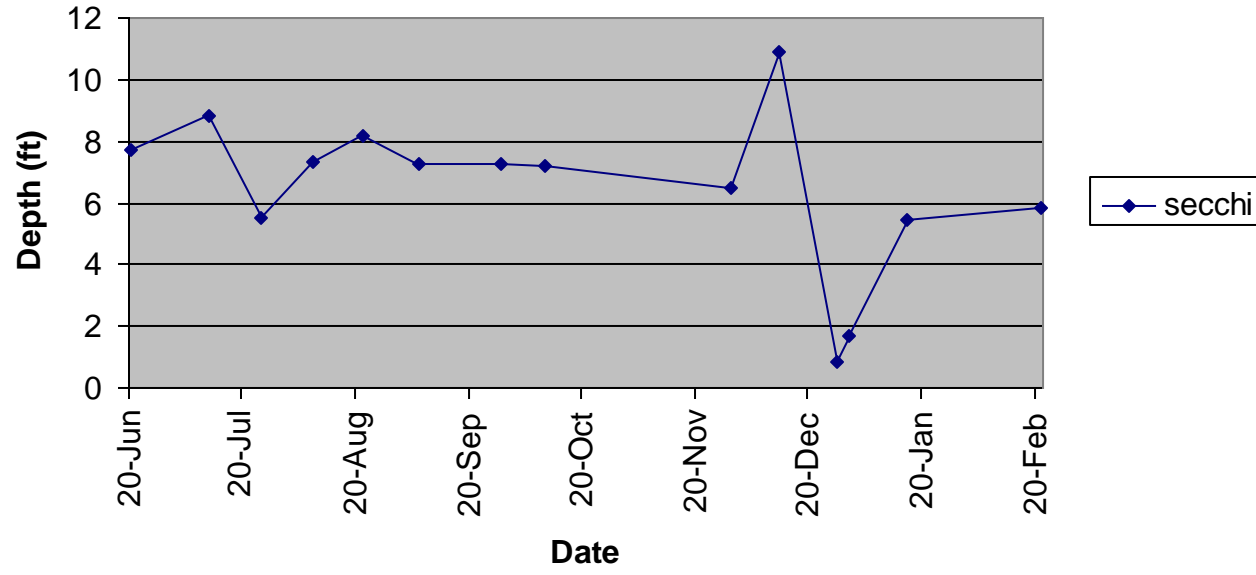








# N11 Secchi Readings







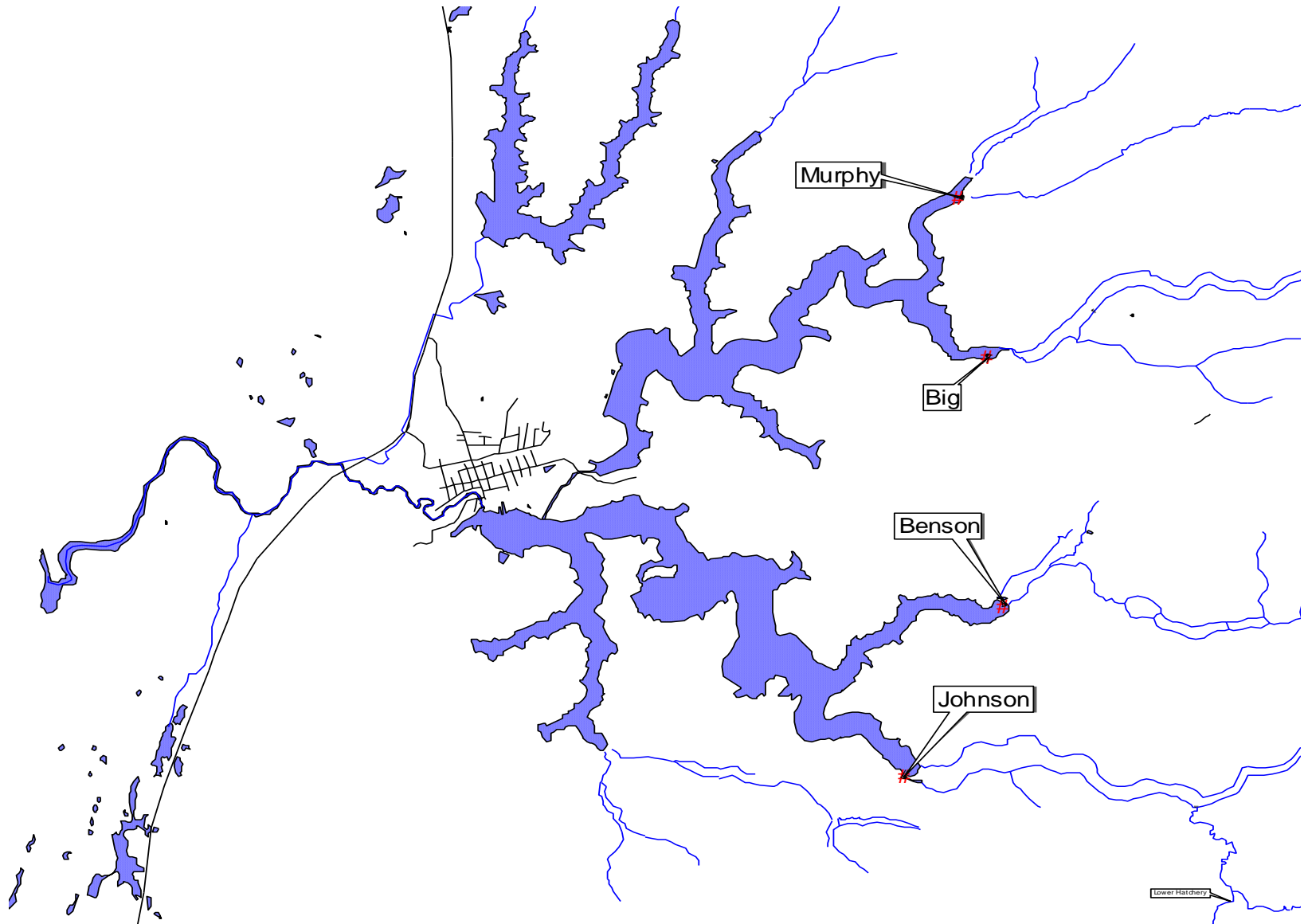


# SEDIMENTATION





# Delta Building Sites





# Benson Cr.

2004



2009





# Coleman Arm

## 2004

- Length- 74' 11"
- 1: Width: 20' 7"
- 2: Width: 10' 2"
- 3: Width: 17' 19"
- 4: no width

Lake Height for  
2004 & 2009-  
6.43ft

## 2009

- total delta length-172'2"
- 1: width-38'7" \*\*
- 2: width-43'4"\*
- 3: width-39'\*
- 4: width-30'6"\*
- 5: width-32'1"\*
- 6: width-63'4"\*\*\*
- 7: width-78'2"\*\*\*
- 8: width-55'7"\*
- 9: width-24'9"\*\*\*

\*Survey gained 7"-1' of sediment on top of survey marks

\*\* 3-5" of sediment on top of survey marks



# Murphy

2004



2007





2004

No land mass to  
measure

Lake Height-  
6.43ft

2007

Length-63' 2"

•1:width- 17'5"

•2:width- 14'6"

•3:width- 9'

