

Watercraft Cleaning & Implementation Discussion



**STOP AQUATIC
HITCHHIKERS!**

Prevent the transport of nuisance species.
Clean all recreational equipment.

www.ProtectYourWaters.net



What we plan on covering

- Statewide view of AIS prevention actions
 - Tim Campbell, UW-Extension
- Local decontamination panel presentations
 - Cathy Higley
 - Anna Cisar
 - Sam Lammers
 -
- Wisconsin Lakes decontamination project
 - Mike Engleson
- Questions for the panel
 - Facilitated by Mike and Tim

Goals for our discussion

- Connect people interested in watercraft cleaning and decontamination with statewide and local experts
- Information sharing that helps overcome implementation barriers
- Identification of knowledge gaps

What we are not prepared to discuss

- Surveillance technology
 - I-LIDS

Watercraft Decontamination: A statewide view

Tim Campbell

UWEX Natural Resources Institute

Wisconsin Sea Grant

Wisconsin DNR



**STOP AQUATIC
HITCHHIKERS!**

Prevent the transport of nuisance species.

Clean all recreational equipment.

www.ProtectYourWaters.net



NR40:

Law of the Land

- Actions are effective at preventing spread of AIS
 - Most people know what they are
 - Has had an impact on invasion rate
- Reasonable actions to expect of all water users
- Theoretically inexpensive to implement because it doesn't require tools or trained staff
- If everyone did this every trip the invasion rate would approach zero

**PREVENT THE SPREAD OF
INVASIVE SPECIES
IT'S THE LAW**

PENALTIES MAY EXCEED \$2000

Before launching and before leaving YOU MUST:

- ✓ **INSPECT** boats, trailers, and equipment.
- ✓ **REMOVE** all attached aquatic plants and animals.
- ✓ **DRAIN** all water from boats, vehicles, and equipment.
- ✓ **NEVER MOVE** plants or live fish away from a waterbody.*



STOP AQUATIC HITCHHIKERS!
Prevent the spread of invasive species, it's the law



WISCONSIN
DEPT. OF NATURAL RESOURCES

*Limited exceptions apply. Visit WWW.DNR.WI.GOV and search for "BAIT LAWS."

NR40:

Law of the Land

- Actions are effective at preventing spread of AIS
 - Most people know what they are
 - Has had an impact on invasion rate
- Reasonable actions to expect of all water users
- Theoretically inexpensive to implement because it doesn't require tools or trained staff
- If everyone did this every trip the invasion rate would approach zero

**PREVENT THE SPREAD OF
INVASIVE SPECIES
IT'S THE LAW**

PENALTIES MAY EXCEED \$2000

Before launching and before leaving YOU MUST:

- ✓ **INSPECT** boats, trailers, and equipment.
- ✓ **REMOVE** all attached aquatic plants and animals.
- ✓ **DRAIN** all water from boats, vehicles, and equipment.
- ✓ **NEVER MOVE** plants or live fish away from a waterbody.*



STOP AQUATIC HITCHHIKERS!
Prevent the spread of invasive species, it's the law



*Limited exceptions apply. Visit WWW.DNR.WI.GOV and search for "BAIT LAWS."

Problem:

