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2007-08 Report to the Legislature on Aquatic Invasive Species: [Our Waters](#) | [Our Partners](#) | [Our Investments](#) | [Our Future Goals](#)

## Introduction

June 1, 2009

Greetings:

Thanks to committed Department of Natural Resources staff, dedicated partners and funding to support aggressive action, we are making progress in protecting Wisconsin's beautiful lakes and streams from the threat of aquatic invasive species.



I am pleased to present the 2007-08 Summary Report on Aquatic Invasive Species – a snapshot of success built upon smart investments and solid partnerships necessary for a future of pristine waters.

No new Wisconsin waters were found contaminated with the deadly viral hemorrhagic septicemia (VHS) virus in 2008. That's progress. A threat to more than 25 species, VHS first was found in the Great Lakes in 2005. Add to the good news the fact 75 percent of Wisconsin lakes with public access ended 2008 free of Eurasian water-milfoil and zebra mussels.

How did we get there? Since 2003 more than \$10 million in DNR grants have gone to local communities for AIS projects. Local governments, community organizations and hundreds of volunteers on the front lines are key partners in our fight to stop invasive species.

Over the past several years, Gov. Jim Doyle and the Legislature tripled grant funding for local aquatic invasive species efforts and supported a new nine-member DNR Water Guard to educate boaters about AIS prevention and control. Thirty-one county and tribal coordinators picked up the cause and managed community-based prevention work involving 33,000 hours spent educating boaters at landings in 2008. Our Volunteers in the Citizen Lake Monitoring Network saw 978 volunteers at more than 800 locations in 2008.

Their efforts are paying off.

### Our Waters

- 75% of our lakes with public access are free of Eurasian water-milfoil and zebra mussels
- 120 inland waters have zebra mussels
- 479 waters have Eurasian water-milfoil
- 0 new waters with VHS virus in 2008. Disease successfully contained in Lake Winnebago and Great Lakes

### Our Partners

- 54,000 watercraft inspections in 2008, mostly by Clean Boats, Clean Waters volunteers
- 9 Water Guard conservation wardens created an enforcement presence at boat landings in 2008
- 31 counties actively partnering with the state to prevent and control the spread of aquatic invasive species
- 90% of boaters say they were aware of invasive species laws and 93% claim to remove plants from their rig and drain all water before leaving

### Our Investments

- \$4.3 million in DNR grants available annually to local communities for aquatic invasive species prevention and control
- \$10.5 million in DNR grants since 2003 to local communities for aquatic invasive species prevention and control

### Our Future Goals

- Reduce invasion rate of the most troublesome species
- Contain new threats from the Great Lakes and Mississippi River
- Discover better control strategies for Eurasian

A University of Wisconsin-Madison Badger Poll documented more than 90 percent of boaters inspect their boats, trailers and remove plants and animals before leaving landings.

I also led two Aquatic Invasive Species summits in Hayward and Eagle River in 2008. Eleven counties, two tribes and numerous local organizations attended the July summits and shared success stories and ways to confront the challenges we still face.

And, our partners cross borders.

The Minnesota Department of Natural Resources, Minnesota Sea Grant program and DNR have teamed to conduct boater surveys and share scientific findings. Wisconsin and Minnesota together released about 1 million purple loosestrife-eating beetles at 16 sites near Duluth – most in the St. Louis River and in the watershed.

Also in 2008, a new barrier system in the Chicago Sanitary and Ship Canal became operational thanks in part to urging from Gov. Doyle to the U.S. Department of Defense and Homeland Security. The barrier is needed to stop Asian carp from entering the Great Lakes through the Illinois and Chicago River systems.

The Asian carp also is a threat to our inland waters. It has been detected in the Mississippi River near La Crosse. Wisconsin DNR is working with its valued partners – including our Mississippi River Team, the U.S. Fish and Wildlife Service and the U.S. Geological Survey -- to track and to research ways to stop this invader.

This partner approach is especially important because more than 185 invasive species threaten to move inland from the shores of Lake Michigan and Mississippi River.

The DNR is working to regulate ballast water discharges from commercial ships to reduce the invasive plants, animal and pathogens entering the Great Lakes. We also are continuing to push for strong national action to stop invasives from entering the Great Lakes region altogether.

Together with our partners, Wisconsin is a leader in the prevention, containment and control of invasive species. While we have much more work to do, we have demonstrated that collaboration and partnership do produce results.

AIS is one of Wisconsin's top water quality challenges. But -- it is a fight we can win.

Sincerely,  
Matt Frank  
WI Department of Natural Resources Secretary

water-milfoil



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## Our Waters

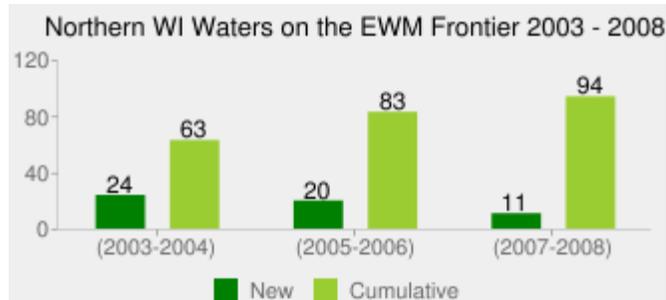
Wisconsin is working hard to slow the spread of aquatic invasive species in our lakes and rivers. Once these species become established in a waterbody it is basically impossible to eradicate them, so preventing their spread is the best strategy. DNR staff and citizens throughout Wisconsin help this effort by monitoring lakes and rivers for the most problematic aquatic invasive species. DNR uses this data to make management decisions, and to educate boaters and anglers. We also use it to evaluate our work, because, ultimately, our success will be measured on the landscape. Our goal is to keep established invaders like zebra mussels and Eurasian water-milfoil from spreading, and to keep new invaders like quagga mussels and Asian carp from crossing our borders. There is reason for optimism. The majority of our waters are still free from the most problematic species, and our data show that the rate of spread for several key species has slowed in recent years.

- [Asian Carp](#)
- [Curly-Leaf Pondweed](#)
- [Eurasian Water-Milfoil](#)
- [Purple Loosestrife](#)
- [Rainbow Smelt](#)
- [Rusty Crayfish](#)
- [Sea Lamprey](#)
- [Spiny Waterflea](#)
- [Viral Hemorrhagic Septicemia \(VHS\)](#) [Exit Report]
- [Zebra Mussels](#)
- [New Threats](#)

### Slowing the Spread



Zebra mussels have been monitored and reported on by the DNR and citizens for years, so the number of new discoveries per year helps measure the effectiveness of prevention and containment efforts. In recent years, the rate of new infestations has slowed.



Even though EWM is well established in many Southern WI waters, we are slowing its spread to Northern WI waters on the frontier of its invasion.



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## Our Partners

The fight against aquatic invasive species in Wisconsin is truly a team effort. State agencies, universities, county governments, Native American tribes, non-profit organizations and citizens all play a vital role in preventing the spread of aquatic invaders. The many dedicated volunteers who willingly spend their weekends and holidays educating boaters or conducting plant surveys deserve special recognition. They form the backbone of Wisconsin's campaign to prevent the spread of aquatic invasive species and are a testament to the passion and dedication that our lakes inspire.

Partnerships at all levels allow us to leverage our investments and complete key activities—such as watercraft inspection, lake monitoring, and biological control of purple loosestrife—efficiently. Partners also help us direct our resources toward strategic goals. The DNR and its partners are working to increase our focus on "source waters" such as the Great Lakes, Lake Winnebago and the Mississippi River. These large and heavily used waterways contain species that we do not want to see in the rest of the state, and we are working with our partners to build a "culture of containment" to ensure that those species do not spread.

