



2014 Invasive Species Seminar Series

Clean, Drain, and Dry! Building Consensus to Prevent the Spread of Aquatic Invasive Species via Recreational Boats

Co-hosted by the Environmental Law Institute &
The National Invasive Species Council

Monday, August 18th, 2-4pm EDT
(speaking will begin at 2:05)

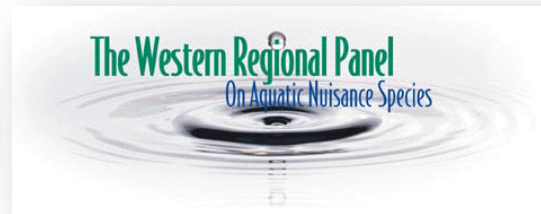
This seminar is made possible by the generous support of the Turner Foundation.

To join the ELI Invasive Species Seminar Series mailing list, please email subramanian@eli.org

Colorado's a.n.s. program & western regional panel's building consensus effort

Elizabeth Brown

Invasive Species Coordinator, Colorado Parks and Wildlife
Chair, Western Regional Panel
Chair, Western Invasive Species Coordinating Effort



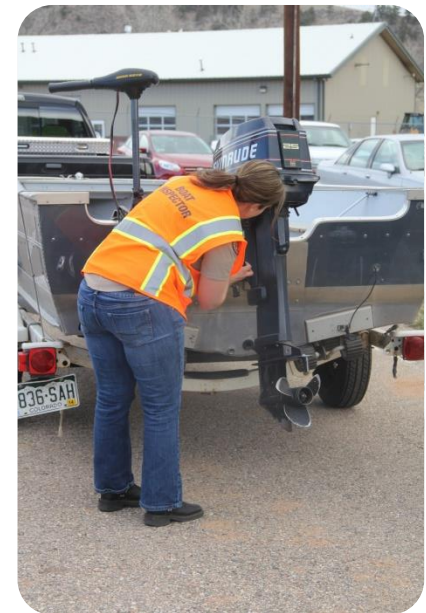
Colorado's A.N.S. Program

- Response to detection of mussel larvae in Pueblo Reservoir in January 2008.
 - Six other reservoirs had mussel larvae detection later that year.
- State ANS Act passed in May 2008
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- Created the ANS Fund
- WIDS, Sampling, Education



Prevention and Containment: Watercraft inspection & Decontamination

- Mandatory Inspections!
 - All boats coming in from out of state (resident & non-resident)
 - All boats entering waters where the owner or manager requires it
 - All boats leaving waters where ANS have been detected
- Use your **HEAD** to inspect
 - Hull and Trailer
 - Engine
 - Anchor and Equipment
 - Drain all standing water



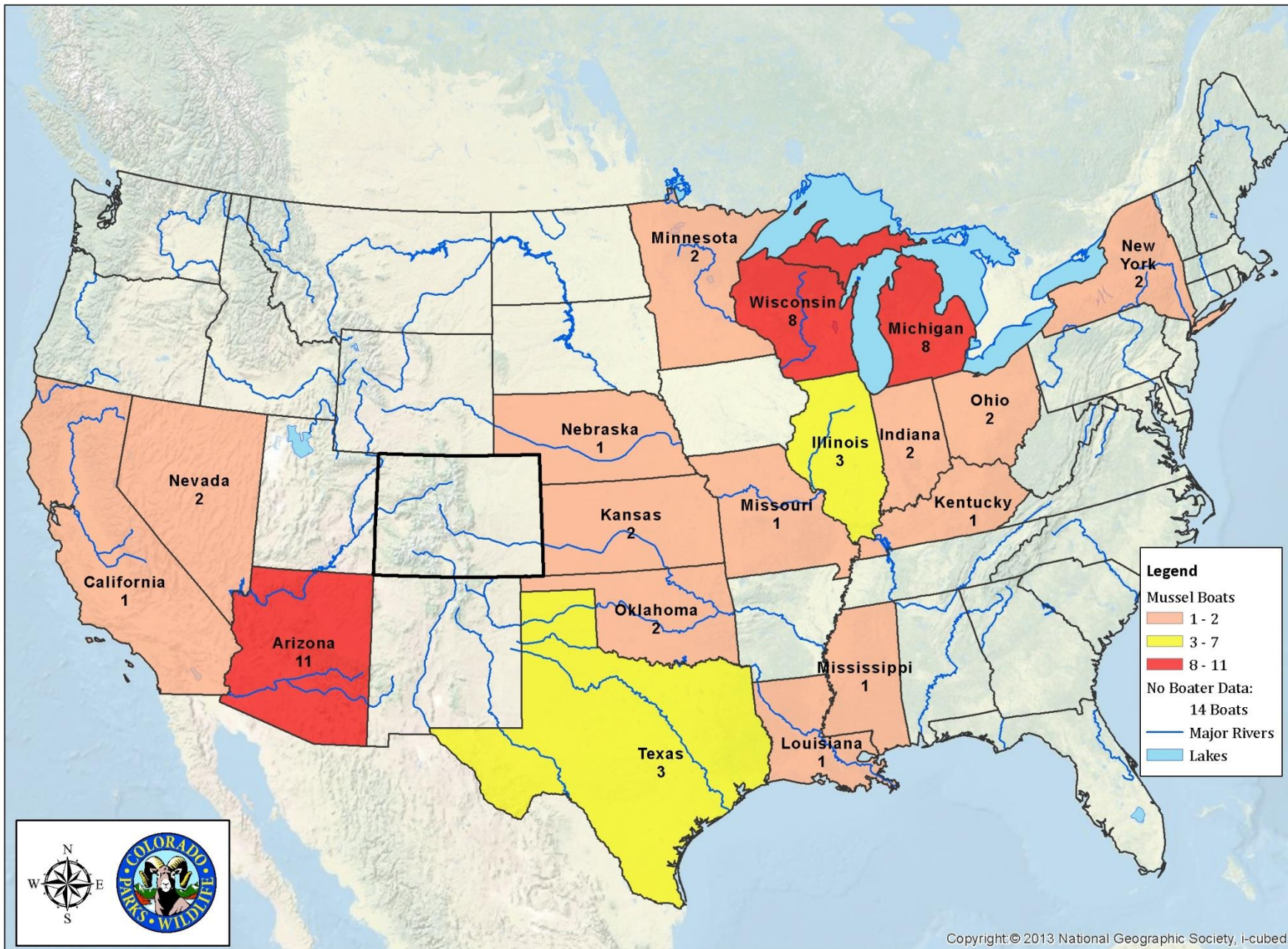
Prevention and Containment: Watercraft inspection & Decontamination

- Decontaminations when required
 - Full Decontamination = Mussels or other ANS detected
 - Standing Water that can't be drained or removed
 - Plants that can't be removed by hand
 - Water holding live aquatic bacteria
 - Dealer

- Take your **TIME** to decontaminate

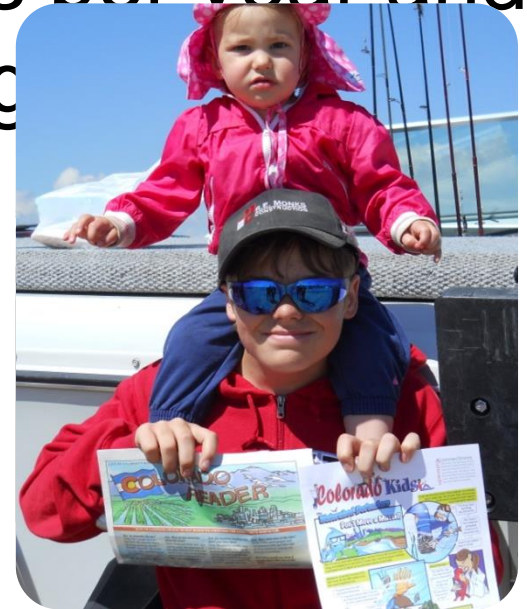
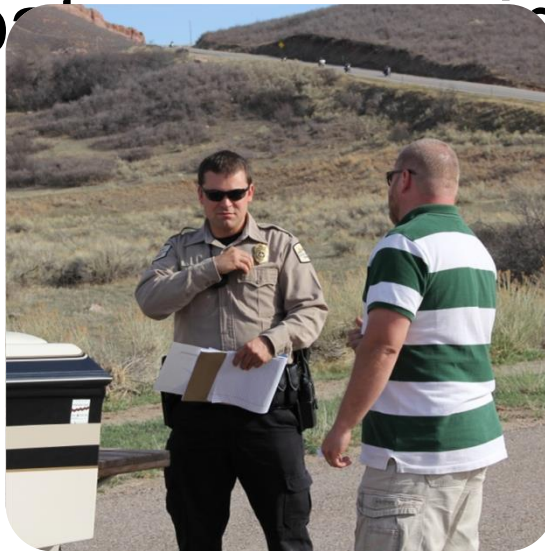


