Riverine Early Detectors protecting Wisconsin's flowing waters

Project RED

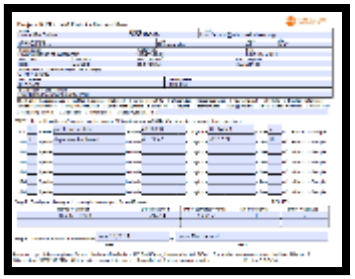
RIVER ALLIANCE
of WISCONSIN

Agenda

- Introduction to Invasive Species
- Species of Concern
- Break
- Monitoring Protocols
- Reporting Data Online
- Sending Samples/Photographs for Verification
- Taking Action

Project RED Steps



1. Paddle/Wade & Look for Invasives
2. ID & Collect/Photo Specimens
3. Verify your Findings
4. Share your Findings

Intro to Invasives: Definitions

NON-NATIVE

An organism that is not indigenous to a given area and **has been accidentally or deliberately transported to a new location** by human activity

INVASIVE

A subset of non-native species and **are likely to cause harm to the economy, environment, or human health**

How do they impact rivers?

What's at stake?

Species of Concern

PLANTS AND ALGAE

- Japanese knotweed
- Japanese hops
- Flowering rush
- Phragmites
- Purple loosestrife
- Yellow iris
- Eurasian watermilfoil
- Yellow floating heart
- Curly-leaf pondweed
- Hydrilla
- Brazilian waterweed
- Water Lettuce
- Water Hyacinth
- Reed manna grass
- Didymo

ANIMALS

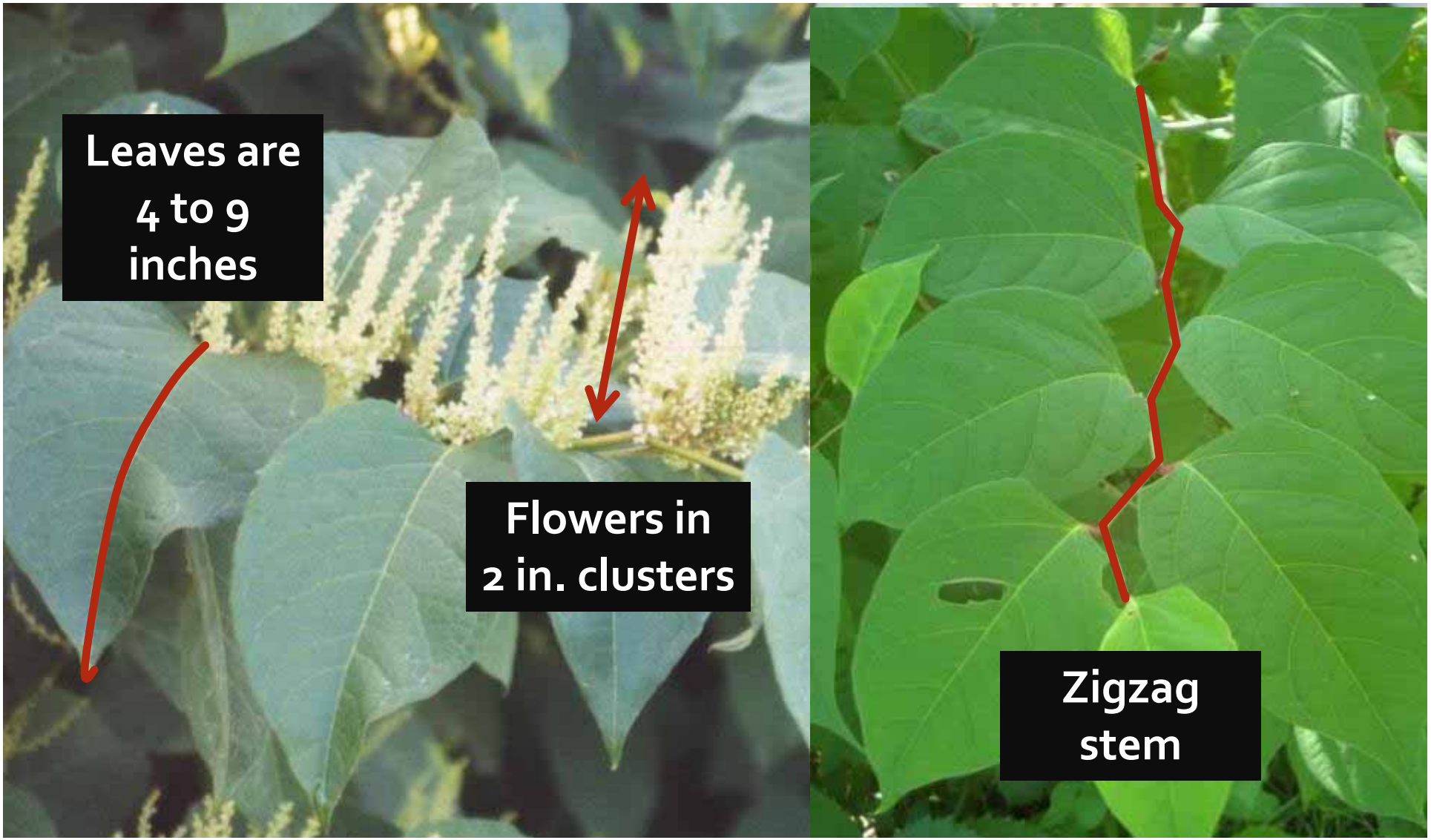
- Faucet snail
- New Zealand mudsnail
- Zebra mussel
- Quagga mussel
- Red swamp crayfish
- Asian clam

Japanese Knotweed

- Perennial
- 5 to 10 feet
- ornamental

Sheboygan River

Japanese Knotweed



Hollow stems more brittle than bamboo

Japanese Knotweed seeds

Impacts: alters stream's nutrients and hydrology

- Sequesters nitrogen (nutrients) in rhizomes before leaf fall,
- Providing litter of lower nutritional quality, impacting the productivity of macroinvertebrates
- Can alter the hydrology of a stream year round

Yellow Iris (*Iris pseudacorus*)

- Typically 3 – 4 feet tall
- Spreads by seed and vegetatively
- Seeds float
- All parts of the plant are poisonous
- Flowers May

Yellow Iris
(*Iris pseudacorus*)

Yellow Iris (*Iris pseudacorus*)

- 6-angled, egg shaped fruit capsule
- About 120 seeds per capsule

Non-native vs. Native

YELLOW IRIS

- Yellow Flower
- 6 sided seed pod
- Seed capsule opens at maturity

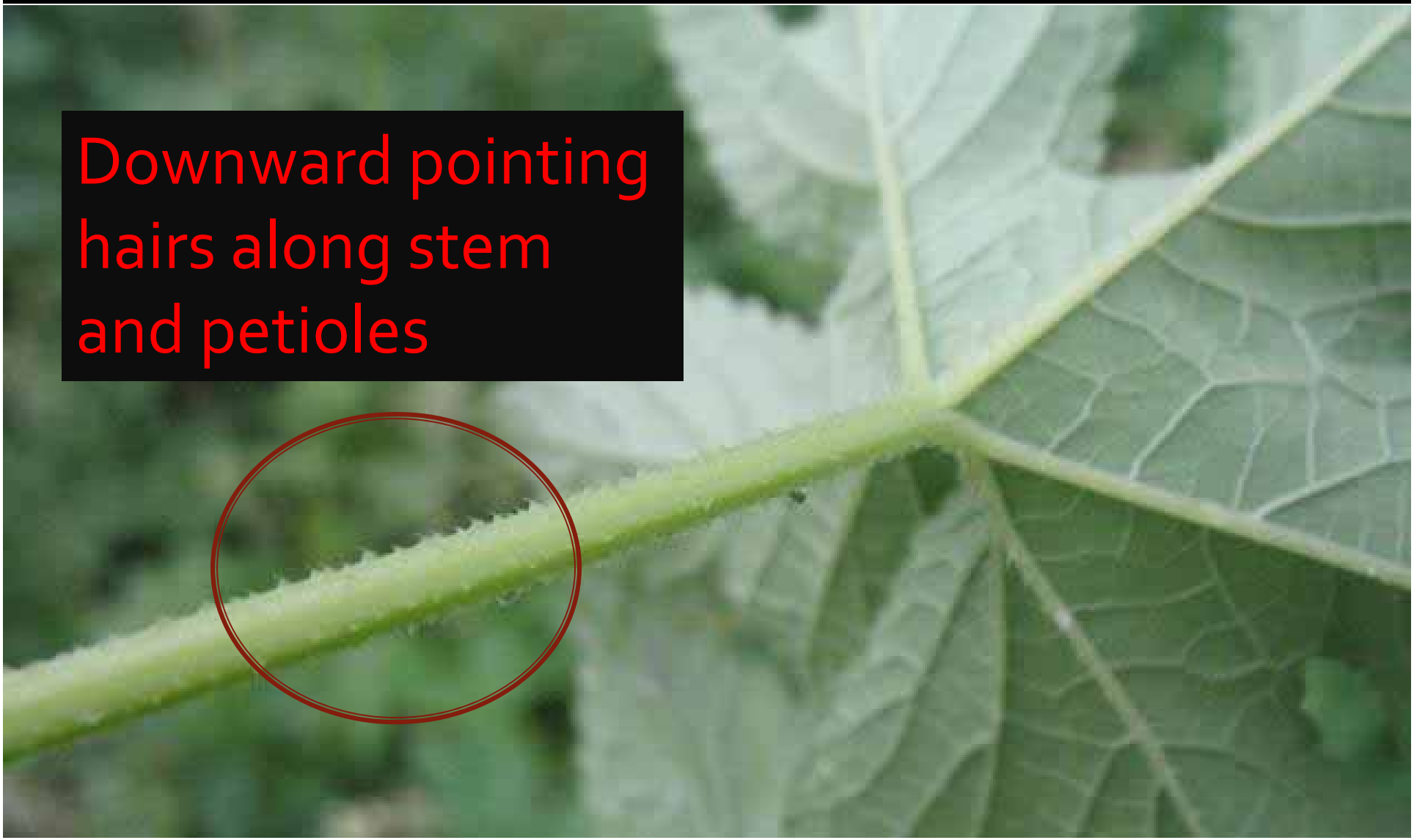
BLUE FLAG IRIS

- Blue Flower
- 3 sided seed capsule
- Seed capsule <u>does not</u> open

Japanese hops *(Humulus japonicus)*

Japanese hops (*Humulus japonicus*)

Japanese hops (*Humulus japonicus*)



Flowering rush
(Butomus umbellatus)

Emergent or submerged

Grows 1-4' high on an erect stem along shores in shallow water.

In deeper water it grows submerged without producing flowers.

American Bur-reed (native) vs Flowering Rush

Flowering Rush lacks cross veins evident in the bur-reed and arrowhead

Impact: outcompetes native shoreland vegetation

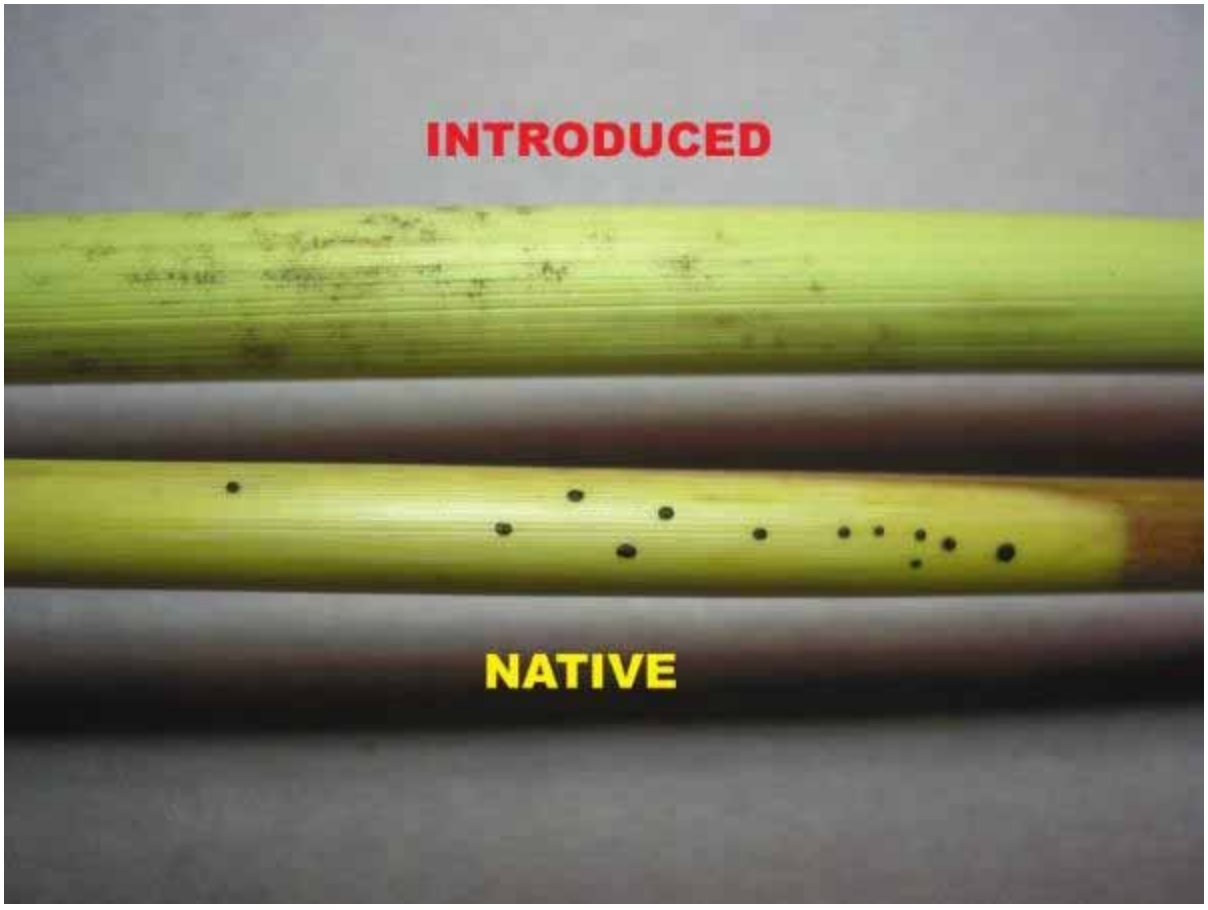
Phragmites (*Phragmites australis*)

Sheboygan River

Common Reed Grass

- Tall Grass
- 10 -20 inch leaves

Native vs. Nonnative



Nonnative stems:

Dull

Rough

Tan

Ribbed

No Black Spots

Purple Loosestrife
(Lythrum salicaria)

5 – 6
Petals

2

3

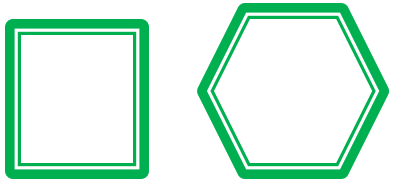
4

1

6

5

Smooth leaves
1 – 4 inches long



Semi-woody
stem with edges

nartweed

Fireweed

Eurasian Water-milfoil

7 native milfoils in Wisconsin

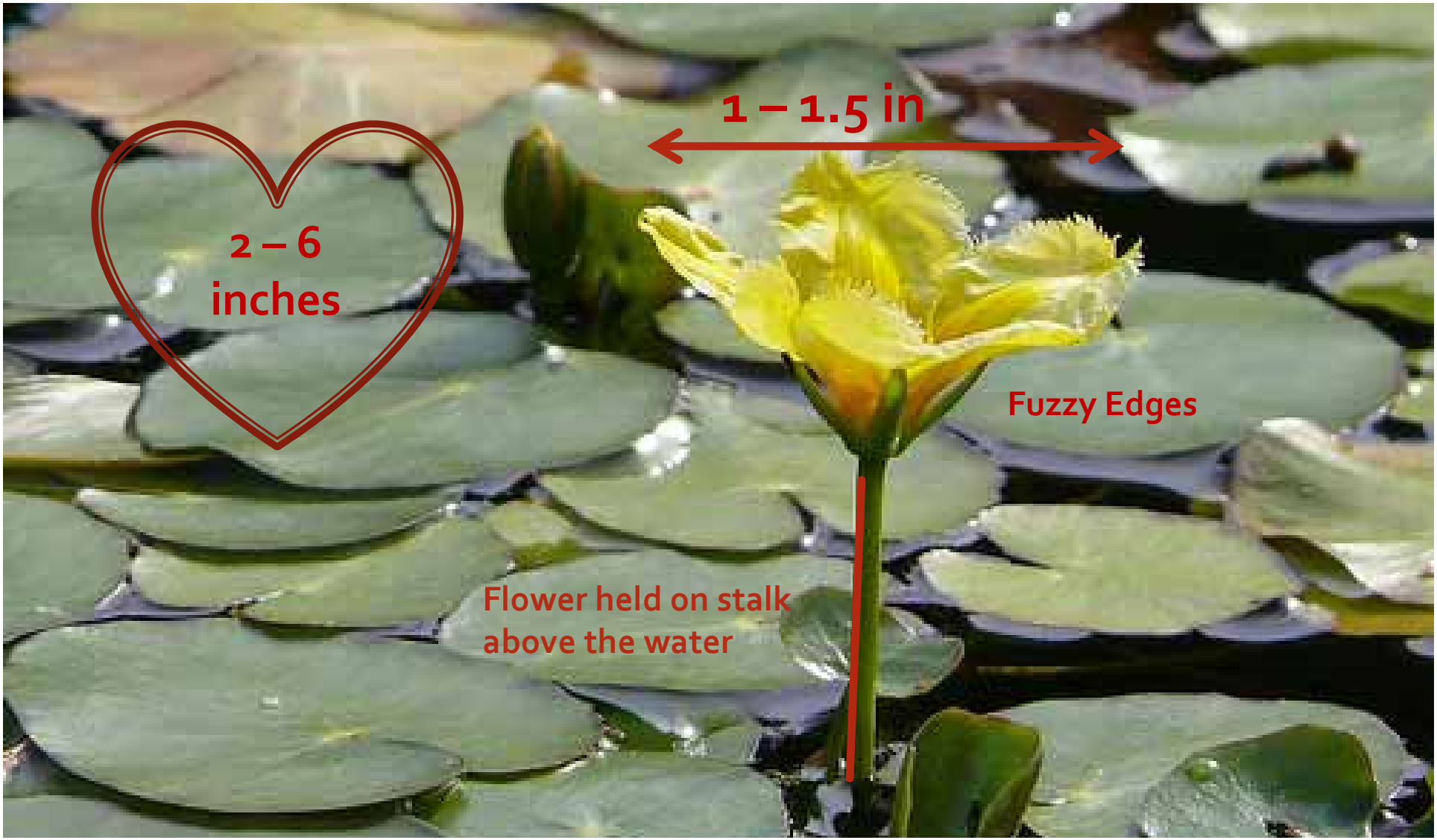
EWM easily confused with northern water milfoil

Eurasian Water-milfoil

Native Northern Watermilfoil or Eurasian?