### Fast Facts

31 county partners coordinating community-based prevention

Over 1,000 local lake, river and watershed organizations formed, many to fight invasive species

33,000 hours spent educating boaters at landings in 2008

- [County and Regional Partners](#)
- [Watercraft Inspection](#)
- [Water Guard](#)
- [Citizen Monitoring](#)
- [Bio-Control of Purple Loosestrife](#)
- [Summits in Northern Wisconsin](#)
- [Research](#)
- [Minnesota-Wisconsin Collaboration](#)



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## Our Investments

Over the past several years Wisconsin has increased its financial commitment to fight aquatic invasive species. The majority of those funds are distributed through aquatic invasive species grants administered by the DNR. While the amount of state money invested in these grants is impressive—over \$10 million since the first grants were awarded in 2003—that is only the beginning of the story. Grant recipients are required to provide matching funds (50% through 2007, 25% 2008 and beyond), so the total amount leveraged is actually much higher. Many recipients dramatically exceed the minimum required match, yielding an even greater return on the state investment. DNR works closely with grant applicants and partners to ensure that these dollars are being invested strategically in projects that further the goals of preventing the introduction, limiting the spread, and minimizing the damage from aquatic invasive species throughout Wisconsin.

- [Aquatic Invasive Species Budget](#)
- [Aquatic Invasive Species Grants](#)

### Fast Facts

#### Rapid Response Category

Over \$900,000 (state and local cost share) invested to date. All applications funded in 07-08, totaling \$300,000.

#### Prevention Category

Over \$8 million (state and local cost share) invested to date. \$3.2 million in 07-08.

#### Control Category

Over \$6 million (state and local cost share) invested to date, \$2.5 million in 07-08.



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## Our Future Goals

### Bolder Goals for 2010

Wisconsin's goals build on what is working. We will learn from investments in research and listen to our partners in setting bolder goals for AIS prevention, containment and control. For the first time Wisconsin is ready to set resource-based goals to reduce the invasion rate of our most troublesome invasive species, to contain new threats from the Great Lakes and Mississippi River and to discover better control strategies for Eurasian water-milfoil.



To help us achieve these goals we will:

- Strengthen local, county and state partnership - State partnerships with local units of government, especially counties, is an effective way of heightening awareness, changing boater behavior and networking with citizens and citizen-based organizations. We will continue to invest state AIS Prevention Grant funds with interested counties and explore regional and basin approaches for expanding the network to areas along the Great Lakes, the Mississippi River and other source water areas where local partnerships are lacking.
- Enhance watercraft inspection - Wisconsin's Water Guard creates an enforcement presence that compliments citizen-based Clean Boats, Clean Waters watercraft inspection. We will continue to support and seek opportunities to expand the outstanding work of the Water Guard and the Clean Boats, Clean Water Network. Smart Prevention research will guide watercraft inspection statewide and locally by helping to identify waters that are most susceptible to invasive species. We will seek to create a Culture of Containment by investing in paid watercraft inspectors on source waters where volunteer efforts are lacking. Importantly, we will seek to regulate and control ballast water discharge to the Great Lakes.
- Increase AIS monitoring/tracking - Early detection can lead to rapid response in controlling pioneer invasions. Using renewed funding in Governor Doyle's Budget, we will expand citizen-based monitoring networks for lakes, streams and wetlands for early detection as well as to guide control projects and report on the status of invasive species in our waters. We will continue to be vigilant for VHS. Web-based maps and reports will update continuously and be made available to our partners through "GovDelivery" which notifies customers of updates.
- Create campaign to change behavior - Anglers and boaters must change behavior to Stop Aquatic Hitchhikers. We will use media research to target awareness-heightening campaigns along with community-based social marketing techniques to reach this audience and achieve prevention behavior. We will earn media coverage by creating local watercraft inspection events.
- Assertive response to contain and control Eurasian water-milfoil - We will work with our partners to achieve better environmental outcomes on projects aimed at controlling new and established stands of Eurasian water-milfoil. AIS Control Grant funds will be available up-front to local sponsors to

respond to new infestations quickly. Together we will track the effectiveness of control strategies regionally on new and established populations undergoing control. Discoveries will be shared so others can learn what leads to nuisance conditions and what works to control them in our lakes.

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Sincerely,  
Matt Frank  
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water-milfoil



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## Our Waters

### Asian Carp

Governor Doyle, as Chair of the Governors Council of Great Lakes Governors, in his letter to the US Departments of Defense and Homeland Security urging full operation of a new barrier system wrote.

"The Great Lakes are at risk from the grave threat posed by Asian carp and other harmful aquatic invasive species. Without the completion and operation of an effective barrier system in the Chicago Sanitary and Ship Canal, the Asian carp may soon enter the Lakes through the Illinois and Chicago River systems. These carp potentially threaten public safety and the ecological integrity of the world's largest freshwater system." Thanks to this urging and support from others, the barrier (IIA) became operational on April 8, 2009. However, the need for sustaining an effective and long-term barrier remains. Asian carp are not only a "grave risk" to the Great Lakes, Wisconsin's inland waters are threatened as well. Asian carp are now reported in Pool V of the Mississippi River north of La Crosse. Wisconsin is working with partners to track and to research control of the Asian Carp.



Silver Carp. Bighead and Silver Carp are referred to as "Asian Carp".

[Asian Carp Factsheet](#)

Additional Background Information:

[Asian Carp \(Silver\)](#)

[Asian Carp \(Bighead\)](#)

- [UW-Sea Grant Aquatic Invasive Species](#)
- [Carp Barrier - UW-Sea Grant](#)
- [Letter To Council of Great Lakes Governors \[PDF\]](#)
- [USGS Asian Carp General Information](#)
- [USGS Asian Carp Research](#)
- [Asian Carp - General Information](#)



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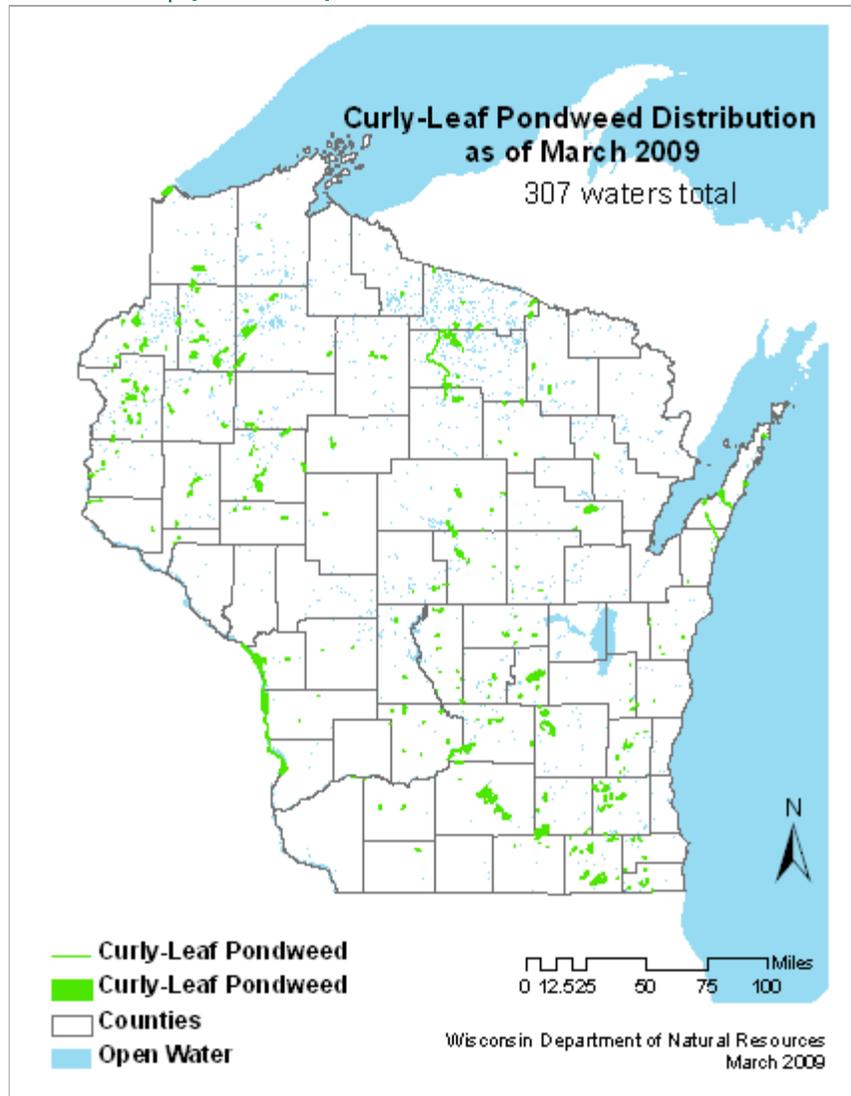
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## Our Waters