Colorado Mussel Boat Interceptions from 2009-2013



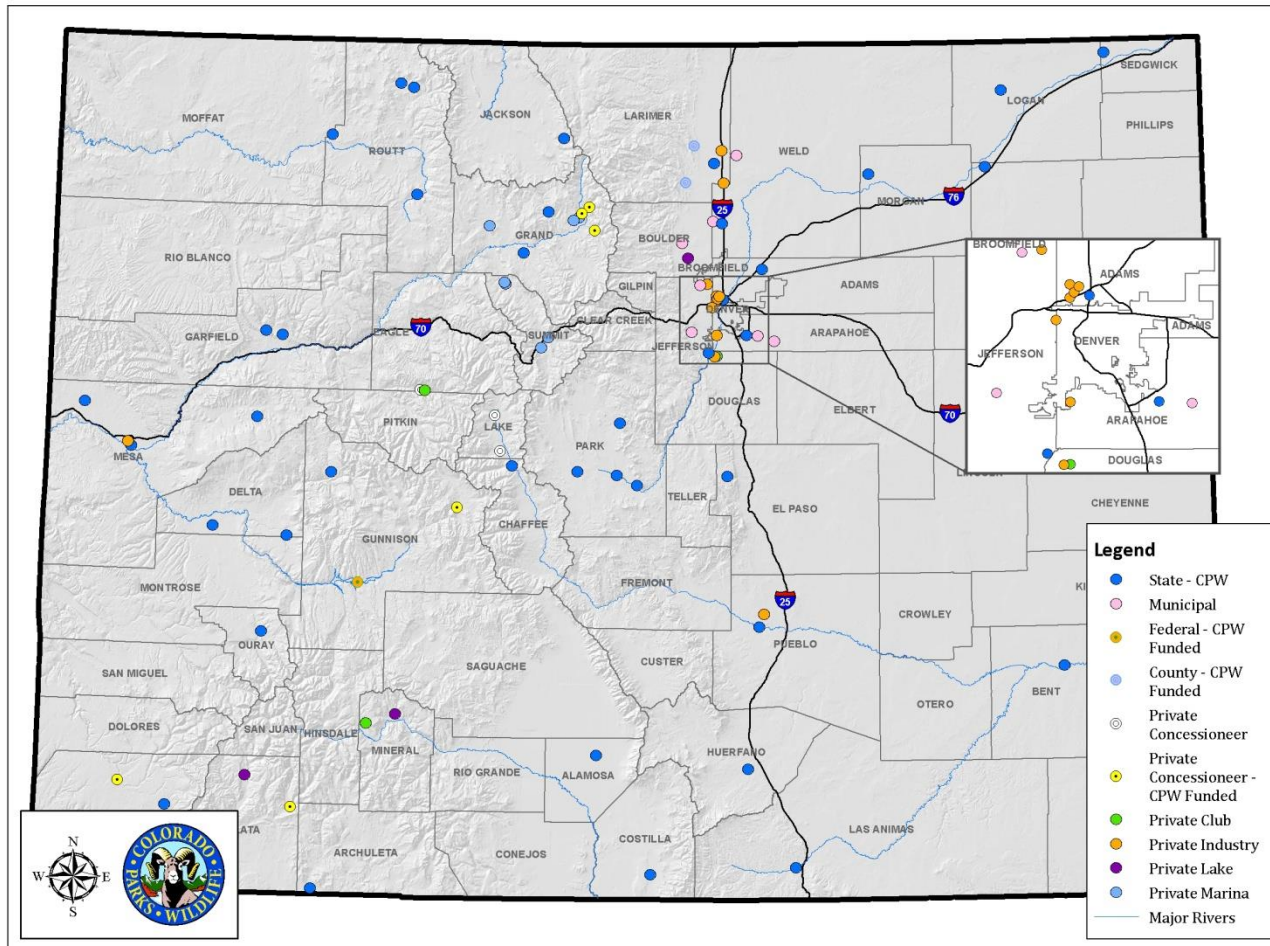
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- Every inspection is a face to face educational contact.
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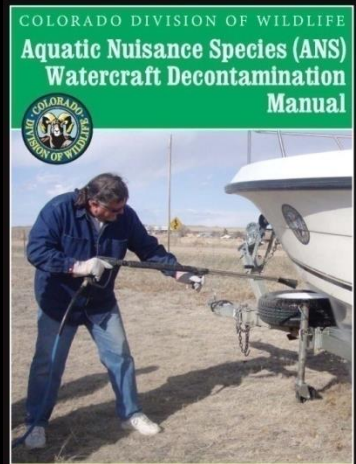
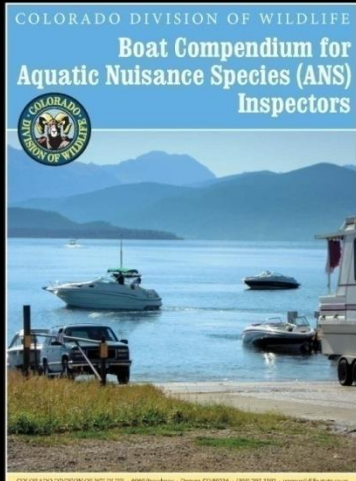
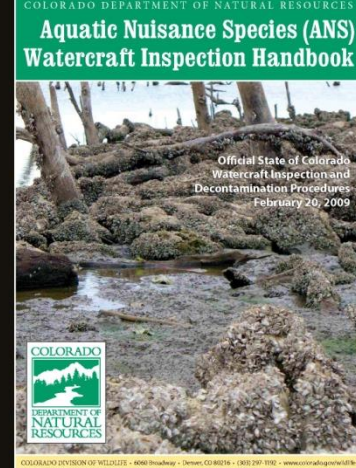
A Multi-Jurisdictional private-public partnership