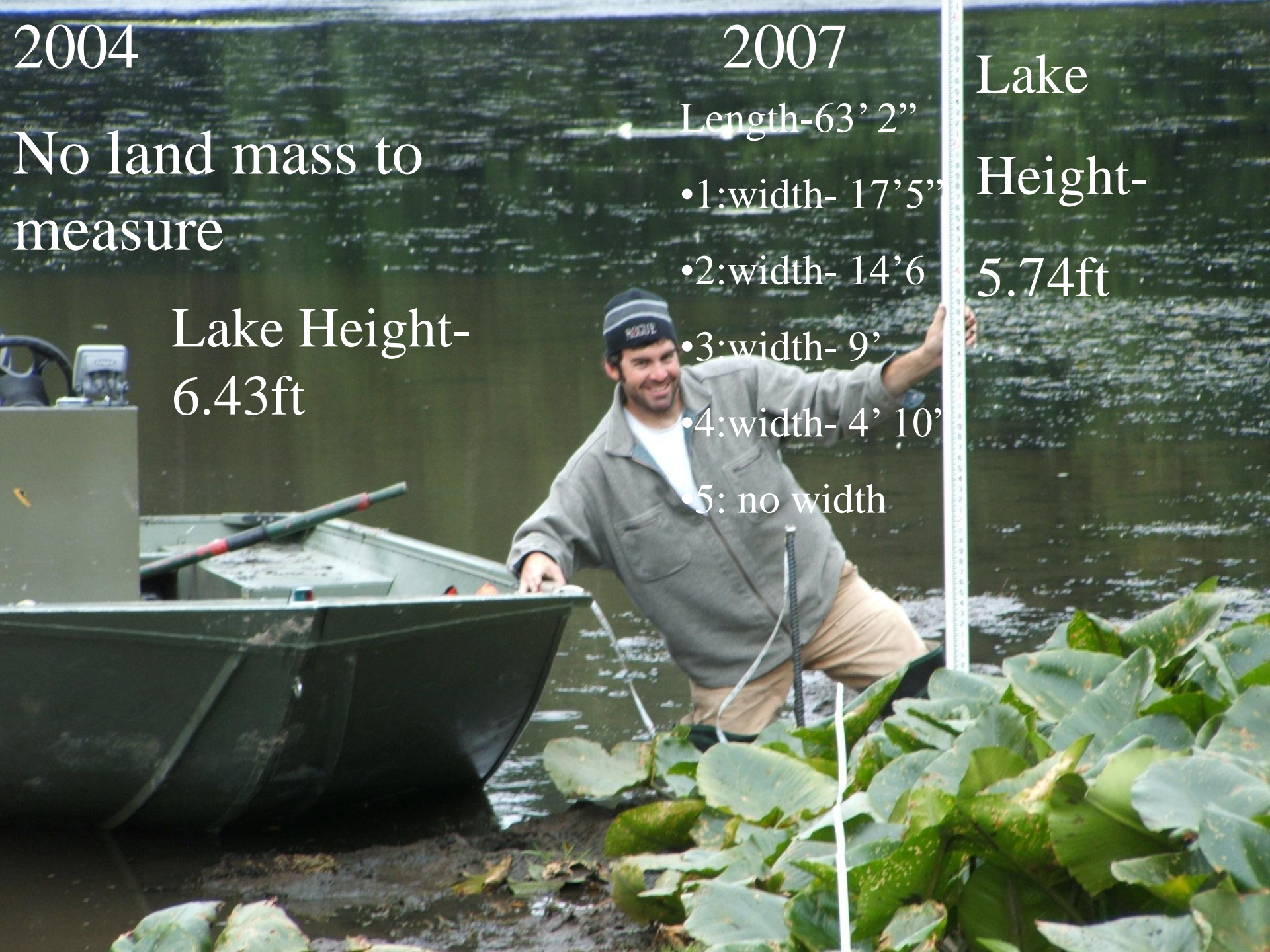
•4:width- 4' 10"

•5: no width

Lake

Height-

5.74ft





# Robertson Cr. Failed Culvert Replacement





# Robertson Cr. Culvert replaced with a log stringer bridge



2/13/08  
Robertson Cr.  
Bridge

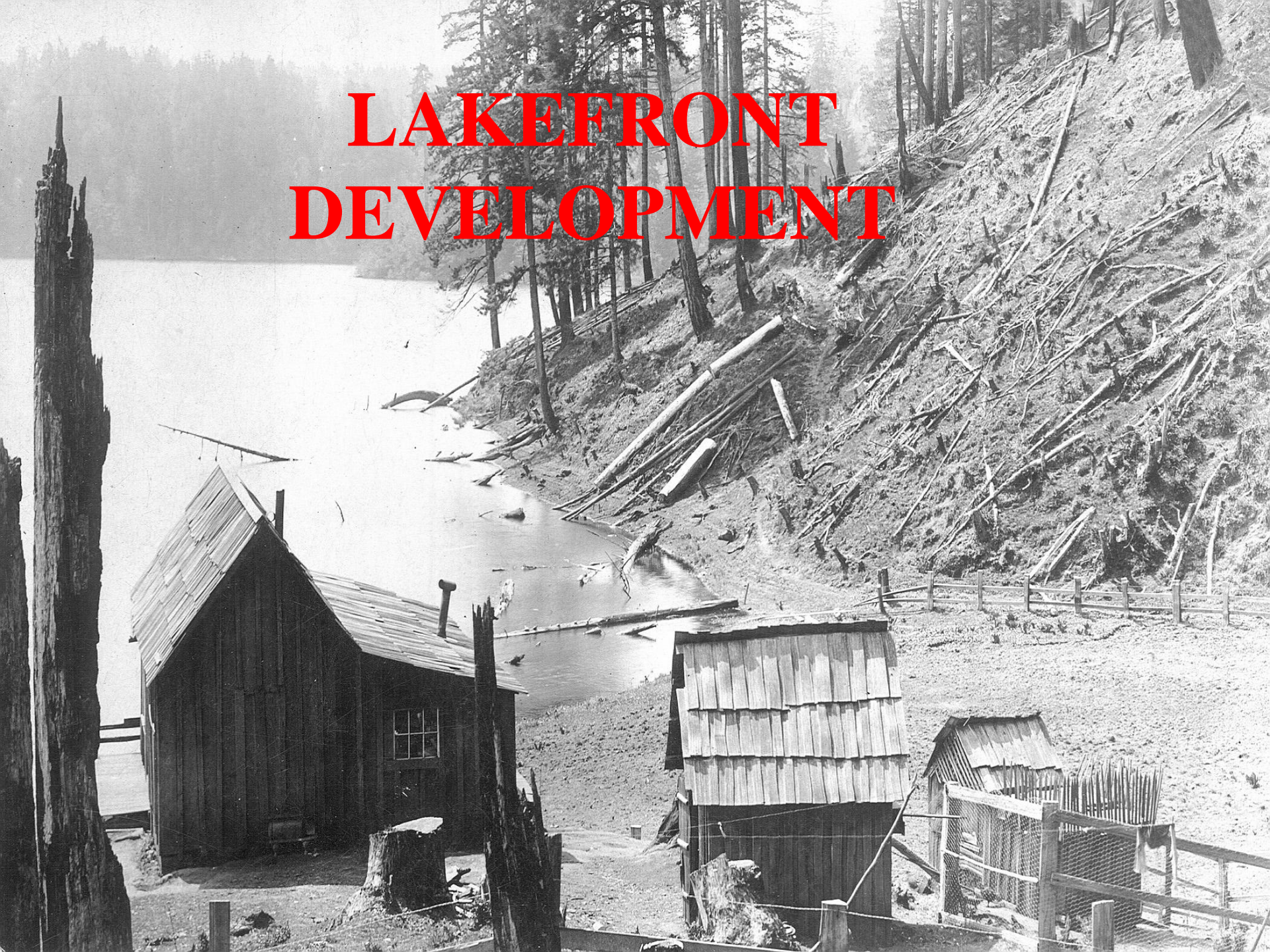








# LAKEFRONT DEVELOPMENT







TEN MILE LAKE







2000





2007





2008





2010





5/7/07





10/29/07



11/19/07







7/9/2010



Reducing your impacts to this area will keep your shoreline stable and minimize negative impacts to the lakes. Viewing the lakes from your property often seems to conflict with maintaining



healthy riparian zones. But with help lakefront owners can often find a compromise in planning lakefront landscaping that protects the lakes as well as providing beautiful views. Impacts to these areas below 12.21 msl requires contacting DSL for authorization and falling of trees may require a permit from the Oregon Department of Forestry.

When developing or improving your property some riparian friendly solutions include: 1) Minimize use of non-native shrubs, 2) Develop a filter strip of native plants above the high water mark. 3) Minimize use of fertilizers and herbicides.