### Curly-Leaf Pondweed

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[Curly-Leaf Pondweed Fact Sheet](#)  
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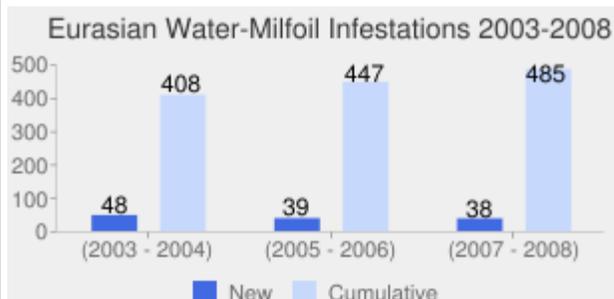
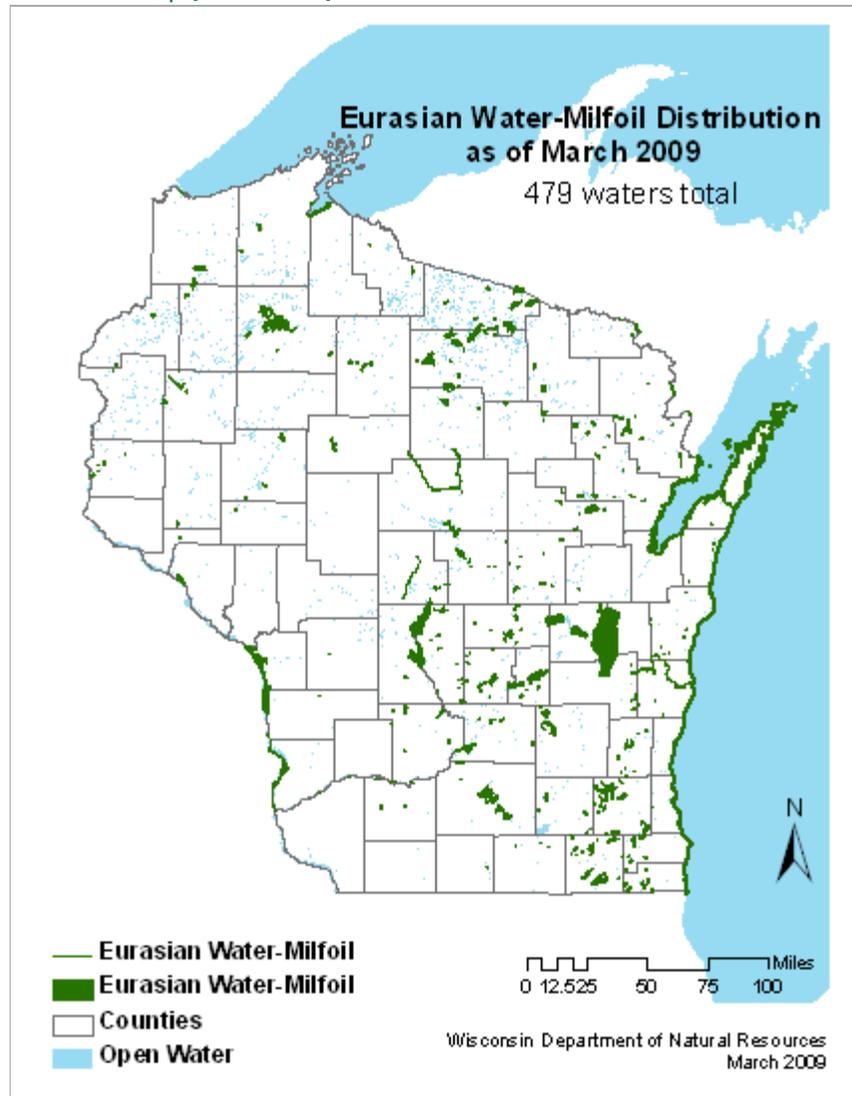


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## Our Waters

### Eurasian Water-Milfoil

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[Eurasian Water-Milfoil Fact Sheet](#)  
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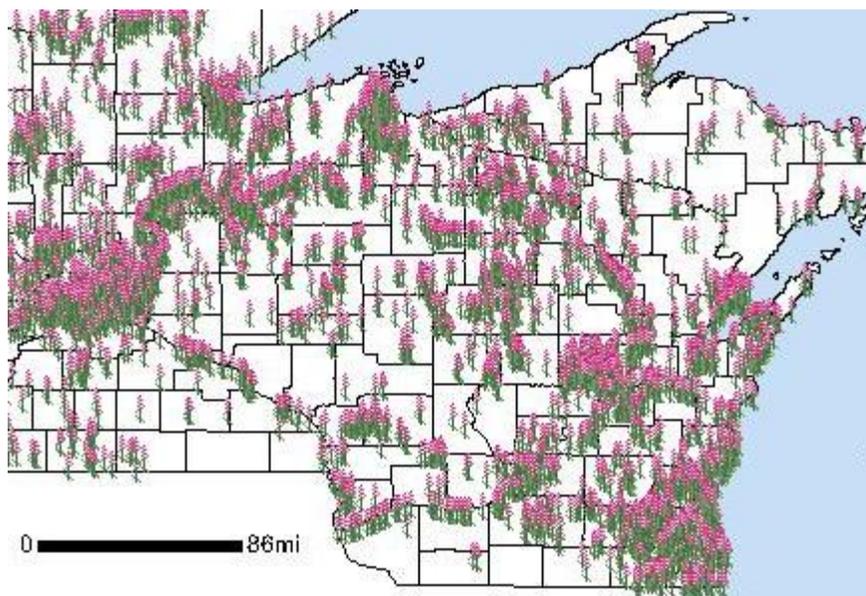
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## Our Waters

### Purple Loosestrife

Purple Loosestrife distribution map (4/21/2009) - Source: Great Lakes Fish and Indian Wildlife Commission (GLIFWC) [interactive map](#)



[Purple Loosestrife Factsheet](#)  
[Additional Background Information](#)



