

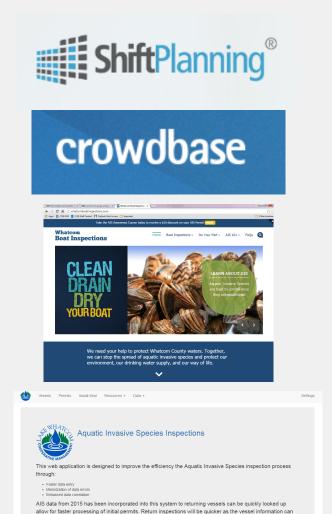
Whatcom Boat Inspections: Using technology to build a better AIS Program

CRB Team Meeting Portland, OR December 7, 2016



Challenges

- Scheduling
- Crew engagement
- Community outreach
- Information sharing
- Data collection and access



Use the navigation bar at the top or click buttons below to start accessing vessel information. Be sure to check out the 'Settings' section as it contains important data, security and logging features.

be retrieved and verified instead of being re-entered.

How can we use technology to overcome some of these challenges?

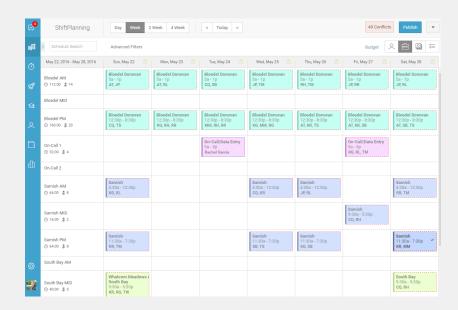
Scheduling

- Staff work a varied schedule at multiple sites
- Challenge: How to see and make shift changes in real time
- Solution: ShiftPlanning

Scheduling

ShiftPlanning

- Real-time access to schedules
- Easily viewed on mobile devices
- Timeclock options
- Vacation management
- Message board





Crew Engagement

- There aren't always boats to inspect at the check stations
- Challenge: How to keep the crew engaged during slow periods
- Solution: Crowdbase

Crew Engagement

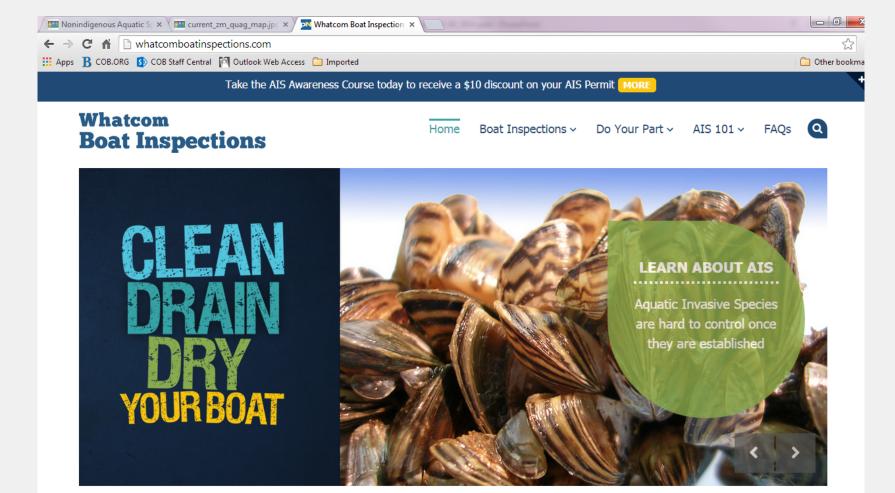
- Crowdbase
 - Crew portal for AIS information, news, and resources
 - Share resources with each other
 - Stay informed and engaged in AIS issues from around the globe





Community Outreach

- We want our community to be informed
- Challenge: How can we share our message with the community
- Solution: website and AIS Awareness Course



We need your help to protect Whatcom County waters. Together, we can stop the spread of aquatic invasive species and protect our environment, our drinking water supply, and our way of life.



Whatcom Boat Inspections

Aquatic Invasive Species Awareness Course







Take the Online Course Today: www.whatcomboatinspections.com

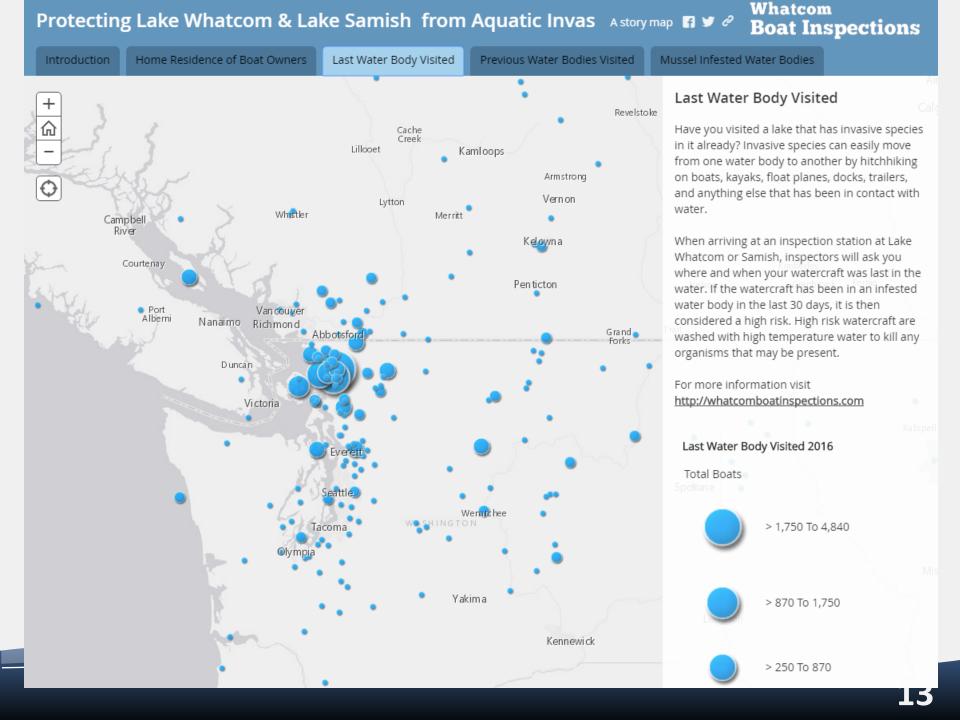
Information Sharing

- How can we share our inspection results with the community?
- Solution: ESRI Story Map and online annual reports

Information Sharing

- ESRI Story Map
 - Share boater survey information with the public
 - where are boaters coming from?
 - where are they going?
 - what risk do they pose to our local waters?

http://whatcomboatinspections.com/2016-story-map



Data Collection

- Data collection and access challenges:
 - Handwriting legibility
 - