

21st International Conference on Aquatic Invasive Species October 27 - 31, 2019

Watercraft Inspection and Decontamination Programs

Western Region of the United States

"Quagga D Davis"

Stephen Phillips

Pacific States Marine Fisheries Commission





Funded By







In Cooperation With



Highest Risk Vector - Trailered Watercrafts

STATES MARILES

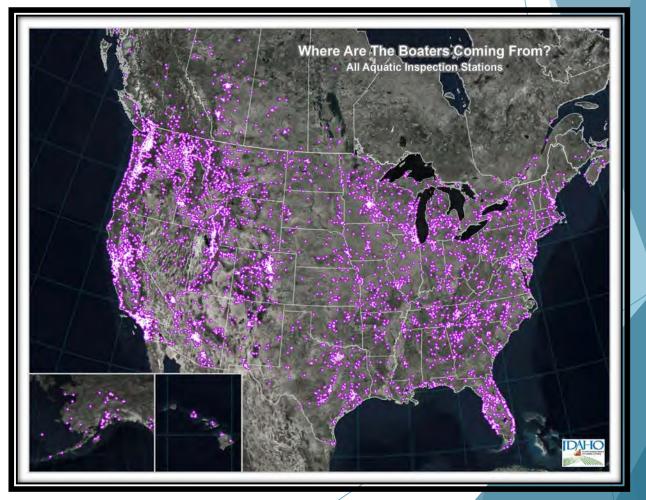
STATES MARILES

OFFERIES COMMISSION

MASHINGTON - CALIFORNIA

Implemented in early 2000's Lake Mead Quagga in 2007



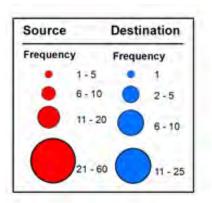


Source: Idaho Dept. Ag./S.Cox

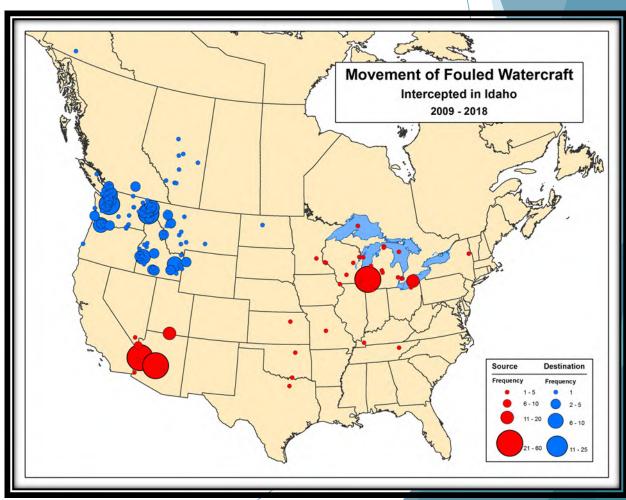
Fouled Watercraft Interceptions



Red is Frequency
where they were from
Blue is the Destination
where they were going