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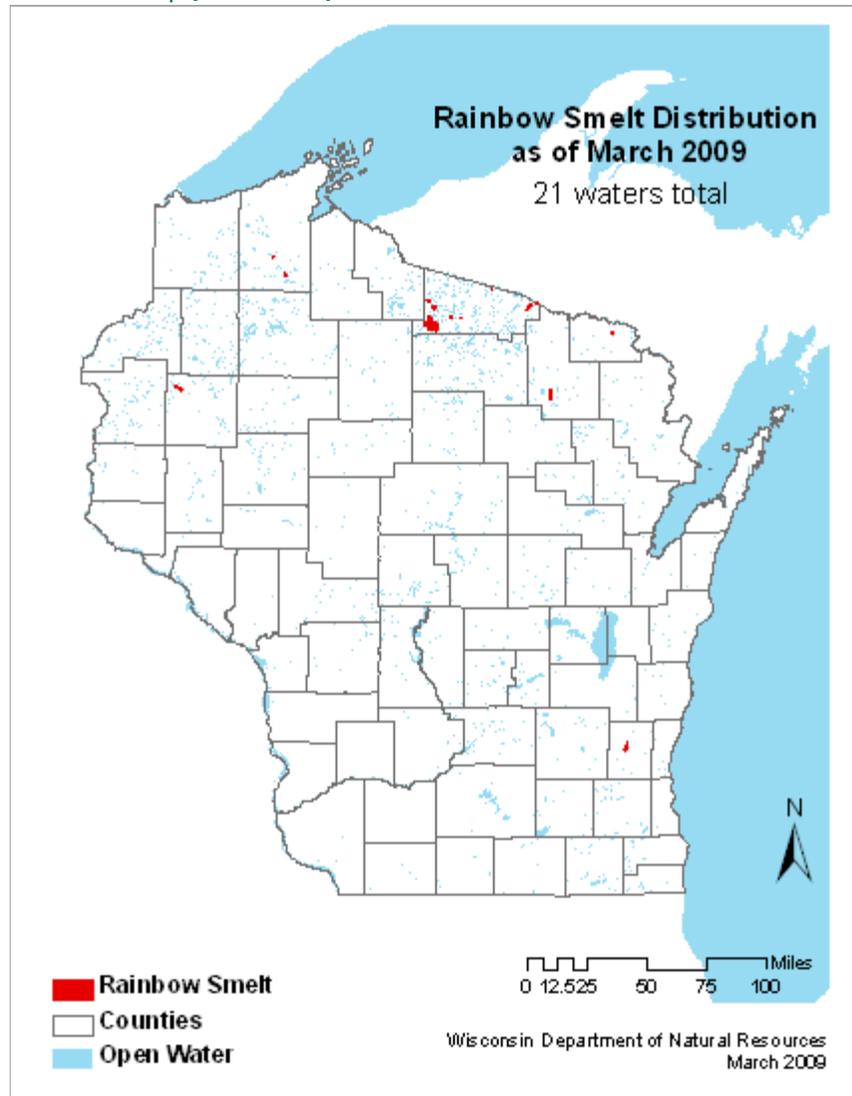


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### Rainbow Smelt

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[Rainbow Smelt Fact Sheet](#)  
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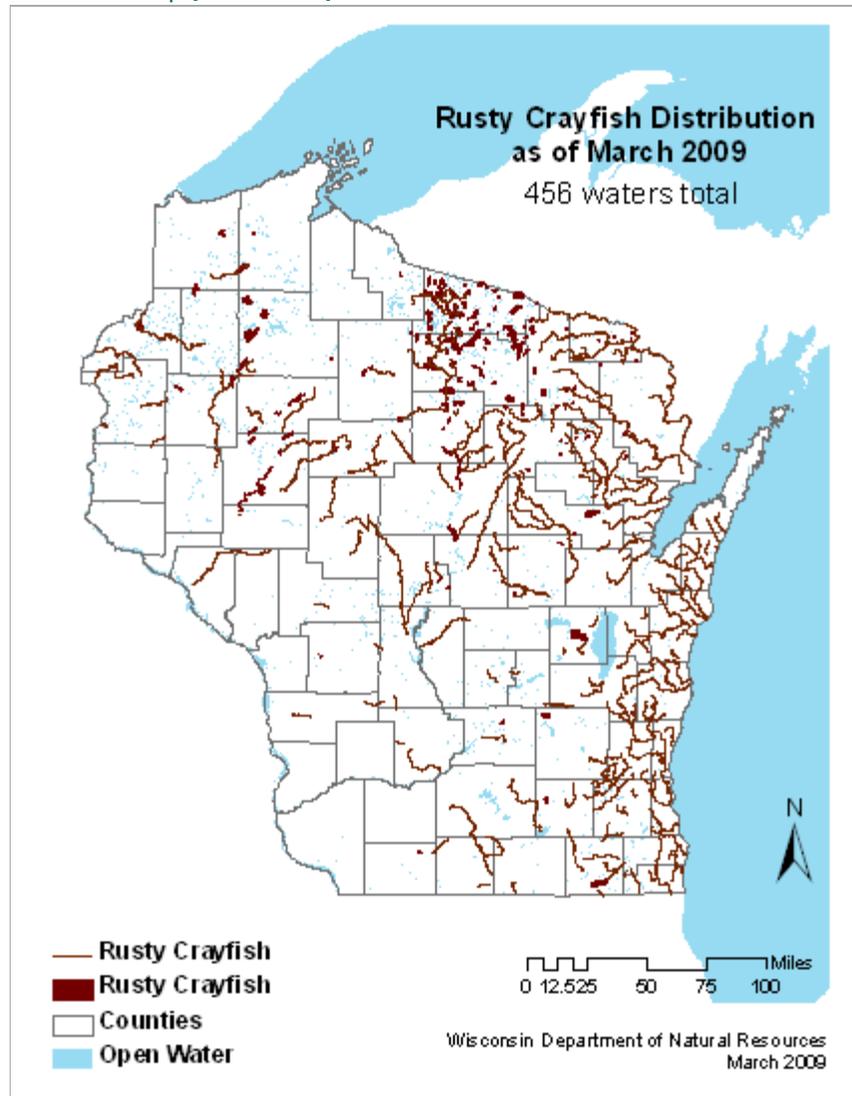
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## Our Waters

### Rusty Crayfish

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### Sea Lamprey

- [Great Lakes Fishery Commission - Sea Lamprey Facts](#)
- [Integrated Management of Sea Lampreys in Lake Michigan](#)
- [Integrated Management of Sea Lampreys in Lake Superior](#)



photo by Great Lakes Sea Grant Network

[Sea Lamprey Factsheet](#)  
[Additional Background Information](#)



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## Our Waters

### Spiny Waterflea

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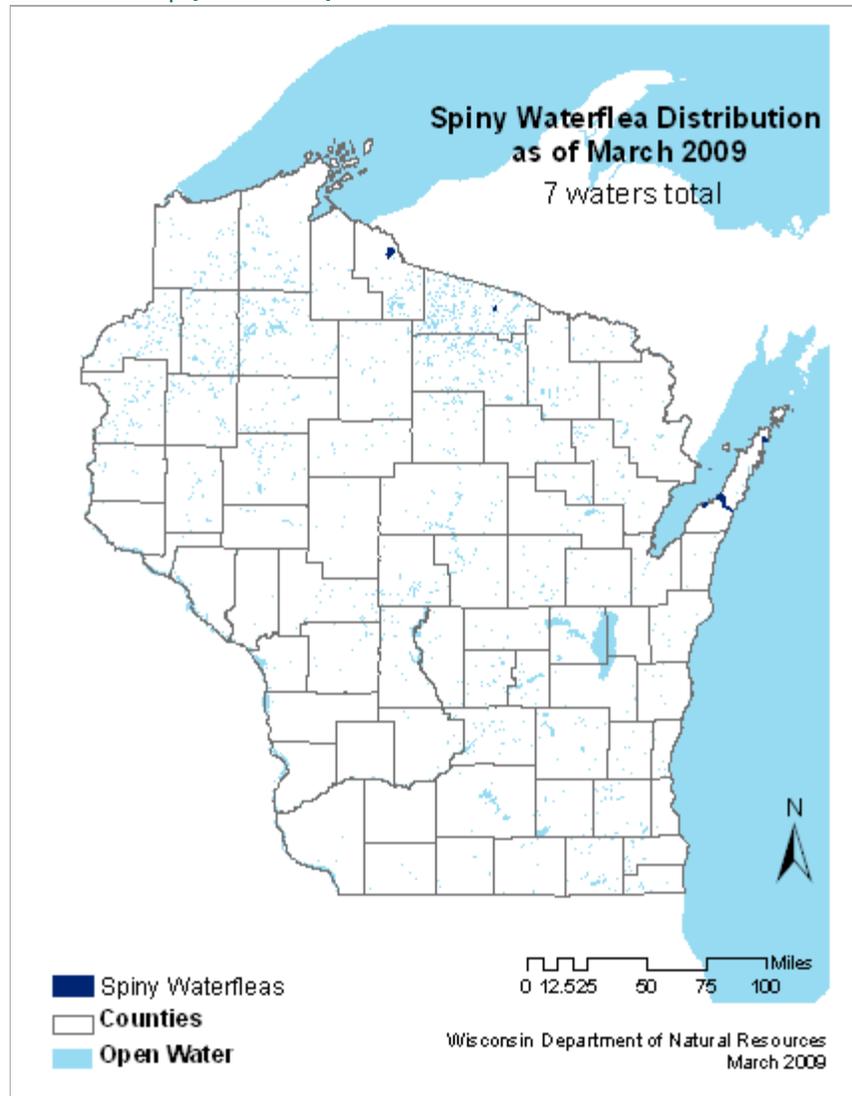