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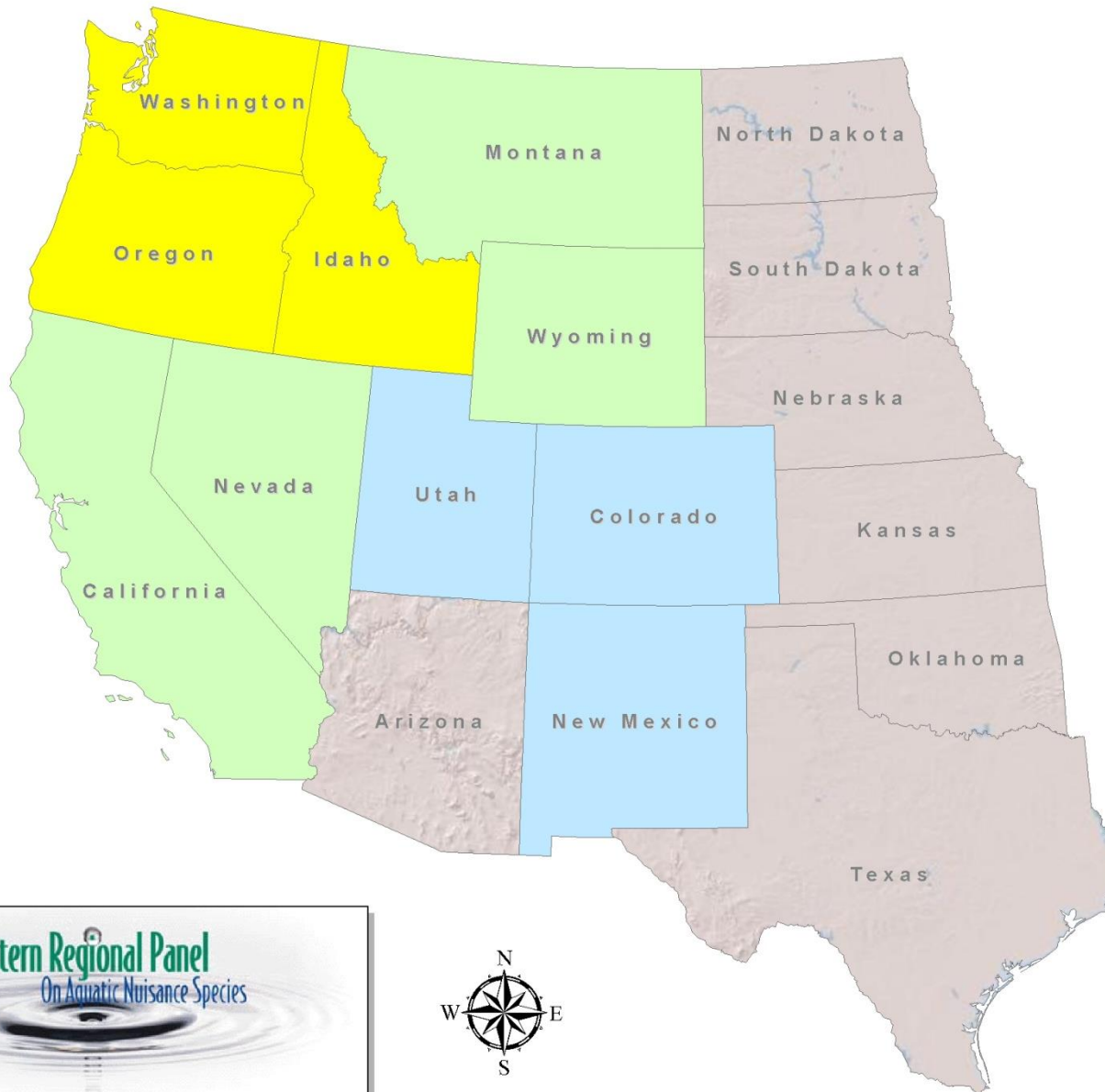


WID Protocol Development

- 2009 ANS Watercraft Inspection Handbook
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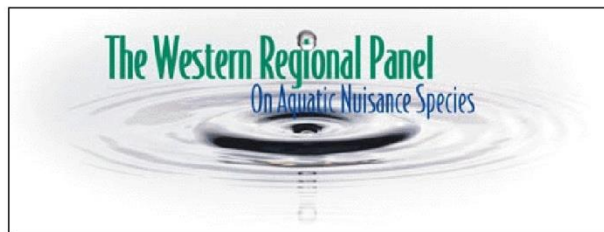


Watercraft Inspection and Decontamination Models



WID Models

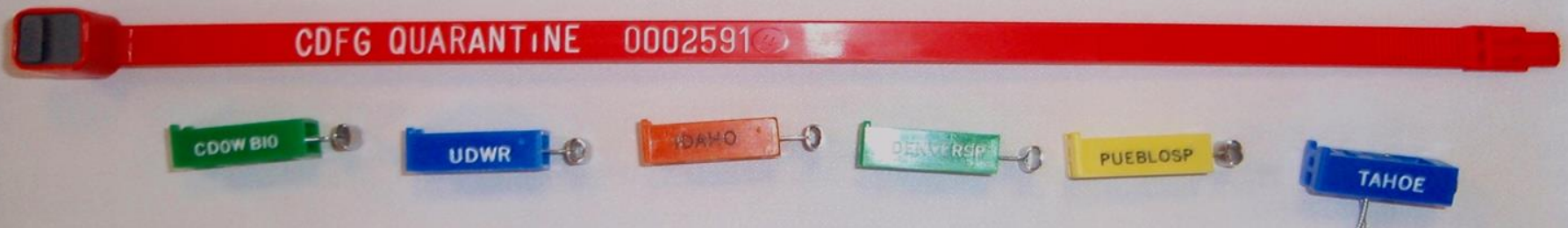
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-  Hybrid
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 - Preventing the spread of zebra and quagga mussels is top priority for members.
 - Authored the QZAP per request of the ANSTF.
- WISCE

State Coordinators formed WISCE to better



The quagga zebra action plan for western waters (QZAP)

- Requested of WRP in October 2008
 - Submitted to ANSTF in October 2009
 - Approved by ANSTF in February 2010
 - Evaluated by WRP in September 2013
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- The image shows a person's hands holding a large, dark, textured mass of quagga and zebra mussels. The background is a body of water, likely a lake or river, with a rocky shoreline in the foreground. The mussels are densely packed and have a characteristic greenish-brown color.
- The goal of the QZAP is to summarize current strategies to address the invasion of zebra and quagga mussels in the West, and to identify and prioritize the specific actions that are needed to comprehensively prevent the further spread of these mussels, respond to new infestations, and manage existing infestations.
 - Funding provided by USFWS in 2010, 2012, 2013 and 2014

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- Attorney Generals
 - Agency AIS Coordinators
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 - Facilitators
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Results of Phoenix

AN ACTION PLAN TO IMPLEMENT LEGAL AND REGULATORY EFFORTS TO MINIMIZE EXPANSION OF INVASIVE MUSSELS THROUGH WATERCRAFT MOVEMENTS IN THE WESTERN UNITED STATES

- *Federal and National Actions (10)*
- *Regional Actions (11)*
- *State Actions (6)*
- *Local Actions (1)*



Building Consensus in the WEST

- Facilitated sessions among State Coordinators to accomplish Phoenix Action Plan Items and create a positive forum for effective QZAP implementation.
- Shared knowledge of existing programs
- Definitions
- Legal Authority
- Standards
- Communication
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- Reciprocity



Building Consensus in the WEST: Results

- WY, MN, CO piloted reciprocity and accepted each others seals and receipts in 2014.
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Training standards Workgroup

- WRP Members
 - CPW, PSMFC, NPS, AZ, CA, WY
- Final Products Being Produced
 - WID Trainer's Manual & Toolkit
 - WID Student Procedures Manual
 - Uniform Minimum Protocols and Standards III (UMPS)
 - New Website



WRP Recreational Ballast TANK Filter Workgroup



- In the interest of finding solutions for boaters and managers to reduce the likelihood of mussels moving on watercraft, a concerted effort was put towards ballast tanks.
- Ballast tanks are challenging for WIDS because we can not see inside them, we can not feel them and we can not fully drain them.
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Marine Manufacturer's Workgroup

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Future... Where are we headed?

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- Sampling Lab Standards for QC
 - Rocky Plains Fish Pathologists and AFS
- Expanding Multi-State Reciprocity for Boats with Seals and Receipts
 - and so much more...



Thank you!

Visit the Building Consensus and WRP's Website:

<http://seagrant.oregonstate.edu/invasive-species/invasive-mussels-west>

<http://www.fws.gov/answest/>

Contact Information:

Elizabeth Brown

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Leah Elwell, WRP Coordinator

Office: 406-222-7270

Leah@stopans.org



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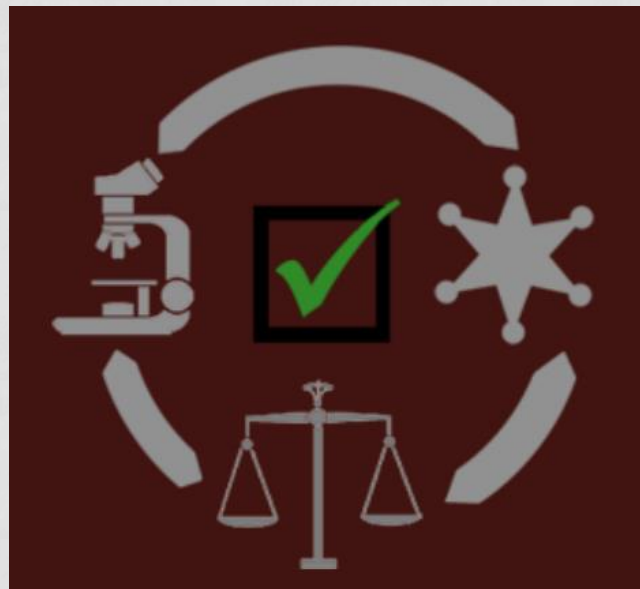
MODEL WID LEGISLATION: LAYING A FOUNDATION FOR RECIPROCITY

Stephanie Showalter Otts, Director
National Sea Grant Law Center



STEP 1: BUILD POLICY CONSENSUS

AIS
Coordinators



Law Enforcement

Assistant Attorneys
General

WHY?

