



AIS Monitoring Through the Wisconsin CLMN

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Date: November 10, 2010

Working Together to Control Invasive Species



Wisconsin Lakes Partnership



Science



Citizens

^{UW}
Extension

Education

Wisconsin's Aquatic Invasive Species Program

- Education & Outreach
- Watercraft Inspection
- Volunteer Monitoring
- Purple Loosestrife Biological Control
- Aquatic Invasive Species Grants
- Research
- Rules to Prevent Spread



Citizen Lake Monitoring Network

- 1986 – 126 volunteers collecting secchi data on 113 Lakes
- 1990 – pilot expansion – 25 lakes
 - Secchi, total phosphorus, chlorophyll, temperature & dissolved oxygen
- 1991 – 2005
 - Secchi, total phosphorus, chlorophyll, temperature, & dissolved oxygen
 - Some regions use volunteers to collect data on Aquatic Invasive Species
- 2006 – Aquatic Invasive Species Statewide effort initiated
- 2007 – Trainers teaching Secchi and AIS monitoring
- 2009 – Additional AIS added. Online data entry
- Future – Add species and methods as the needs arise



Differences Between CBCW & CLMN



- Protecting lake from AIS
- Preventing AIS from spreading to another lake
- Defined hours (high use periods)
- A lot of contact with public
- Monitoring along shoreline near landings



- Checking to see if AIS got into lake
- Some defined monitoring times (based upon AIS monitoring for)
- Minimal contact with public
- Monitoring along shorelines, beaches, shallow water areas, & deep water areas
- Casual observer vs True Monitor

AIS Monitoring goals:

- Better state coverage
 - More volunteers
 - Consistency
 - Approved protocols
 - More species
 - Online data entry and data retrieval
- 

Announcement of workshops

Trainings will be posted at these websites –

- <http://www.uwsp.edu/cnr/uwexplakes/CLMN/training.asp>
- <http://www.uwsp.edu/cnr/uwexplakes/CBCW/workshops-schedule.asp>
- <http://www.eeinwisconsin.org/core/default.aspx?s=0.0.16.2209>
- http://invasivespecies.wi.gov/awareness/event_request.asp



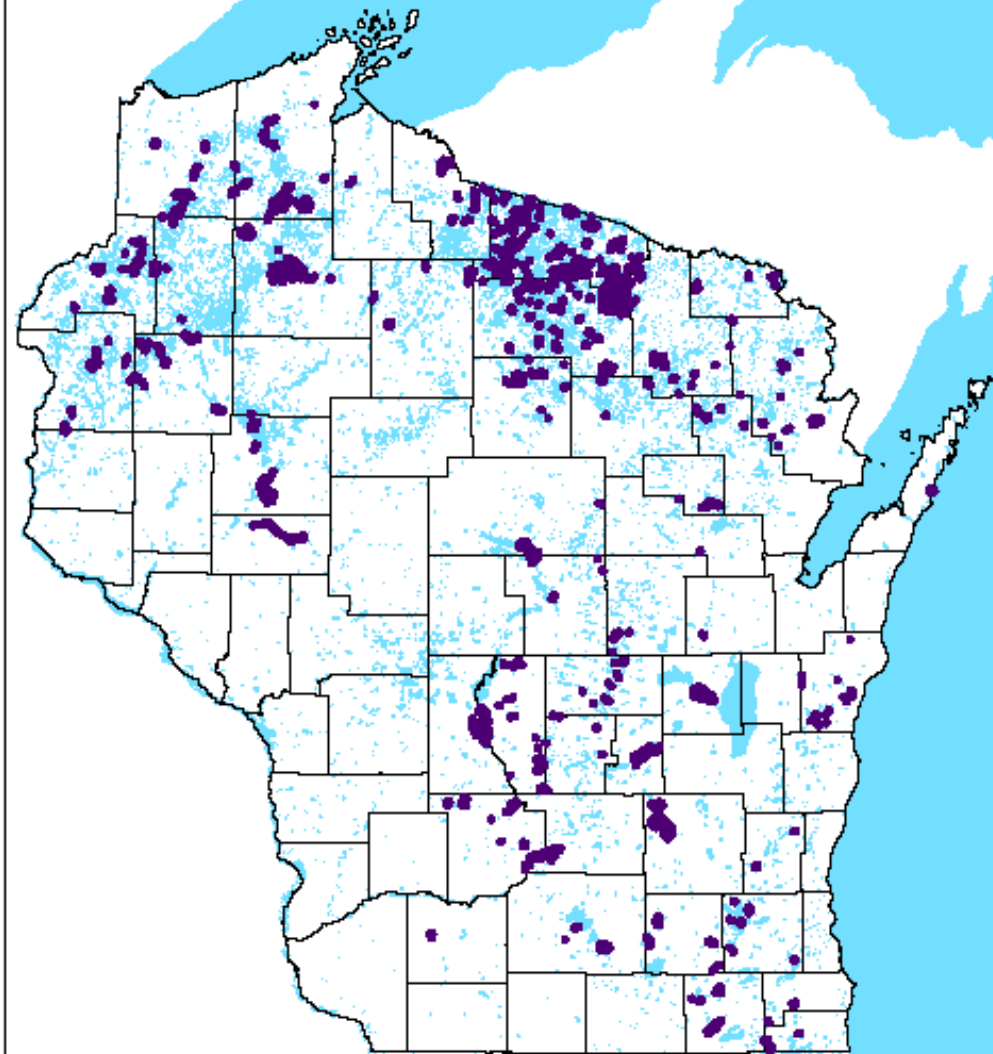
Training opportunities

- Wisconsin's Lake Convention
 - “The Casual Observer” for Clean Boats, Clean Waters and Citizen Lake Monitoring Network AIS monitoring
 - Clean Boats, Clean Waters 3-hour workshop
 - Citizen Lake Monitoring Network AIS 3-hour workshop
 - On-line data entry through the Surface Water Integrated Monitoring System (SWIMS)
- County Aquatic Invasive Species Staff host workshops through AIS grants
- Trained Trainers host workshops
- Lake Association and District meetings
- Super-Spreaders – target audiences on super spreader lakes

Casual Observer vs Trained Monitor

- Casual observer
 - More general observer (simplified training)
 - Do not follow protocols
 - Select species they monitor for
 - Often do not do data entry
 - Seldom report if they do NOT find AIS
- Examples -
 - Shoreline sweep
 - Chain of Lakes volunteers
 - Lake meeting presentations
- Trained monitor
 - More technical training (longer & more detailed)
 - Monitoring follows standard monitoring protocols (meshes with DNR protocols)
 - Select species they monitor for
 - Enter data into SWIMS
 - Report if they do NOT find AIS

Aquatic Invasive Species Volunteers
December 2009



Legend

- Volunteers
- Counties
- Lakes



Volunteers
cover the
entire state,
but most are
in our “lakes
rich” areas
and areas
with few AIS

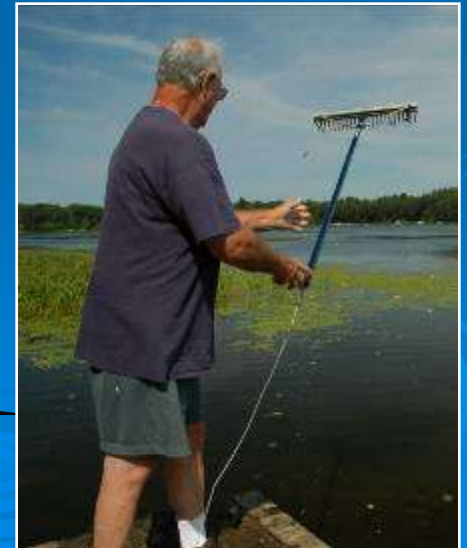
Wisconsin's Aquatic Invasive Species Program

Why Volunteer Monitoring

- Volunteers know their lakes
- Volunteers can cover more lakes than agency staff can cover

Results so far – Success!