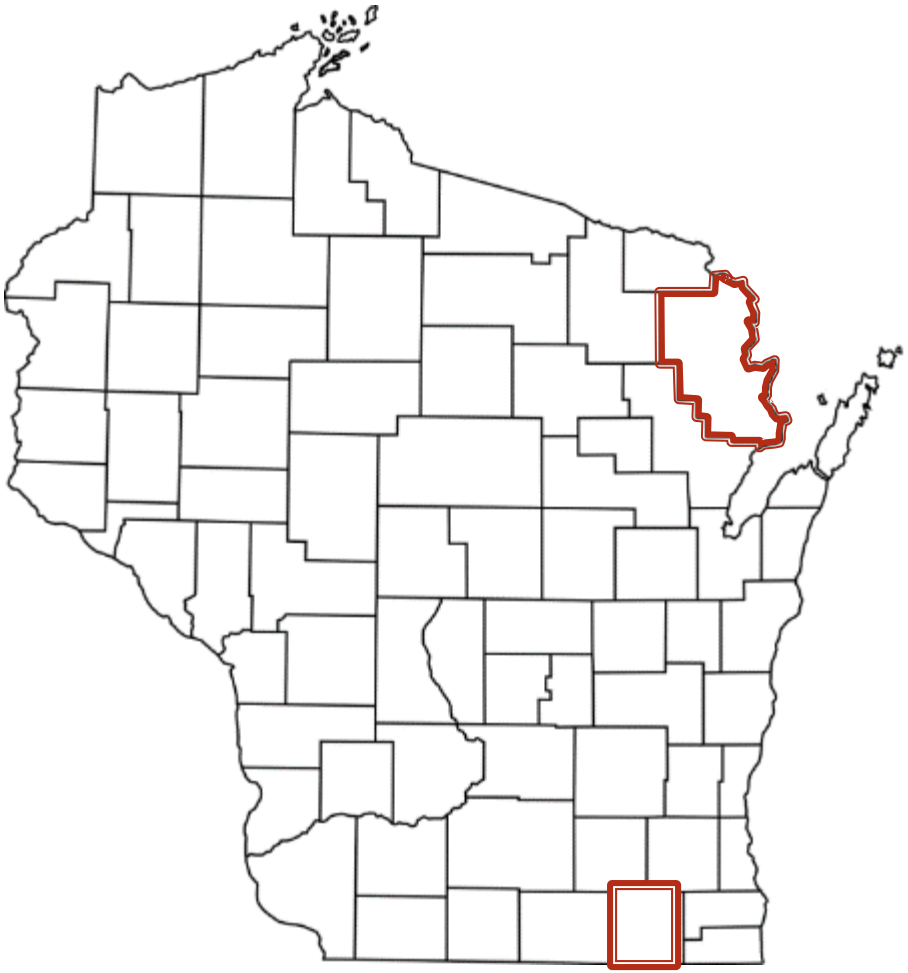
Native Northern Watermilfoil or Eurasian?

Floating Yellow Heart
(Nymphoides peltata)

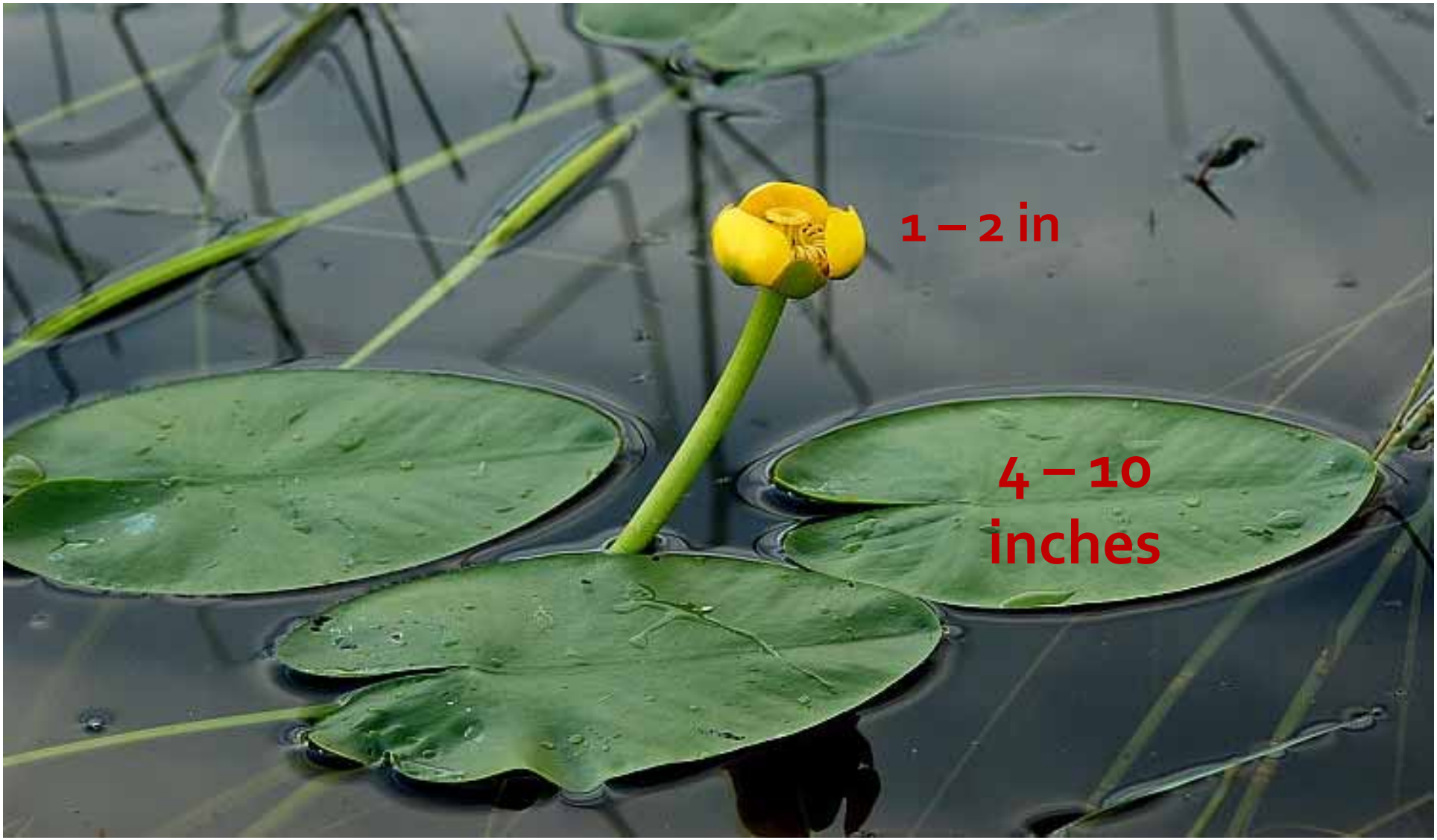


Current Distribution

- Marinette, Dane and Walworth Counties
- Landscaping/Water Gardens
- Prohibited species
- Shades out natives
- Causes low dissolved oxygen

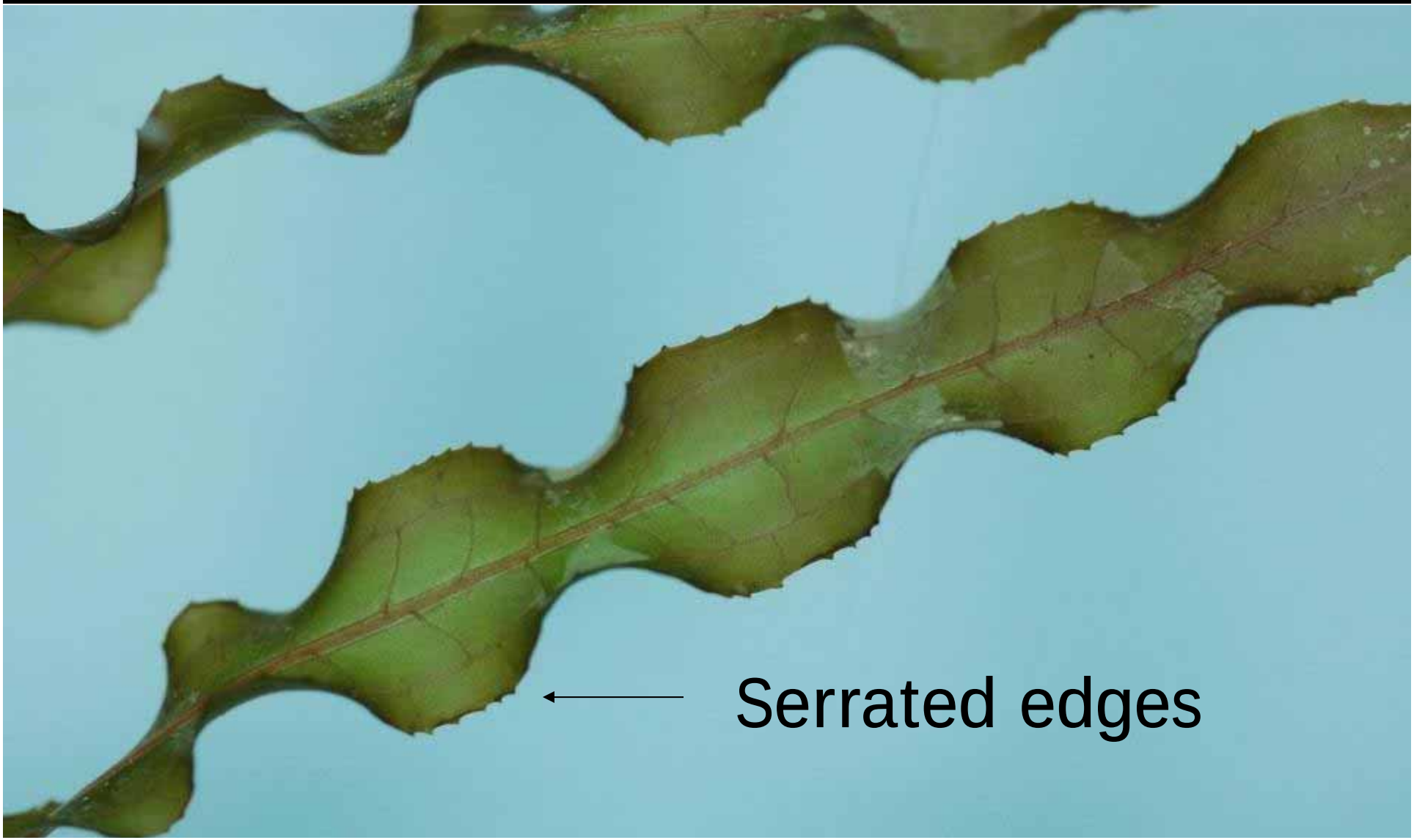


Native Yellow Pond Lily or Spadderdock



Curly-leaf Pondweed (Potamogeton crispus)

Curly-leaf Pondweed

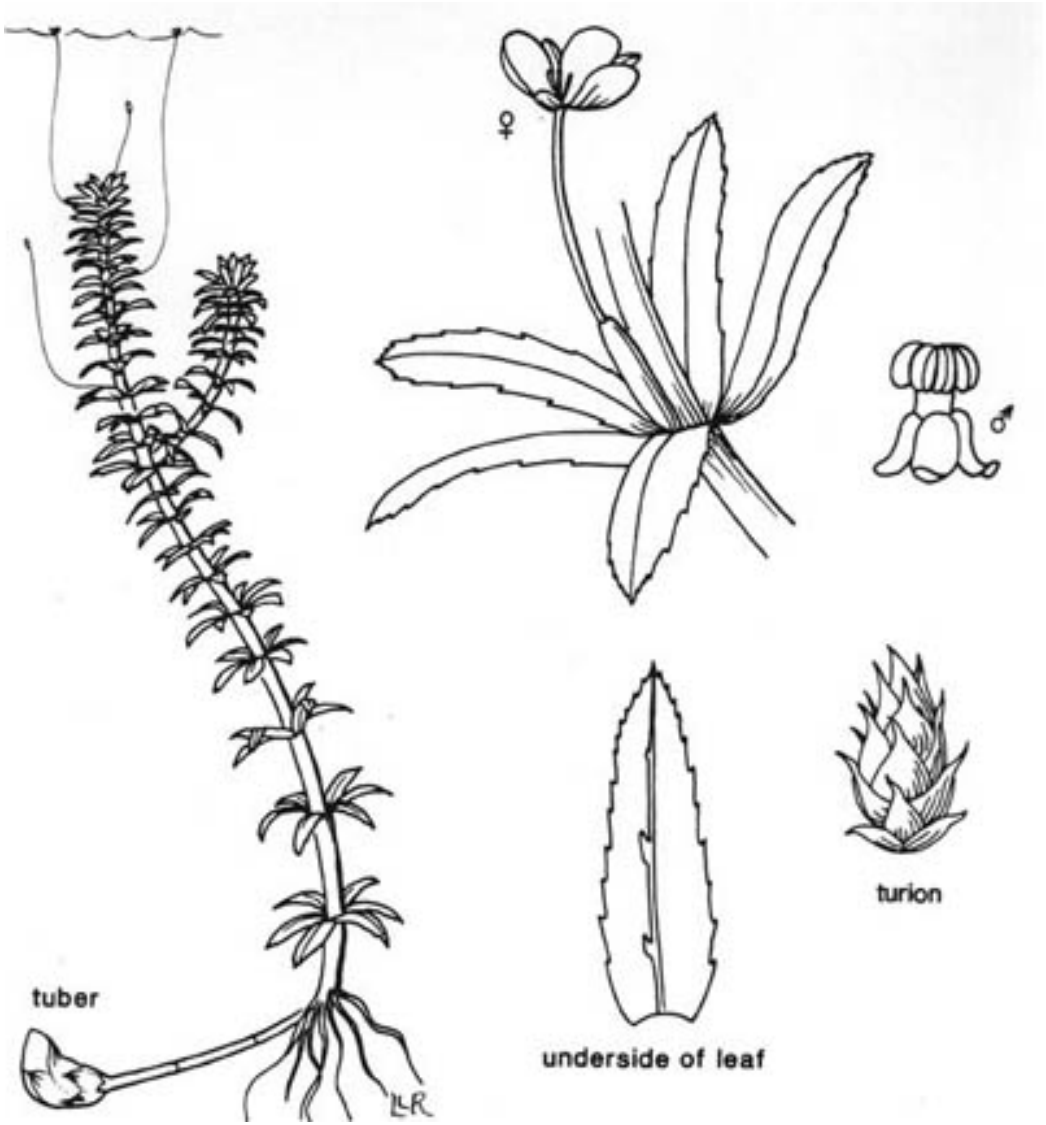


Curly-leaf Pondweed turion

Hydrilla (*Hydrilla verticillata*)

- Found in private pond in Marinette County
- Up to 30 feet strands
- 4 to 8 leaves whorled around stem

HyDRILLa



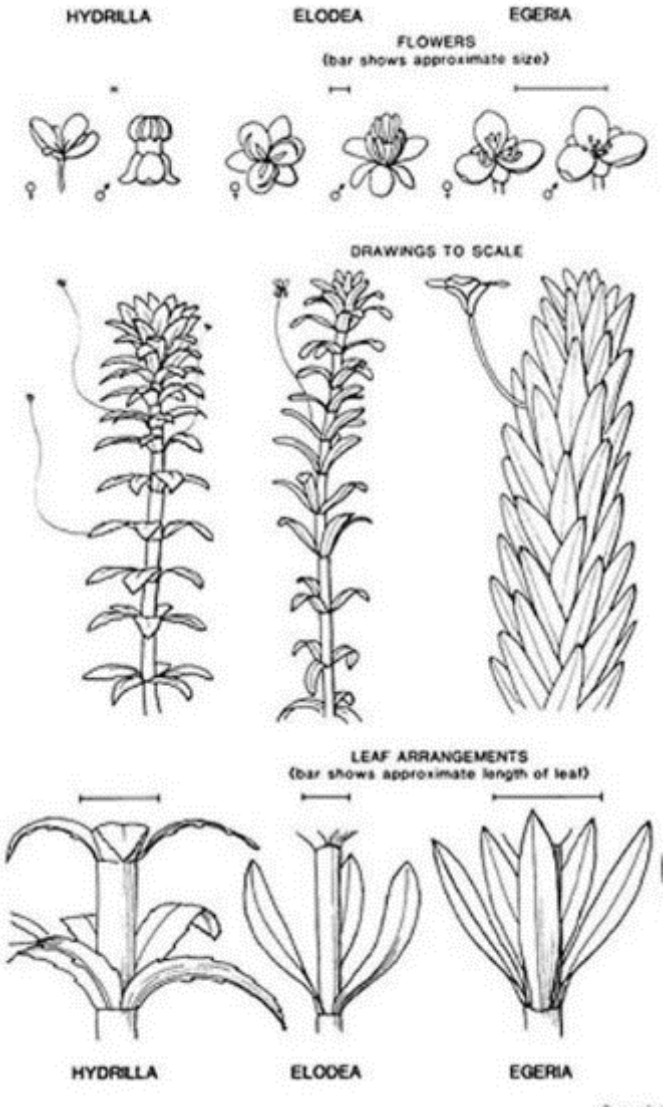
- Spines
- Serrated Leaves
- 4 to 8 Leaves in Whorl

Brazilian Waterweed *(Egeria densa)*

- Easily confused with Hydrilla
- No spines
- 4 – 8 leaves whorled around stem
- Small white flowers with 3 petals

Beefy Brazilian waterweed vs. Wimpy Wisconsin elodea

Elodea (native), hyDRILLa and Brazilian waterweed



Water Lettuce

- Perennial
- Free-floating
- Forms Dense Mats

Water Lettuce

Leaves

- Light green
- Hairy
- Ridged

Flowers

- Inconspicuous

Roots

- Feathery
- Hanging
- Submerged

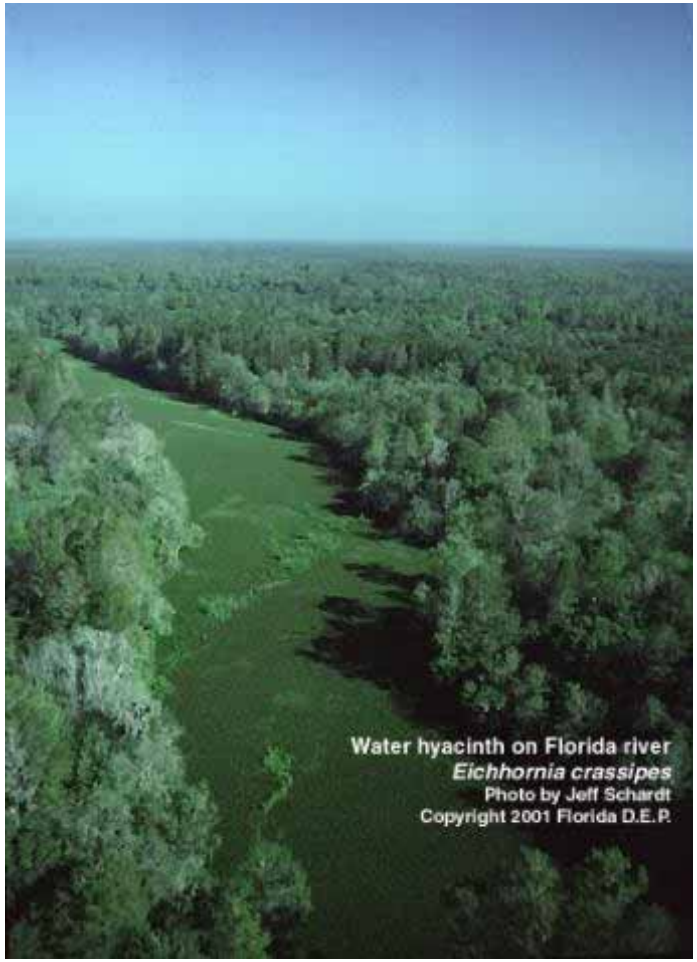
Water Hyacinth

- Perennial
- Floating
- Forms dense rafts

Water hyacinth

- Rounded leaves up to 6 inches wide
- Glossy, waxy green
- Bulbous, spongy leaf stems
- Showy, lavender-blue flowers
- 8 – 12 flowers in a 12 inch long spike