For more information and assistance please contact:

Coos Bay ODF	541.269.4136
Department of State Lands	541.378.3805
Tenmile Lakes Basin Partnership	541.759.2414

### LAKEFRONT EROSION

Whether building a new three bedroom on Lindross Arm or just adding an out building to an existing home on Big Creek Arm, this is where "lake friendly" planning should begin. The Tenmile Lakes are filling in with sediment 1000 times faster than before the Tenmile area was settled. Development of lakefront lots are contributing to this problem. With a little common sense and basic understanding of your property, new homes and additions may be completed with minimal impacts to the lakes while achieving your goals for your lakefront property. Some common "lake friendly" recommendations include: 1) Ensure you have all permits. 2) If not doing the work yourself, hire a qualified contractor familiar with Tenmile issues like steep ground and drainage issues. 3) Have and implement an Erosion Control Plan that includes silt fences and seeding exposed soils with grass mix. For more information and assistance please contact:



For more information and assistance please contact:

Coos Bay ODEQ	541.269.2721
Tenmile Lakes Basin Partnership	541.759.2414
Department of State Lands	541.378.3805

# TENMILE LAKES STEWARDSHIP

## A GUIDE FOR LAKEFRONT PROPERTY OWNERS

We sure are lucky! We own lakefront property along the shorelines of beautiful North and South Tenmile Lakes. With this ownership comes a responsibility to ourselves and other lake users to do what we can to maintain the quality of the lakes.

Sometimes this is a tough compromise. For example, clearing shoreline vegetation to increase the view can impact slope stability and damage the filter strip that is important in reducing sediment inputs into the lakes which in turn, affects weed and algae growth.

This brochure is your guide to taking proper care of your lakefront property and the Lakes. It will give you some general information about Tenmile, discuss important issues with owning lakefront property, describe actions that need authorization or permits, and provide specific information that you need to protect our Lakes so we can continue to enjoy them in the future.





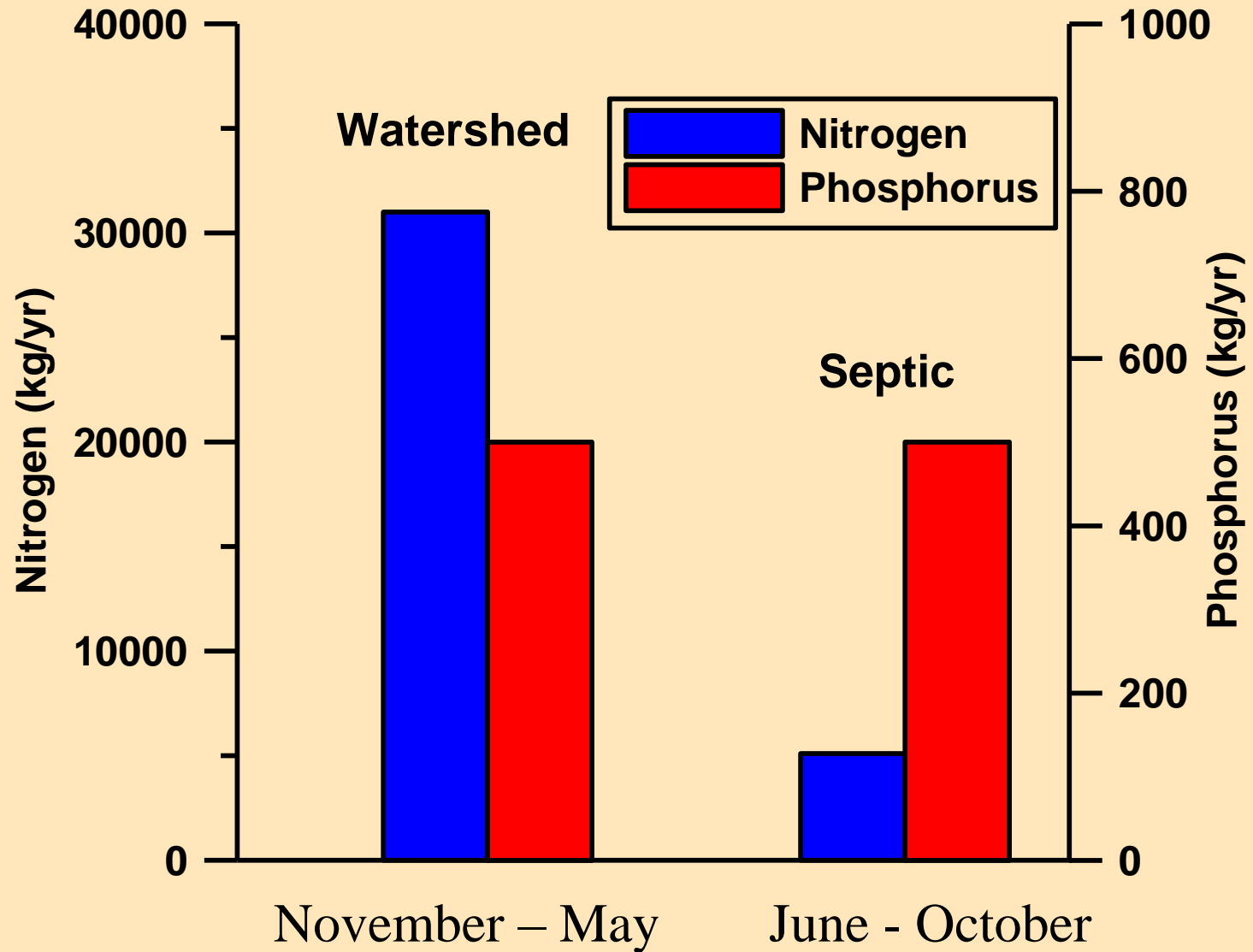


**FOR SALE BY OWNER**  
41-290-9331 AS IS  
\$135,000 100.70 ft lake frontage, 200 ft deep  
No septic - grandfathered in  
Electricity, Phone line, Road at top - access permit  
hill

**SEPTIC TANKS**



# LAKE SOURCES OF N & P





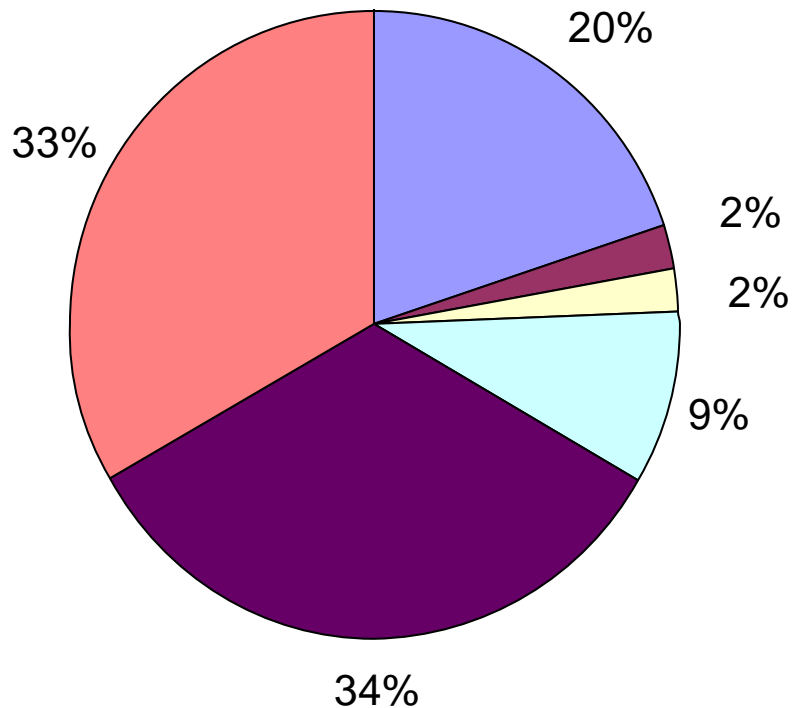
# Pre-1974 Septic System Survey

Worked with county health department to inspect 26 lakefront homes in 2006 and 2007.





## Results of Tenmile Lakes Septic Survey



- Apparent properly functioning systems.
- Sites with untreated gray water discharge.
- System failures with evidence of sewage discharge into lake or ground water.
- Bottomless tanks identified.
- Systems in need of repair (not including gray water).
- Owners with systems in need of repair.



**SALE**  
**BY OWNER**

PHONE 541-290-9331 AS IS

PRICE \$135,000

100.70<sup>ft</sup> lake frontage, 200 ft deep  
No septic - grandfathered in

Electricity, Phone line, Road at top - access permit  
of hill

All of us know of malfunctioning septic systems around the lakes.  
What do you want to do about them?