Source: Idaho Dept. Ag./S.Cox



Watercraft Inspection Station Models

Port of Entry

Roving

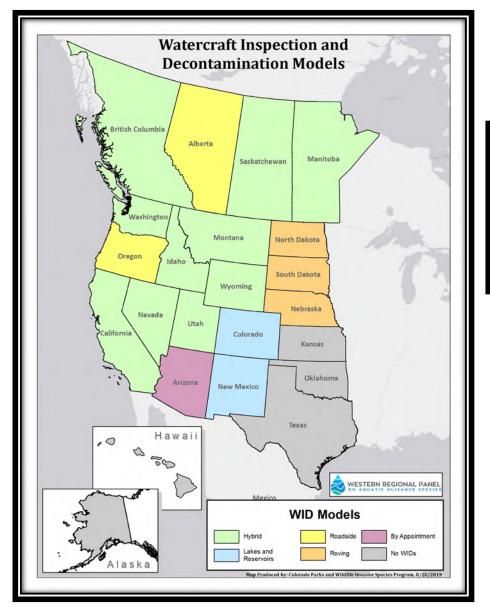
Highway

Ramp-side

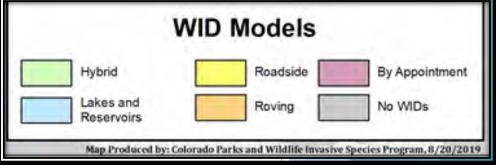
Seasonal

Temporary

Permanent







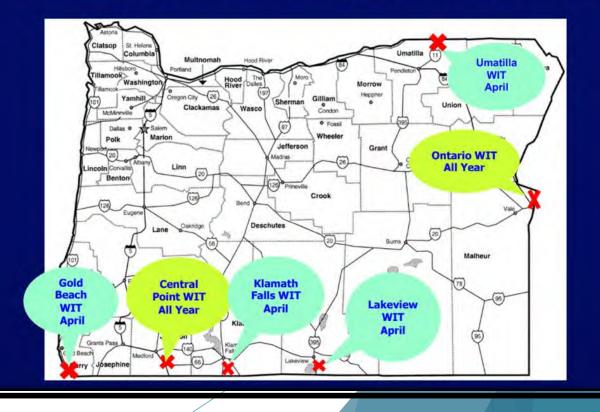
Oregon



Source: Rick Boatner, ODFW



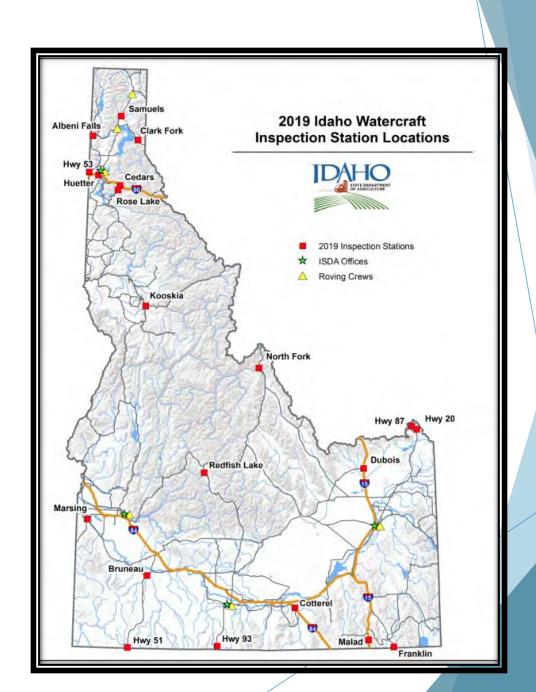
2019 Watercraft Inspection Stations



Idaho

Idaho - Began 2009
Over 720,000 Inspections
2019 Inspections - 117,862
20 Inspection stations
Extended Season
Extended Hours

Source: Idaho Dept. Ag./S.Cox





Regional Objective

Course designed for those who are implementing Watercraft Inspection and/or Decontamination programs for their respective agencies, organizations or businesses.

WIT II Inspection

WIT II - Inspection/Decontamination

WIT III - Train The Trainer

Advanced Decontamination

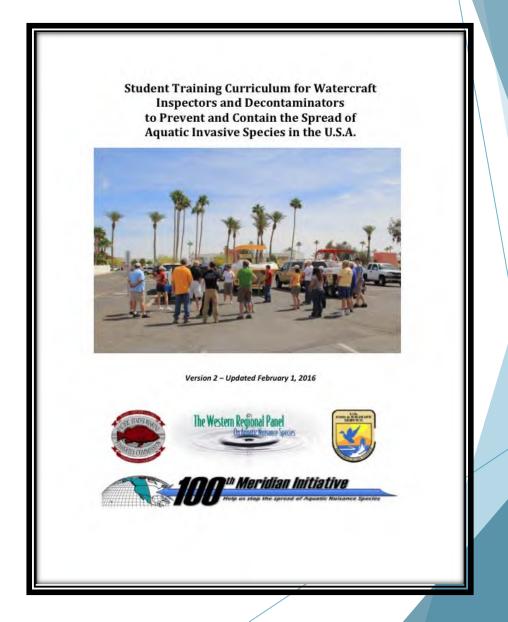




Purpose of Curriculum

To provide Procedures which have been proven to reduce the spread of AIS through a risk-based prevention and containment program.