Water lettuce and hyacinth clogging a river in Florida



- A healthy acre of water hyacinths can weigh up to 200 tons!
- Hyacinth populations can double in 6 days

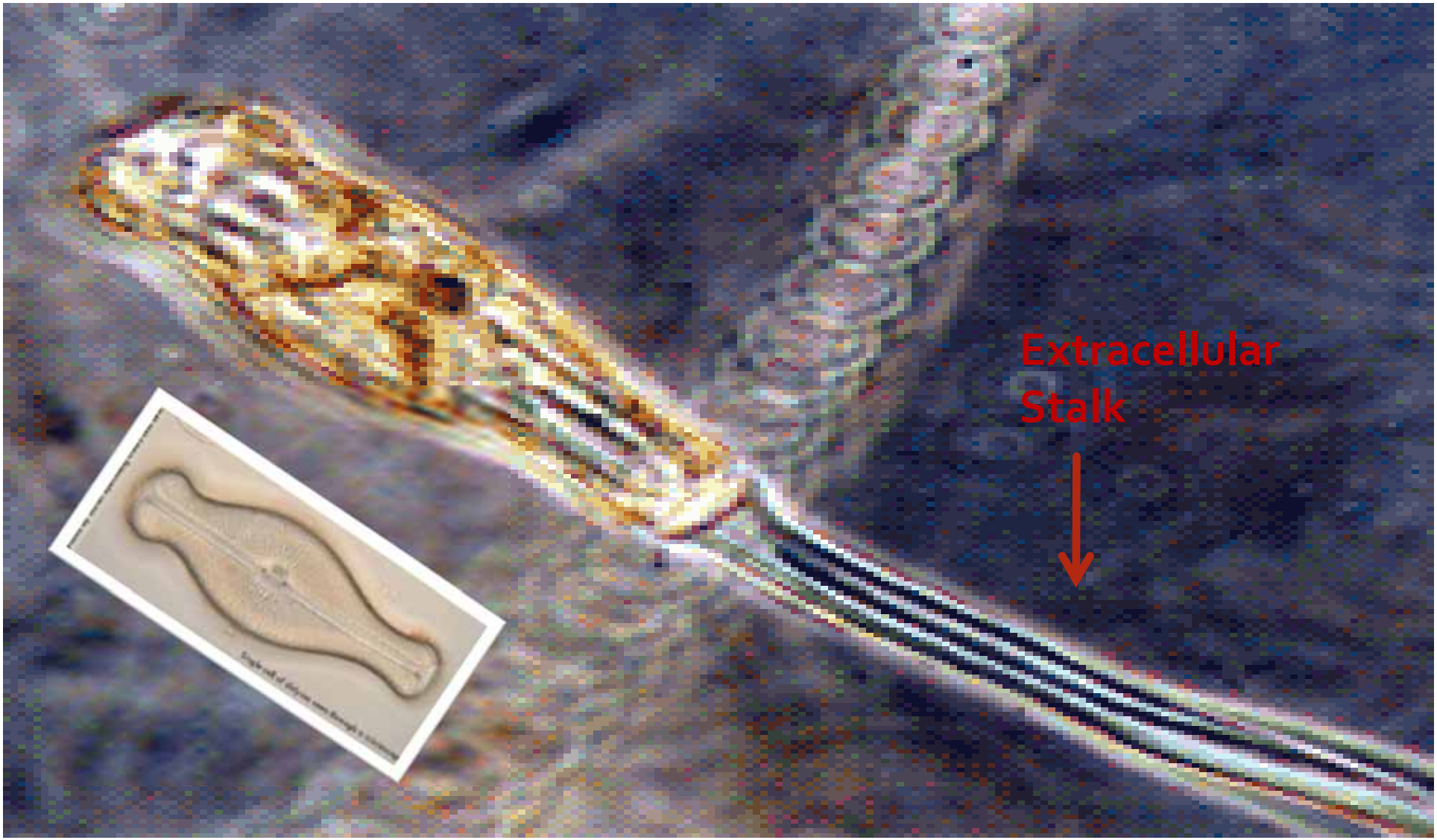
Reed Manna Grass/Glyceria maxima

- Perennial grass
- Forms dense stands
- Mainly found in Southeast WI, but has been found in other regions as well

Reed Manna Grass/Glyceria maxima

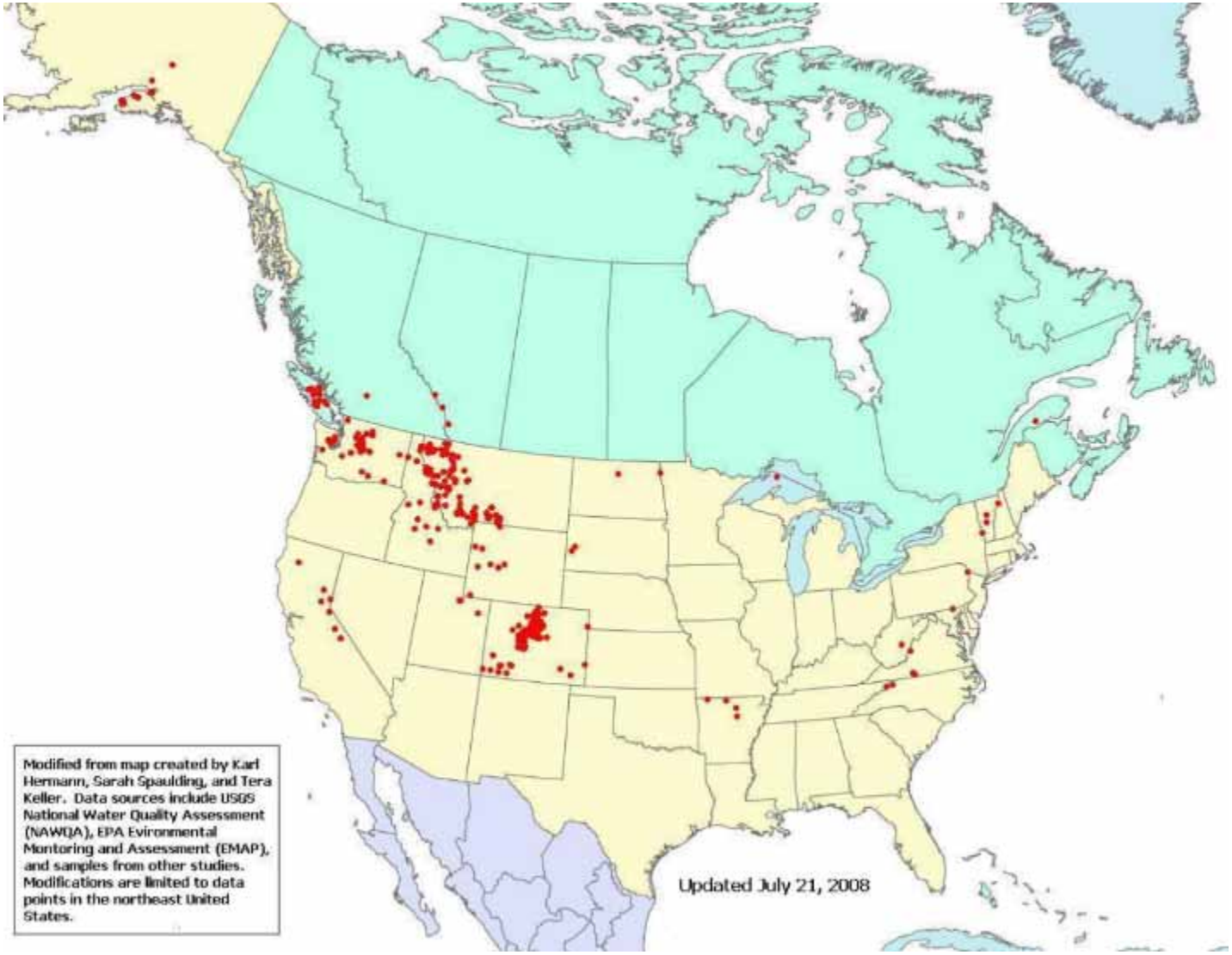
- Angular blades
- Closed leaf sheaths
- Upper glumes have 1 vein, and conspicuous veins on lemmas
- Leaves end in boat shaped tips
- Common name "rough mannagrass" due to leaves feeling like sharkskin

Didymo/Rock Snot



It is unpleasant to the senses, a nuisance to anglers, disrupts the natural benthic communities.

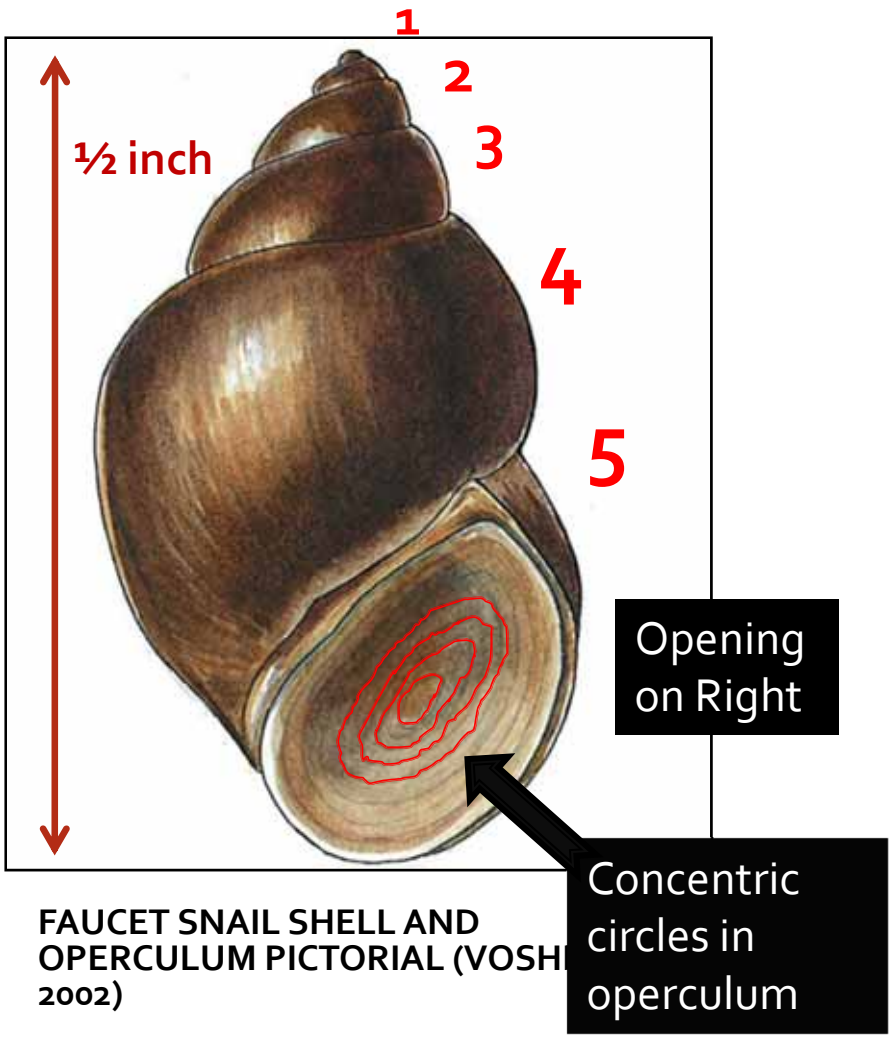
Distribution of Didymo



Spreading on boots of wading anglers

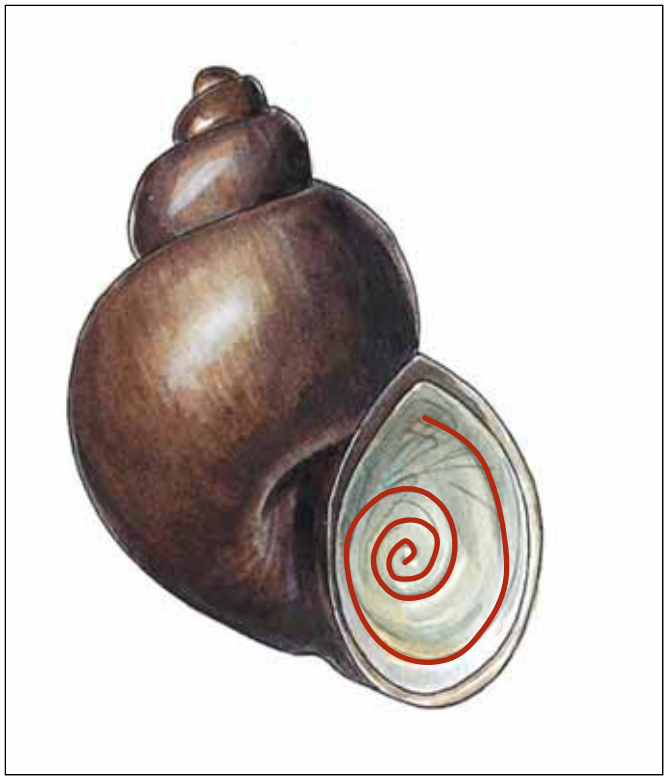
Faucet Snail *(Bythinia tentaculata)*

FAUCET SNAILS, SPECIMENS FROM LAKE WINNIBIGOSHISH, MINNESOTA



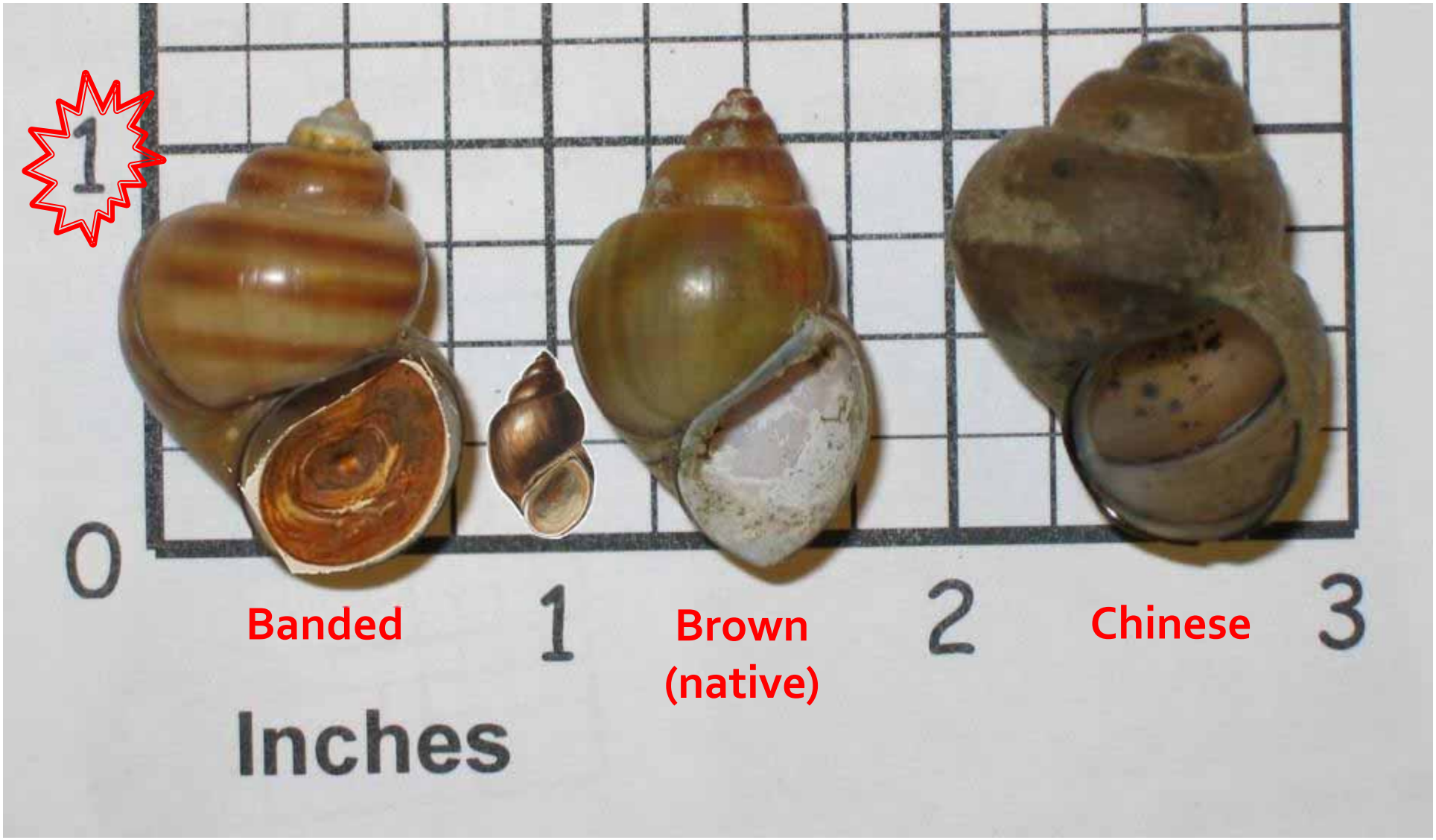
FAUCET SNAIL SHELL AND OPERCULUM PICTORIAL (VOSH
2002)

How do these native snails differ from the faucet snail?

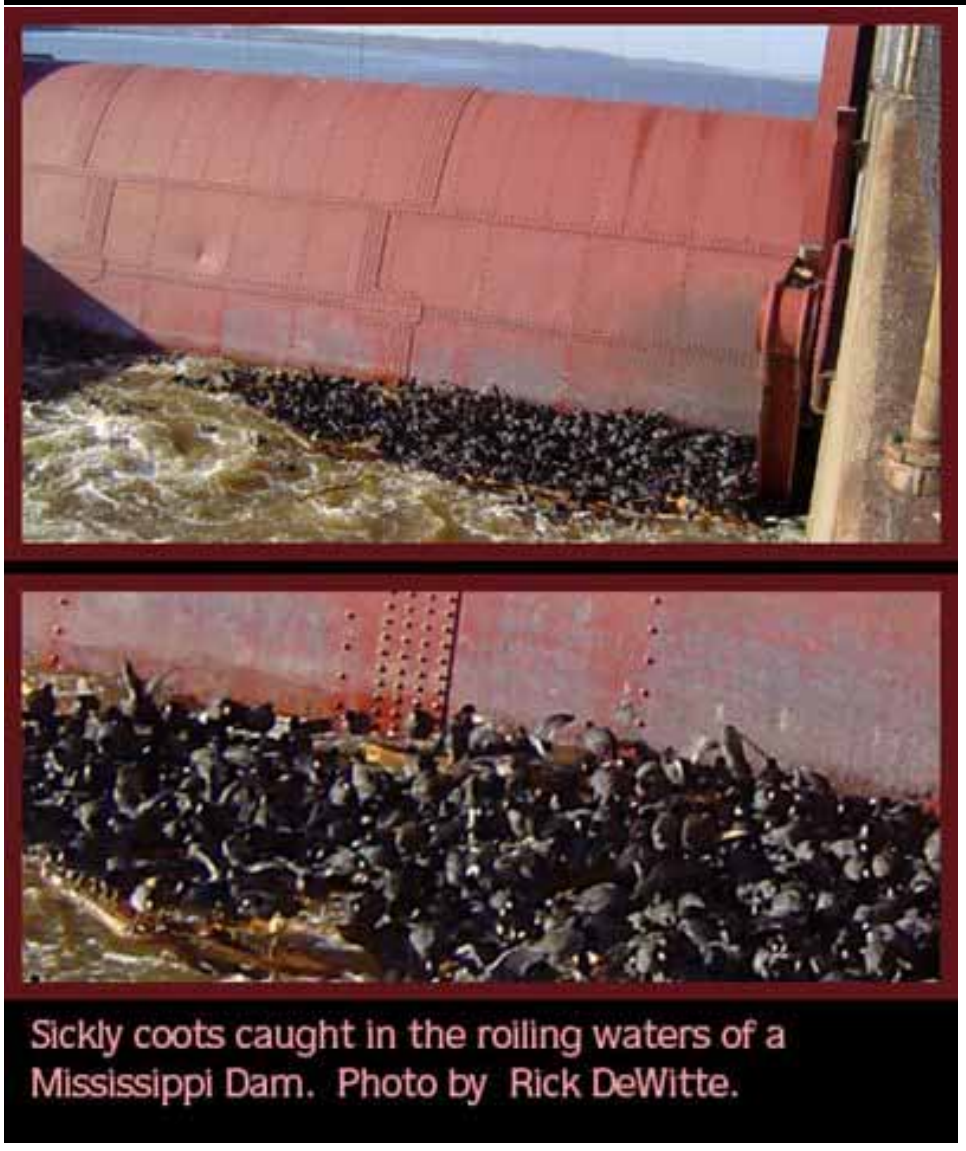


PICTORIALS OF HYBORBIID, LYMNAIED, AND PHYSID SNAILS (VOSHELL, 2002).