Photo by Pieter Johnson, UW Center for Limnology

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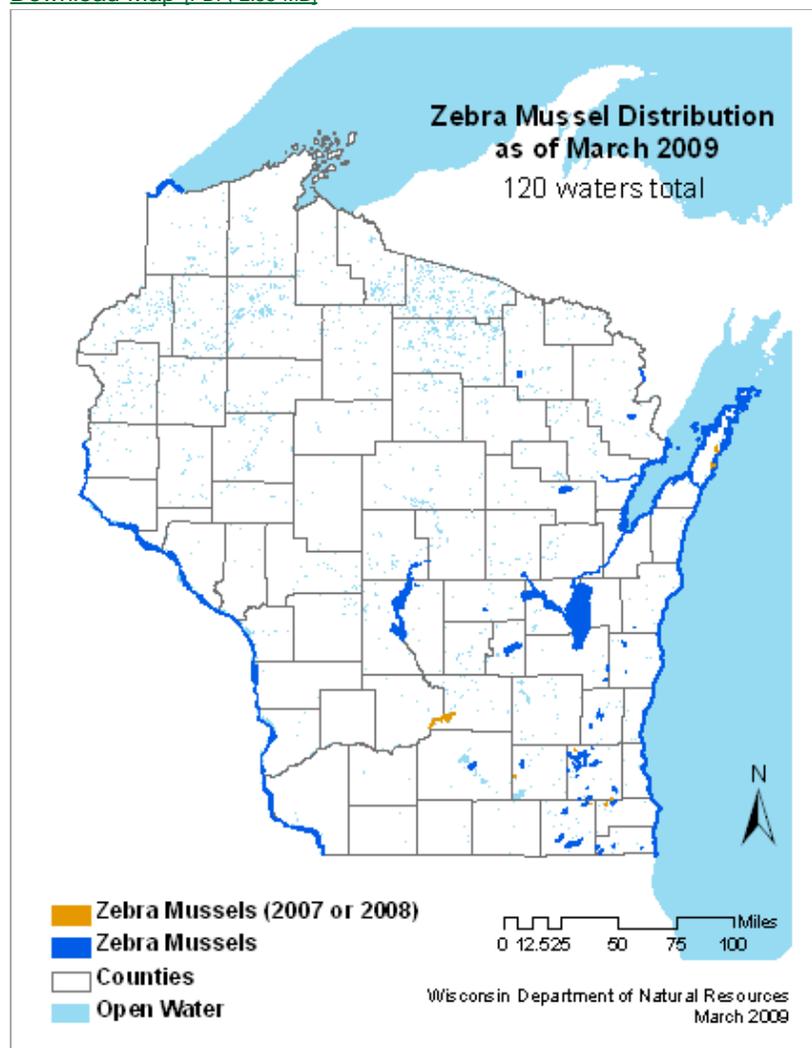
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## Our Waters

### Zebra Mussels

[Download Map \[PDF, 2.55 MB\]](#)



[Zebra Mussel Fact Sheet](#)  
[Additional Background Information](#)  
[List of Waters With Zebra Mussels](#)



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## Our Waters

### New Threats

Unfortunately, the species currently causing harm to Wisconsin's waters are not our only cause for concern. Numerous problematic species could make their way into our lakes and rivers at any time. Sadly, some of the most harmful invaders are right on our borders. The Great Lakes harbor over 185 non-native species and are an extremely popular recreational resource. This means that boaters and anglers moving between these and other waters have the potential to transfer species such as quagga mussels, New Zealand mudsnails, and round gobies which have not yet invaded our inland lakes. The same holds true for Asian carp on the Mississippi.

Aquatic invasive species can reach our waters through other pathways as well. Wisconsin recently responded to an isolated finding of hydrilla, a highly aggressive invasive plant in a private pond in Marinette County. We were lucky to find this population early, and with cooperation from the landowner, Marinette County, the WI Department of Agriculture Trade and Consumer Protection, we were able to successfully eliminate the population. But it drew attention to the potential for water gardens and the horticultural trade to serve as a source of introduction for problematic species.

Wisconsin has responded to these future threats by classifying potentially invasive species through DNR rule NR 40. This rule, once finalized, will help us prevent the introduction of the most harmful invaders. We are increasingly focusing our prevention efforts on "source waters" such as the Great Lakes and the Mississippi River, and we remain vigilant in our defense against new invaders crossing our borders.

[NR 40 Classification Table](#)

[Great lakes Poster \[PDF, 2.85 MB\]](#) - Over 185 invasive species are in the Great Lakes



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## Our Partners

### County and Regional Partners

Over the past several years counties, tribes, RC&Ds and non-profit organizations have taken an increasingly active role in the fight against aquatic invasive species. This is an extremely positive trend. These partners provide valuable local insights, work with extensive local networks, and can connect with statewide experts and peers throughout the state. Many partners are hiring paid aquatic invasive species coordinators—most funded with state AIS grant dollars.

[County or Tribal Coordinator Contact Information](#)



[Download Map \[PDF\]](#)



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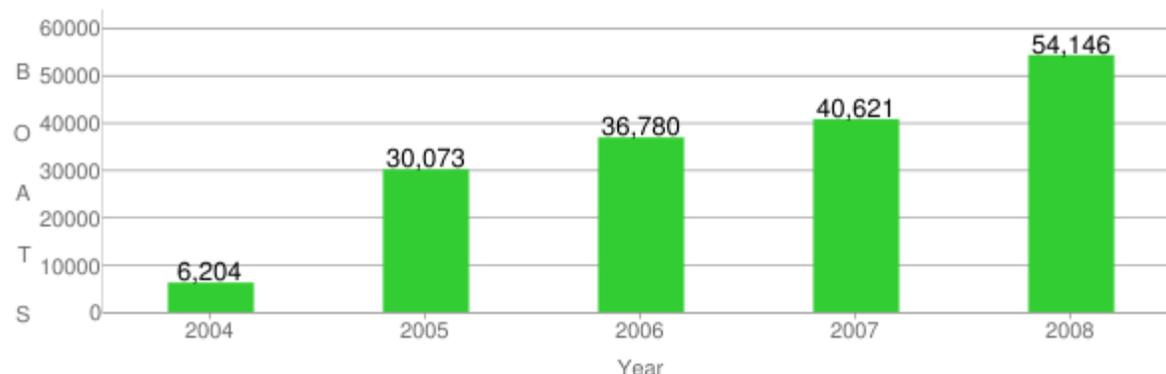
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## Our Partners