Training Components

Student Curriculum

Introduction and Western AIS Programs
Purpose

Zebra/Quagga and Other AIS <u>Biology</u> Life Cycle and Vectors

Watercraft Anatomy and Risk Assessment Identify low/high risk vessels

Inspection Procedures

NO Mud, Plant, Animals or Water

<u>Decontamination</u> Procedures

KILL and Remove





Watercraft Inspection Training WIT I

WIT I - Inspector

Entrance/Exit Inspections
Prevention/Containment
HIGH Risk Inspections
Step By Step Procedures

How to inspect and **why** we Need to educate boaters on



Clean, Drain & Dry!!

Watercraft Inspection and Decontamination WIT/WID II



High Risk Inspection Scenarios

- Visible signs
- Recent location history

Triggers for Decontamination

Dry time not sufficient

Been in infested water last 30 days

Visible AIS or vectors

Standing Water

Plant

Bait



What Does A Decontamination Consist Of?

Hot Water to Kill
Low pressure to flush
High pressure to remove

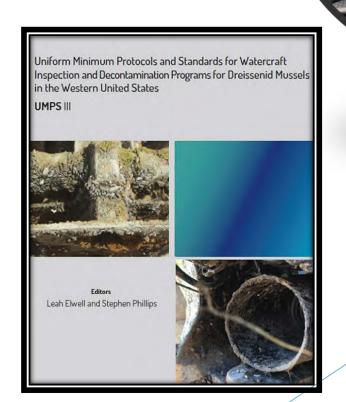
Based on Scientific Research

60°C / 140°F for 10 seconds

Morse, 2009

35°C / 95°F kills veligers

Craft and Myrick, 2011

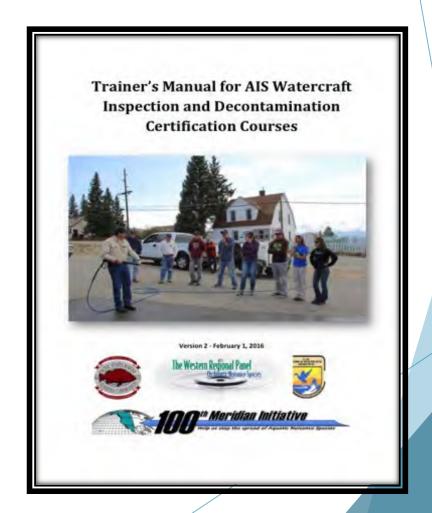




WIT III Train The Trainer

Provides consistent guidance for trainers to train adults!

- Training Methods
- Preparing for Class
- Guidance By Chapter
- Presentation Tips
- Quality Assurance Measures
- Additional Resources



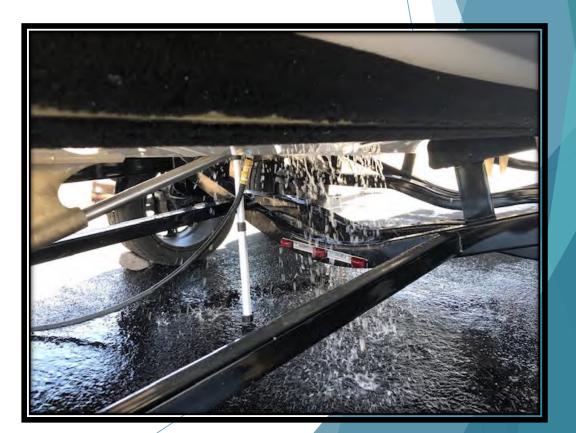


Advanced Decontamination

Advanced skills and knowledge on various complex watercraft systems and propulsion types

Effective flushing methods with attachments tools







Education and Outreach

Education and Outreach are the MOST important thing to provide to the boating public.