Mystery snails in Wisconsin



Impact: large die-offs of waterfowl



Sickly coots caught in the roiling waters of a Mississippi Dam. Photo by Rick DeWitte.

- Intermediate host to fluke worm that **bores through diving ducks' intestine**, causing internal bleeding
- Have **killed tens of thousands of scaup, coot , and ring-billed ducks** on Upper Miss R. Wildlife Refuge, and in Minnesota

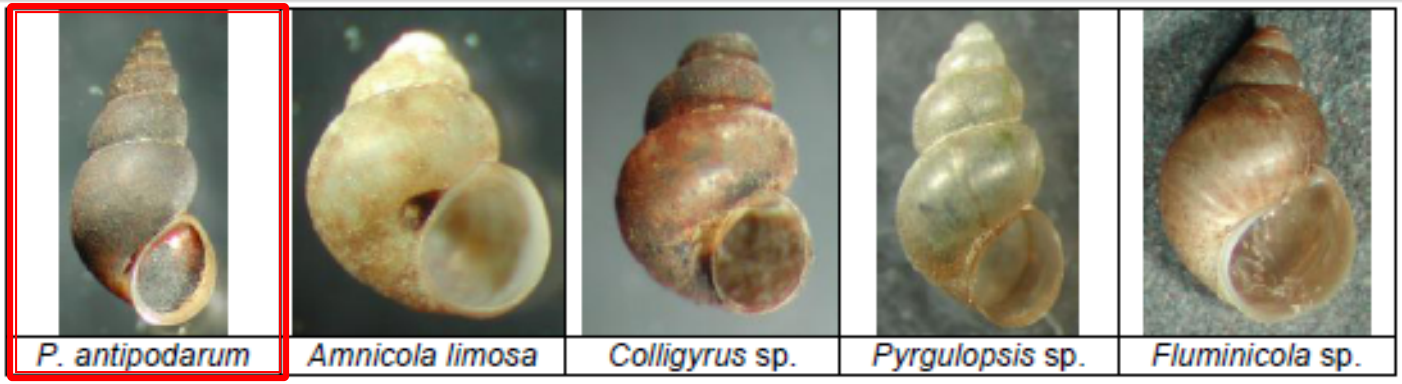
New Zealand mudsnails

(Potamopyrgus antipodarum)

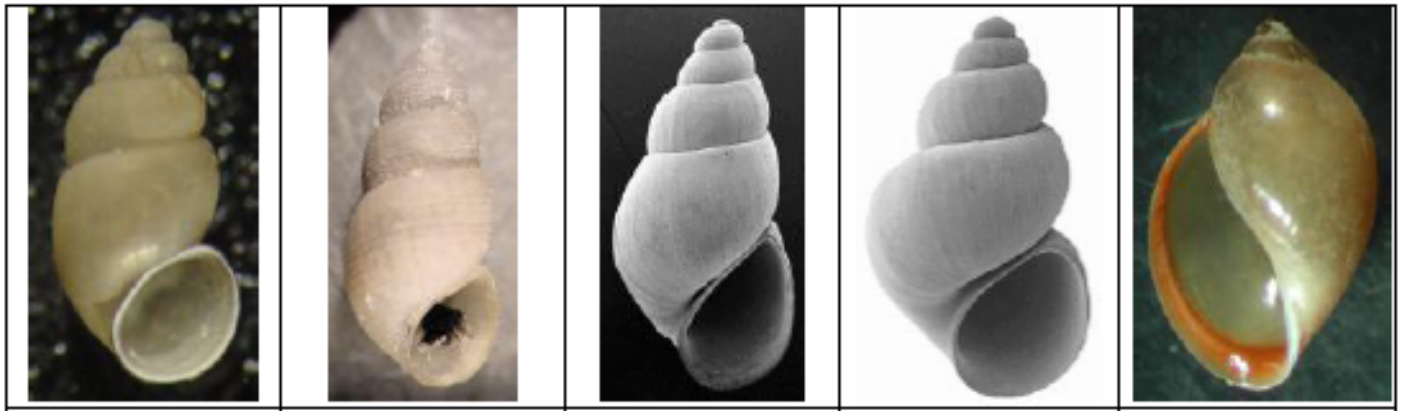
3 to 6 mm

New Zealand mudsnail
(Potamopyrgus antipodarum)

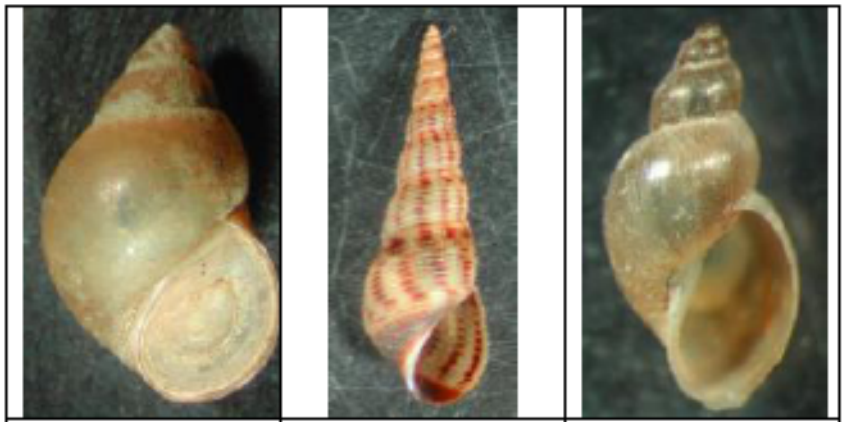
- 1/10 to ¼ inch long
- Operculum present
- Light to dark brown
- Cone shaped shell with 5-6 whorls
- Raised carina (keel) on whorls



P. antipodarum | *Amnicola limosa* | *Colligyrus* sp. | *Pyrgulopsis* sp. | *Fluminicola* sp.



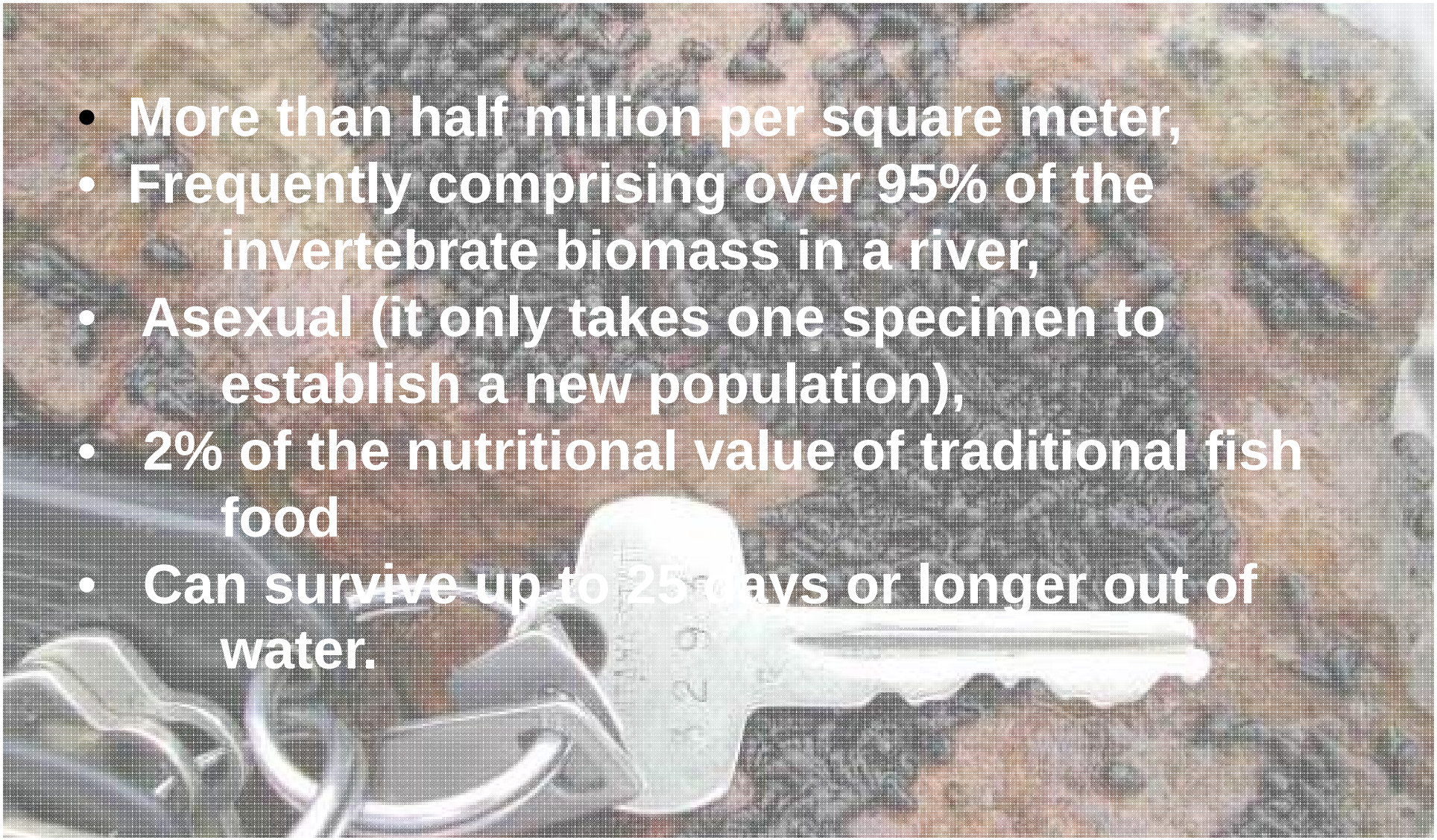
Pristinicola hemphilli | *Tryonia* sp. | *Eremopyrgus eganensis* | *Juturnia tularosae* | *Physidae* sp.



Bithynia tentaculata | *Melanoides tuberculatus* | *Lymnaeidae* sp.

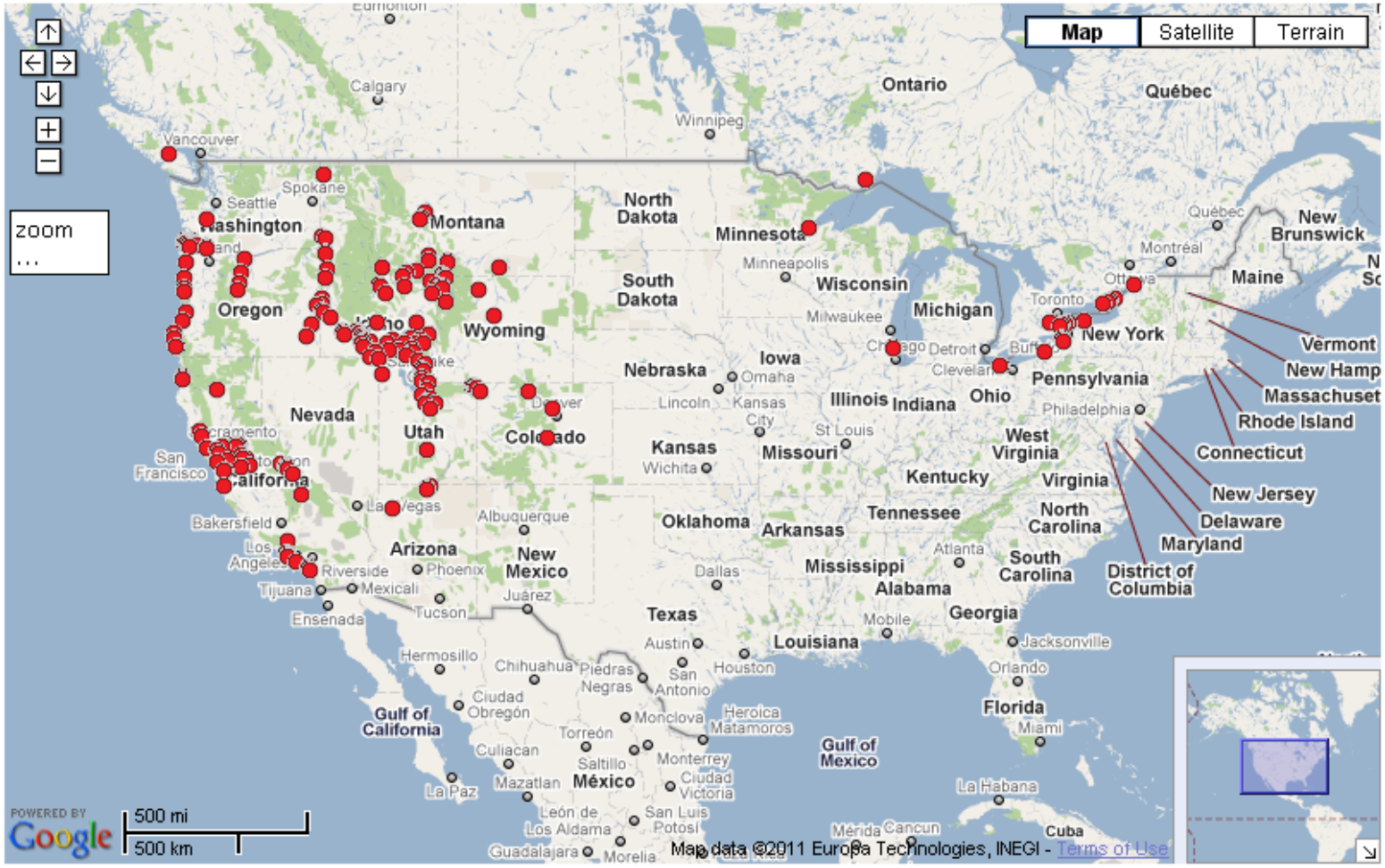
Other snails native to N. America that are easily mistaken for New Zealand mudsnails.

Impacts: less healthy fisheries



- More than half million per square meter,
- Frequently comprising over 95% of the invertebrate biomass in a river,
- Asexual (it only takes one specimen to establish a new population),
- 2% of the nutritional value of traditional fish food
- Can survive up to 25 days or longer out of water.

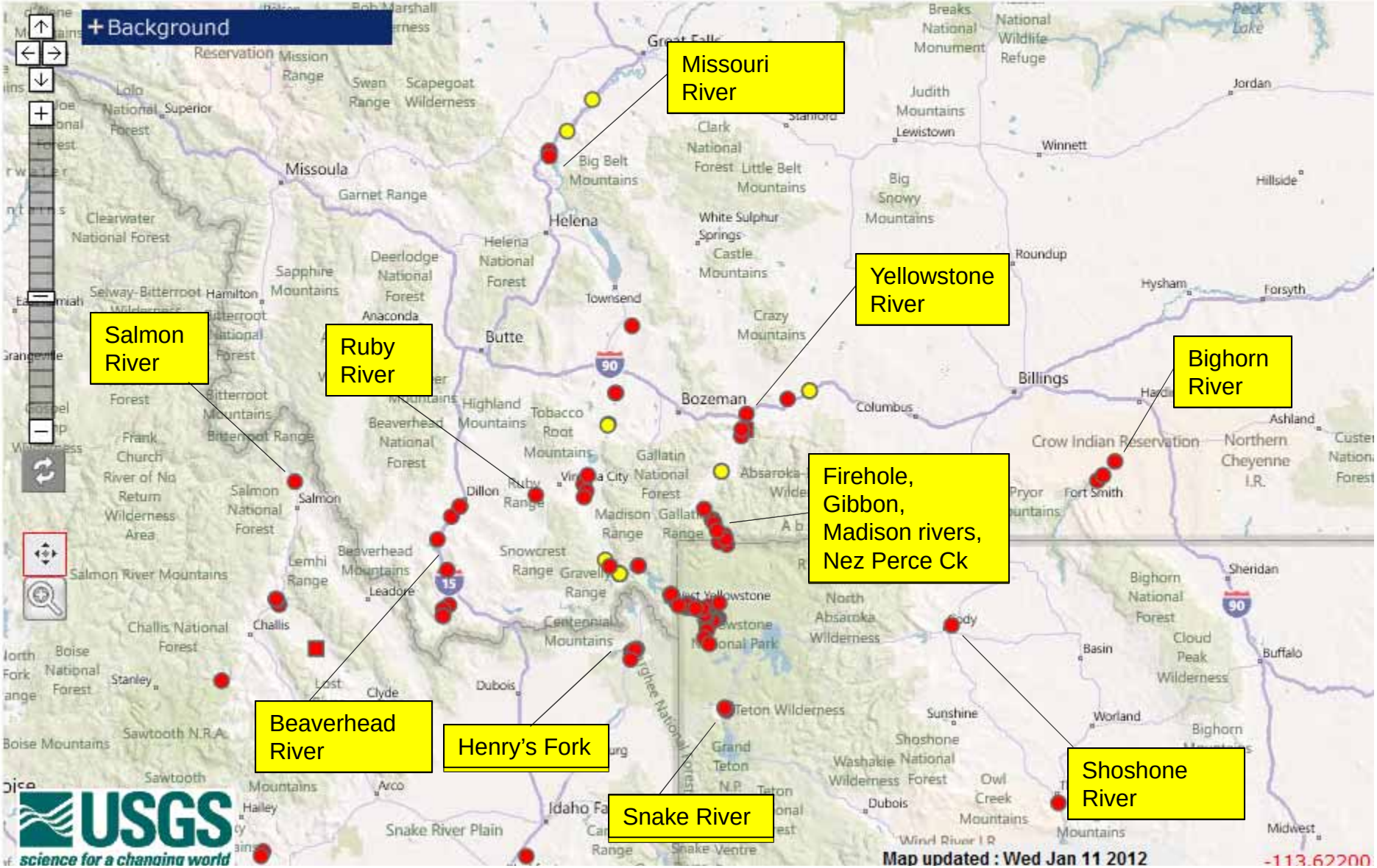
Distribution of New Zealand mudsnail



Suggested citation: Benson, A. J. 2011. New Zealand mudsnail sightings distribution. Retrieved 2/24/2011 from newzealandmudsnaildistribution.aspx.

