

Speaking for Lakes
 April 13, 2011
 Lac du Flambeau Town Lakes Committee



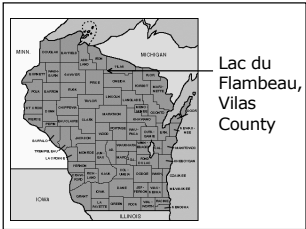
Aquatic Invasive Species 2010

In Vilas County

- Chinese Mystery Snail
- Curly Leaf Pondweed
- Eurasian Water Milfoil
- Freshwater Jellyfish
- Spiny Waterflea
- Rainbow Smelt
- Rusty Crayfish
- Purple Loosestrife

In Lac du Flambeau

- Rainbow Smelt**
- Rusty Crayfish**
- Purple Loosestrife**



Lac du Flambeau

140 Sq Miles
 260 Lakes
 3000 Residents
 71 Miles Streams
 24,000 Acres Wetlands
 433 Miles Shoreline

Mission

Protect the lakes from aquatic invasive species

Standing Rules

1. The purpose of this committee is to...
2. The committee shall meet on a regular basis...
3. The committee shall have the authority to...
4. The committee shall report to the town...
5. The committee shall have the authority to...
6. The committee shall have the authority to...
7. The committee shall have the authority to...
8. The committee shall have the authority to...
9. The committee shall have the authority to...
10. The committee shall have the authority to...

Rapid Response Plan

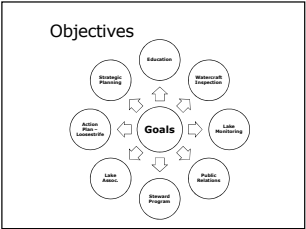
Lac du Flambeau Board of Lake Superior Citizens United & Lac du Flambeau Town Board

Approved by:
 Lac du Flambeau Town Lakes Committee
 Lac du Flambeau Town Board
 Lac du Flambeau Board of Lake Superior Citizens United

Focus on the Future

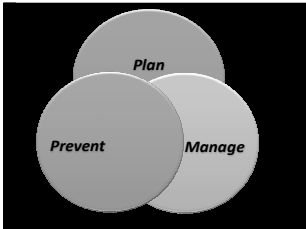
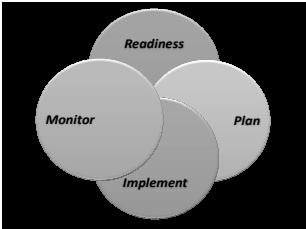
Lac du Flambeau Town Lakes Committee

FOCUS ON THE FUTURE
 Strategic Planning Process



Focus on Future Activities

Activity	Start Date	End Date	Status
Education
Public Outreach
Stewardship Program
Lake Monitoring
Lake Stewardship
Aquatic Invasive Species
Watercraft Inspection



Action Plan: Form & Sample

Form with columns for 'Activity', 'Start Date', 'End Date', 'Status', and 'Notes'.

Goal 1: Prevent AIS Infestations...


...through Education
 ...through Watercraft Inspection
 ...through Lake Monitoring
 ...through Communication
 ...through Lake Stewardship
 ...through Lake Associations

Goal 1: Prevent AIS Infestations...

...through
Education

Education

- Watercraft Inspection
- Lake Monitoring
- Purple Loosestrife
- Establish Lake Associations
- Lake Stewardship
- Attend conferences, workshops, ...




Goal 1: Prevent AIS Infestations...

...through Lake
Monitoring

Lake Monitoring

- Action Team
- AIS ID Workshops
- SCUBA Diving
- CLMN/Secchi
- Point Intercept
- Shoreline Sweeps
- Lake Clean-up
- Guides




Goal 1: Prevent AIS Infestations...


...through Watercraft
Inspection

Watercraft Inspection


- Action Team/Plan
- Education Packets
- Landing Containers
- Schedule Volunteers
- CBCW Story Hour
- Train Volunteers
- Log Data
- Coordinators



SCUBA Diving



Point Intercept Surveys



Goal 1: Prevent AIS Infestations...


...through
Communication &
Public Relations

Public Relations/Communication

- Action Team/Plan
- Newsletters & Bulletins
- Brochures
- Signage
- Press Releases
- Lakes Fest
- Fourth of July
- Website
- Appreciation Reception
- Lake Association Rally




Signage



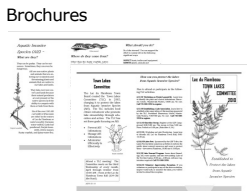
Lakes Fest



**Newsletters
Bulletins**



Brochures



Fourth of July




Outreach



Website

Appreciation Reception



I finally remembered--red with hunter, white with fishermen.