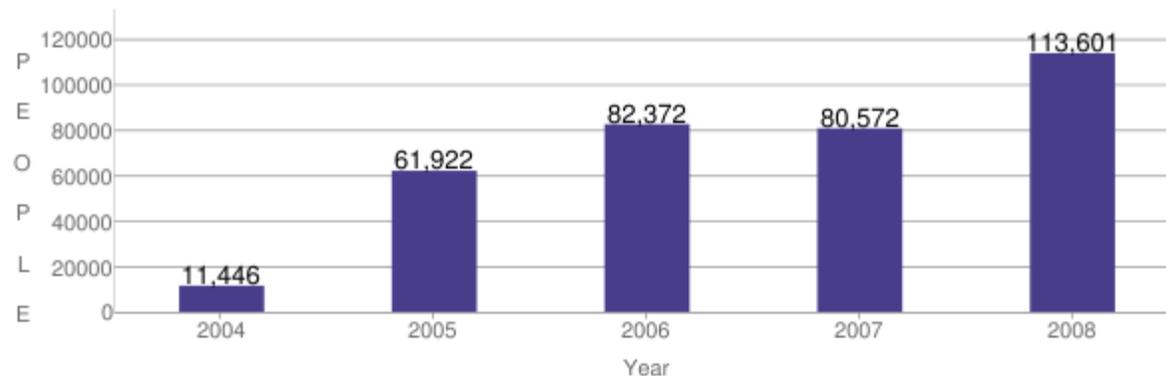
### Watercraft Inspection

Since Wisconsin began conducting watercraft inspections at boat landings in 2004 we have seen consistent increases in all of the key statistics that we track—boats inspected, time spent on inspections, boaters aware that it is illegal to launch with aquatic plants attached, and boaters reporting that they take prevention steps to prevent the spread of aquatic invasive species. In 2008 we hit two important milestones—more than 50,000 boats inspected and more than 100,000 people contacted through the course of the summer. As always, the majority of these inspections were conducted by volunteers. We also collected data for the first time on which specific prevention steps people were and were not taking. This tells us where to focus our outreach, education and enforcement efforts in the future. For more information: [Watercraft Inspection Contacts](#)

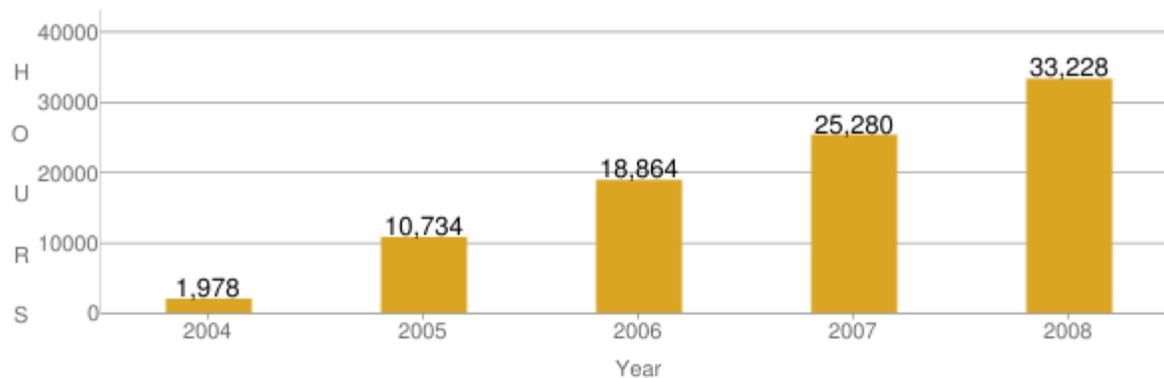
Boats Inspected 2004-2008



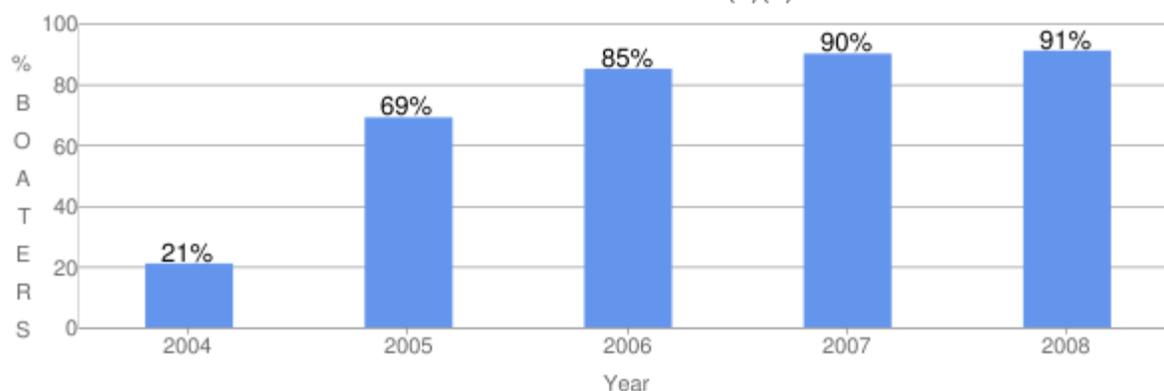
People Contacted During Inspections 2004-2008



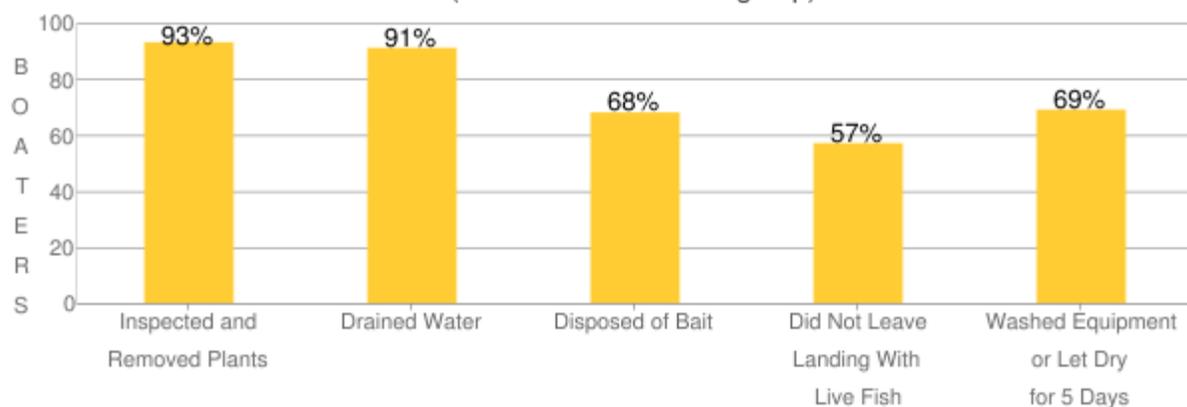
Time Spent on Watercraft Inspections 2004-2008



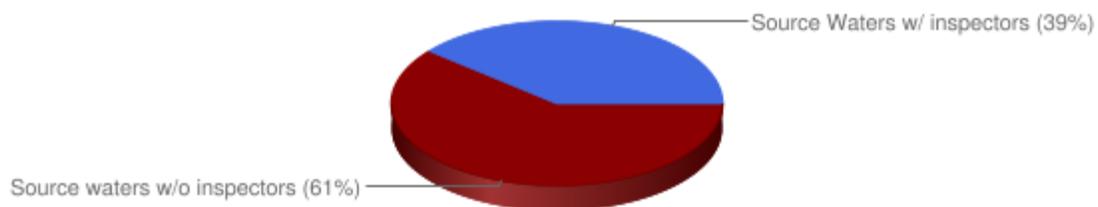
Boaters Aware of WI Stat. 30.715(2)(3) 2004-2008



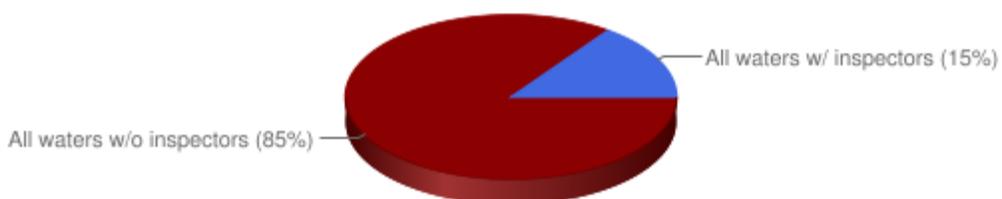
Prevention Steps Taken By Boaters in 2008  
(After Their Last Boating Trip)



### Watercraft Inspections on Source Waters



### Watercraft Inspections on Public Access Waters



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## Our Partners

### Water Guard

One of the factors that made 2008 such a successful summer for watercraft inspection and AIS education was the debut of the Water Guard—nine deputy conservation wardens whose sole job was education about and enforcement of AIS laws. The Water Guards were an immediate success. They worked closely with other paid and volunteer watercraft inspectors throughout the state. Feedback about their presence at boat landings, fishing tournaments, county fairs, and other events was uniformly positive. We look forward to strengthening and expanding this partnership with DNR Law Enforcement in the future.