Not everyone takes
action every time

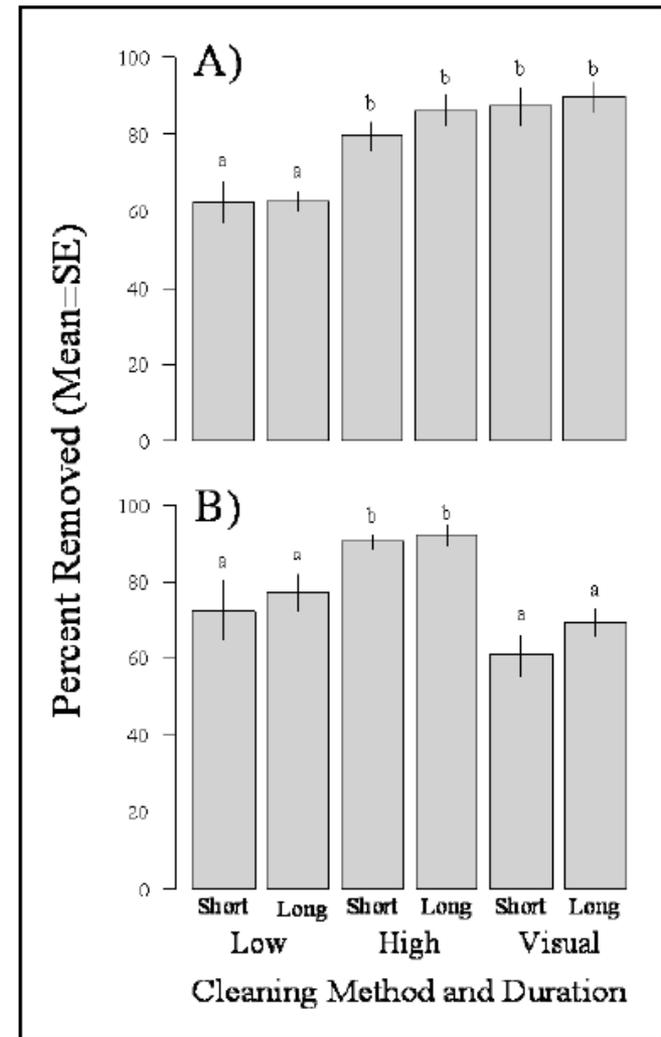
Use leftover live bait minnows on a different body of water?	2013	1.5 (4.5)
	2009	1.3 (4.7)
Drain water from the <u>boat</u> before leaving the landing?	2013	4.5
	2009	3.9
Remove plants and animals from the boat and equipment before leaving the landing?	2013	4.5
	2009	3.3
Transport your catch away from a waterbody using a livewell, bucket or other container filled with water?	2013	2.1 (3.9)
	2009	2.4 (3.6)
Drain water from the <u>livewell</u> before leaving the landing?	2013	4.3
	2009	3.2
Drain water from a bucket or other container holding your daily catch before leaving the water body?	2013	4.0
	2009	3.0
Add lake or river water to your minnow container?	2013	2.2 (3.8)
	2009	2.2 (3.8)
Drain water from the <u>motor</u> before leaving the landing?	2013	3.8
	2009	3.1
Put your catch on ice when you leave a water body?	2013	2.9
	2009	<i>Not asked</i>

Problem:

NR40 actions aren't 100% effective
at removing or killing AIS

They're good, but not perfect

Figure 3. Results of experimental removal of biological materials from boat and trailer via boat washing or visual inspection. Panel A shows removal of *Myriophyllum spicatum* with different wash pressures and durations, and with visual inspection and hand-removal. Panel B shows data from the same treatments for the removal of small-bodied organisms.



What is an acceptable level of risk
and certainty?

What are we willing to pay to
reduce risk and increase certainty?