Potamopyrgus antipodarum
(New Zealand mudsnail)
Mollusks-Gastropods
Exotic to United States

New Zealand mudsnail U.S. distribution (2012)



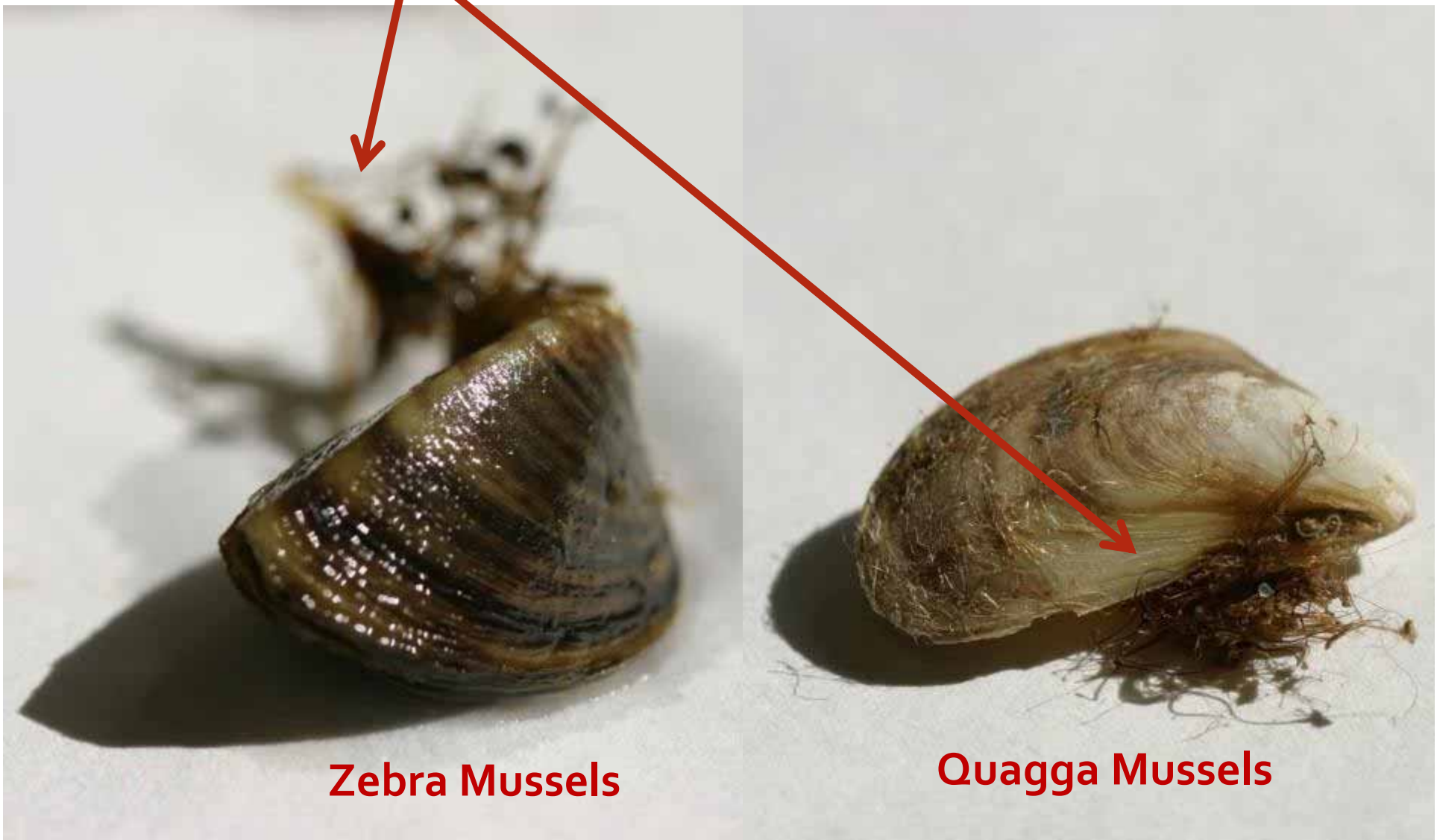
Zebra Mussel
(Dreissena polymorpha)

Zebra Mussels On Native Milfoil

Quagga Mussels
(Dreissena bugensis)

Native (Amblema plicata) with Zebra mussels

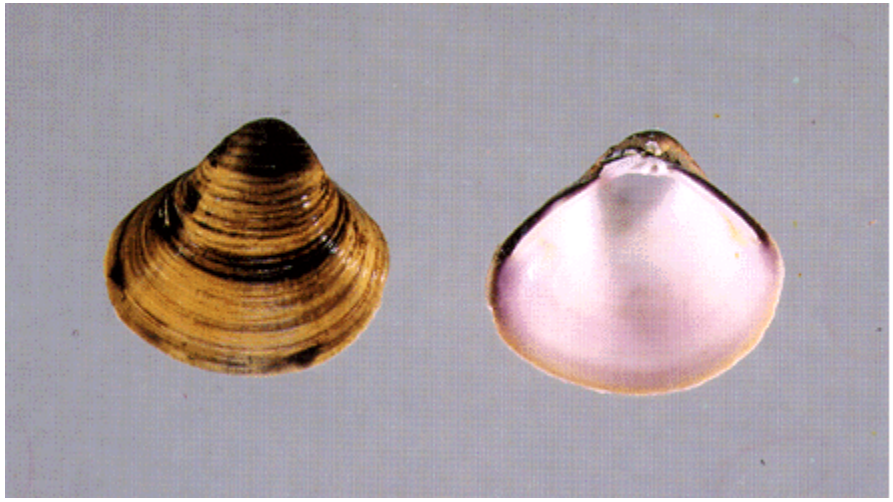
Bissell threads are bad news.



Zebra Mussels

Quagga Mussels

Asian clam

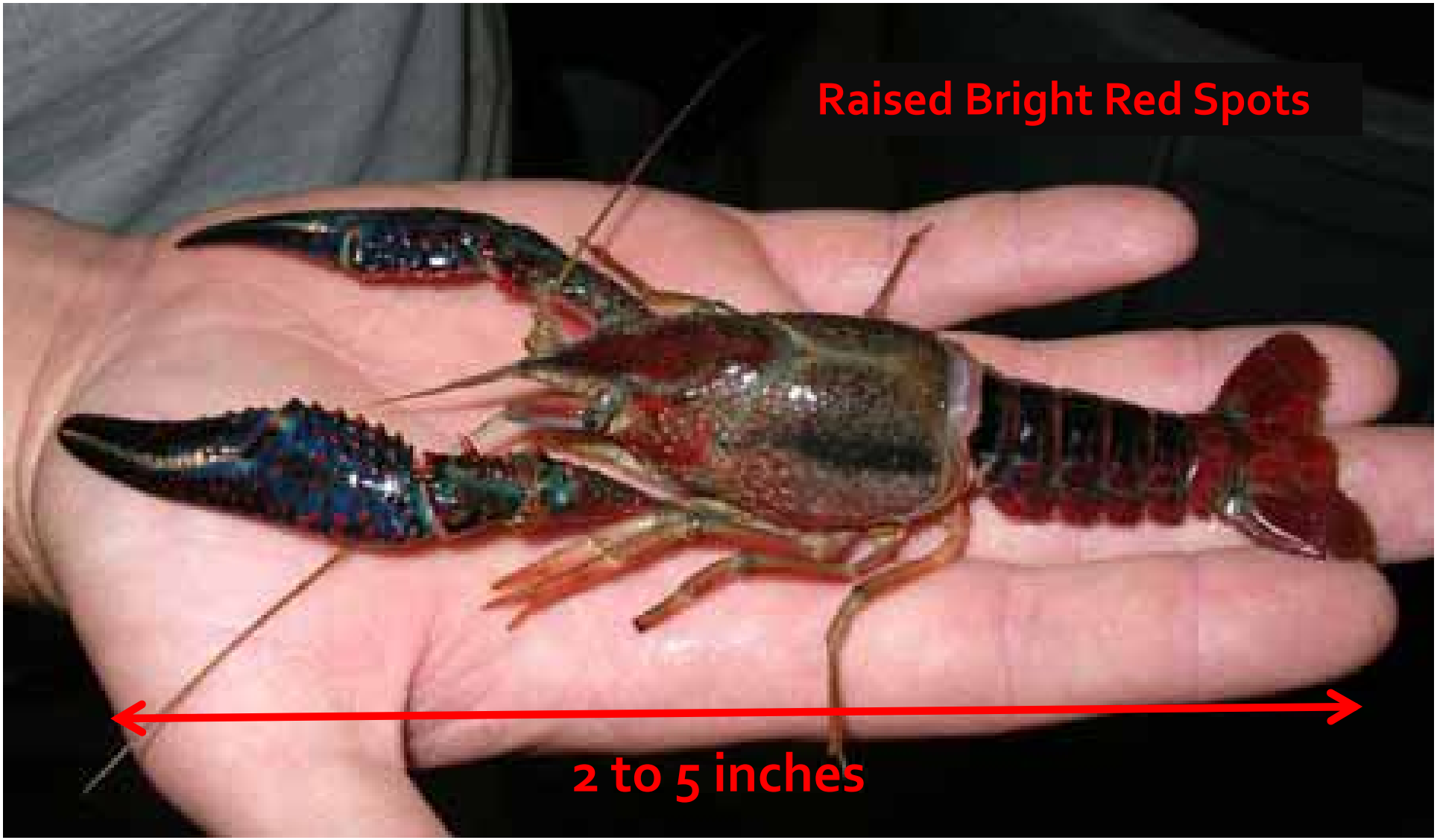


- Adults range from 1 to 2 inches in length
- Yellow-green to brown shells
- Thick concentric rings on the shell
- Top and bottom shells almost identical
- Shells are normally thick and hard to crush
- Inside of the shell ranges from white to purple/blue

Native fingernail clam

- Adults normally less than 1 inch in length
- Yellow-green to brown shells
- Thin or no concentric rings on the shell
- **Shells are normally thin and easy to crush**
- Inside of the shell is white.

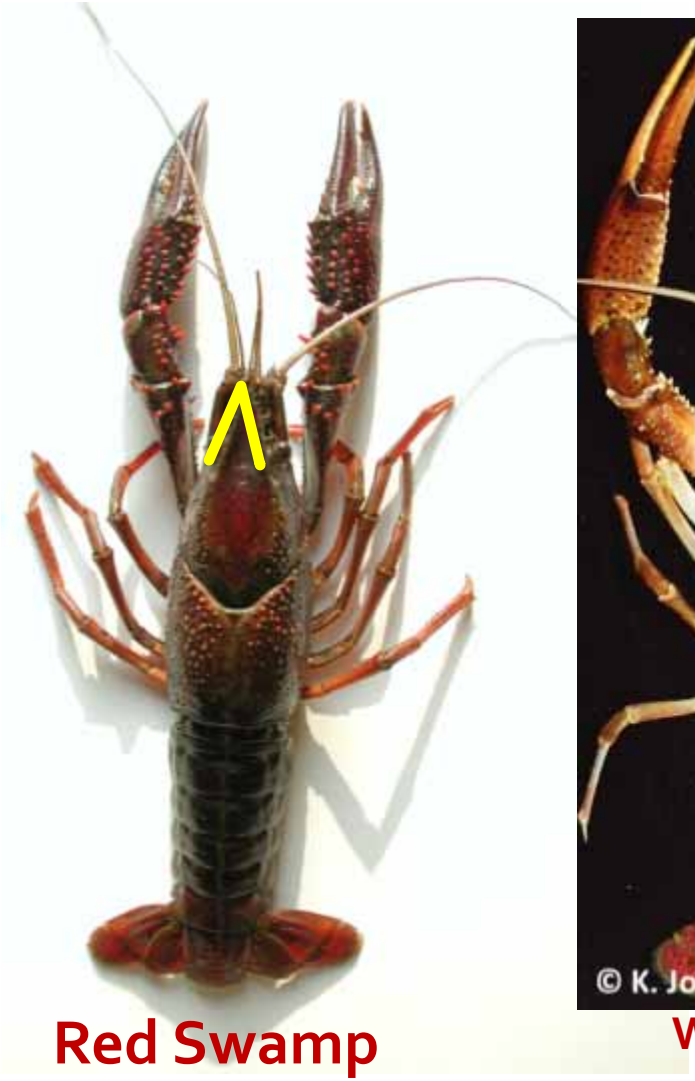
Louisiana Red Swamp Crayfish
(Procambarus clarkii)



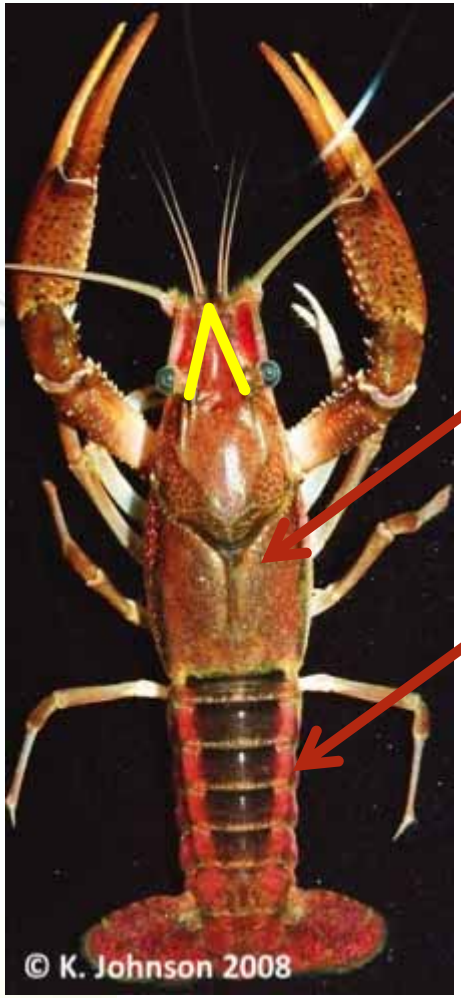
Omnivorous

- Aquatic plants
- Snails
- Insects
- Fish and amphibian eggs
- Young fish and amphibians

Identifying crayfish



Red Swamp



White River (native)

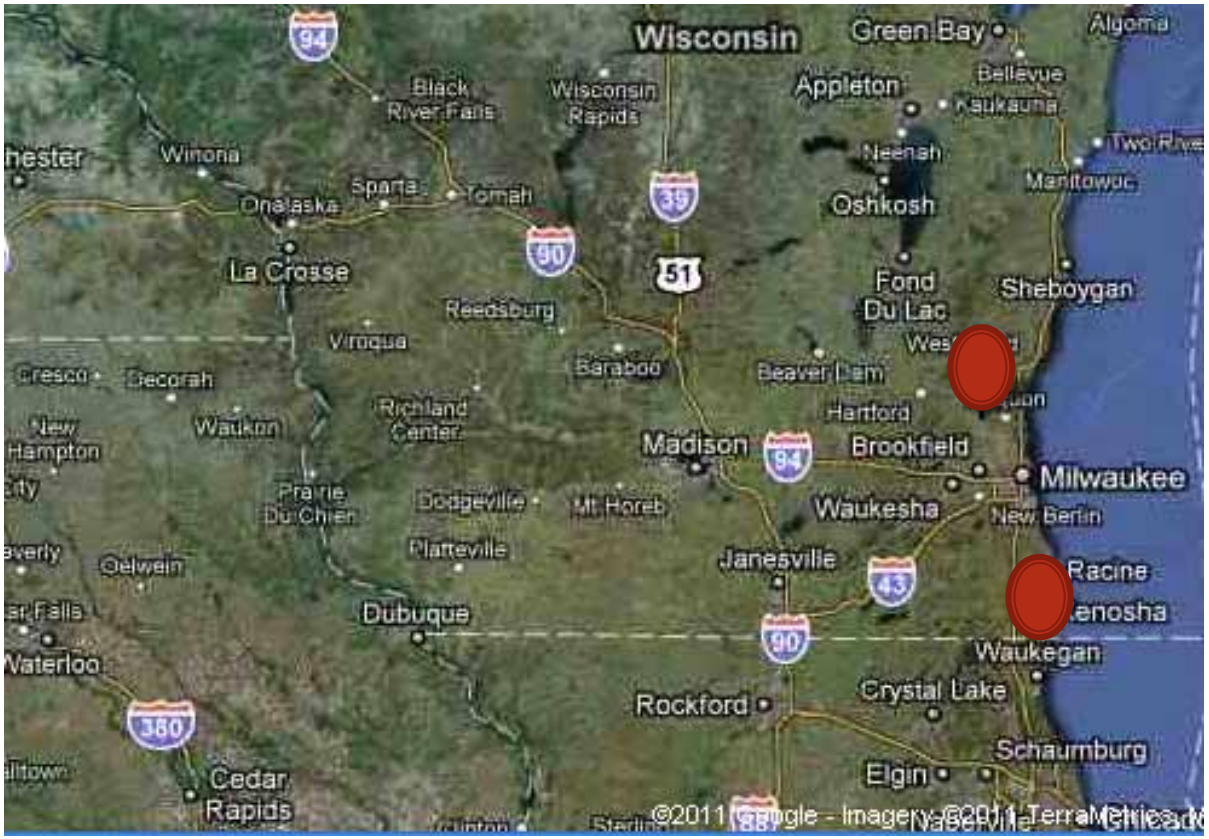
Slight gap between seams on back

Black strip on tail

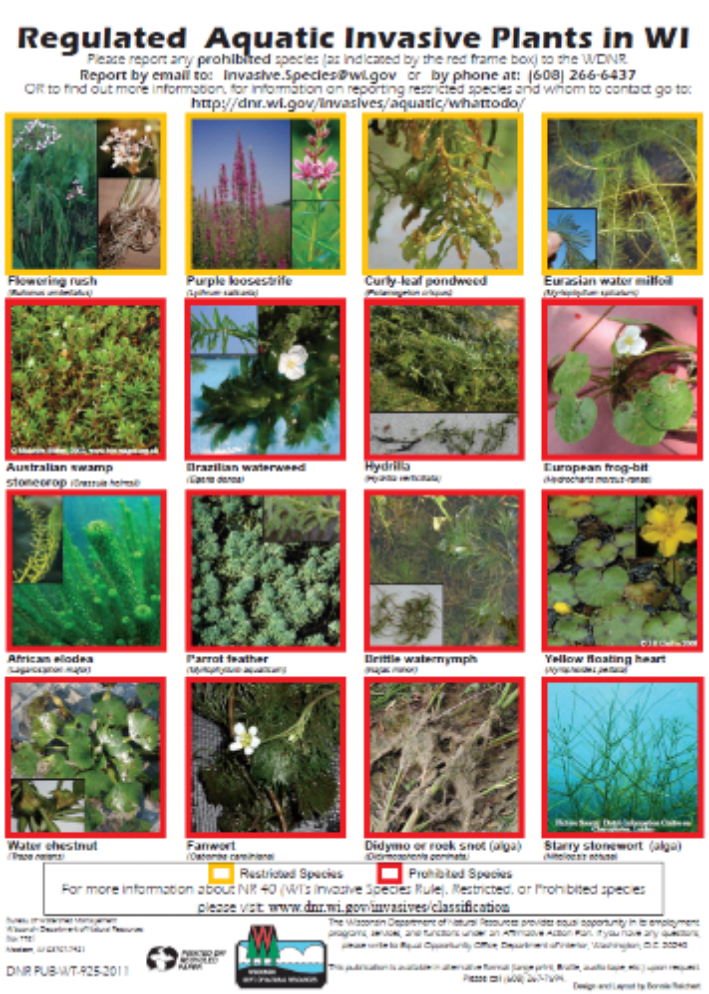
Rusty

Distribution of red swamp crayfish in Wisconsin

- Germantown and Kenosha
- Found in 2009



Other Species



Break

How to look for invasives:

- Canoeing/Kayaking
- Wading
- Driving Bridge Surveys

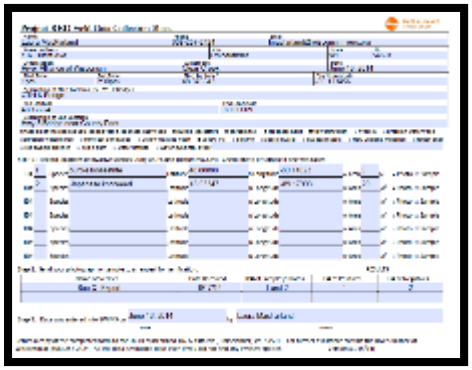
When to look for invasives:

MAY	JUNE	JULY	AUGUST	SEPTEMBER
curly-leaf pondweed snails and mussels didymo	flowering rush curly-leaf pondweed Eurasian water-milfoil snails and mussels didymo	purple loosestrife common reed Japanese hops flowering rush Eurasian water-milfoil hydrilla Brazilian waterweed snails and mussels didymo	Japanese knotweed purple loosestrife common reed Japanese hops flowering rush Eurasian water-milfoil hydrilla Brazilian waterweed snails and mussels didymo	Japanese knotweed purple loosestrife common reed Japanese hops hydrilla Brazilian waterweed snails and mussels Didymo

Where to look for invasives:

Boat Launches and Other Access Points

Reporting your Findings



1. Record a data point for each occurrence
2. Take a sample or photo
3. Fill out the datasheet
4. Submit for verification & entry

Recording Data in the Field

- GPS Locations are important
- GPS units are stored at technology libraries around the state.
- Smartphones can be used but coverage may vary

Technology Libraries - Borrow A GPS Unit

Wisconsin is fortunate to have citizens who care about our natural resources. There are several citizen-based monitoring (CBM) programs that use data collected by volunteers (for a list of programs, please check out the CBM website.) Technology libraries have been established throughout the state that lend one or more Garmin eTrex Legend GPS units to be used in monitoring any type of natural resource whether or not that monitoring is part of a CBM program. One benefit of becoming a member of a program is that they have protocols developed for monitoring specific resources (water, insects, reptiles, invasive plants, etc.). Here is a list of the technology library locations where GPS units are available:

Beaver Creek Reserve
Contact: Sarah Braun
51 County Hwy K
Fall Creek, WI 54742
(715) 877-2212
2 GPS units available

Calumet County Courthouse
Contact: Diane Schauer
206 Court Street
Chilton, WI 53014
(920) 849-2361
2 GPS units available

Door County S&WD
Contact: Bill Schuster
421 Nebraska Street
Sturgeon Bay, WI 54235
(920) 746-2214
1 GPS unit available

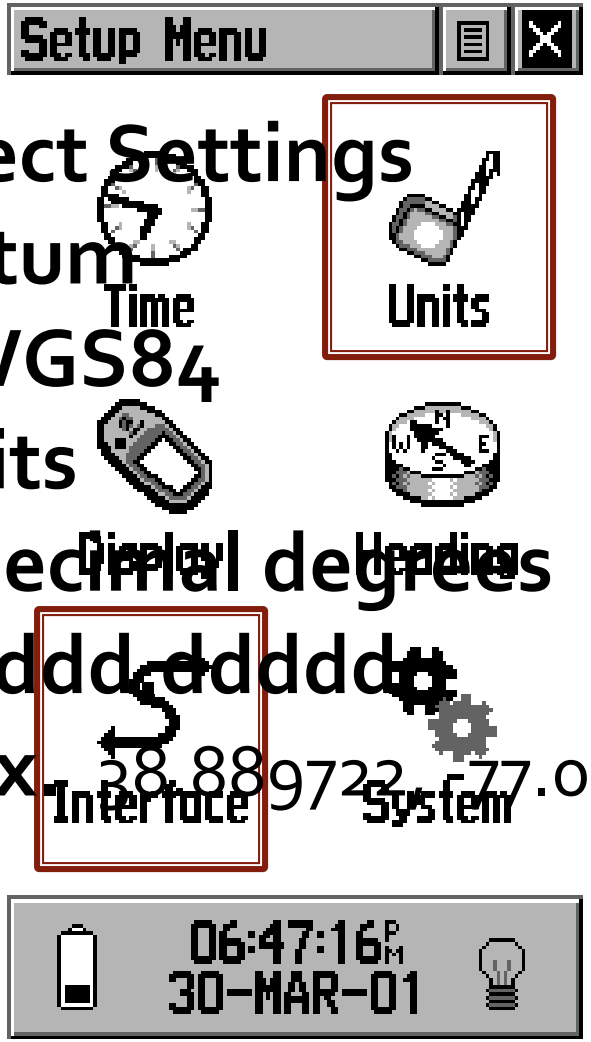
Gr. Sauk CWMA (UW-EX Baraboo)
Contact: John Esp
505 Broadway
Baraboo, WI 53913
(608) 355-3250
2 GPS units available

Kickapoo Valley Reserve
Contact: Sadie Urban
63661 State Hwy 131
LaFarge, WI 54639
(608) 625-2960
2 GPS units available

Lakeshore Nature Preserve
Contact: Cathy Brunet
1217 University Avenue
Madison, WI 53706
(608) 265-9275
2 GPS units available

Invasive Plant Association of Wisconsin
http://ipaw.org/TheSolution/Monitoring/GPSUnits.aspx

Using a GPS



Correct Settings

- Datum
  - WGS84
- Units
  - Decimal degrees
  - hddd.ddddd°
  - Ex. 38.889722, -77.008889

Project RED Field Data Collection Sheet

RIVER ALLIANCE of WISCONSIN

Name	Phone	Email

Street Address	City	State	Zip

Organization	Waterbody	Date

Start Time	End Time	Start Latitude[1]	Start Longitude

Description of Start Location (ex. CTH K Bridge)

End Latitude	End Longitude

Description of End Location

Check all of the species you looked for: ☐ Japanese knotweed ☐ purple loosestrife ☐ phragmites ☐ Japanese hops ☐ flowering rush ☐ hydrilla ☐ Brazilian waterweed ☐ Eurasian watermilfoil ☐ curlyleaf pondweed ☐ yellow floating heart ☐ yellow iris ☐ didymo ☐ zebra mussel ☐ quagga mussel ☐ New Zealand mudsnail ☐ faucet snail ☐ red swamp crayfish ☐ Asian clam ☐ water lettuce ☐ water hyacinth, other ____________

STEP 1: Record locations of invasive species using a GPS unit (datum WGS84). Check photo or sample if one was taken.

ID# ____ Species ____________ Latitude ________ N Longitude ________ W Area ____ M² ☐ Photo ☐ Sample

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ID# ____ Species ____________ Latitude ________ N Longitude ________ W Area ____ M² ☐ Photo ☐ Sample

Step 2: Send your photograph or sample to an expert for verification.

Name of Verifier	Date Received	ID# of Samples/Photos	RESULTS ID# of Positives	ID# of Negatives

Step 3: Data was entered into SWIMS on ____________ by ____________

Date Name

Return a copy of the completed form to the Laura MacFarland 107 Sutliff Ave., Rhinelander, WI 54501. For further assistance contact the River Alliance of Wisconsin at (608) 257-2424. All trip data is valuable to us even if you did not find any invasive species.

Version 3.0 (5/14)

Project RED Field Data Collection Sheet

RIVER ALLIANCE of WISCONSIN

Name	Phone	Email
Laura MacFarland	608-257-2424	lmacfarland@wisconsinrivers.org

Street Address	City	State	Zip
107 Sutliff Ave	Rhinelander	WI	54501

Organization	Waterbody	Date
River Alliance of Wisconsin	Clear Creek	June 16, 2014

Start Time	End Time	Start Latitude[1]	Start Longitude
1pm	2:30pm	48.876543	-89.123456

Description of Start Location (ex. CTH K Bridge)
CTH K Bridge

End Latitude	End Longitude
48.12224	-89.00009

Description of End Location
Hwy 8 Bridge near County Park

Check all of the species you looked for: ■ Japanese knotweed ■ purple loosestrife ■ phragmites ■ Japanese hops ■ flowering rush □ hydrilla □ Brazilian waterweed □ Eurasian watermilfoil □ curlyleaf pondweed □ yellow floating heart ■ yellow iris □ didymo □ zebra mussel □ quagga mussel □ New Zealand mudsnail □ faucet snail □ red swamp crayfish □ Asian clam □ water lettuce □ water hyacinth, other _____

STEP 1: Record locations of invasive species using a GPS unit (datum WGS84). Check photo or sample if one was taken.

	ID#	Species	Latitude	N Longitude	W Area	M^2	Photo	Sample
1	1	purple loosestrife	48.88888	-89.14823	5		■	□
2	2	Japanese knotweed	48.93347	-89.17998	20		■	□
3							□	□
4							□	□
5							□	□
6							□	□
7							□	□

Step 2: Send your photograph or sample to an expert for verification.

RESULTS

Name of Verifier	Date Received	ID# of Samples/Photos	ID# of Positives	ID# of Negatives
Sue Q. Expert	6/17/14	1 and 2	1	2

Step 3: Data was entered into SWIMS on June 18, 2014 (Date) by Laura MacFarland (Name)

Return a copy of the completed form to the Laura MacFarland 107 Sutliff Ave., Rhinelander, WI 54501. For further assistance contact the River Alliance of Wisconsin at (608) 257-2424. All trip data is valuable to us even if you did not find any invasive species.

Version 3.0 (5/14)

Collecting a Sample

PHOTOGRAPH

- Object for scale
- All parts
- Multiple pictures

SPECIMEN

- All parts
- 5 – 10 specimens
- Keep cool and damp

Verification (WDNR)

Milwaukee Area (Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, Waukesha)
Heidi Bunk, 262-574-2130, heidi.bunk@wi.gov
Green Bay Area (Marinette, Menominee, Oconto, Shawano)
Brenda Nordin, 920-662-5141, brenda.nordin@wi.gov
Green Bay Area (Brown, Calumet, Door, Fond Du Lac, Kewaunee, Manitowoc, Outagamie)
Mary Gansberg, 920-662-5489 mary.gansberg@wi.gov
Oshkosh Area (Green Lake, Marquette, Waupaca, Waushara, Winnebago)
Ted Johnson, 920-424-2104 tedm.johnson@wi.gov
Madison Area (Columbia, Dane, Dodge, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk)
Susan Graham, 608-275-3329, susan.graham@wi.gov
Woodruff Area (Iron, Vilas, Oneida)
Kevin Gauthier, 715-356-5211, kevin.gauthiersr@wi.gov
Rhinelander Area (Florence, Forest, Langlade, Lincoln, Price, Taylor)
Jim Kreitlow, 715-365-8947, james.kreitlow@wi.gov

Verification (WDNR)

Spooner Area (Ashland, Bayfield, Burnett, Douglas, Washburn)
Pamela Toshner, 715-635-4073, pamela.toshner@wi.gov
Spooner Area (Barron, Polk, Rusk, Sawyer)
Alex Smith, 715-635-4142, alex.smith@wi.gov
Eau Claire Area (Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, La Crosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood)
Jodi Lepsch, 715-838-8385, jodi.lepsch@wi.gov

Project RED Field Data Collection Sheet

RIVER ALLIANCE of WISCONSIN

Name	Phone	Email
Laura MacFarland	608-257-2424	lmacfarland@wisconsinrivers.org

Street Address	City	State	Zip
107 Sutliff Ave	Rhinelander	WI	54501

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2	Japanese knotweed	48.93347	-89.17998	20		■	□
						□	□
						□	□
						□	□
						□	□
						□	□

Step 2: Send your photograph or sample to an expert for verification.

RESULTS

Name of Verifier	Date Received	ID# of Samples/Photos	ID# of Positives	ID# of Negatives
Sue Q. Expert	6/17/14	1 and 2	1	2

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Version 3.0 (5/14)

We want to know where you monitored!

- Please complete a field data sheet and enter your data into SWIMS even if you did not find an invasive species
- Two Options for Datasheets:
  - Send to your Project RED Trainer or Statewide Coordinator
  - Enter into DNR SWIMS program yourself

Entering Data into SWIMS

Surface Water Integrated Monitoring System

Wisconsin Department of Natural Resources

Surface Water Integrated Monitoring System (SWIMS)

Enter your User ID and Password to sign in

User ID jwjonesRA

Password •••••••

Sign In

DNR Staff:

Log in with your Oracle ID and Password

Volunteers and Others:

Our log-in screen has changed. Log in with your Wisconsin User ID and Password above.

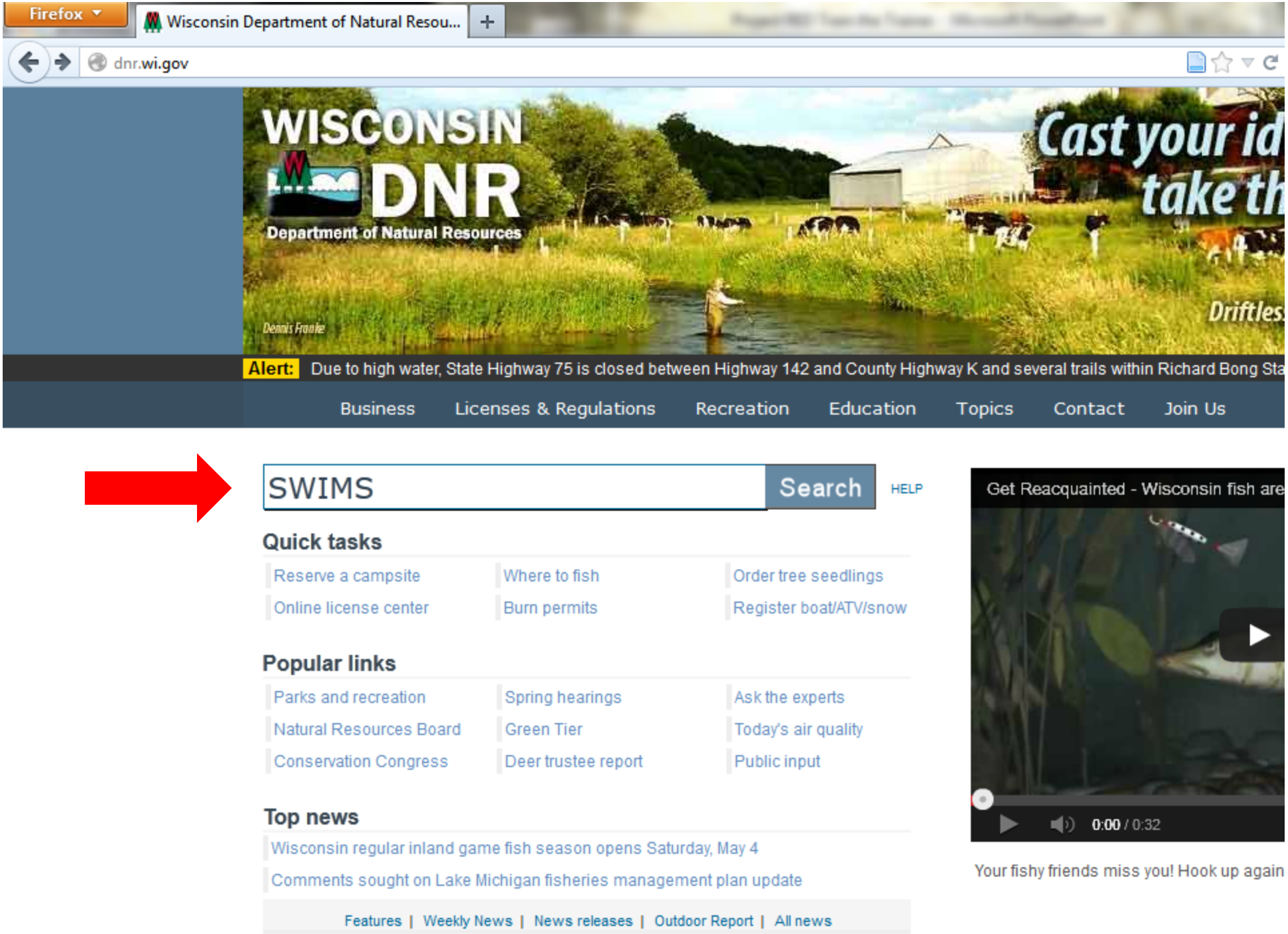
Forgot your password?

Get a Wisconsin User ID and Password

Get your WAMS ID and Password at
https://on.wisconsin.gov/WAMS/home

Before you can enter data….

- Self Registration
- Activate your account after you receive and email from www.wisconsin.gov
- EMAIL aperdzock@wisconsinrivers.org
  - Let her know that you will be contributing Project RED data
  - Provide her with your USER ID


Firefox
Wisconsin Department of Natural Resou...
dnr.wi.gov
WISCONSIN DNR
Department of Natural Resources
Cast your id
take th
Driftles
Dennis Frankie
Alert: Due to high water, State Highway 75 is closed between Highway 142 and County Highway K and several trails within Richard Bong Sta
Business
Licenses & Regulations
Recreation
Education
Topics
Contact
Join Us
SWIMS
Search
HELP
Quick tasks
Reserve a campsite
Where to fish
Order tree seedlings
Online license center
Burn permits
Register boat/ATV/snow
Popular links
Parks and recreation
Spring hearings
Ask the experts
Natural Resources Board
Green Tier
Today's air quality
Conservation Congress
Deer trustee report
Public input
Top news
Wisconsin regular inland game fish season opens Saturday, May 4
Comments sought on Lake Michigan fisheries management plan update
Features | Weekly News | News releases | Outdoor Report | All news
Get Reacquainted - Wisconsin fish are
0:00 / 0:32
Your fishy friends miss you! Hook up again

Firefox | Surface Water Integrated Monitoring Sys... | +

dnr.wi.gov/topic/surfacewater/swims/

Business | Licenses & Regulations | Recreation | Education | Topics | Contact | Join Us | Se

Surface Water Integrated Monitoring System (SWIMS)

Welcome to the Surface Water Integrated Monitoring System (SWIMS), a Wisconsin DNR information system that holds chemistry (water, sediment), physical, and biological (macroinvertebrate, aquatic invasives) data.

SWIMS is the state´s repository for water and sediment monitoring data collected for Clean Water Act work and is the source of data sharing through the federal Water Quality Exchange Network [Exit DNR]. DNR Fisheries and Water Quality Biologists use the system to locate monitoring stations, providing a gateway to final, reviewed fisheries management datasets housed at the U.S. Geological Survey. SWIMS is also the data system that citizen volunteers use to document water monitoring results for our state´s lakes, streams and wetlands.

Little St.Germain Lake, L. Helmuth

Access the system

General SWIMS Users log in here with your WAMS ID and Password. Questions? Email Molli MacDonald

Citizen Based Stream and Lakes Volunteer Monitors used SWIMS to record their data since 2007!! For more information about these outstanding monitoring programs see the links below. A special note: When entering your Citizen Lake Monitoring data online, please use our new address: http://dnr.wi.gov/lakes/clmn-data.