## Non-native species

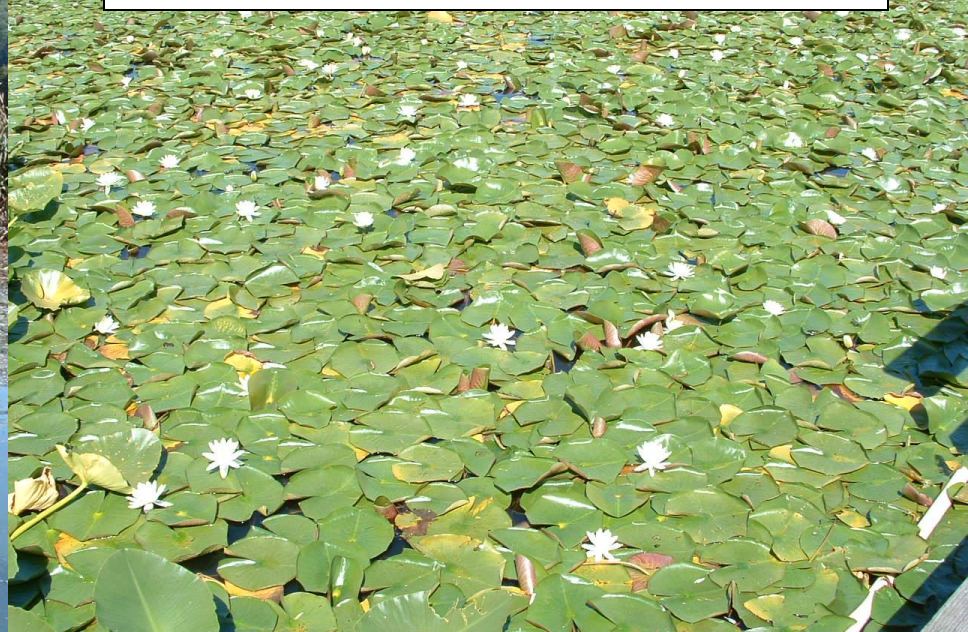




Aquatic Plant Survey transect



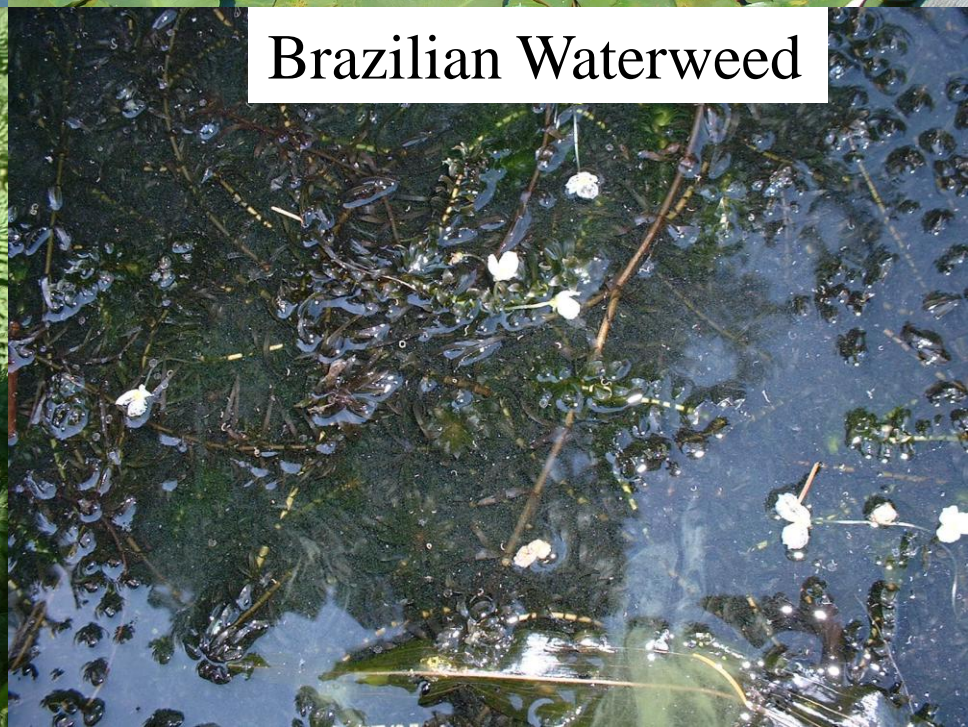
Non-native Water Lily



Parrot Feather

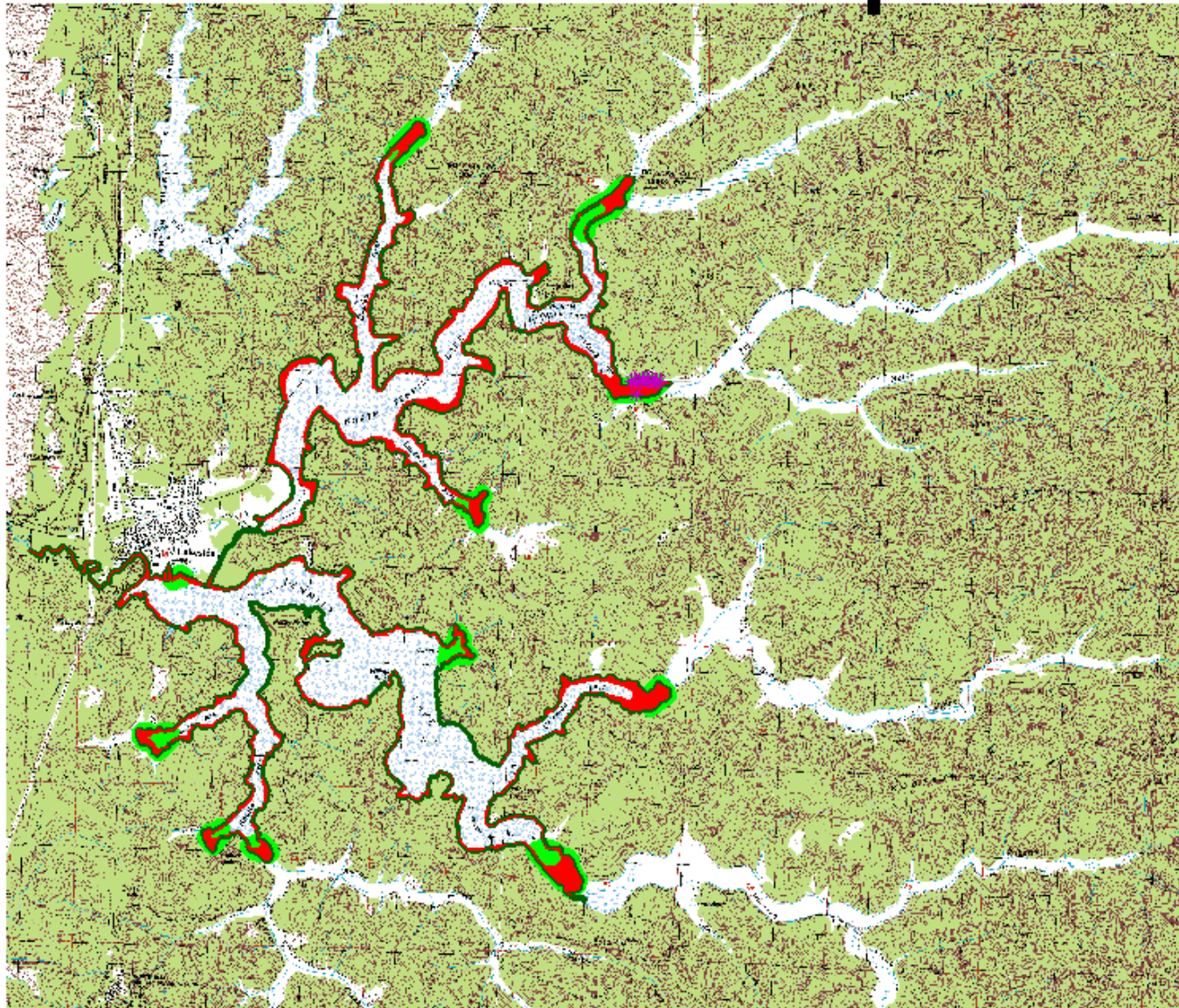


Brazilian Waterweed

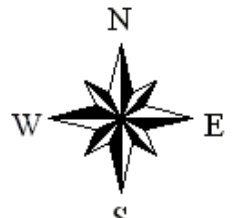




# Tenmile Lakes Aquatic Weeds



- \* Purple loosestrife
- Egeria densa
- ▲ Lilies of various species
- Pondweed





# Tenmile Lakes Watershed

## Aquatic Plants



Produced by:

Tenmile Lakes Basin Partnership



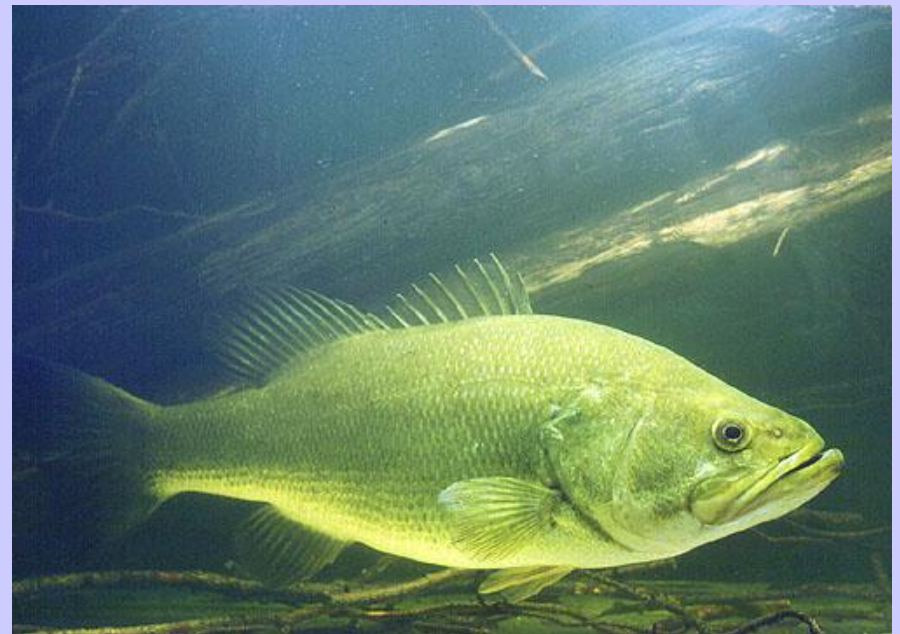
# Non-native fish

BLUEGILL



BLACK CRAPPIE

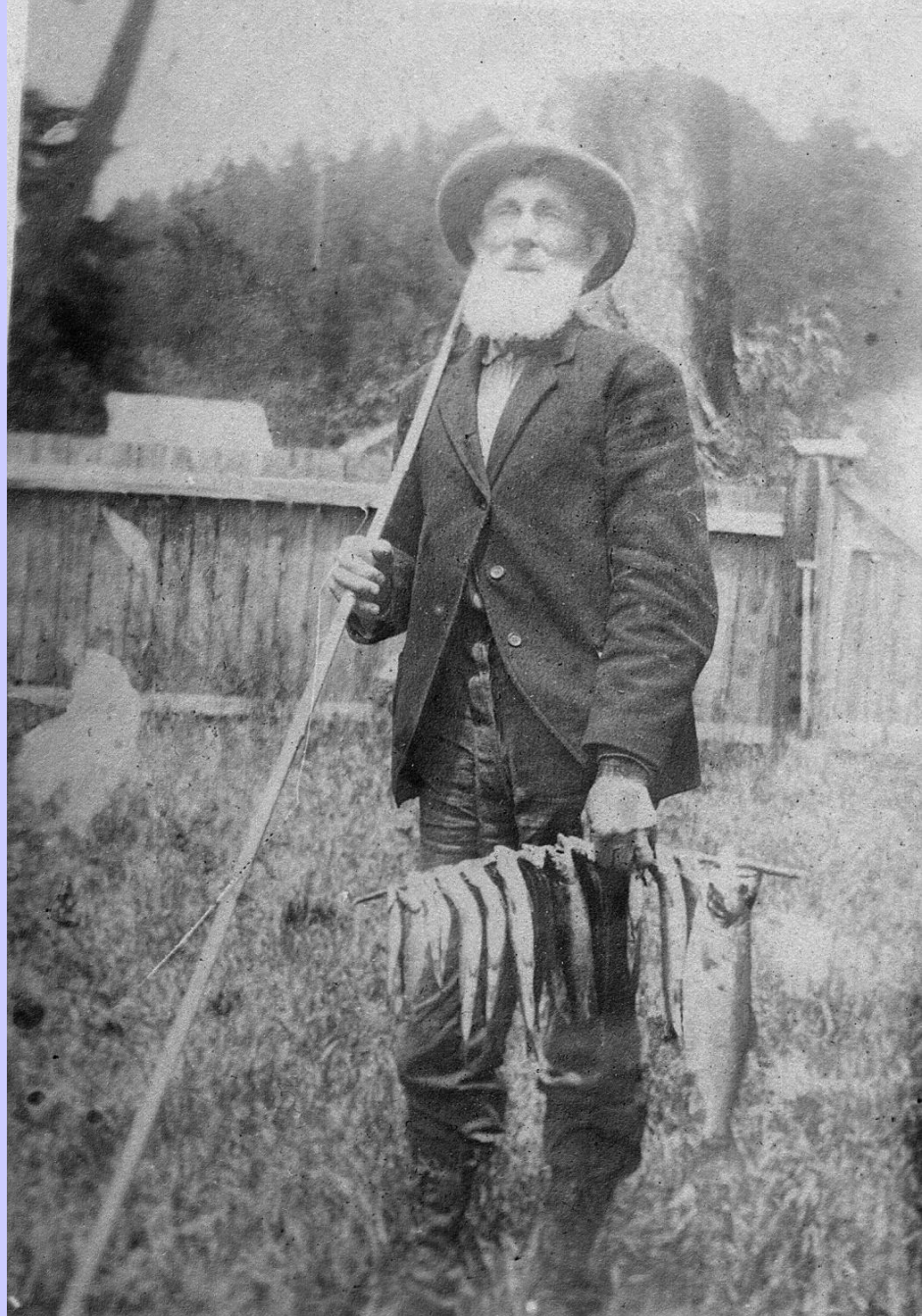
LARGEMOUTH BASS







100 LBS. TROUT - ONE DAY'S CATCH  
AT TEN MILE LAKE  
COOS CO. ORE. - 269







SALMON RUN  
LAKESIDE ORE.