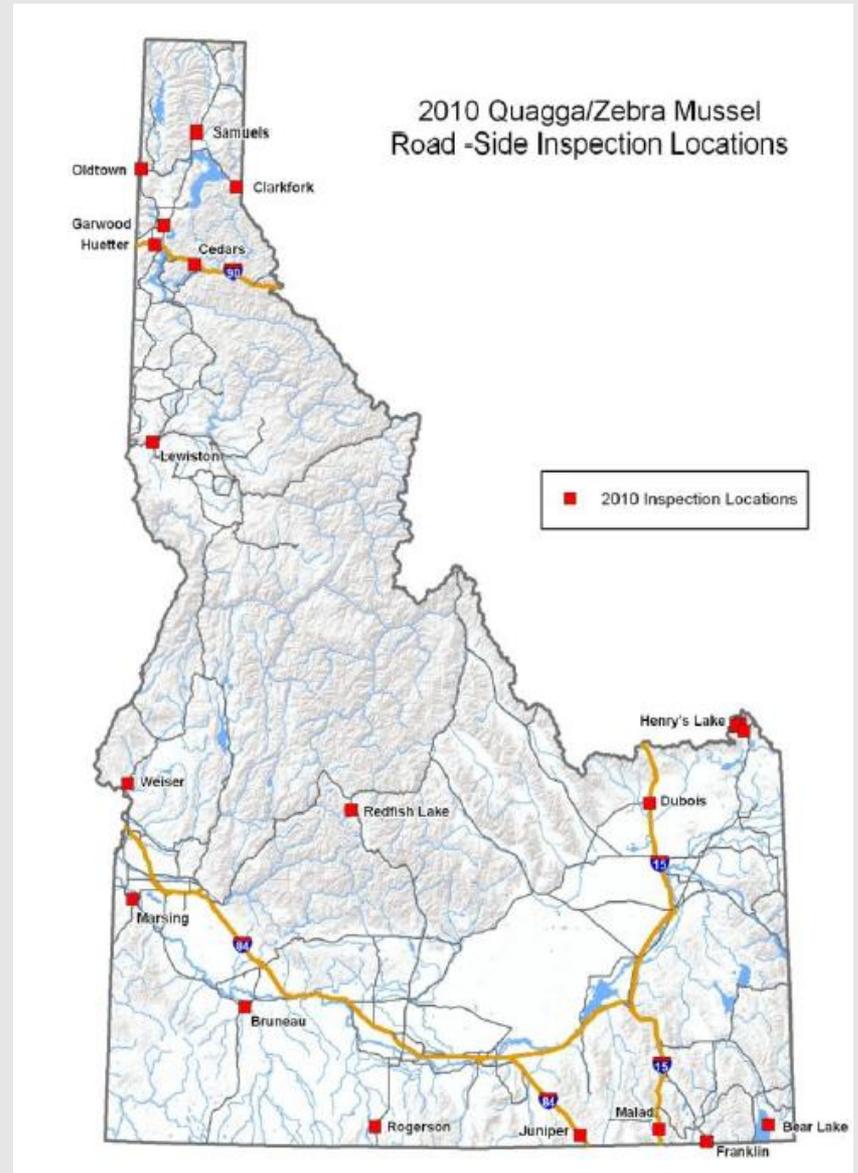
What is an acceptable level of risk and certainty?

- Assuming people take required actions, risk is low, but uncertainty is higher
- Requiring decontamination can eliminate risk and reduce uncertainty

- Implementing decontamination on a statewide scale could dramatically increase costs for limited reductions in risk and uncertainty
- Costs can become more manageable with local investment and risk assessment approaches

What are we willing to pay to reduce risk and increase certainty?

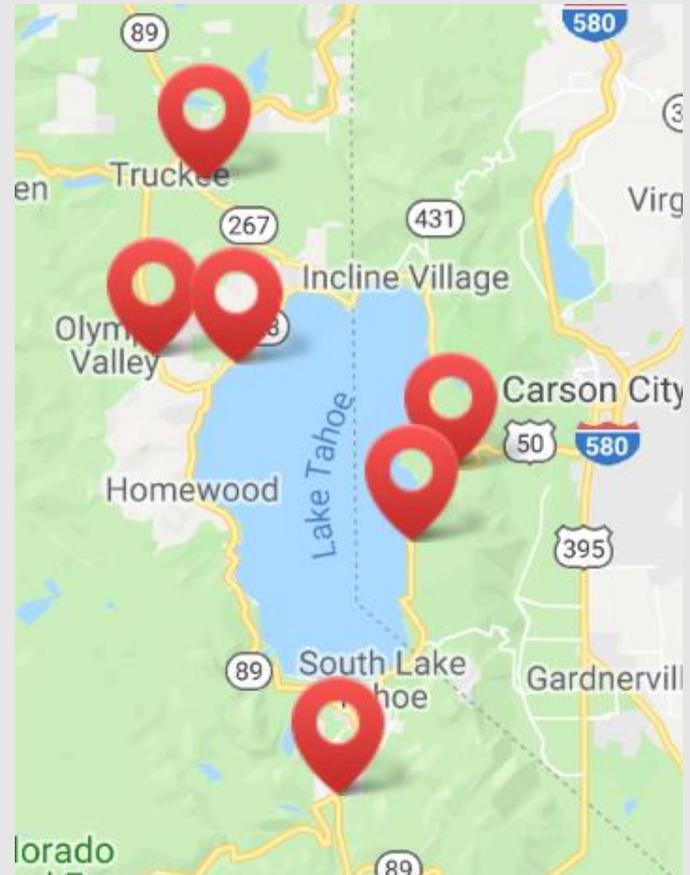
We probably
won't ever look
like Idaho



Or Lake Tahoe

Tahoe
Only

Tahoe
In AND Out



What will decontamination
programs look like in
Wisconsin?