Lake Associations as Partners

- Action Team/Plan
- Liaison with Associations
- Conduct Workshops
- Encourage Sweeps
- Host Rally
- Host Roundtable

Goal 1: Prevent AIS Infestations...
...through Lake Steward Program



Goal 1: Prevent AIS Infestations...
...through Lake Associations

Lake Steward Workshop

LAKE STEWARD PROGRAM
August 6, 2011

7:45-8:00 am Arrival & Registration

8:00 am Welcome
Roberta Day - Chair of the Flambeau Town Lake Committee

8:30-9:00 am Introduction to LakeSteward
Susan Knight - Green Bay Wildlife - Green Bay Region Specialist, NWA, and Wisconsin State Lake Stewardship Program Liaison

9:00-9:30 am Break

9:30-10:30 am Break #1 - Purple Loosestrife, Spotted Bass & Lill Weed

10:30-11:30 am Break #2 - Eurasian Watermilfoil, Striped Bass, and Green Stems

11:30-12:00 pm Lunch - Guest Speaker
Lake Stewardship - Science, Technical Resources, Report Card

12:00-12:30 pm Break

1:00-2:00 pm Break #3 - Clean Lake Monitoring Network
Susan Wickman

2:00-3:00 pm Break #4 - Plant Identification
Susan Wickman

3:15-3:30 pm Break

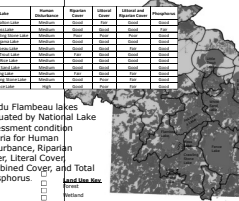
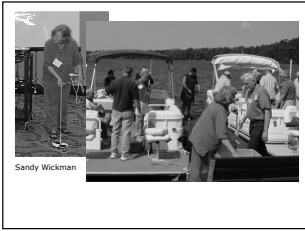
3:30-4:00 pm Presentation of Program
New Material - Lake du Flambeau Town Lake Committee



Lake	Number of Lakes	Number of Lakes	Number of Lakes	Number of Lakes	Number of Lakes
Lac du Flambeau	1	1	1	1	1
...

Lac du Flambeau lakes evaluated by National Lake Assessment condition criteria for Human Disturbance, Riparian Cover, Littoral Cover, Combined Cover, and Total Phosphorus.

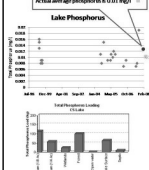
Actual Lake Size:
Small
Medium
Large
Very Large

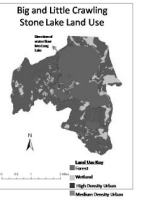
Calculated Lake Phosphorus is 0.011 mg/L

Based on phosphorus load from land use
Actual average phosphorus is 0.011 mg/L

Lake Phosphorus

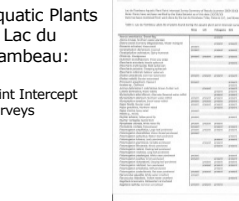


Big and Little Crawling Stone Lake Land Use



Aquatic Plants in Lac du Flambeau:

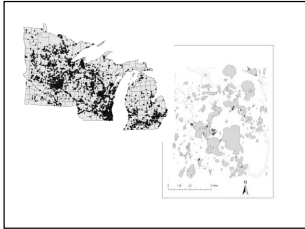
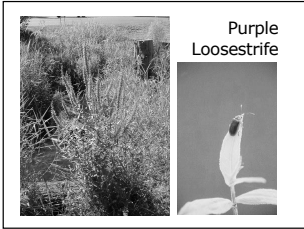
Point Intercept Surveys



Results of Workshop

- Evaluation, 9.31
- Secchi sign-up
- New TLC Members
- Network
- First Steward Bulletin
- Repeat Workshop

Goal 2: Manage AIS Infestations...
...through an Action Plan for Purple Loosestrife



Purple Loosestrife Action Plan

- > Action Team/Plan
- > Workshop
- > Inventory, Shop
- > Forms
- > Dig Roots
- > Pot & Net
- > Place in Pools
- > Collect Beetles
- > Distribute Plants



198 Hours, TLC
40 Hours, NRD
30 Hours, Students

Goal 3: Administer Efficiently & Effectively...

