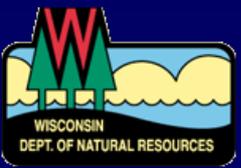


# Implementing the New Invasive Species Laws

Presented by  
Bob Wakeman  
DNR Aquatic Invasive Species  
Coordinator



Spring 2010

# Education & Outreach Support

- Statewide message
- Publications & boat launch signs
- Displays & presentations
- Media
  - TV, Radio, Newspaper, Bill boards, etc.



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Prevent the transport of nuisance species.  
Clean all recreational equipment.  
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# Watercraft Inspection

- Clean Boats, Clean Waters
  - volunteers trained to monitor local lakes
  - DNR inspection program
  - staff monitor high traffic landings, lakes with invasive species
- Water Guard
- Contact: *Erin Henegar*



# WI Water Guard



# Volunteer Monitoring

- Trained volunteers collect data on lake health including aquatic invasives
- Data used to map extent of spread for species
- **Contact:** *Laura Herman*



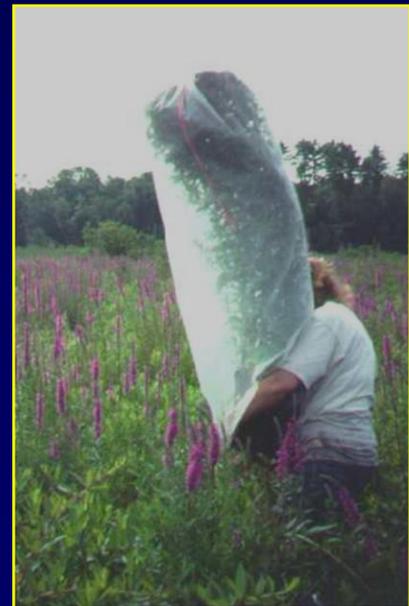
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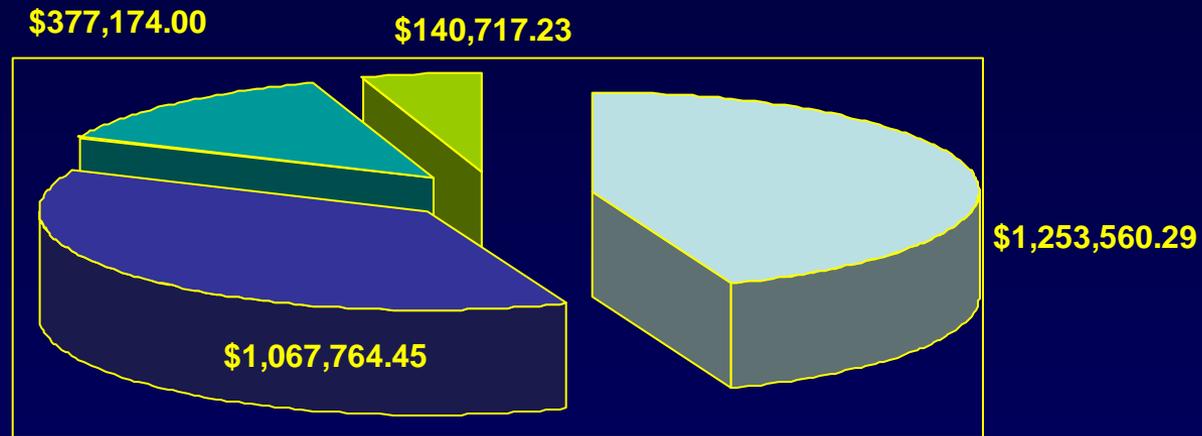
# Purple Loosestrife Biological Control

- Trained volunteers raise & release beetles
- Beetles available for free—great school or family project
- **Contact:** *Brock Woods*