- Many of the new EWM and mystery snail “finds” have been from volunteers.
- Help track success / failure of control



What Volunteers Like/Need

- Volunteers love the hands on ID time
- Trainings close to when they monitor
- Pontoon boats – not needed, but helpful
- Casual observer or trained monitor options



What volunteers receive

- **Equipment in the free kit:**
- Manual / handbook
- Hand lens
- Through the Looking Glass book
- 22-set laminates (EWM, curly-leaf pondweed, purple loosestrife and look-a-likes)
- Zip-lock bags (for plant collection)
- Sharpies (to record info on the Zip-lock bags)
- Watch and wild cards, ID and informational pamphlets



Manual components

- DNR and UWEX Contacts
 - Section 1 - Aquatic Invasive Species: Getting Started.
 - Section 2 - Eurasian water-milfoil
 - Section 3 - Curly-leaf pondweed
 - Section 4 – Purple loosestrife
 - Section 5 – Rusty crayfish
 - Section 6 – Zebra mussels
 - Section 7 – Mystery snails
 - Section 8 – Waterfleas
 - Section 9 – Freshwater Jellyfish
 - Section 10 – Hydrilla
 - Section 11 – New Zealand mudsnail
-
- Section 12 – Native water-milfoil weevil



Section layout

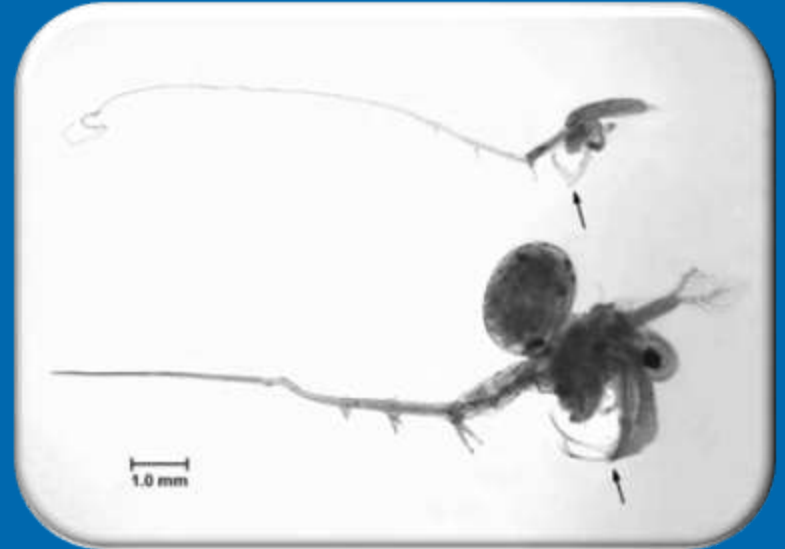
- Background/Overview
- Life Cycle
- Identification
- Monitoring
 - When to Monitor
 - Where do I Sample
 - How to Monitor
 - Collecting Samples
 - Labeling Samples
 - Equipment Needed
- Setting Up a Monitoring Team
- Mapping
- Reporting
- What to do with Suspect Specimens
- Additional Materials & Supporting Documentation
- Data Reporting Forms