- [Wisconsin Water Guards at Work](#) [Length: 4:55 minutes]
- [Water Guard News Release](#)



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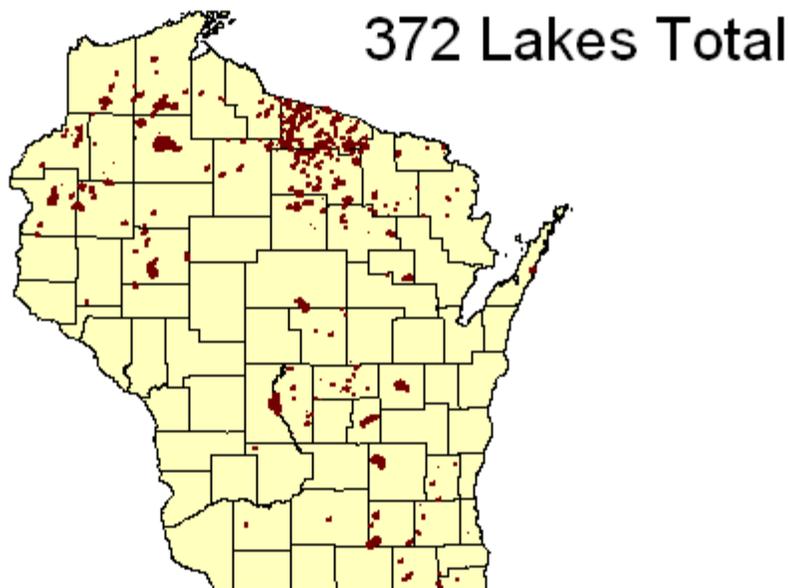
## Our Partners

### Citizen Monitoring

DNR hires some seasonal employees to monitor lakes and rivers for aquatic invasive species, but the majority of AIS monitoring is done by trained volunteers through the Citizen Lake Monitoring Network. These volunteers track species of concern and report their findings back to the DNR through an online database. DNR uses this information to make management decisions and guide outreach efforts. DNR has also recently embarked on a project with River Alliance of Wisconsin to conduct volunteer AIS monitoring in rivers and streams. Summer 2009 will be their first full monitoring season.

- [River Alliance - Project RED](#)
- [Citizen Lake Monitoring](#)

## Lakes with Volunteers Monitoring for Aquatic Invasives



-  Lakes with Volunteers Monitoring Aquatic Invasives
-  Counties

[List of Lakes Monitored](#)



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## Our Partners

### Bio-Control of Purple Loosestrife

Biological control of the wetland invader purple loosestrife through the use of loosestrife-feeding beetles is one of Wisconsin's flagship successes in the fight against aquatic invasive species. For many aquatic invasive species, control after they become established is either impossible (e.g. zebra mussels) or requires costly ongoing management (e.g. Eurasian water-milfoil). Biocontrol of purple loosestrife is unique because these safe, host-specific beetles have been an effective control agent, and once established require minimal intervention. Purple loosestrife biocontrol beetles are reared and released by volunteers and other partners. For more information: [Purple Loosestrife Monitoring Contact Information](#).



[Purple Loosestrife Biennial Report: Fiscal Year 2006-2008](#) [PDF]



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## Our Partners

### Summits in Northern Wisconsin

Secretary Matt Frank, Executive Assistant Mary Ellen Vollbrecht, and Regional Director John Gozdziwski hosted two Aquatic Invasive Species Summits to listen to fifty five invited guests including elected officials, community leaders and lake leaders from Northern Wisconsin. These Summits were held in Hayward and Eagle River on Wednesday July 16, 2008. Local media covered the event.

While some local projects were highlighted as good examples of state and local partnership, the majority of time was spent openly discussing how we could work together better. Themes for improvement included: stronger enforcement, bridging the gap in laws to stop transport and introduction, more money to fund paid watercraft inspection staff, heightening awareness, emphasize early detection and eradication, investing in prevention and control research and local demonstration projects, and engaging federal agencies and other partners.

Many participants complimented the Department for recent progress made under Secretary Frank's leadership and for outstanding service provided by Northern Region. We heard appreciation for the new the Water Guard who created an enforcement presence at boat landings and reinforced local Clean Boat, Clean Water efforts. Participants were pleased to hear that Senator Jauch and the Department were working together on legislation to bridge gaps in the transport laws. Many shared great examples of how Governor Doyle's increase in Aquatic Invasive Species Control grants was being put to good use for county-based prevention and local control projects to fight infestations.

Secretary Frank stated his appreciation and agreed that future meetings to discuss progress and on-going needs would be beneficial.





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## Our Partners

### Research

Wisconsin has a strong commitment to using the best possible research to guide our natural resources management. The Department of Natural Resources' own scientists are involved in a variety of cutting-edge projects, and we also partner with experts across the nation to ensure that we are implementing the most scientifically-sound management practices. See the list below for examples of some ongoing research projects.



- [VHS](#)
- [Eurasian Water-Milfoil](#)
- [Other Invasive Plants and Algae](#)
- [Sea Lamprey](#)
- [UW Center for Limnology, Smart Prevention](#)
- [Ongoing AIS Research Projects](#)



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## Our Partners

### Minnesota-Wisconsin Collaboration

Wisconsin and Minnesota have a long track record of close collaboration on aquatic invasive species issues. We have strong partnerships with both MN DNR and MN Sea Grant. We work with them on many topics related to aquatic invasive species and are able to work more efficiently and effectively because of this collaboration.

### Research & Data Collection

- 1994—Both states participated in mailed survey to sample of registered boaters to assess knowledge of AIS and best media for education on this issue. Data analysis for both states done by MN Center for Survey Research.
- 2003—Repeat of 1994 survey. Analysis again done by MN Center for Survey Research.
- 2006 & 2007—In-person surveys at boat landings to evaluate effectiveness of Stop Aquatic Hitchhiker campaign. Surveys conducted by watercraft inspectors—joint data analysis done by MN Sea Grant.
- Data and idea exchange on control of aquatic invasive plants. Our scientists and managers work closely with their MN counterparts to share cutting-edge research findings and best practices.

### Outreach & Education

- Joint design and printing of many educational publications saves money and promotes consistent cross-state message. Some examples of joint projects:
  - AIS watch cards for many species including round goby, purple loosestrife, Eurasian water-milfoil, rusty crayfish, ruffe, spiny & fishhook waterflea, New Zealand mudsnail
  - Help Stop Aquatic Hitchhikers brochure & sticker
  - Water garden outreach materials including fact sheet, tip card, poster, display panels, template Power Point presentation, and plant sticks/tags for nursery use
  - Collaborative design of boat landing signs. WI's AIS sign system is patterned on MN's system to ensure cross-border consistency in the message provided to boaters. Using MN design as the basis for WI signs also saved money.
  - MN, WI and several other states worked in partnership with Wildlife Forever (national non-profit) to design and purchase billboards on highway corridors to lake areas. Collaboration ensured consistent message and more favorable rental rates from billboard rental companies.

### Monitoring & Reporting

- Scientists and managers in WI & MN routinely share information about species introduction and spread in cross-border waters and nearby areas (e.g. New Zealand mudsnail, quagga mussel, round goby, didymo "rock snot" algae) to allow for rapid response.



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## Our Investments

### Aquatic Invasive Species Budget

The WI Department of Natural Resources has an annual budget of slightly less than \$500,000 for aquatic invasive species initiatives, representing a mix of state and federal funds. These dollars support DNR staff and projects throughout the state, and also contracts with UW-Extension, UW-Madison, UW-Oshkosh, and UW-Sea Grant. The majority of the funds are spent on watercraft inspection. They also support monitoring, outreach, purple loosestrife biocontrol, and AIS research.

- [Summary of the State Aquatic Invasive Species Budget Allocations for FY 07 & FY 08 \[PDF\]](#)
- [A Summary of funding on the St. Croix Aquatic Nuisance Species Plan for FY07 and FY08 \[PDF\]](#)
- [A Summary of funding on the Aquatic Nuisance Comprehensive Management Plan for FY07 and FY08 \[PDF\]](#)



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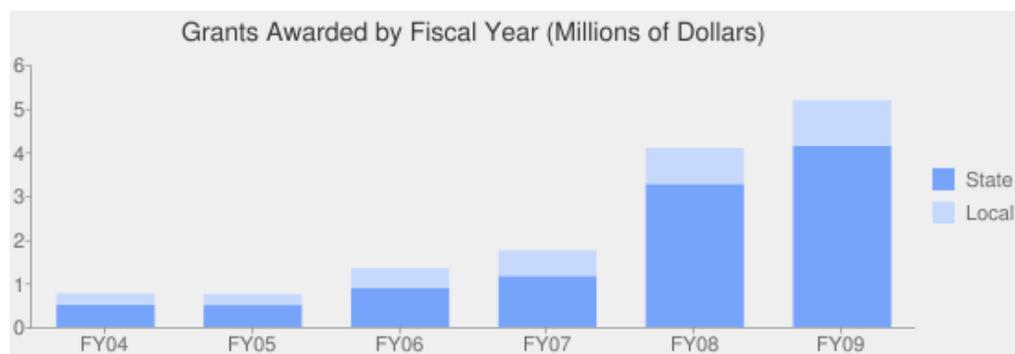
## Our Investments

### Aquatic Invasive Species Grants

Aquatic invasive species grants provide vital support for much of the aquatic invasive species work throughout the state. 2008 saw a dramatic increase in available AIS grant funding, which prompted changes in rules to expand eligibility, raise maximum award amounts, and decrease required match percentage. Our goal is always to distribute funds as strategically and efficiently as possible. Grants are awarded in three categories: (1) education, prevention & planning; (2) controlling established infestations; and (3) rapid response.

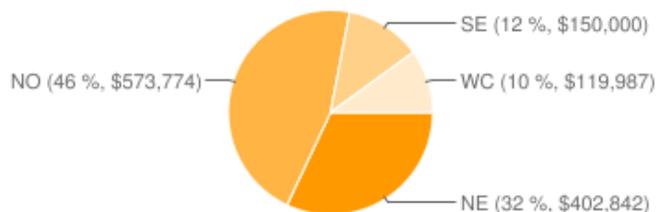
Aquatic Invasives Grants Awarded 2007-2009:

- [Control Grants \[PDF\]](#)
- [Prevention Grants \[PDF\]](#)
- [Rapid Response Grants \[PDF\]](#)

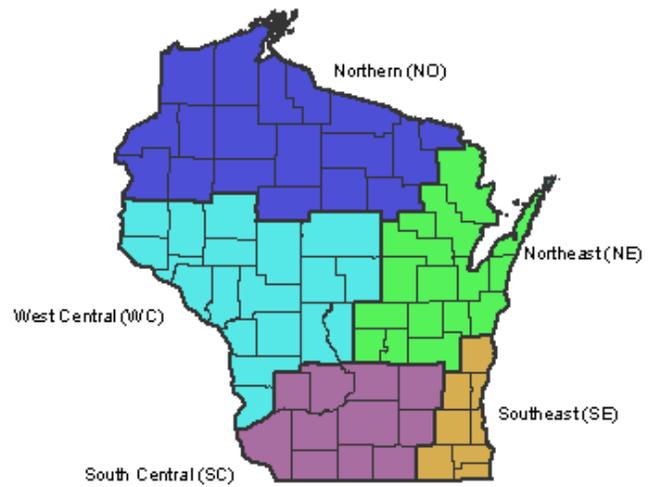


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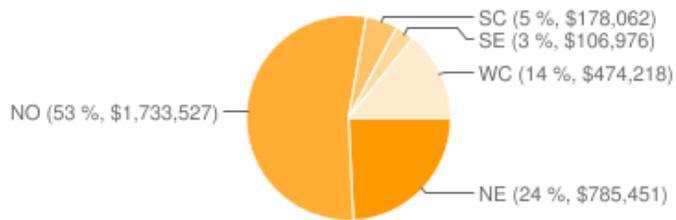
Grant Awards by Region (Fiscal Year 2007)



[+ Show Table](#)

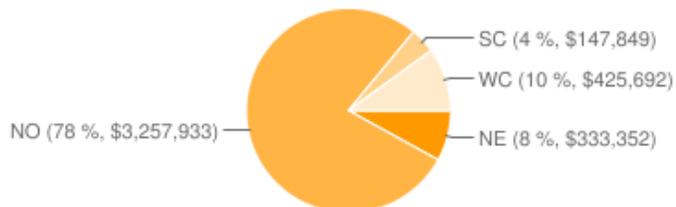


Grant Awards by Region (Fiscal Year 2008)



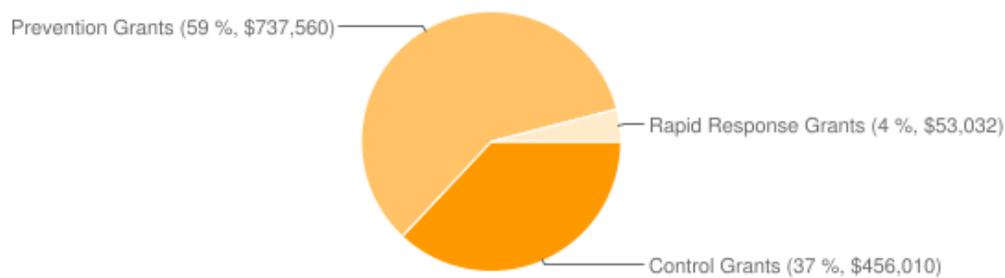
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Grant Awards by Region (Fiscal Year 2009)



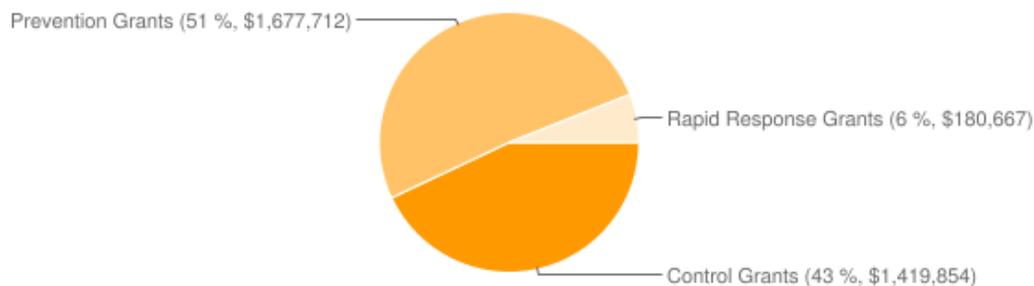
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Grant Awards by Category (Fiscal Year 2007)



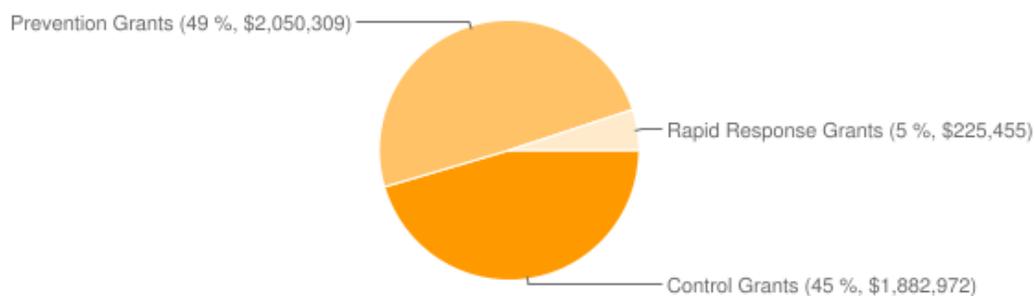
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### Grant Awards by Category (Fiscal Year 2008)



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### Grant Awards by Category (Fiscal Year 2009)



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