# Aquatic Invasive Species Grants

FY09 Fall Grant Funding Cycle



\$4 million available annually

■ Prevention

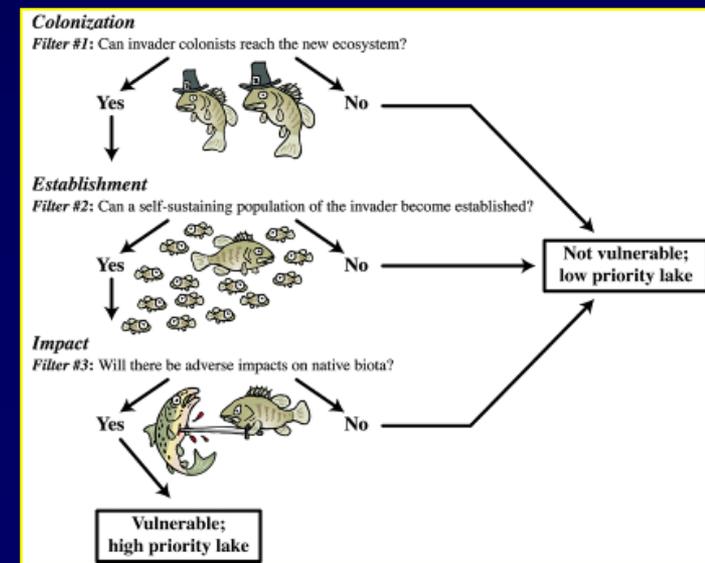
■ Control Infestation

■ Research & Demonstration

■ Early Detection & Response

# From Research to Management

- UW Madison Center for Limnology developing “Smart Prevention” model
- Model helps DNR make strategic management decisions
- ACOE conducting research on low level chemical treatments for EWM
- Community based market research



# Smart Prevention

- Bringing together lake user organizations with political and business leaders to develop a plan to maximize containment and prevention of AIS in a region
- Available tools
  - CBCW Program
  - CLMN
  - Boat Wash Facilities
  - Signs (Boat launch, billboards, etc.)
  - Water Guard
  - Media Blitz

# Wisconsin's AIS Laws

- **Preventing the spread**
  - *VHS (viral hemorrhagic septicemia) 2007*
  - *Invasive Species Identification, Classification and Control (NR 40) 2009*
  - *Wisconsin Act 55 (Illegal to transport AIS on highways) 2009*



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# What is an “Invasive Species”?

- Nonnative species whose introduction causes or is likely to cause economic or environmental harm or harm to human health (Wisconsin Statutes 23.22)
  - Plants (terrestrial and aquatic)
  - Animals (vertebrates and invertebrates)
  - Disease-causing organisms

# Why do we care?

- **Economic impacts**
  - Fishing industry, tourism, property values
- **Ecological impacts**
  - Native fish, invertebrates, plants
- **Recreational impacts**
  - Boating, angling, swimming

**Whats the key message?...**



# Prevention vs. Restoration

Prevention is always cheaper than restoration.



# NR 40 Invasive Species Classification

- **Prohibited**

- Not yet in the state or established in pioneer stands only; still have potential to eradicate and prevent statewide; high potential for environmental damage if widely established.

- **Restricted**

- Already established in the state; high environmental impacts.



# Prohibited also includes:

- All nonnative fish and crayfish except:

- Established nonnative fish and crayfish
- Fish in the aquarium trade
- Fish in the aquaculture trade

} Restricted

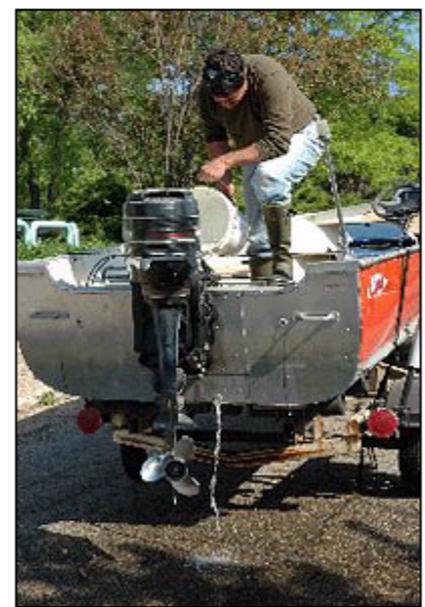
**We'll see an example of this later on.**

## Preventive Measures in Chapter NR 40

People are required to take preventive measures to avoid spreading invasive species.