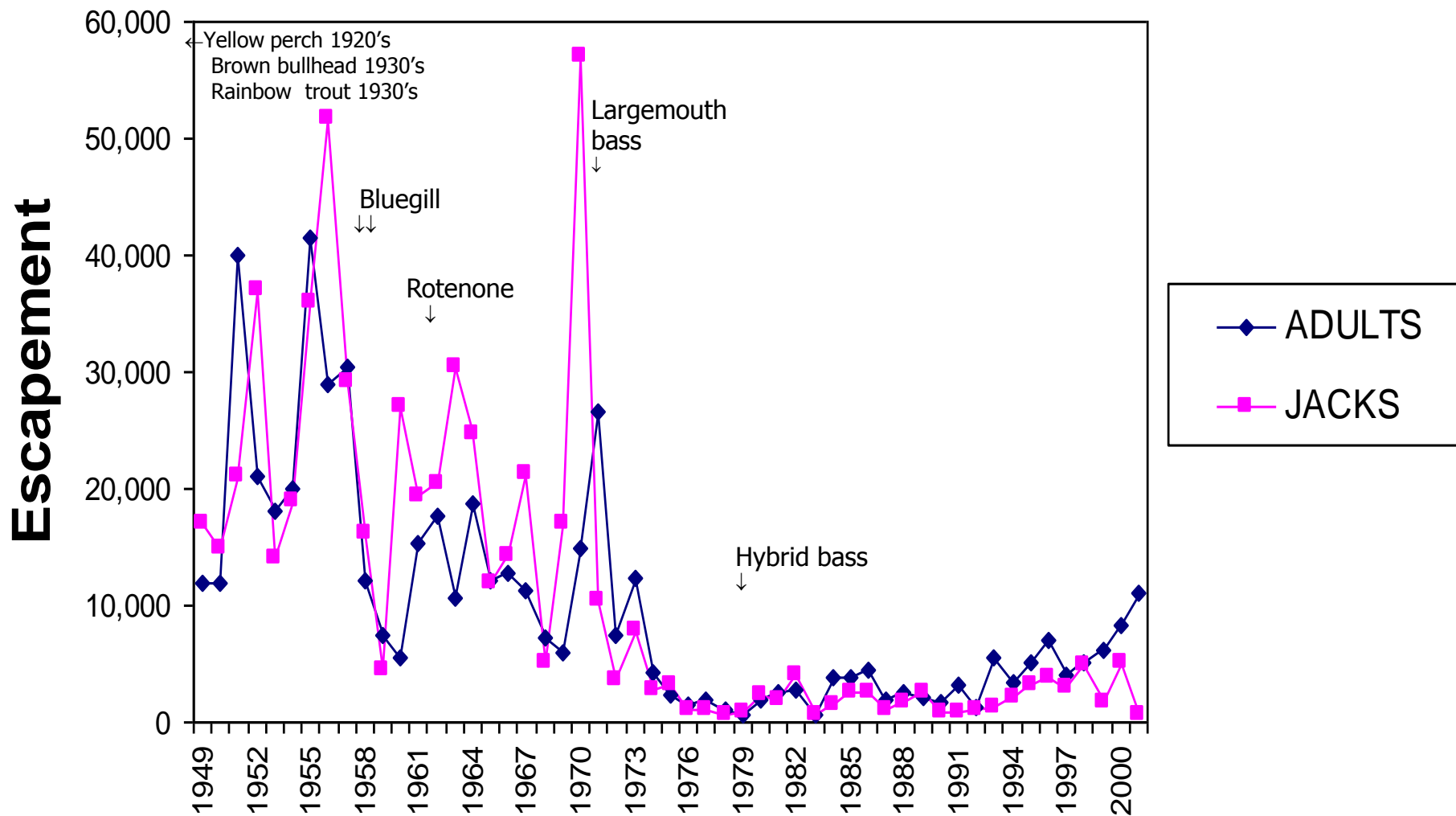
5M62







# Tenmile Lakes Coho Escapement Estimates







Zebra Mussel



Quagga Mussel



New Zealand Mud Snail

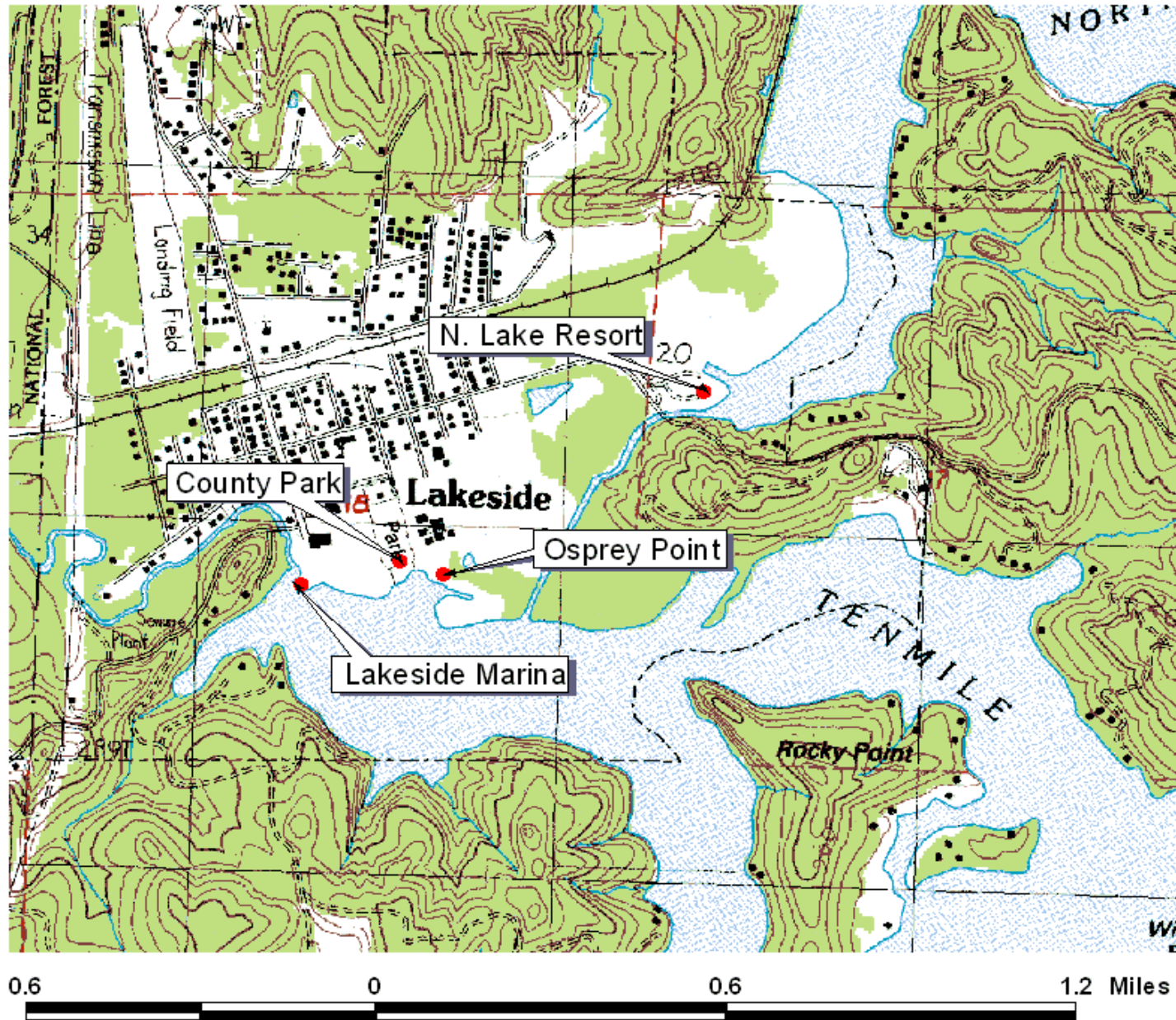


Copyright 2002 Univ. Florida  
Photo by Don Schmitz  
Hydrilla  
*Hydrilla verticillata*