- Create a foundation for interstate reciprocity with respect to watercraft inspection and decontamination.
- Common legal framework can facilitate:
 - Formal adoption of standard protocols;
 - Acceptance of other states' paperwork;
 - Increased boater compliance;
 - Improved enforcement.

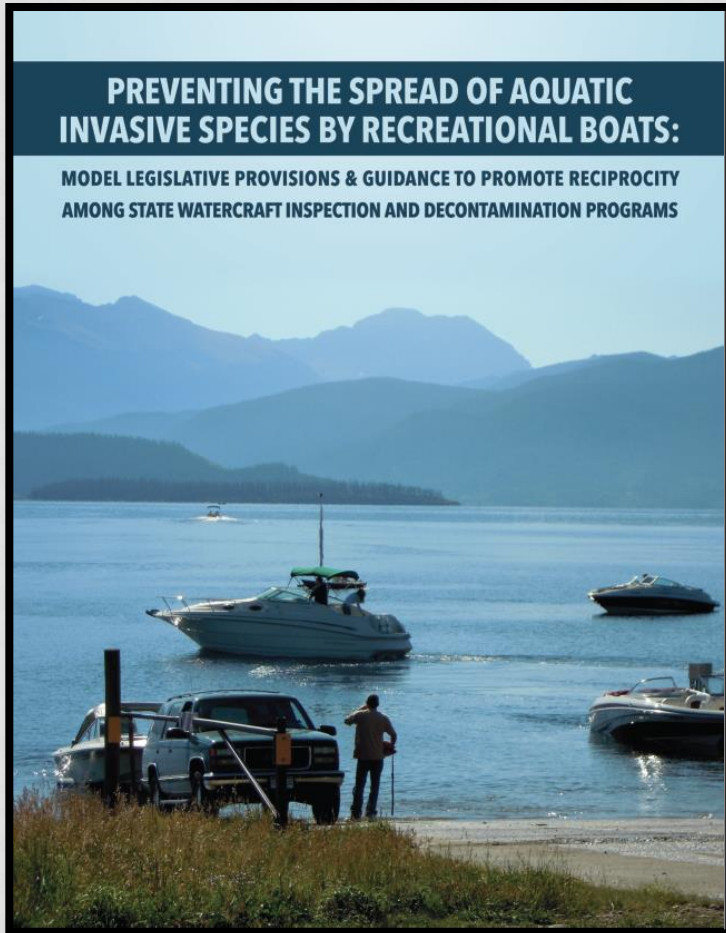
HOW?

- Step 1a – Legal Research
 - What is the existing legal framework for watercraft inspection and decontamination in the western states?
 - What are the legal barriers (real and perceived)?
 - Search and Seizure
 - Privacy
 - Lacey Act
- Step 1b – Facilitated Face-to-Face Meetings
 - Convene AIS Coordinators, Assistant Attorneys General, Law Enforcement Officials in the same room.
 - Phoenix, Arizona – August 22-23, 2012
 - Denver, Colorado – August 13-15, 2013 and February 11-13, 2014

STEP II: TRANSLATE POLICY INTO LEGISLATION

- Multidisciplinary Working Group lead by National Sea Grant Law Center and Association of Fish and Wildlife Agencies.
- Approach:
 - Identify what statutory authorities are needed to implement consensus policies.
 - Draft model legislative provisions to provide guidance on how states might provide such authority.

MODEL LEGISLATION



- Core Legislative Package
 - Elements needed to opt into hypothetical reciprocal program.
- Supplemental Authorities
 - Additional powers for states to consider.
- Explanatory Notes
 - Rationale
 - Application

STEP III: GAP ANALYSIS

- How do states' existing laws compare to the Model? What are the commonalities, differences, and gaps among states?
 - 16 states (and Lake Tahoe, NV and Lake George, NY) have WID Programs.
 - Most state legislation already provides relevant agencies with the broad authorities identified in the Model.
 - However, many sub-categories of inspection and decontamination authority are missing.
 - Very few states have provisions related to Certification.
 - 15 states have elements in place that provide a foundation for a WID program.
 - 19 states have no relevant provisions.

NEXT STEPS

- Release of gap analysis in October 2014.
- Development in 2015 of model regulations to guide implementation of consensus policies for:
 - Waterbody classification;
 - Inspector training;
 - Inspection and decontamination protocols;
 - Certification of inspection and decontamination;
 - Others.

FOR MORE INFORMATION

Visit the NSGLC's Project Website:

<http://nsglc.olemiss.edu/projects/model-legal-framework/index.html>

Contact Me:

Stephanie Showalter Otts
National Sea Grant Law Center
University of Mississippi School of Law
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University, MS 38677