SWI
SWI
About
SWI
Projec
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Surf
Launc
Grea
Beach
and d
Rive
Statio
Wetl
Wetla
Aqua
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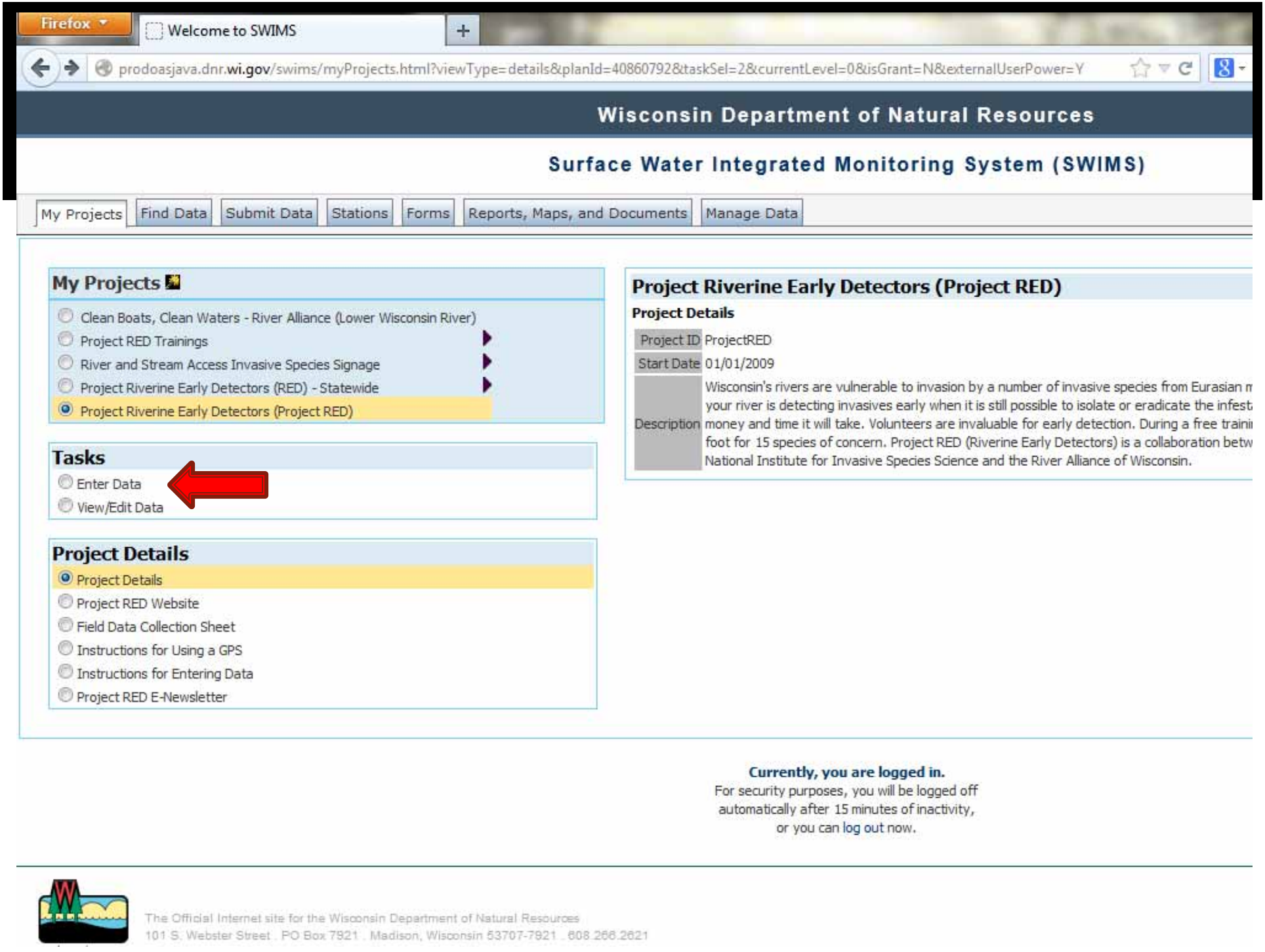
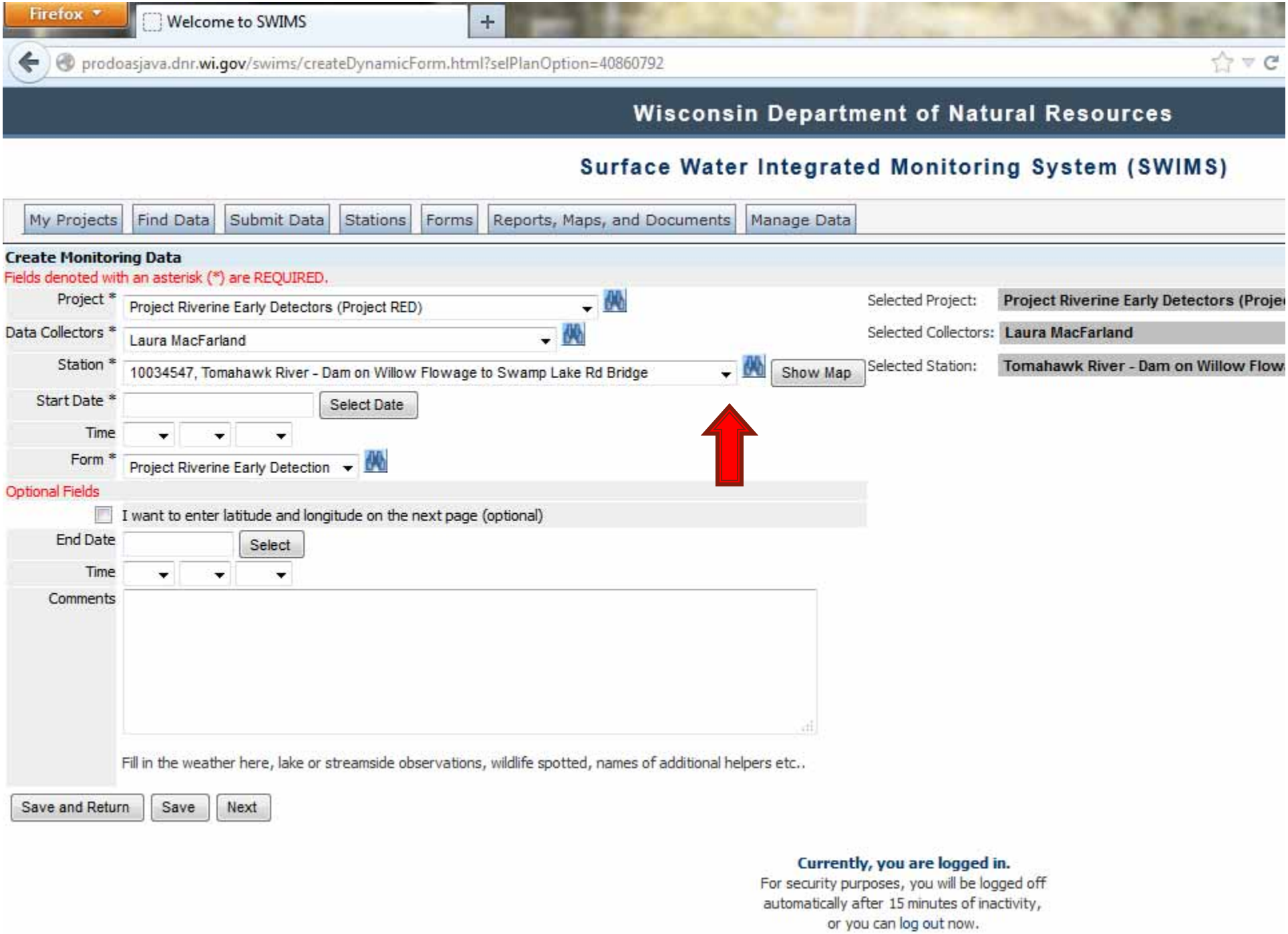
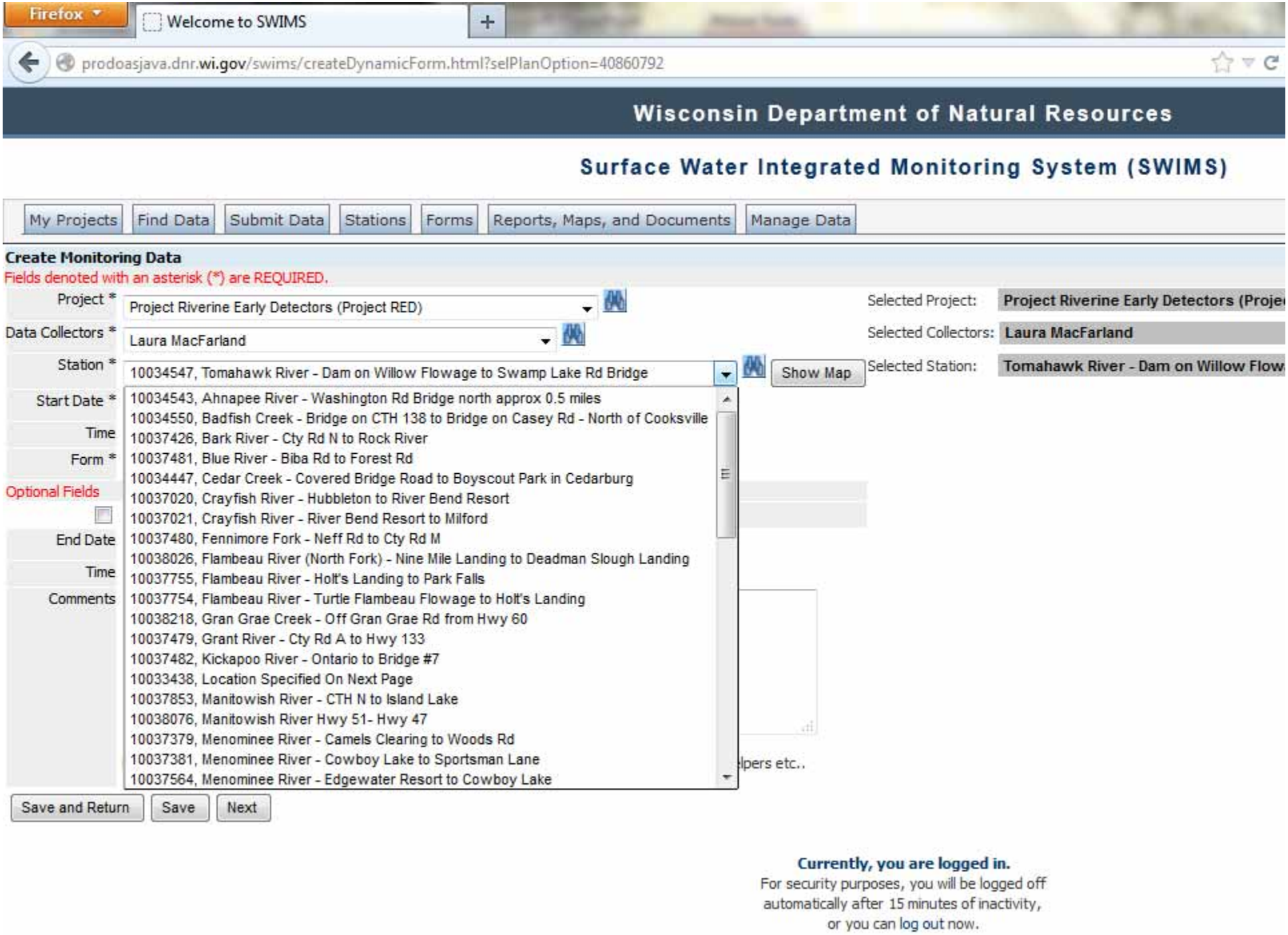
Water


Firefox
Welcome to SWIMS
prodoasjava.dnr.wi.gov/swims/myProjects.html?viewType=details&planId=40860792&taskSel=2&currentLevel=0&isGrant=N&externalUserPower=Y
Wisconsin Department of Natural Resources
Surface Water Integrated Monitoring System (SWIMS)
My Projects
Find Data
Submit Data
Stations
Forms
Reports, Maps, and Documents
Manage Data
My Projects
Clean Boats, Clean Waters - River Alliance (Lower Wisconsin River)
Project RED Trainings
River and Stream Access Invasive Species Signage
Project Riverine Early Detectors (RED) - Statewide
Project Riverine Early Detectors (Project RED)
Tasks
Enter Data
View/Edit Data
Project Details
Project Details
Project RED Website
Field Data Collection Sheet
Instructions for Using a GPS
Instructions for Entering Data
Project RED E-Newsletter
Project Riverine Early Detectors (Project RED)
Project Details
Project ID ProjectRED
Start Date 01/01/2009
Description Wisconsin's rivers are vulnerable to invasion by a number of invasive species from Eurasian m
your river is detecting invasives early when it is still possible to isolate or eradicate the infest
money and time it will take. Volunteers are invaluable for early detection. During a free traini
foot for 15 species of concern. Project RED (Riverine Early Detectors) is a collaboration betw
National Institute for Invasive Species Science and the River Alliance of Wisconsin.
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.
The Official Internet site for the Wisconsin Department of Natural Resources
101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621


Firefox
Welcome to SWIMS
prodoasjava.dnr.wi.gov/swims/createDynamicForm.html?selPlanOption=40860792
Wisconsin Department of Natural Resources
Surface Water Integrated Monitoring System (SWIMS)
My Projects
Find Data
Submit Data
Stations
Forms
Reports, Maps, and Documents
Manage Data
Create Monitoring Data
Fields denoted with an asterisk (*) are REQUIRED.
Project *
Project Riverine Early Detectors (Project RED)
Data Collectors *
Laura MacFarland
Station *
10034547, Tomahawk River - Dam on Willow Flowage to Swamp Lake Rd Bridge
Show Map
Start Date *
Select Date
Time
Form *
Project Riverine Early Detection
Optional Fields
I want to enter latitude and longitude on the next page (optional)
End Date
Select
Time
Comments
Fill in the weather here, lake or streamside observations, wildlife spotted, names of additional helpers etc..
Save and Return
Save
Next
Selected Project:
Project Riverine Early Detectors (Proje
Selected Collectors:
Laura MacFarland
Selected Station:
Tomahawk River - Dam on Willow Flow
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.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Selected Project:
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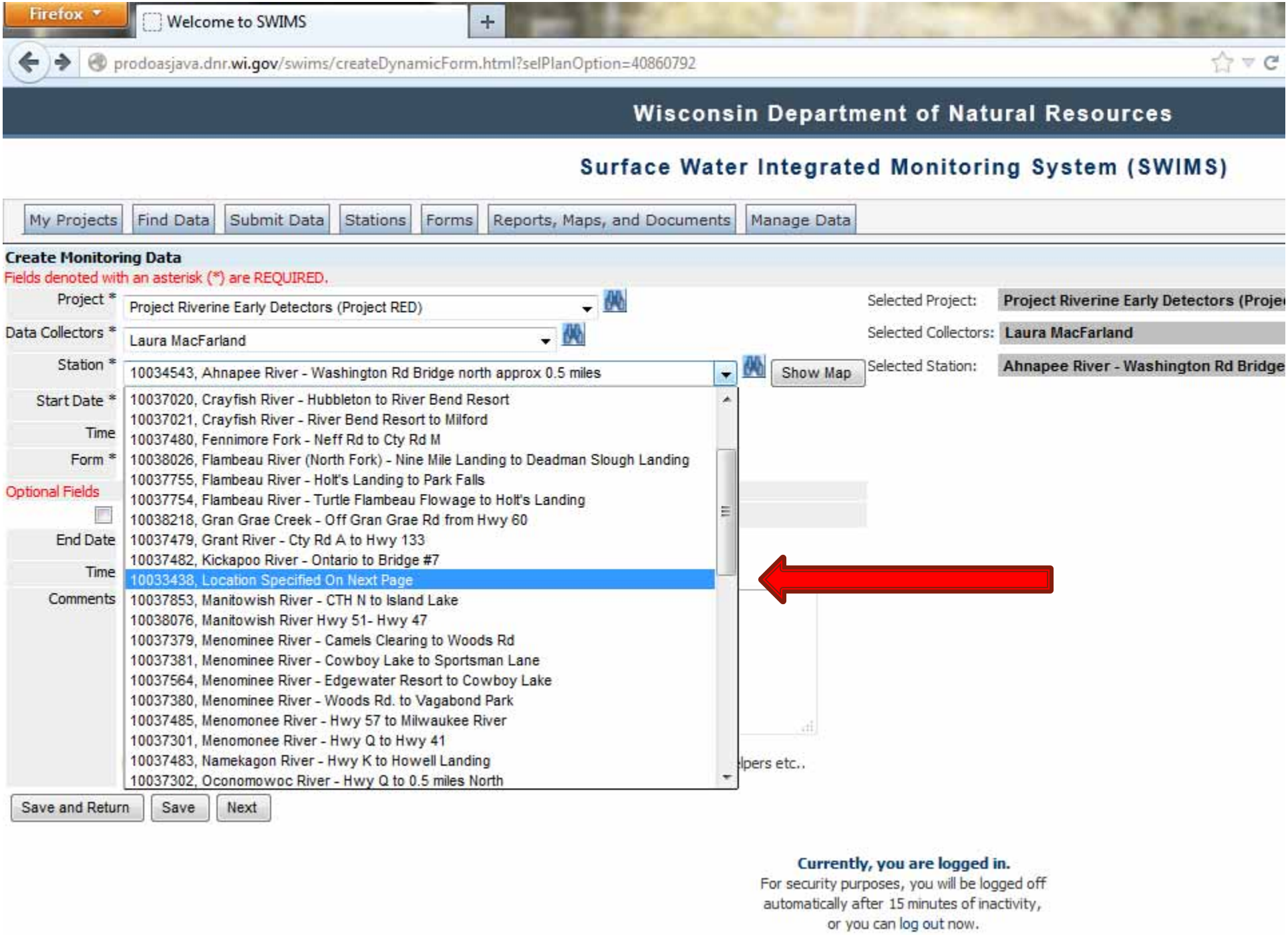
Data Collectors *
Laura MacFarland
Selected Collectors:
Laura MacFarland
Station *
10034547, Tomahawk River - Dam on Willow Flowage to Swamp Lake Rd Bridge
Show Map
Selected Station:
Tomahawk River - Dam on Willow Flow
Start Date *
Time
Form *
Optional Fields
End Date
Time
Comments
10034543, Ahnapee River - Washington Rd Bridge north approx 0.5 miles
10034550, Badfish Creek - Bridge on CTH 138 to Bridge on Casey Rd - North of Cooksville
10037426, Bark River - Cty Rd N to Rock River
10037481, Blue River - Biba Rd to Forest Rd
10034447, Cedar Creek - Covered Bridge Road to Boyscout Park in Cedarburg
10037020, Crayfish River - Hubbleton to River Bend Resort
10037021, Crayfish River - River Bend Resort to Milford
10037480, Fennimore Fork - Neff Rd to Cty Rd M
10038026, Flambeau River (North Fork) - Nine Mile Landing to Deadman Slough Landing
10037755, Flambeau River - Holt's Landing to Park Falls
10037754, Flambeau River - Turtle Flambeau Flowage to Holt's Landing
10038218, Gran Grae Creek - Off Gran Grae Rd from Hwy 60
10037479, Grant River - Cty Rd A to Hwy 133
10037482, Kickapoo River - Ontario to Bridge #7
10033438, Location Specified On Next Page
10037853, Manitowish River - CTH N to Island Lake
10038076, Manitowish River Hwy 51- Hwy 47
10037379, Menominee River - Camels Clearing to Woods Rd
10037381, Menominee River - Cowboy Lake to Sportsman Lane
10037564, Menominee River - Edgewater Resort to Cowboy Lake
lpers etc..
Save and Return
Save
Next
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.