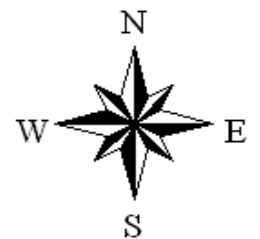
Hydrilla



# Invasive Species Monitoring



● Check Points







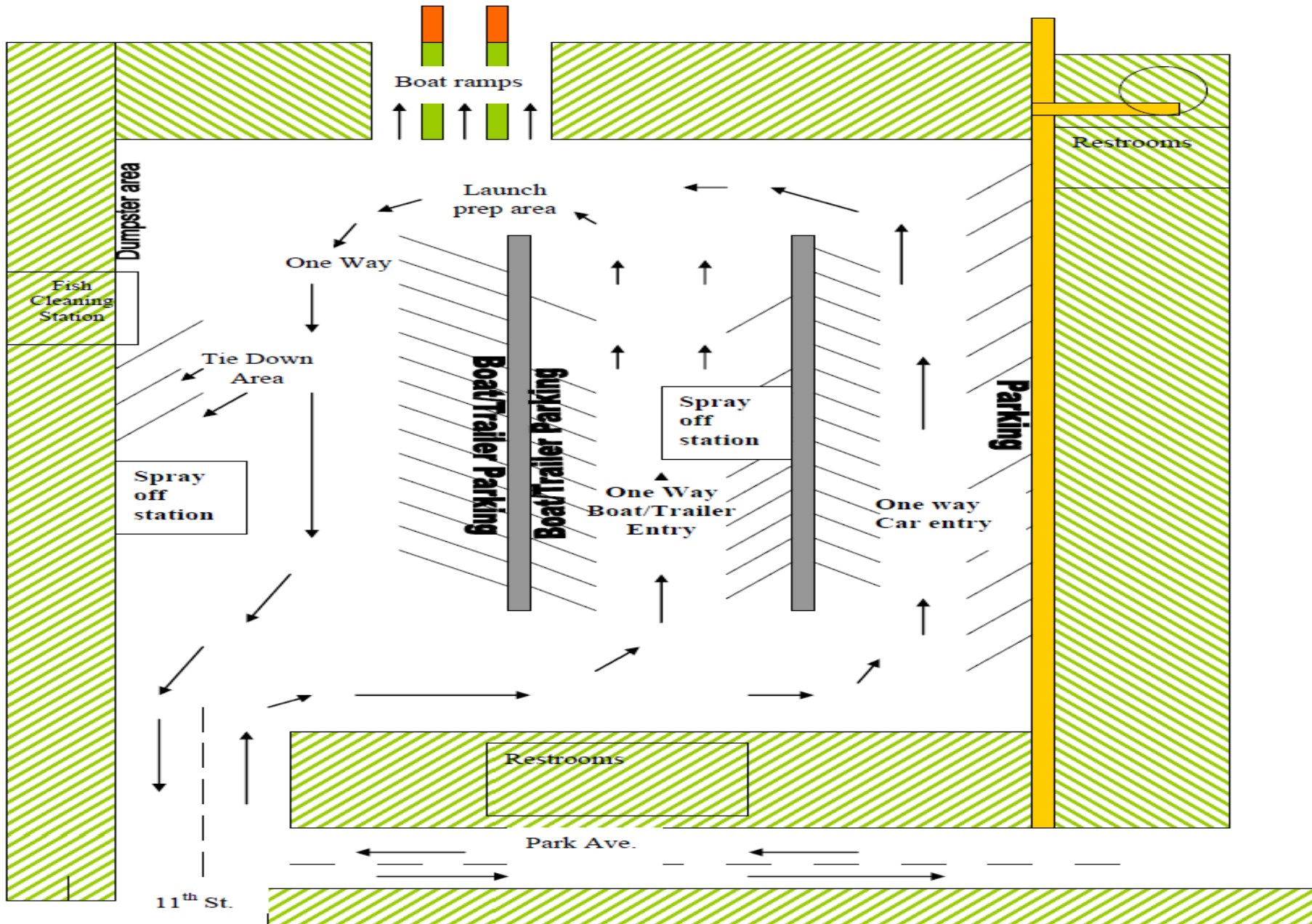
Tennmile Watershed  
(541) 759-2414







# Tennile Lakes County Park Draft Boat/trailer Spray-off Project





**TENMILE LAKES RESORT and MARINA  
INVASIVE SPECIES BOAT and TRAILER GUEST  
INSPECTION QUESTIONNAIRE # \_\_\_\_\_**

DATE: \_\_\_\_\_

RESORT/MARINA: \_\_\_\_\_

RECORDED BY: \_\_\_\_\_

---

- 1) ARE YOU TRAVELING WITH A BOAT and TRAILER?: YES NO
- 2) WHAT STATE ARE YOU FROM?:
- 3) LAST STATE BOAT and TRAILER WERE IN?: \_\_\_\_\_
- 4) LAST WATERBODY BOAT and TRAILER WERE IN?: \_\_\_\_\_
- 5) LAST TIME and LOCATION BOAT and TRAILER WERE INSPECTED?: \_\_\_\_\_
- 
- 6) IS BOAT and TRAILER FROM STATE or WATERBODY WITH PRESENT INFESTATIONS?:  
YES NO (Refer to Map and Literature)
- 7) CONDITION OF BOAT and TRAILER: CLEAN UNCLEAR
- 8) IS BOAT OWNER WILLING TO VOLUNTARY CONDUCT BOAT and TRAILER  
INSPECTION?: YES NO
- 9) ON CURSORY VISUAL INSPECTION, DOES BOAT and TRAILER LOOK UNCLEAR:  
(DIRTY FILM, VEGETATION HANGING) YES NO

Taking all aspects of this report into account, If you suspect the presence of QUAGGA or ZEBRA MUSSELLS or invasive aquatic plant species, strongly suggest to Owner that you jointly inspect boat and trailer.

If you find invasive species, DO NOT ALLOW BOAT TO BE LAUNCHED! CALL FOR ASSISTANCE.

For Report and Assistance:

Public Reporting Number 1-800-437-2744 (24-7) or

The City of Lakeside at 541-759-2414/541-260-0914



# ATTENTION BOATERS



## STOP AQUATIC HITCHHIKERS!

Prevent the transport of nuisance species.  
Clean all recreational equipment.  
[www.ProtectYourWaters.net](http://www.ProtectYourWaters.net)

HELP PROTECT EEL LAKE AGAINST POLLUTION  
FLUSHING OF MOTORS AND BILGES MAY PUT YOU IN  
VIOLATION OF STATE LAWS

PLEASE FLUSH BOAT MOTORS AT HOME!

- \* Aquatic Invasive Species such as the New Zealand Mud snail can live in both brackish waters and fresh water. This species is found in lakes and bays up and down the Oregon Coast. Please help to **STOP** the spread of these harmful species. **CLEAN**, **DRAIN** and **DRY** your boat away from storm drains, ditches and waterways.

### Oregon State Laws and Administrative Rules:

830.560 – It is unlawful to launch a boat that has ANY visible aquatic species on its exterior hull, motor, trailer or any other exterior surface. -Class B Violation-

Launching a boat includes the act of placing a boat into a waterway for recreational boating, for flushing or testing an engine or for any other purpose.

OPRD 736-010-0040 (5) – A person may not dispose of garbage, recyclables, sewage or waste generated by activities conducted outside a park area in a park area. -Class D Violation-