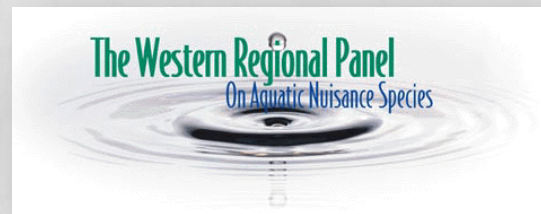
(662) 915-7714

sshowalt@olemiss.edu

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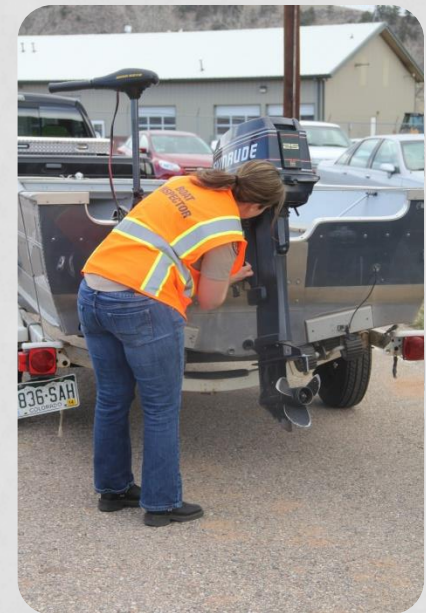
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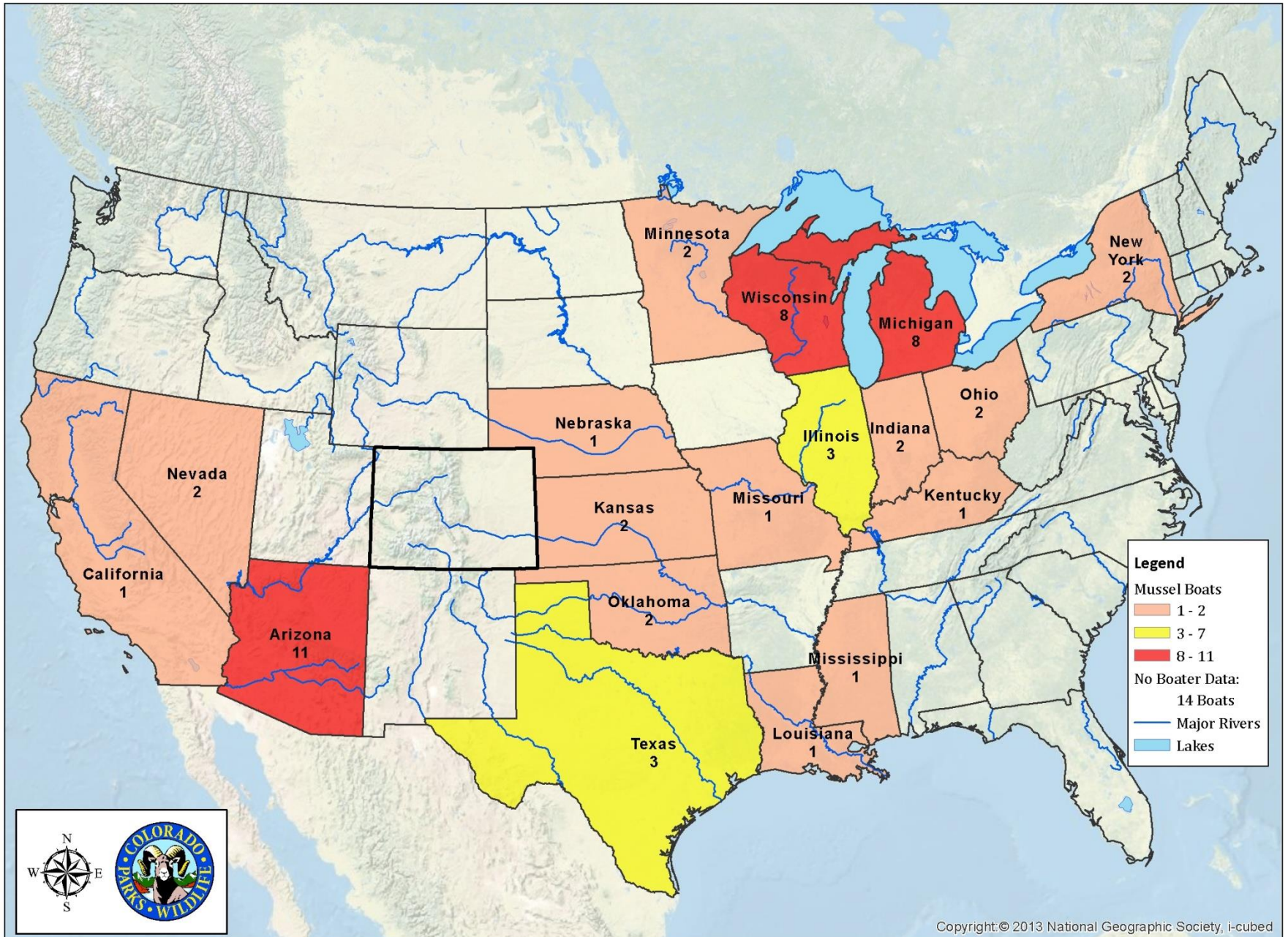


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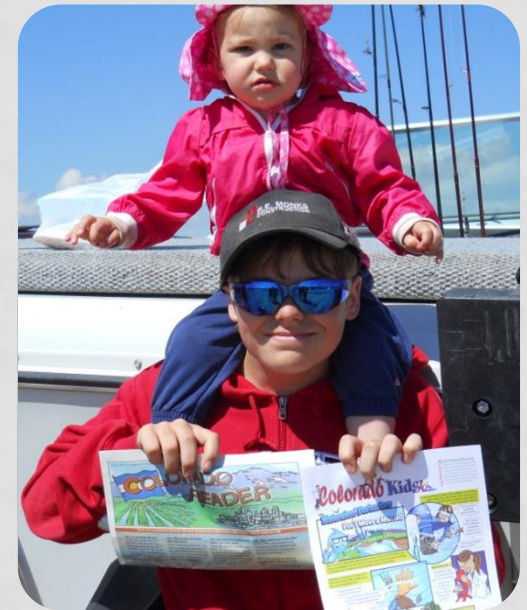
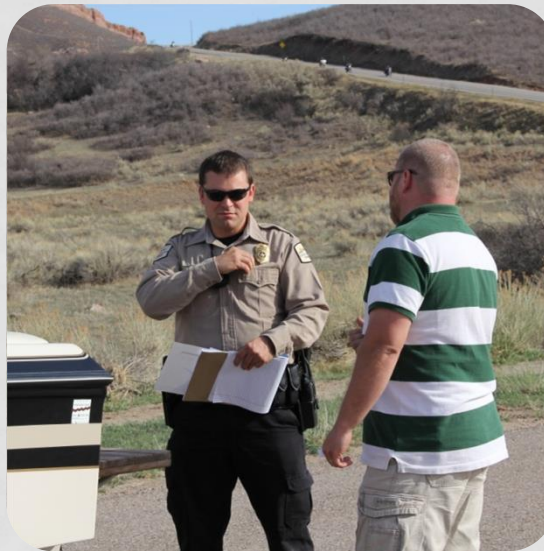