...through Strategic Planning



- ### Action Team/Plan
- *Standing Rules*
 - *Rapid Response Plan*
 - *Focus on the Future*
 - *Action Plans*
 - **Community Surveys**
 - **Focus Groups**
 - **Data Management**
 - **Financial**

Volunteers: CBCW

	2006	2007	2008	2009	2010
All Volunteers	163	230	154	191	162
CBCW Volunteers	135	122	84	114	68
Percentage in CBCW	83%	53%	55%	60%	42%

- ### Watercraft Inspection Data 2010
- 68 volunteers
 - 843 hours of inspection
 - Range of .5 hour to 106 hours
 - Average # of hours, 12/volunteer

Database

- CBCW
- CLMN
- Daily Log

Volunteer Trends: All Activities

Year	2006	2007	2008	2009	2010	2011
New	163	157	63	102	89	?
Repeat		73	36	19	18	?
Repeat			55	26	12	?
Repeat				44	12	?
Repeat					31	?
Repeat						?
Total	163	230	154	191	162	?

- ### Lake Monitoring Data 2010
- 111 volunteers
 - 1508 hours donated by volunteers
 - Range of 1 hour to 237 hours
 - Average # of hours, 14/volunteer

- ### Inspection & Monitoring 2010
- 68 volunteers for watercraft inspection
 - 111 volunteers for lake monitoring
 - 17 volunteers did both

Donations for all Activities 2010

- 162 Volunteers
- 4650 Hours
- 29 Hours per volunteer
- Range, .75 hour to 435 hours
- \$63,752.40 in donations
- \$343 per volunteer
- Range, \$9 to \$6,255

Financial Total \$ Value

	Grants	Town	Donations
2006	\$14,153	\$ 300	\$36,929
2007	\$20,393	\$ 600	\$43,880
2008	\$42,082	\$ 600	\$50,390
2009	\$44,708	\$ 3,500	\$79,267
2010	\$22,000	\$11,000	\$63,752
2011	\$ 3,000	\$ 4,500	\$?

Survey: how would you say the quality of the following in Lac du Flambeau has been changing, if at all?

Table 1	Worse	Same	Improving	Don't Know
Lake Water	18%	57%	6%	15%
Shorelines	23%	53%	6%	13%
Wetlands	15%	45%	5%	27%
Streams	13%	38%	4%	35%
Air	5%	67%	5%	17%
Forests	20%	49%	10%	16%
Grasslands	4%	48%	6%	35%
Overall	12%	56%	11%	13%

Survey: which of the following do you believe are threatened by Aquatic Invasive Species?

TABLE 2	%
Native Fish	87
Native Aquatic Plants	77
Shorelines	68
Quality of Lake Water	80
Quality of Air	16
Amphibians	46
Crustaceans	44

Community Survey

- ♦ A questionnaire was mailed to 500 randomly selected residents of Lac du Flambeau in July 2010. Slightly more than 50% (252 residents) returned completed questionnaires.
- ♦ The questionnaire was designed to gather information on environmental issues for use in long-term planning.
- ♦ The effort reflected the collaboration of the Lac du Flambeau Band of Lake Superior Chippewa Indians, the Lac du Flambeau Town Lakes Committee, and the Lac du Flambeau Environmental Community Organization, and the Wisconsin Department of Natural Resources.

Recognition of TLC Activities

Highest %	Lowest %
70% Newsletters	18% Lakes Fest
64% Recruit, CBCW	18% Speakers
54% Recruit, Monit.	11% Raise Beetles
52% Wrkshp, AIS ID	
41% Wrkshp, CBCW	

Survey: how concerned are you that the following may eventually be found in Lac du Flambeau? 1=Extremely, 2=somewhat, 3=Not too, 4=Not at all, 5=Unsure

TABLE 3	1	2	3	4	5
Eurasian Water					
Milfoil	60%	25%	2%	1%	8%
Curly Leaf Pondweed	45%	34%	2%	1%	13%
Chinese Mystery					
Snail	44%	31%	3%	2%	15%
Freshwater Jellyfish	44%	27%	4%	2%	17%
Spiny Waterflea	44%	28%	4%	1%	17%

Survey: Have you taken time to look specifically for Aquatic Invasive Species in a lake in Lac du Flambeau?

TABLE 4				
No				58%
Yes, but no more than once a season				19%
Yes, but no more than once a month				15%
Yes, about weekly				4%
Yes, almost daily				1%

Survey: Which of the following should occur if an Aquatic Invasive Species plant like Eurasian Water Milfoil is found in a lake in Lac du Flambeau?

TABLE 5				
Apply chemicals				25%
Use biological control				34%
Pull by hand				38%
Remove by machine				32%
Leave plants alone, do nothing				0%
Unsure, need more information				42%

**Thank You!
Miigwech!**