Invasive Plant monitored for



Critters monitored for



Critters monitored for - cont



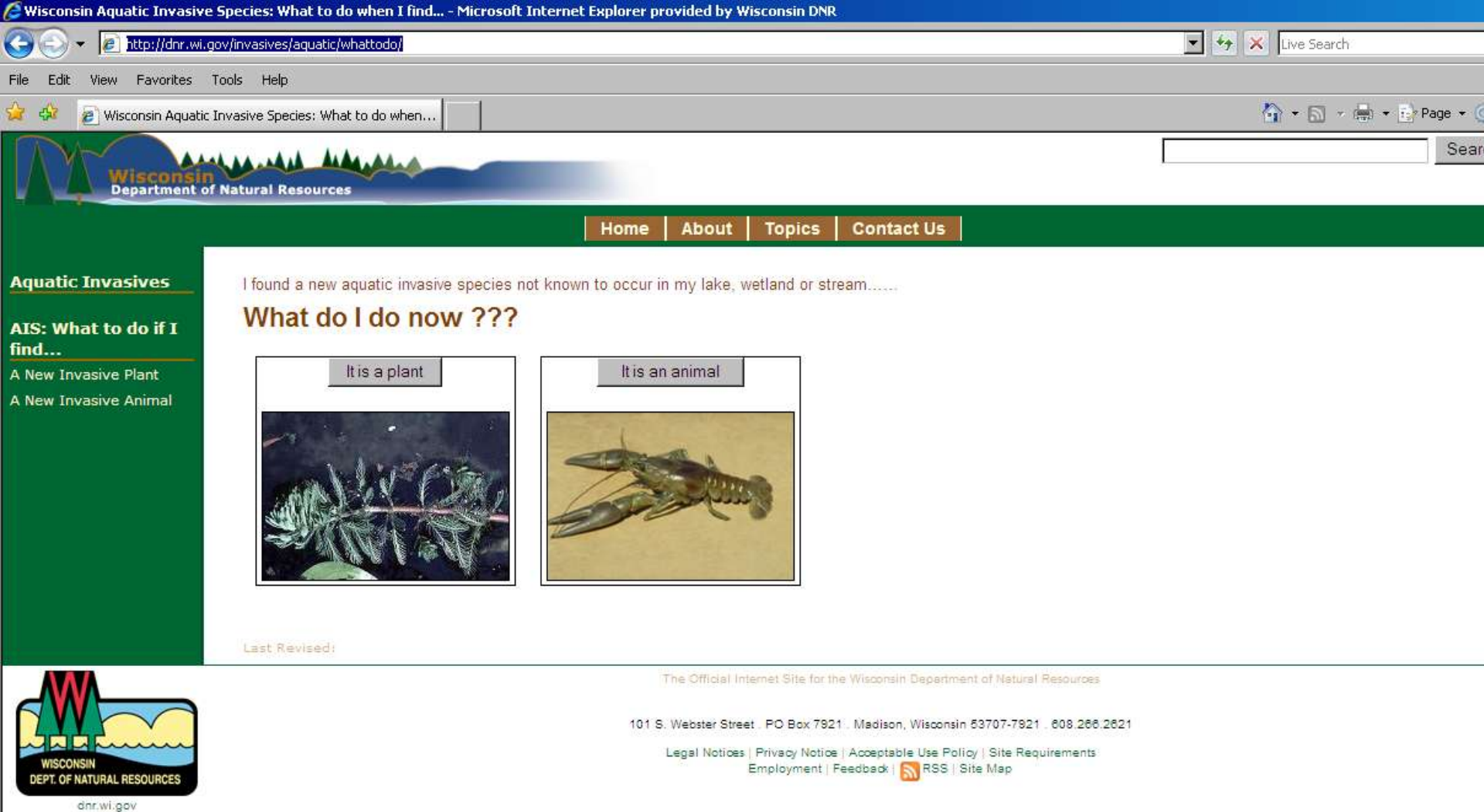
Future species?



Can be added as needed.

Report Findings – Statewide Database Surface Water Inventory Management System (SWIMS)