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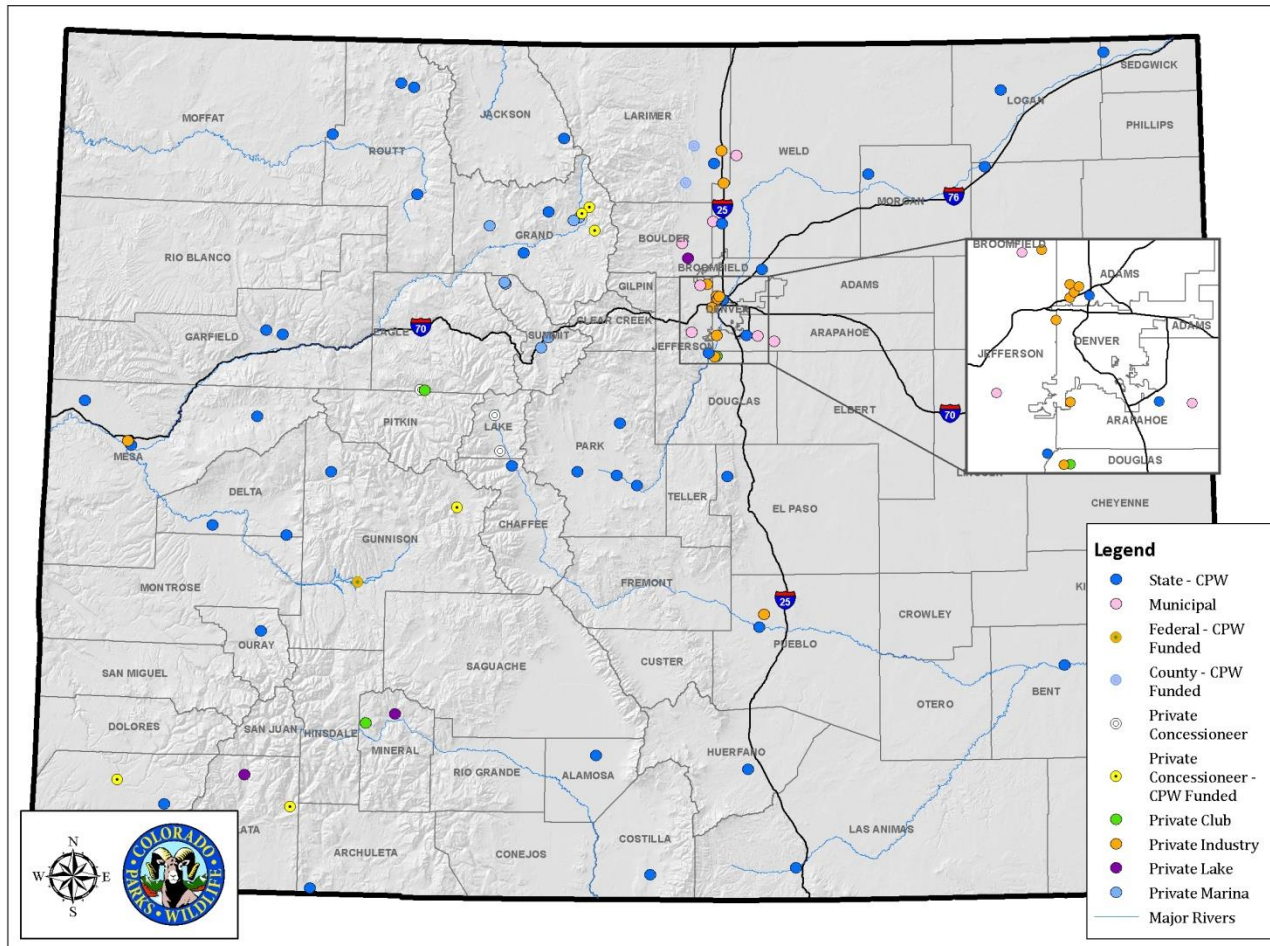
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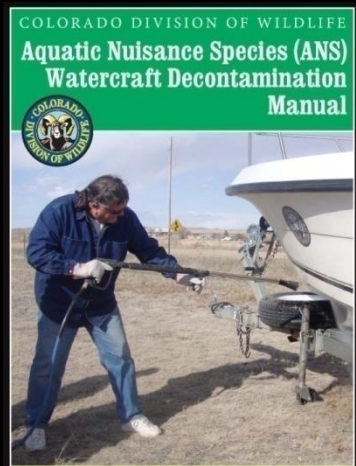
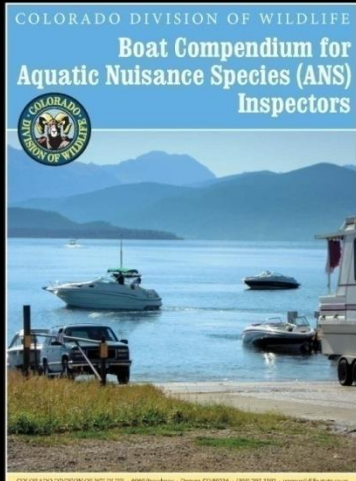
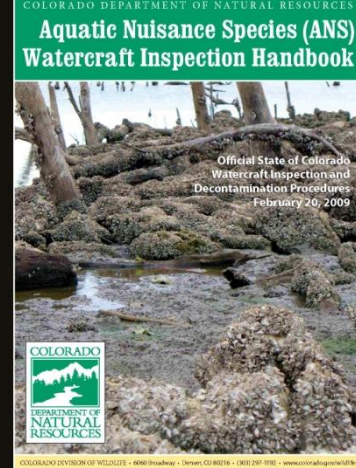
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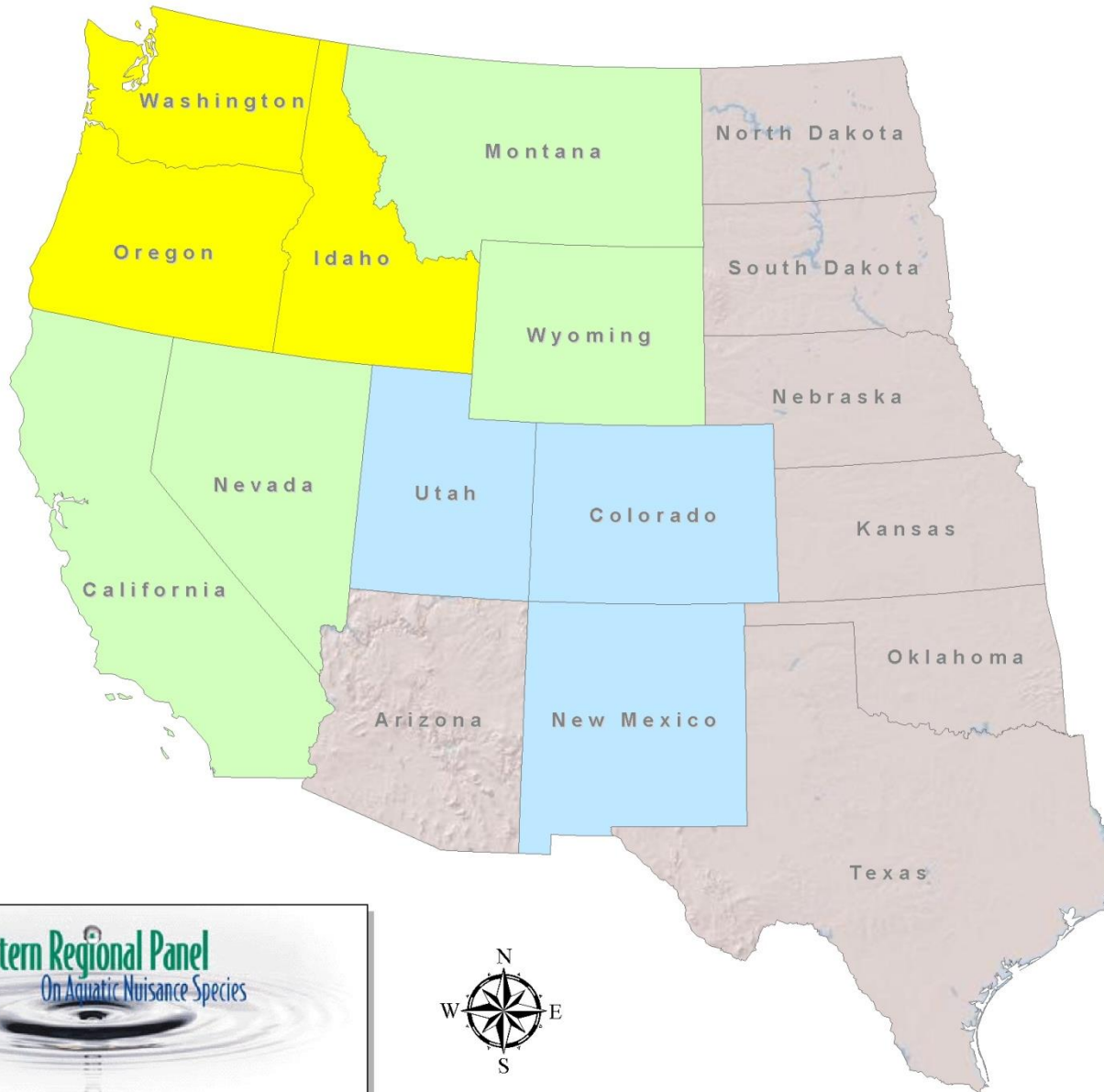


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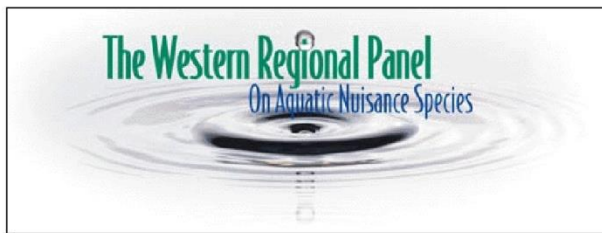


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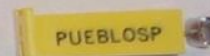
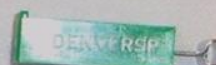
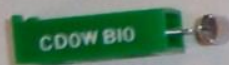
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TRAINING STANDARDS WORKGROUP

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- Final Products Being Produced:
 - WID Trainer's Manual & Toolkit
 - WID Student Procedures Manual
 - Uniform Minimum Protocols and Standards III (UMPS)
 - New Website
- Final – WRP in September 2014



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Considerations When Establishing Boat Inspection Programs

Bob Wiltshire

Invasive Species Action Network

Livingston, MT

Types of Inspections

- **Prevention**
 - Prevention programs focus on inspecting arriving boats to interdict fouled watercraft prior to launching in the target waters
- **Containment**
 - Containment programs focus on inspecting departing boats to insure they do not carry AIS to other waters

Inspection Station Locations

- **Roadside**
 - Roadside stations focus on stopping boaters travelling on specified routes
- **Boat Ramp**
 - Boat ramp inspections serve just a single access point

Purpose and Focus

- Inspections present a limited opportunity to interact with boats & boaters.
- The primary objectives of an inspection need to be fully planned
 - Inspection objectives
 - Outreach objectives

Inspection Objectives

- Exterior fouling
 - Hull, trailer, motor
- Interior fouling
 - Ballast tanks, live wells
- Standing water
 - Bilge water, water in motor
- Accessories
 - Anchor & rope, life jackets, water “toys”

Inspection Considerations

- Statute and rules may have a profound impact on how inspections are conducted
 - Mandatory or voluntary
 - Access to interior compartments or not
 - Live fish in livewells
 - Live bait
 - Standing water - legal or not
 - Access to accessories
- Hours of operation

Physical Considerations

- Access to location
 - Will you stop traffic from both directions?
 - Will you encourage left-hand turns across traffic?
- Composition of crew
 - 1 crew or 2
- Signs
- Will boater accompany inspector?