### Aquatics

- Notify the department of the escape of restricted invasive fish species from a safe facility
- Remove all attached aquatic plants and aquatic animals from vehicles, boats, trailers, equipment and gear of any type immediately upon their removal from the water
- Drain all water from any vehicle, equipment other than boating or fishing equipment, or gear of any type immediately upon its removal from the water
- Remove all attached aquatic plants and aquatic animals from vehicles, boats, trailers, equipment and gear of any type before bringing it into the state over land for use on any water of the state or its bank or shore
- drain all water from any vehicle, equipment other than boating or fishing equipment, or gear of any type before bringing it into the state over land for use on any water of the state or its bank or shore
- Remove attached aquatic plants and aquatic animals from any vehicle, certain boats, boat trailers, and equipment, and gear of any type or from a sea plane before placing it in any water of the state, and before taking off in a seaplane



Draining the boat

# Control by classification

- **Restricted**
  - Control encouraged but not required.
- **Prohibited**
  - The department will seek control of prohibited species if it is feasible and reasonable to do so.



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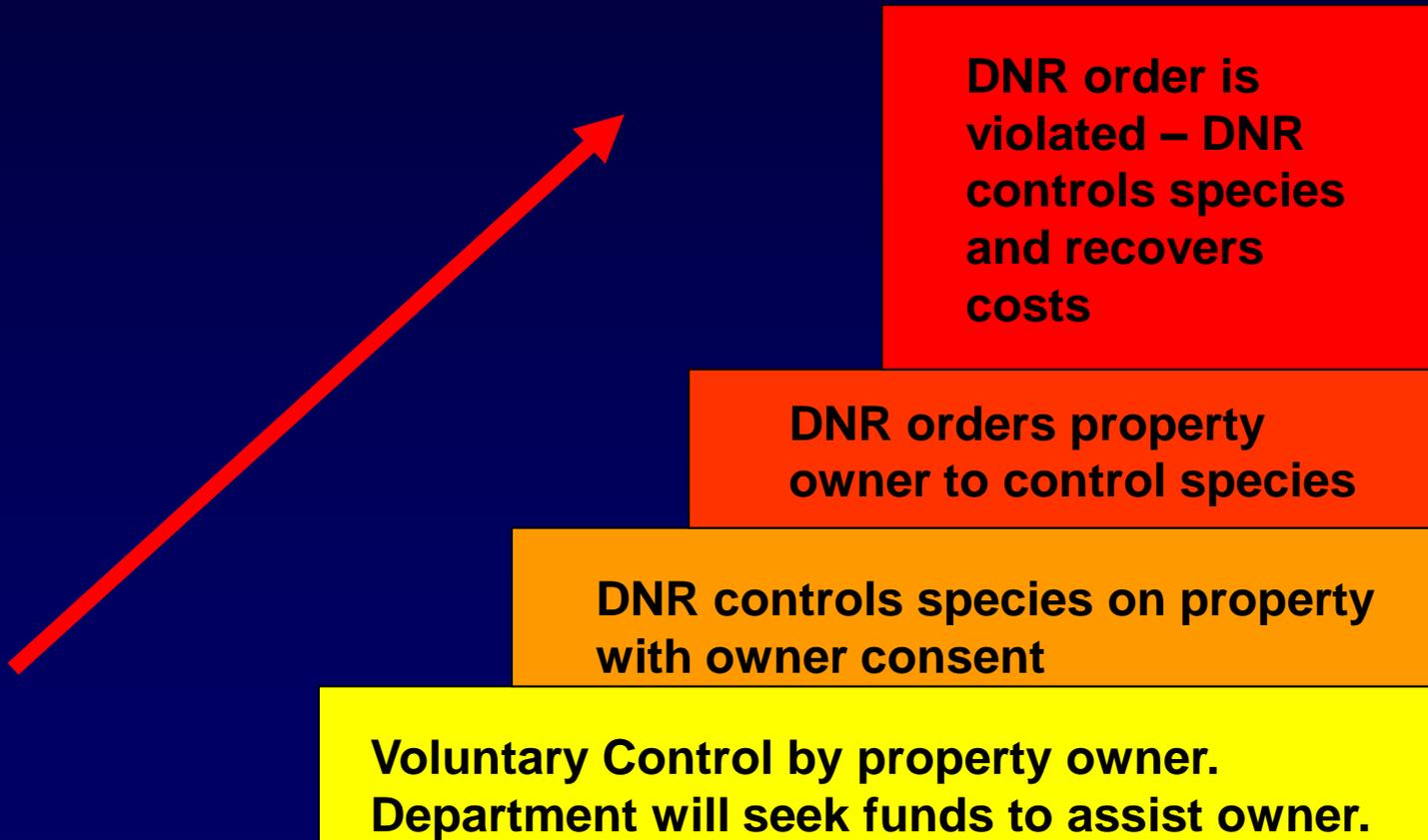
# Stepped Enforcement

- Primary focus will be education and voluntary compliance.
- If necessary, law enforcement may
  - Issue a citation
  - Refer the matter to the Department of Justice
  - Revoke a permit issued, after notice and opportunity for a hearing

s. 23.22 (9), Stats

# Control Requirements

(For prohibited species)



# Permits

- Anyone may transport, possess, transfer or introduce a prohibited or restricted species with a permit
- Some exceptions apply.