EEL LAKE IS A DRINKING WATER SOURCE, PLEASE DO YOUR  
PART TO HELP PROTECT THIS WATERBODY

CLEAN BOATS PROTECT CLEAN WATERWAYS



Lakeside Water  
District Logo

OR Parks &  
Rec. Logo

Tenmile Lakes  
Basin  
Partnership





# VOLUNTEER OPPORTUNITIES





# Riparian Planting





# Fry Salvage





# Western Pond Turtle Surveys



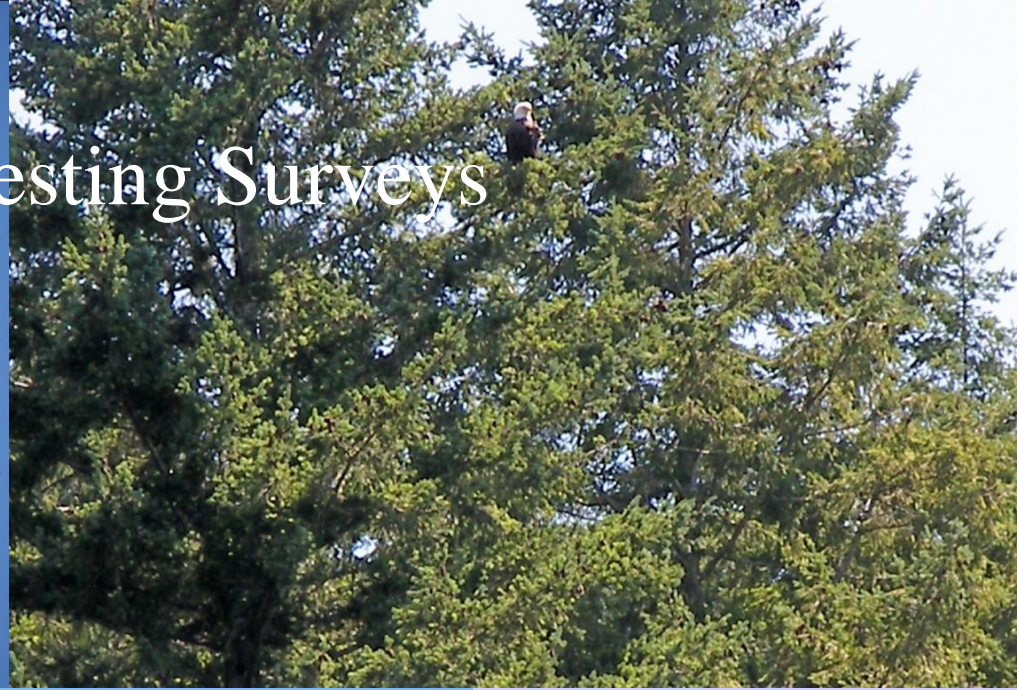


# Purple Martin Nesting

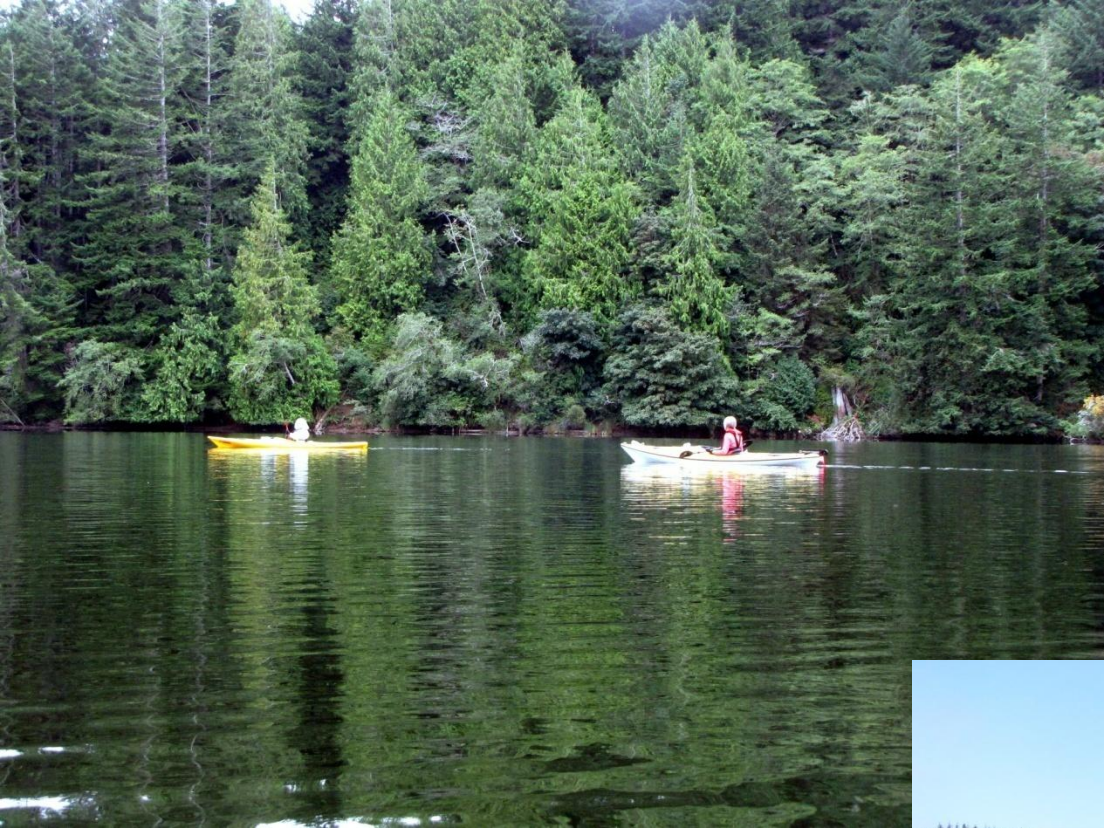




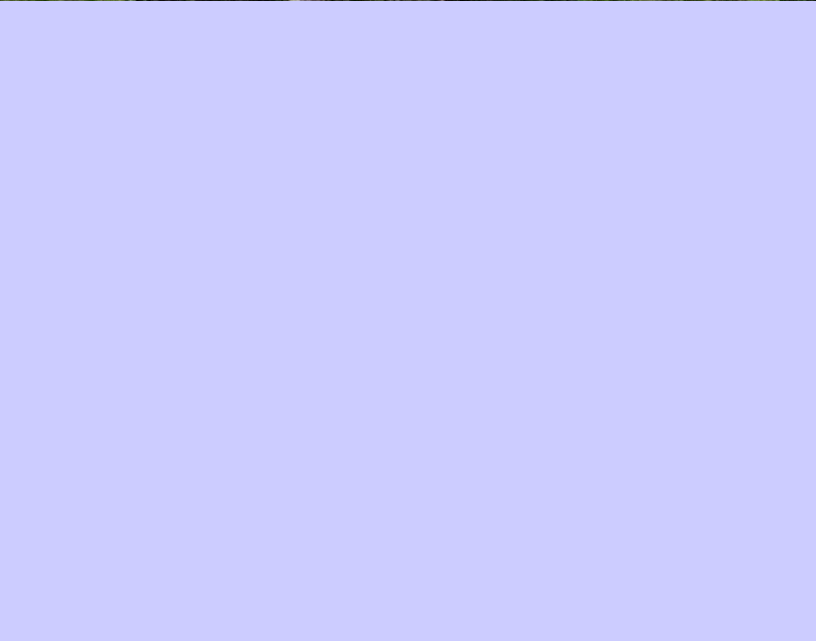
# Eagle/ Osprey Nesting Surveys













- Home
- Photo Gallery
- News
- Projects
- Lake Information
- Staff
- Links

# Welcome

The Tenmile Lakes Basin Partnership is a balanced representation of groups interested in the Tenmile Watershed. The main focus of the Partnership is to improve the water quality in the basin for the residents as well as the fish and wildlife that live within our Watershed.

[What is the Tenmile Watershed?](#)

[Our Mission](#)

Sponsors





[Home](#)[Photo Gallery](#)[News](#)[Projects](#)[Lake Information](#)[Staff](#)[Links](#)

**This page contains links to current lake levels and temperatures.**

[Lake Gauge](#)[Lake Report Card](#)[Lakefront User Guide](#)[Annual Lake Level and Temperature - Updated 7/26/2010](#)[2010 Algae Information](#)

#### current weather



13:42 Weather Underground  
wunderground.com

Links  
[Site User Info](#)  
[Local Signs](#)  
[Weather Forecast](#)

Find Weather

Lakeside, OR  
61° F / 16° C  
Mostly Cloudy

Wind NNW at 13 mph / 20 km/h  
Pressure 30.00 in / 1016 hPa

[click for full forecast](#)

[10 Day Temperature and Precipitation Information](#)[Weather Conditions for North Bend Airport](#)[North Bend Airport Current Conditions](#)-same data given in a different format[Weather Observations for the last 3 days](#)[24 Hour Satellite Loop](#)



## Tenmile Lake Report

Mon Aug 16 13:40:00 PDT 2010

Rainfall In Last 24 Hours 0

Current Lake Level as of last report 6.847

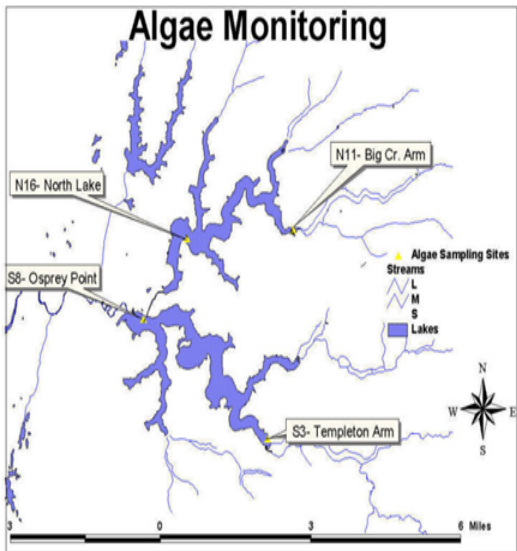
Current Lake Water Temperature as of last report 68.95

Current Air Temperature as of last report 68.08

[Contact Tenmile Lakes Basin Partnership for additional information](#)



### 2010 Algae Sampling Sites



### [Algae FYI](#)

Algae Sampling Results: [Acrobat Reader](#) is required to view the links below.

2010

[June 21 Sampling](#)

[July 6 Sampling](#)

[July 19 Sampling](#)

2009 Results

[Public Health Advisory Lifted For Tenmile Lakes 11/30/09](#)

[Supplemental Report on Toxins Produced by Blooms in 2009](#)

[2009 Algae Sampling Final Report](#)

[June 22 Sampling](#)



# Thank You

City of Lakeside

OWEB

ODEQ

Milo Crumrine

ODFW

Ringo's Lakeside Marina

Preferred Systems

BLM

Dr. Jacob Kann

ODSL

Project Site Landowners

Osprey Point Resort

Lakeside Lions

Eel/ Tenmile STEP

Lakeside McKays

Jeff Fletcher

TLOA

North Lake Resort

Zacch Seay

Mike Knips