Additional Inspection Considerations

- Balance between time and thoroughness
- Will you include boater engagement?
 - Pull drain plug
 - Lower motor
- Will you “band” boats?
 - Will you establish reciprocity?
- Data management

Outreach Objectives

- **AIS Knowledge**
 - Inspections provide a great opportunity to increase awareness of AIS
- **Boater Actions**
 - Changing behavior is critical to AIS prevention and inspections are a perfect place to teach about cleaning

Outreach Considerations

- The introduction matters
 - A practiced “elevator speech” makes a big difference
 - Avoid Jargon!
- The best outreach comes from a structured process
 - Crews should be trained to have a standard approach to providing outreach
 - You only have a little time so use it wisely

Outreach Considerations

- Evaluate the need to educate about individual species
 - What is more important – increasing their knowledge about AIS species or teaching them cleaning behaviors?
- Every boater should get a strong prevention message
 - Inspection questions should lead to a discussion of boater actions
- What type of written material will you provide?
- Will you provide gifts?

Evaluating Inspection Efforts

- Evaluation is important but also very difficult
- Individual success stories will emerge but the success of the program can never be proved
- Many inspection stations are located far from any supervisory offices
- Formal evaluation programs provide significant value
 - Only a few things can be properly evaluated in a single inspection so you need to establish priorities

Learn From Others!

A lot of different boat inspection efforts are already underway and many programs have made modifications based on their actual experience.

You can gain a lot of invaluable advice by consulting with those who are already conducting inspections and they are willing to share their knowledge.

Western Regional Panel



- Elizabeth Brown – Chairperson
 - office: 303-291-7362
 - elizabeth.brown@state.co.us
- Leah Elwell – WRP Coordinator
 - Office: 406-222-7270
 - Leah@stopans.org

Invasive Species Action Network

- Bob Wiltshire
 - 406-222-7270
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2014 Invasive Species Seminar Series

Clean, Drain, and Dry! Building Consensus to Prevent the Spread of Aquatic Invasive Species via Recreational Boats

Co-hosted by the Environmental Law Institute &
The National Invasive Species Council

Monday, August 18th, 2-4pm EDT
(speaking will begin at 2:15)

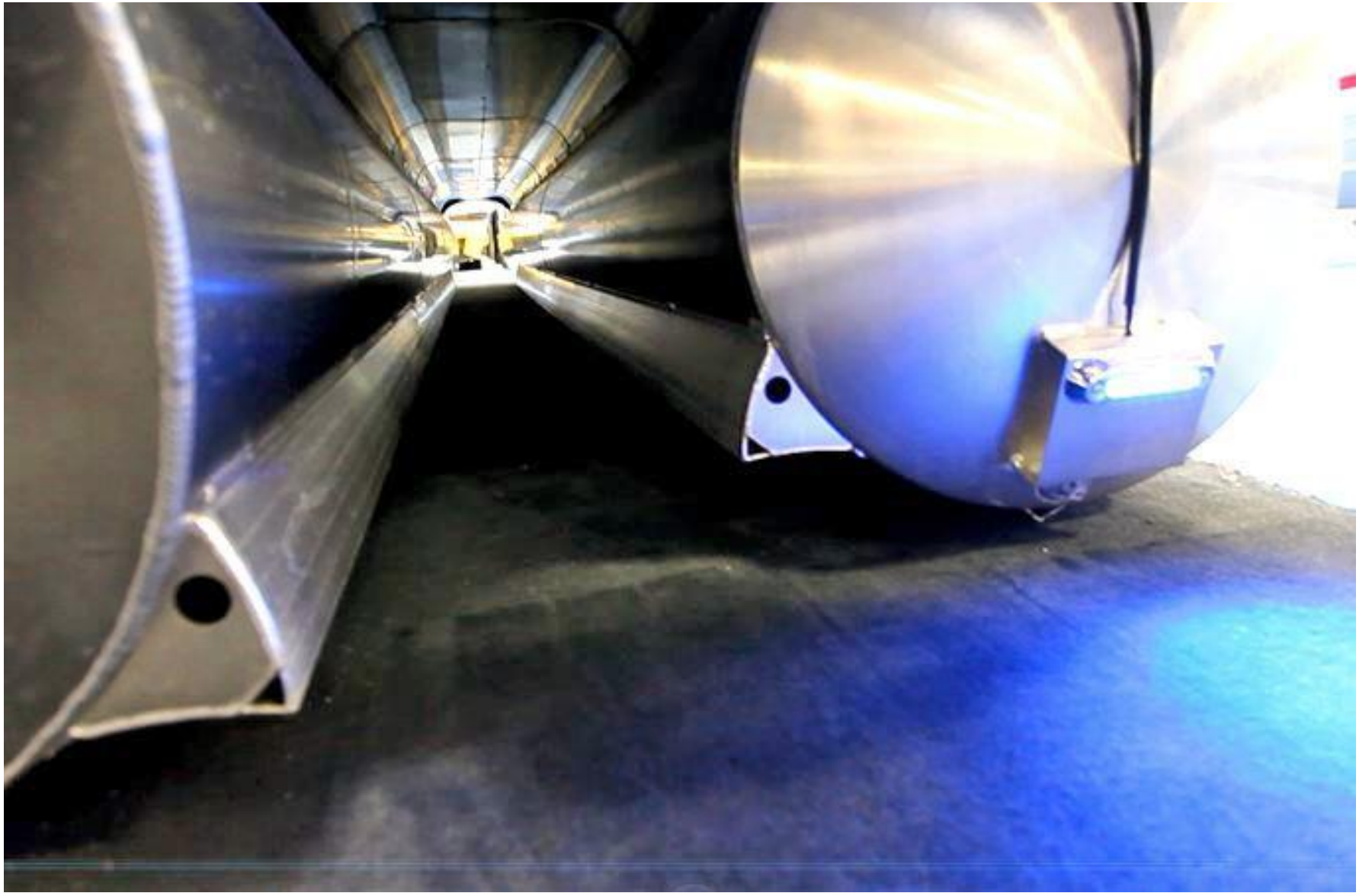
This seminar is made possible by the generous support of the Turner Foundation.