(Charlie Shong does not need a permit to haul EWM from Pewaukee Lake to his disposal site)

# A True Story

## Yellow floating-heart (*Nymphoides peltata*) *A known Prohibited Species*





**Yellow Floating Heart Location**



# • **History of Infestation** (2007 - 2008 - 2009)

- July, '07 found in two ponds
- **Chemical treatments unsuccessful.**
- **Manual removal unsuccessful.**
- June 2009 application for **Rapid Response Grant**  
(75% Cost Share, max. \$20,000)

# • **Goal - eradication**



# Rapid Response Plan Step 1



- Dewater Ponds through sediment bags in order to retain all seeds



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# Rapid Response Plan Step 2



- Dredge to Existing Clay Liner
  - Place dredge spoils in newly excavated pits near ponds
  - Trucking spoils to a disposal site was discussed & discarded – more expensive, greater chance that seeds could be dispersed

# Rapid Response Plan Step 3



- Place liner in ponds to prevent any remaining seeds from germinating



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# Rapid Response Plan Step 4 - 6



- Cap Spoil Pits
- Allow Ponds to refill
- Monitor for 3 years



**In a quiet neighborhood just like yours...**

**...lived the Red Swamp Crayfish!**



**Esquire Estate – Germantown, WI**  
**Stormwater Detention Pond**  
**Residential Development**



# Red Swamp Crayfish

- Project Sequence
  - Local citizen observed and called DNR to investigate
  - Containment action taken quickly
  - Trapping revealed significant population
  - Education of subdivision owners
  - Law enforcement presence
  - Eradication strategy developed and implemented by DNR – Treatment with Bleach
  - Follow up monitoring in 2010



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Do you mean I'm not in Louisiana?



**Eggs**

# Trapping Red Swamp Crayfish provided insight into the size of the population.



Trap



# Staff Investment



# Chemical Control



# Safety First



# Treatment Day



# Media Coverage



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# Aquatic Invasive Species Laws

- For more information;
  - <http://dnr.wi.gov/invasives/>



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Thanks  
for  
helping



INSPECT. CLEAN. DRAIN.



STOP AQUATIC HITCHHIKERS!

[www.dnr.wi.gov](http://www.dnr.wi.gov)



Visitor Hotline 1-800-292-3700

# Resources for More Information

- **Web addresses**

- DNR site: [www.dnr.state.wi.us/invasives/aquatic/](http://www.dnr.state.wi.us/invasives/aquatic/)
- UWEX Lakes site: [www.uwsp.edu/cnr/uwexplakes/](http://www.uwsp.edu/cnr/uwexplakes/)

- **Staff contacts**

- **Julia Solomon**—General questions, pub orders, information
  - 608-267-3531 [julia.solomon@wisconsin.gov](mailto:julia.solomon@wisconsin.gov)
- **Erin Henegar**—Clean Boats, Clean Waters
  - 715-346-4978 [ehenegar@uwsp.edu](mailto:ehenegar@uwsp.edu)
- **Laura Herman**—Citizen Lake Monitoring Network
  - 715-346-3989 [lherman@uwsp.edu](mailto:lherman@uwsp.edu)
- **Brock Woods**—Purple Loosestrife Biocontrol
  - 608-221-6349 [brock.woods@wisconsin.gov](mailto:brock.woods@wisconsin.gov)
- **Carroll Schaal**—Aquatic invasive species grants
  - 608-261-6423 [carroll.schaal@wisconsin.gov](mailto:carroll.schaal@wisconsin.gov)
- **Bob Wakeman** —Policy, budget & program information
  - (262) 574 – 2149 [robert.wakeman@wisconsin.gov](mailto:robert.wakeman@wisconsin.gov)



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