Each inspection is an opportunity to educate the boater and change behavior by teaching them!







Quality Assurance

Ensure consistency of WID Protocols across jurisdictions

Provide support to field stations

Secret Shopper Evaluations

On the Job Training

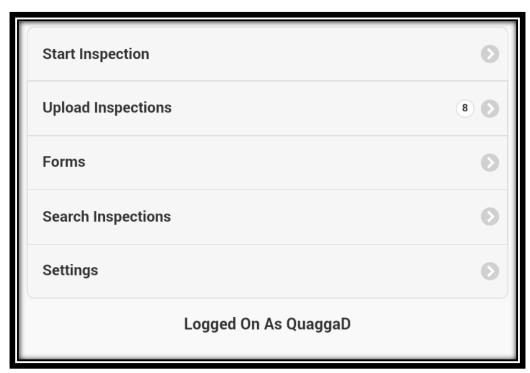
Customer Service Evaluations



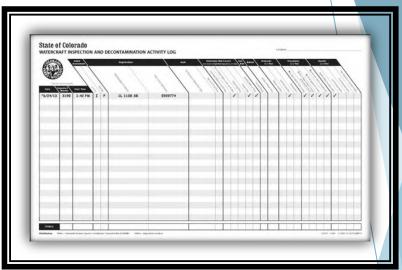


Western States Watercraft Data Sharing

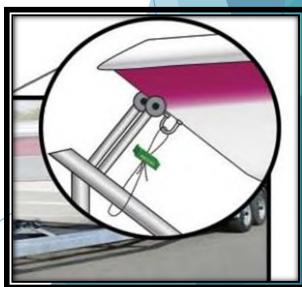
Boater movement Information in "real time"











Challenges

► Staffing, Funding and Housing

Seasonal

Soft \$\$

Remote Locations

► Consistent Messaging and Protocols

Different triggers for "High Risk" inspections

▶ Decontaminations or Dry Time

BOATS CONSIDERED "HIGH-RISK" TO THE STATE OF IDAHO

- Boats that have been in mussel-infested states recently (within the last 30 days).
- · Watercraft coming from another state (especially commercially hauled boats).
- · Boats that show a lot of dirt, grime, or slime below the waterline.
- · Boats that have standing water on board.







Aquatic Invasive Species Network

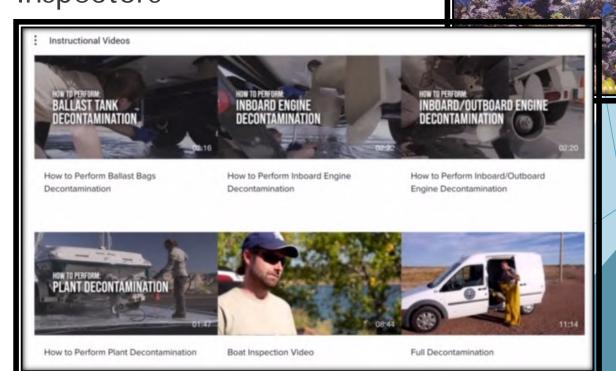
https://www.westernais.org/

UMPS III - Uniform Minimum Protocols and Standards

Lake Tahoe's Boat Book for Inspectors

Instructional Videos -

- Boat Inspection
- Decontamination
- Decon Units
- Sample Collections
- Plant Decontamination





Aquatic Invasive Species Network

Thank You

Questions??



Lake Mead Quagga Updates



Lake Mead Quagga

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702-236-3814





Watercraft Inspection Training program

http://www.westernais.org/

See training Tab