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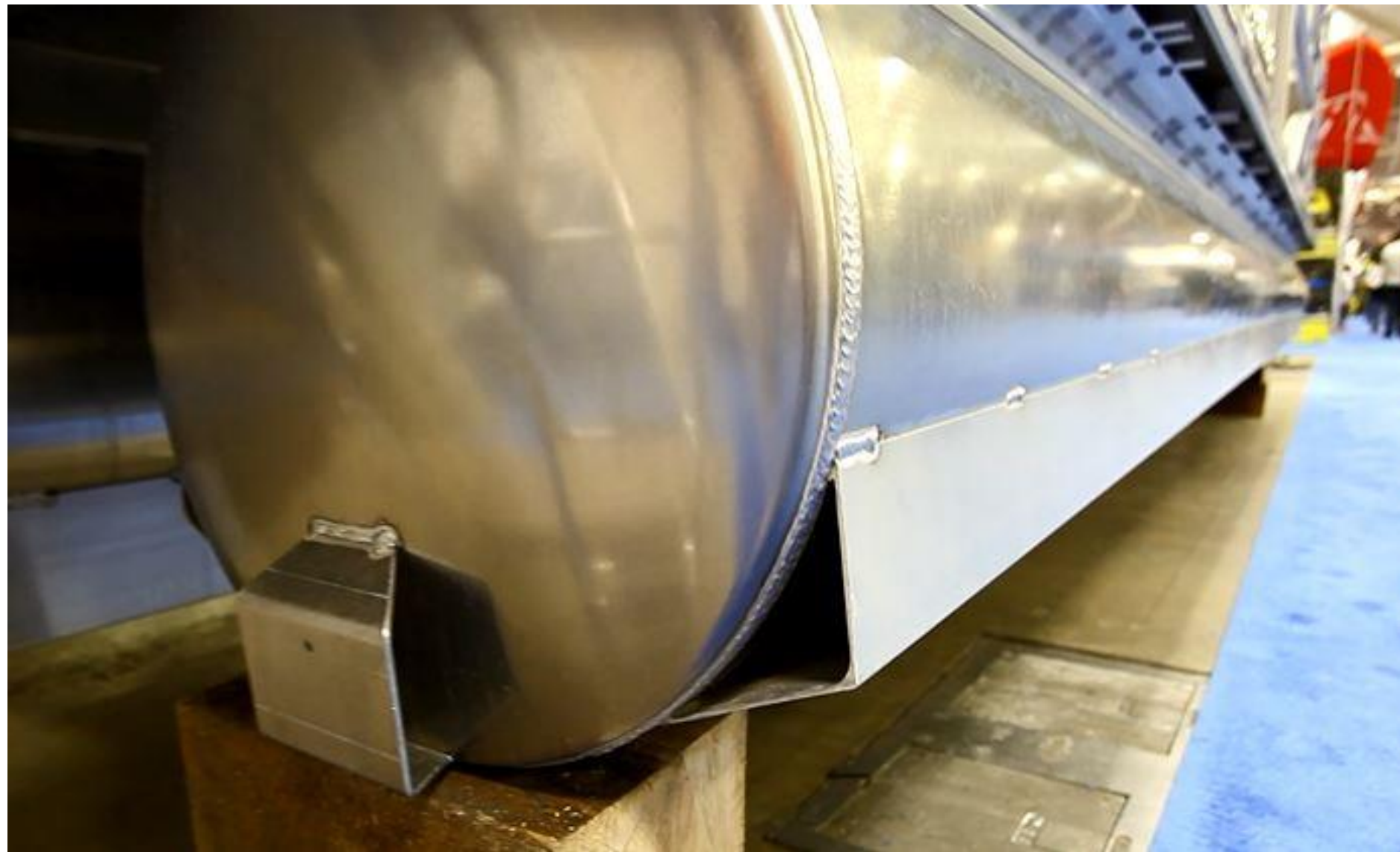


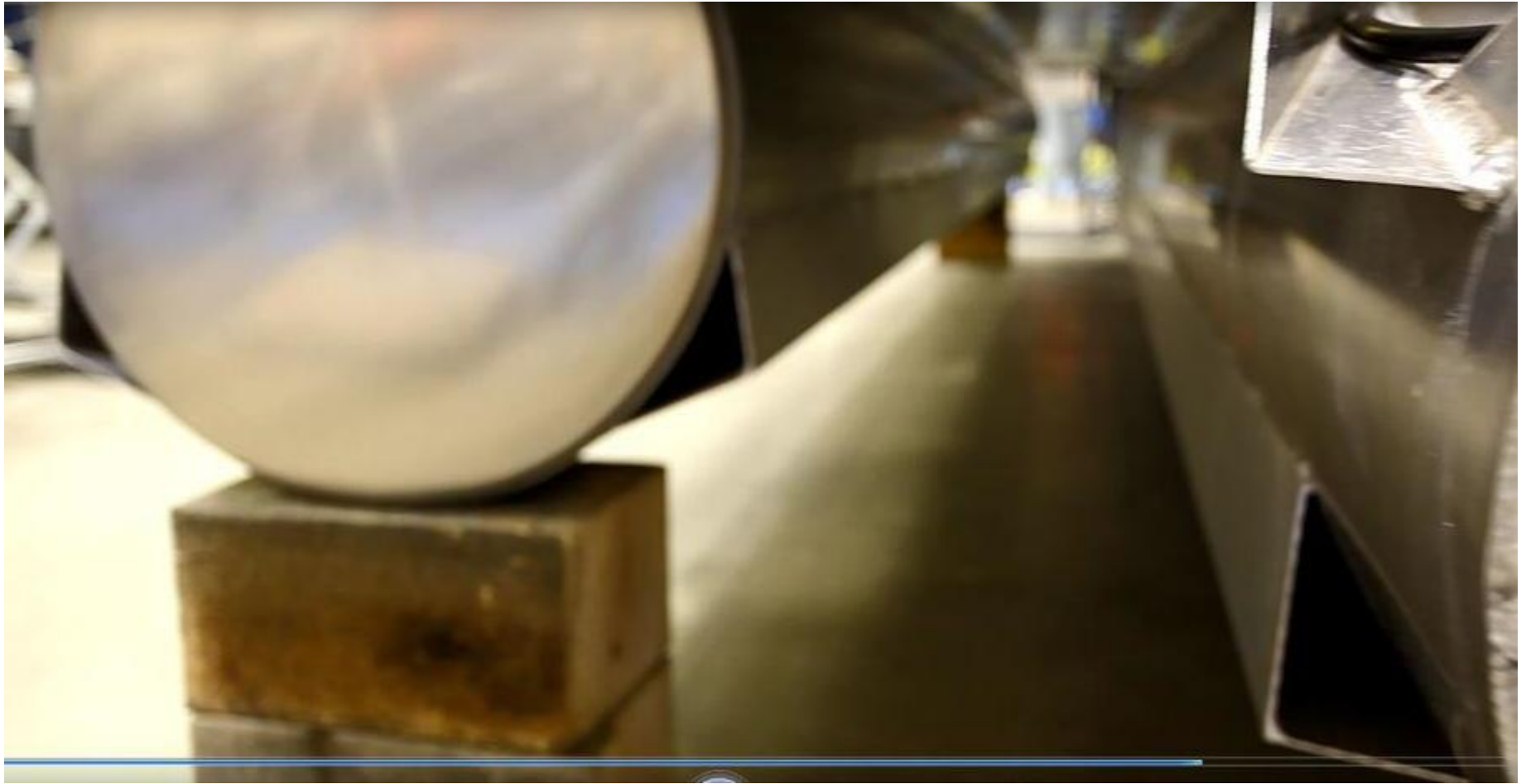




Waveglider
High
Performance
System









00:04









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SUMMIT ON INVASIVE SPECIES

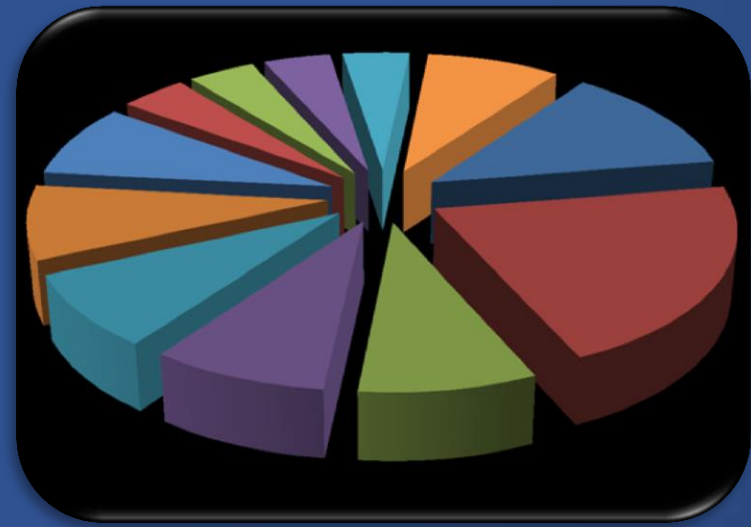
Boat Design and Construction in Consideration of Aquatic Invasive Species

Brian Goodwin
ABYC Technical Director

ABYC[®]
Setting Standards for Safer Boating

BOAT DESIGN AND CONSIDERATION IN CONSIDERATION OF AIS

**CLEAN BOATS
CLEAN WATERS**



THE SUMMIT



Tentative Date: January 27 & 28, 2015

Questions?



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