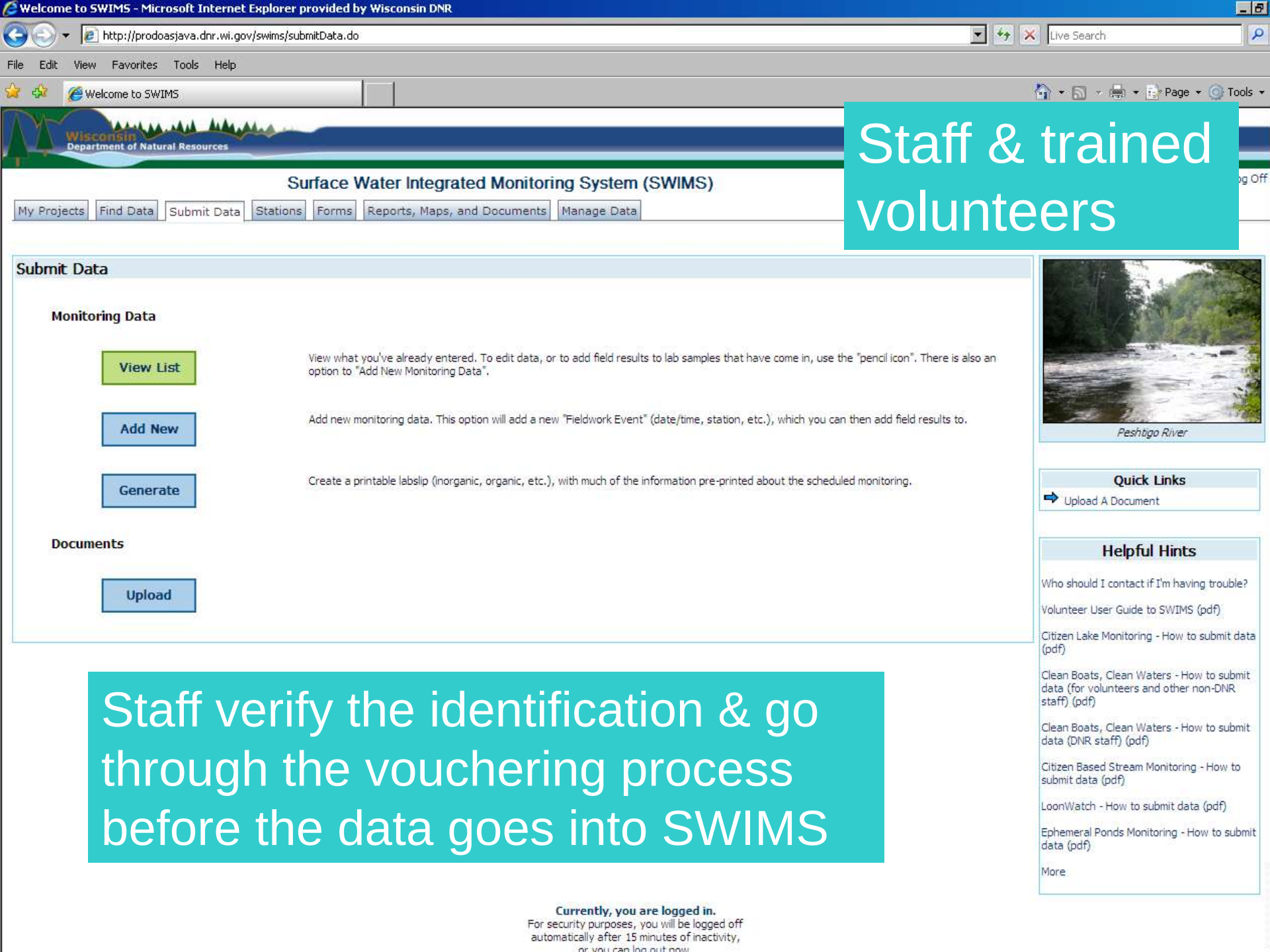
- General public
 - access to data and maps
 - report AIS findings
- Volunteers
 - access to data and maps
 - report, document and enter data on AIS findings
- Staff
 - access to data and maps
 - report, document and enter data on AIS findings
 - verify and voucher general public and volunteer findings



Used mainly by general public
so they can report new “finds”

dnr.wi.gov

Staff verify the identification & go through the vouchering process before the data goes into SWIMS



Staff & trained
volunteers

Staff verify the identification & go
through the vouchering process
before the data goes into SWIMS

Currently, you are logged in.
For security purposes, you will be logged off
automatically after 15 minutes of inactivity,
or you can log out now.