Firefox
Welcome to SWIMS
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Wisconsin Department of Natural Resources
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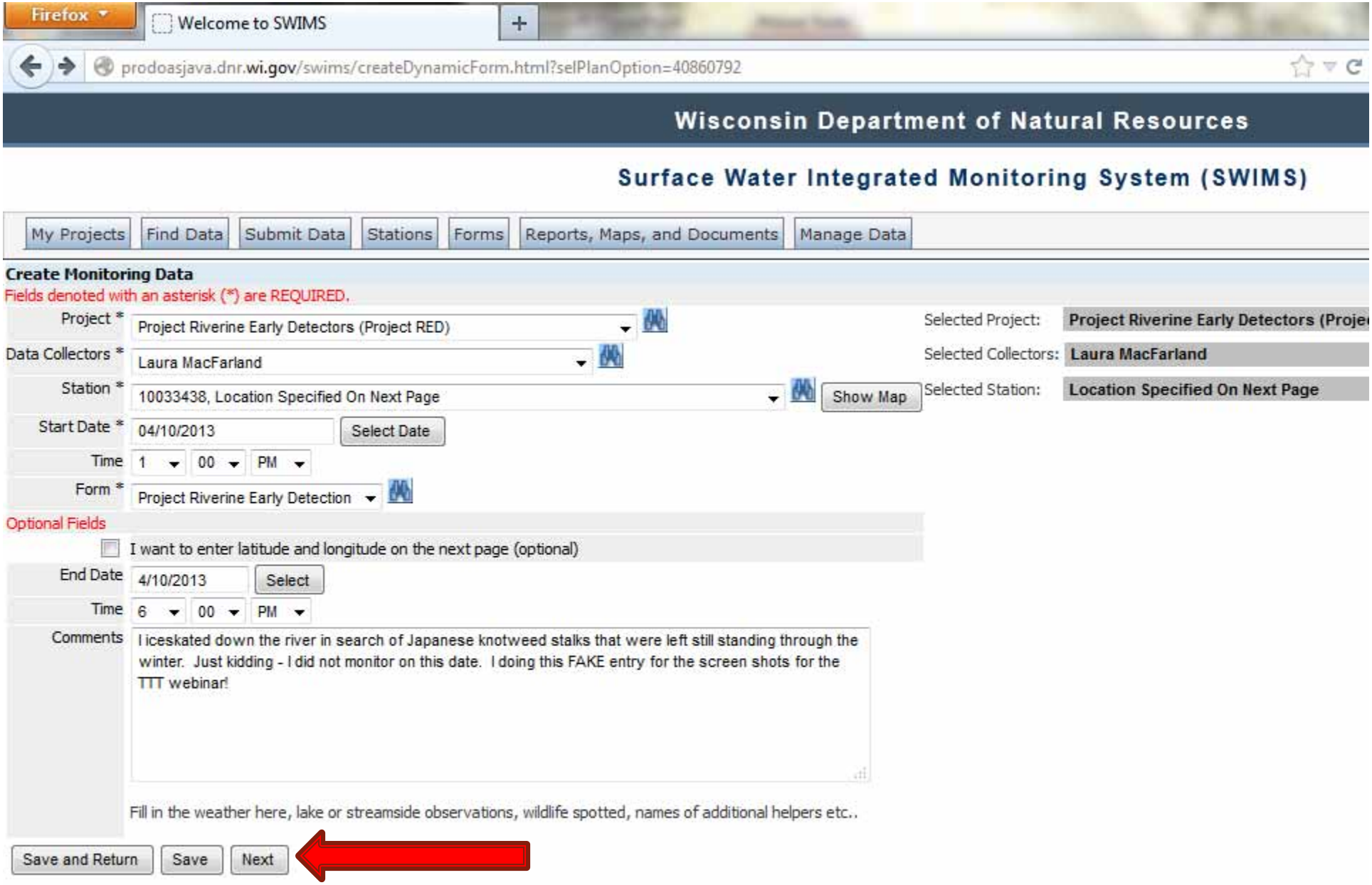
Fields denoted with an asterisk (*) are REQUIRED.
Project *
Project Riverine Early Detectors (Project RED)
Selected Project:
Project Riverine Early Detectors (Proje
Data Collectors *
Laura MacFarland
Selected Collectors:
Laura MacFarland
Station *
10034543, Ahnapee River - Washington Rd Bridge north approx 0.5 miles
Show Map
Selected Station:
Ahnapee River - Washington Rd Bridge
Start Date *
Time
Form *
Optional Fields
End Date
Time
Comments
10037020, Crayfish River - Hubbleton to River Bend Resort
10037021, Crayfish River - River Bend Resort to Milford
10037480, Fennimore Fork - Neff Rd to Cty Rd M
10038026, Flambeau River (North Fork) - Nine Mile Landing to Deadman Slough Landing
10037755, Flambeau River - Holt's Landing to Park Falls
10037754, Flambeau River - Turtle Flambeau Flowage to Holt's Landing
10038218, Gran Grae Creek - Off Gran Grae Rd from Hwy 60
10037479, Grant River - Cty Rd A to Hwy 133
10037482, Kickapoo River - Ontario to Bridge #7
10033438, Location Specified On Next Page
10037853, Manitowish River - CTH N to Island Lake
10038076, Manitowish River Hwy 51- Hwy 47
10037379, Menominee River - Camels Clearing to Woods Rd
10037381, Menominee River - Cowboy Lake to Sportsman Lane
10037564, Menominee River - Edgewater Resort to Cowboy Lake
10037380, Menominee River - Woods Rd. to Vagabond Park
10037485, Menomonee River - Hwy 57 to Milwaukee River
10037301, Menomonee River - Hwy Q to Hwy 41
10037483, Namekagon River - Hwy K to Howell Landing
10037302, Oconomowoc River - Hwy Q to 0.5 miles North
lpers etc..
Save and Return
Save
Next
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.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Wisconsin Department of Natural Resources
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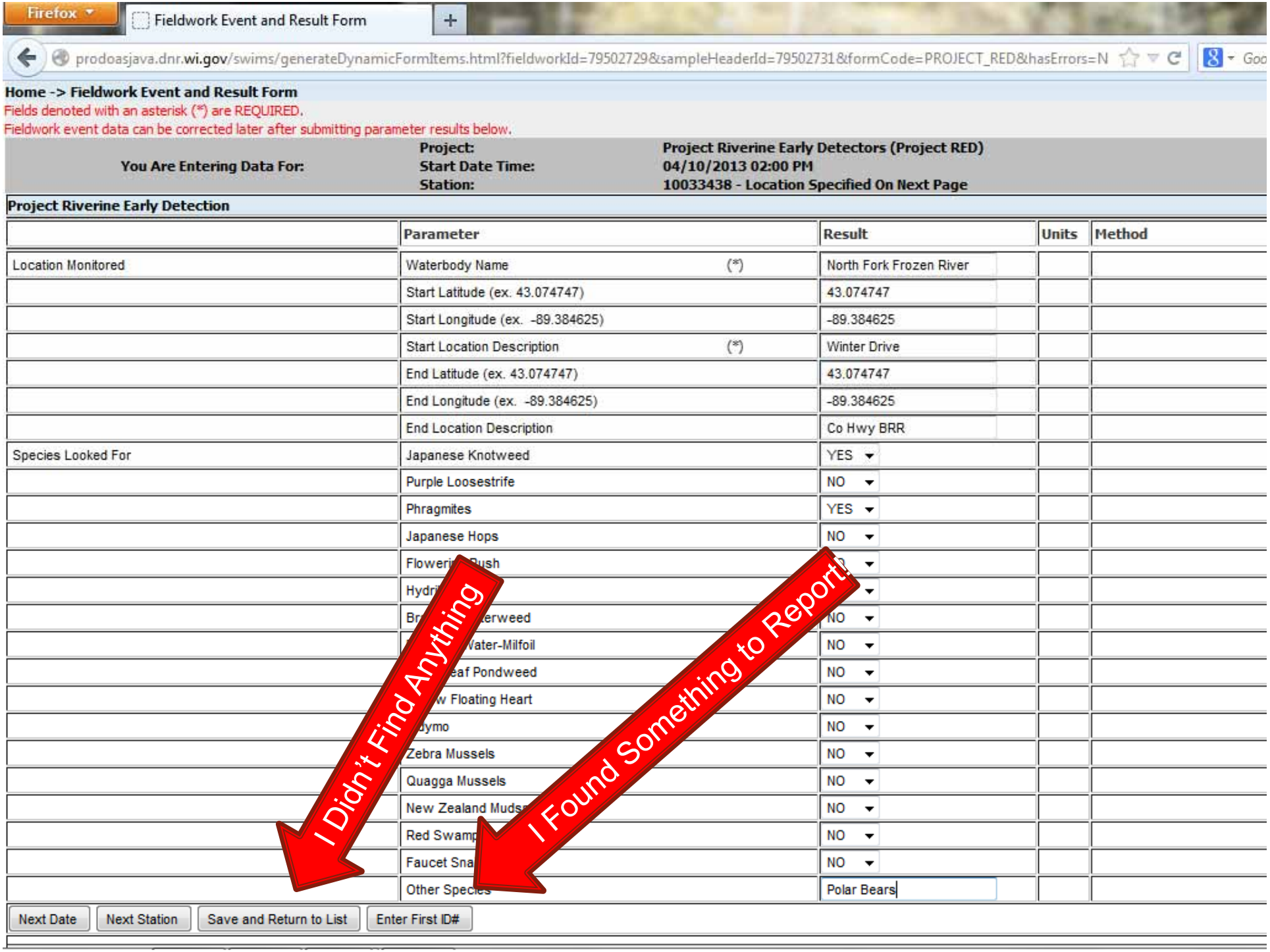
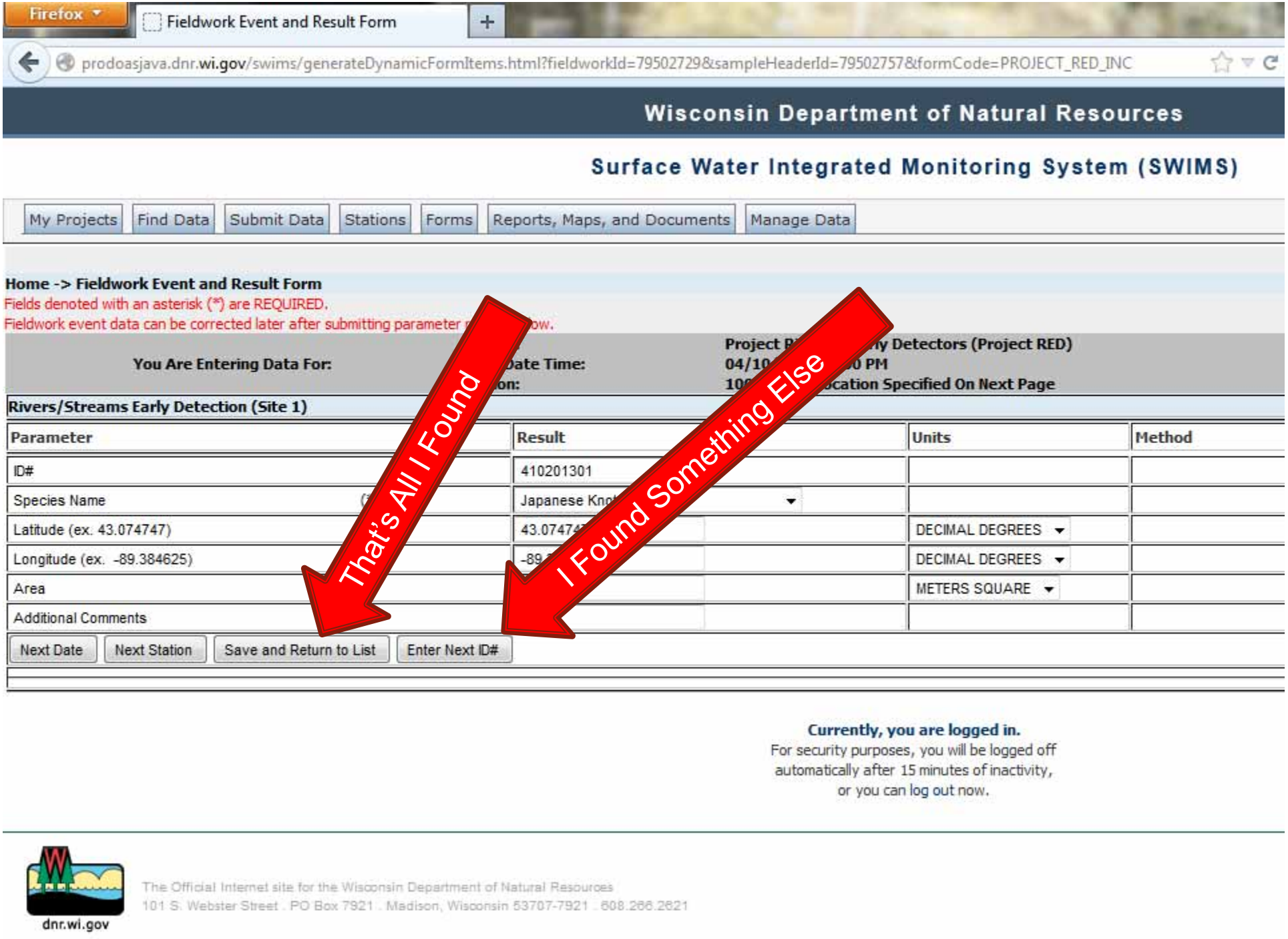
Project *
Project Riverine Early Detectors (Project RED)
Selected Project:
Project Riverine Early Detectors (Proje
Data Collectors *
Laura MacFarland
Selected Collectors:
Laura MacFarland
Station *
10033438, Location Specified On Next Page
Show Map
Selected Station:
Location Specified On Next Page
Start Date *
04/10/2013
Select Date
Time
1
00
PM
Form *
Project Riverine Early Detection
Optional Fields
I want to enter latitude and longitude on the next page (optional)
End Date
4/10/2013
Select
Time
6
00
PM
Comments
I iceskated down the river in search of Japanese knotweed stalks that were left still standing through the winter. Just kidding - I did not monitor on this date. I doing this FAKE entry for the screen shots for the TTT webinar!
Fill in the weather here, lake or streamside observations, wildlife spotted, names of additional helpers etc..
Save and Return
Save
Next
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.


Firefox
Fieldwork Event and Result Form
prodoasjava.dnr.wi.gov/swims/generateDynamicFormItems.html?fieldworkId=79502729&sampleHeaderId=79502731&formCode=PROJECT_RED&hasErrors=N
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: Project Riverine Early Detectors (Project RED)
Start Date Time: 04/10/2013 02:00 PM
Station: 10033438 - Location Specified On Next Page
Project Riverine Early Detection
Parameter
Result
Units
Method
Location Monitored
Waterbody Name (*) North Fork Frozen River
Start Latitude (ex. 43.074747) 43.074747
Start Longitude (ex. -89.384625) -89.384625
Start Location Description (*) Winter Drive
End Latitude (ex. 43.074747) 43.074747
End Longitude (ex. -89.384625) -89.384625
End Location Description Co Hwy BRR
Species Looked For
Japanese Knotweed YES
Purple Loosestrife NO
Phragmites YES
Japanese Hops NO
NO
NO
NO
NO
NO
NO
NO
NO
Zebra Mussels NO
Quagga Mussels NO
NO
NO
NO
Other Species Polar Bears
I Didn't Find Anything
I Found Something to Report!
Next Date
Next Station
Save and Return to List
Enter First ID#


Firefox
Fieldwork Event and Result Form
prodoasjava.dnr.wi.gov/swims/generateDynamicFormItems.html?fieldworkId=79502729&sampleHeaderId=79502757&formCode=PROJECT_RED_INC
Wisconsin Department of Natural Resources
Surface Water Integrated Monitoring System (SWIMS)
My Projects
Find Data
Submit Data
Stations
Forms
Reports, Maps, and Documents
Manage Data
Home -> Fieldwork Event and Result Form
Fields denoted with an asterisk (*) are REQUIRED.
Fieldwork event data can be corrected later after submitting parameter
You Are Entering Data For:
Rivers/Streams Early Detection (Site 1)
Parameter
Result
Units
Method
ID#
410201301
Species Name
Latitude (ex. 43.074747)
DECIMAL DEGREES
Longitude (ex. -89.384625)
DECIMAL DEGREES
Area
METERS SQUARE
Additional Comments
Next Date
Next Station
Save and Return to List
Enter Next ID#
That's All I Found
I Found Something Else
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.
dnr.wi.gov
The Official Internet site for the Wisconsin Department of Natural Resources
101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Success Story: Taking Action

Friends of Badfish found this stand of Japanese Knotweed at Riley Rd.

Educated landowner, DNR, and community

Cut and burned dead material

Cut twice; sprayed once or injected

Native Planting

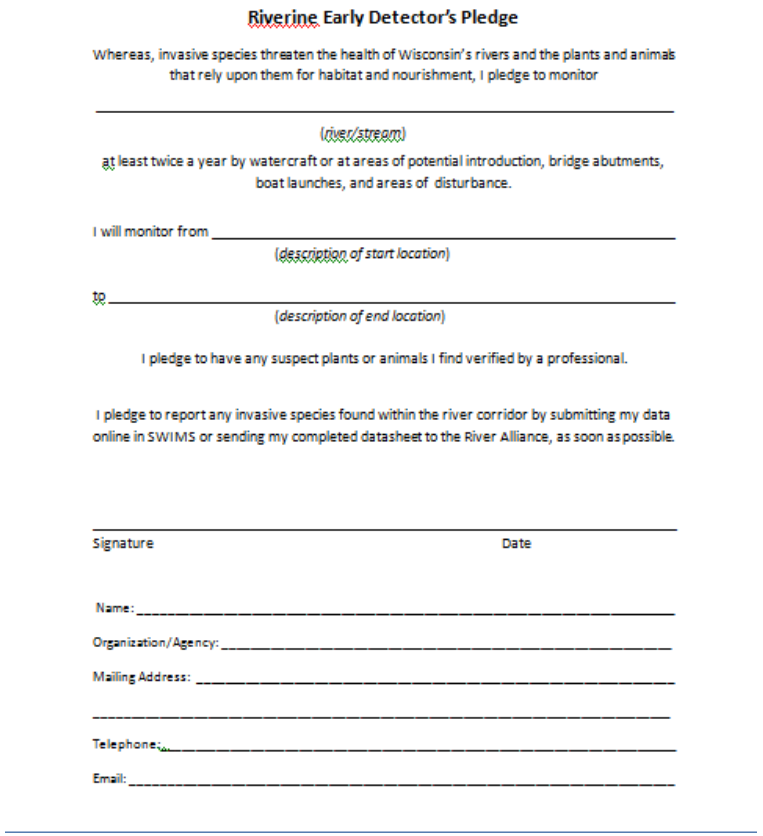
1200 Native Grass Plugs

Prevent the Spread

INSPECT, CLEAN & DRY
BAG ANY SPECIMENS IMMEDIATELY
WORK DOWNSTREAM
LOSE THE FELT SOLED BOOTS

Pledge

- Pledge to monitor a river or stream this year
- Complete this form and turn it in prior to leaving
- You will receive it in the mail reminding you to get out on the water!



Riverine Early Detector's Pledge

Whereas, invasive species threaten the health of Wisconsin's rivers and the plants and animals that rely upon them for habitat and nourishment, I pledge to monitor

_____

(river/stream)

at least twice a year by watercraft or at areas of potential introduction, bridge abutments, boat launches, and areas of disturbance.

I will monitor from _____

(description of start location)

to _____

(description of end location)

I pledge to have any suspect plants or animals I find verified by a professional.

I pledge to report any invasive species found within the river corridor by submitting my data online in SWIMS or sending my completed datasheet to the River Alliance, as soon as possible.

_____

Signature Date

Name: _____

Organization/Agency: _____

Mailing Address: _____

_____

Telephone: _____

Email: _____

Training Survey

- **Your feedback is of great value!**
- **Please take a few minutes to fill out the form provided, so that we can improve this free service.**

THANK YOU!

Amanda Perdzock

(608) 257-2424 x111

aperdzock@wisconsinrivers.org

www.wisconsinrivers.org

RIVER ALLIANCE of WISCONSIN