Fieldwork Event and Result Form - Microsoft Internet Explorer provided by Wisconsin DNR

http://prodoasjava.dnr.wi.gov/swims/generateDynamicFormItems.do?fieldworkId=38103414&sampleHeaderId=38103416&formCode=INV_PLANT_INCIDENT10

Live Search

FileEditViewFavoritesToolsHelp

Fieldwork Event and Result Form

PageTools

Wisconsin
Department of Natural Resources

Surface Water Integrated Monitoring System (SWIMS)

Updates | Help | Log Off

My ProjectsFind DataSubmit DataStationsFormsReports, Maps, and DocumentsManage Data

Home -> Fieldwork Event and Result Form

Fields denoted with an asterisk (*) are REQUIRED.
Fieldwork event data can be corrected later after submitting parameter results below.

You Are Entering Data For:

Project:
Start Date Time:
Station:

AIS Incident Reports - Oneida County
01/01/2008
10004611 - Alice Lake

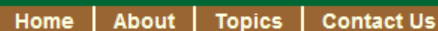
Save and Edit Header

Aquatic Invasive Plant Incident Report (R 02/10)

	Parameter	Result	Units	Method
Primary Data Collector	Name (if not selected on previous page)			
	Phone Number			
	Email			
Info on Aquatic Invasive Found	Which aquatic invasive did you find?			
	Other invasives found			
	Where did you find the invasive?			
	Latitude			
	Longitude			
	How much area do the plants occupy?			
	Was the plant floating or rooted?			
	Substrate cobble %			
	Substrate muck %			
	Substrate boulders %			
Voucher Sample	Substrate sand %			
	Bottom covered with plants %			
	Did you bring sample to a DNR office?			
	Other office			
	Person who verified occurrence			
	Second person who verified occurrence			

Next DateNext StationSave and Return to ListNext (Enter Voucher Results)

Currently, you are logged in.
For security purposes, you will be logged off automatically after 30 minutes of inactivity.



- All Species

This message was sent with Low importance.

From: Filbert, Jennifer M - DNR

Sent: Wed 03/17/2010 11:05 AM

To: Herman, Laura J - DNR

Cc:

Subject: FW: AIS lists and detail pages

Wisconsin Lakes

Lake Information

A to Z Lake List

Search Lakes

Shawano Lake - Banded Mystery Snails

Details of Initial Discovery

Year Found

2008

Found By

[BRENDA NORDIN](#)
Wisconsin DNR



Banded Mystery Snails on Shawano Lake

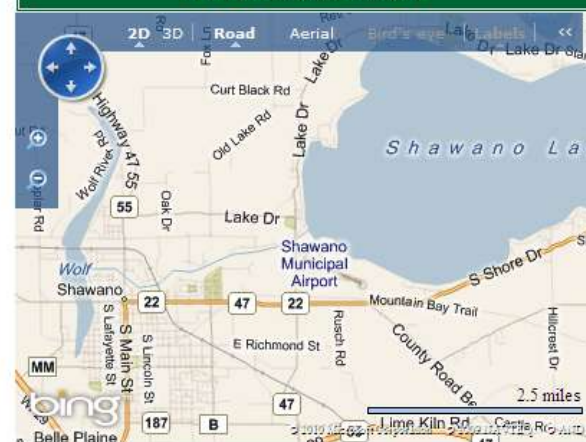


Banded Mystery Snails on Shawano Lake (2)



BANDED MYSTERY SNAILS ON
SHAWANO LAKE (3)

About Shawano Lake



Waterbody Shawano Lake

Waterbody ID Code 322800

County Shawano

Size 6215.37 ACRES

Maximum Depth 42 FEET

[More Details >>](#)

Species Profile





**Tailor the
program
for the
volunteers.**

Wisconsin AIS websites

- General Information on Citizen Lake monitoring -
<http://www.uwsp.edu/cnr/uwexplakes/clmn/>
- Publications / manuals -
<http://www.uwsp.edu/cnr/uwexplakes/clmn/publications.asp>
- WI Department of Natural Resources AIS data –
 - <http://dnr.wi.gov/invasives/>
 - <http://dnr.wi.gov/invasives/aquatic/whattodo/>

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Any Questions?

Photos: Paul Skawinski, Bob Korth, DNR staff
and Google.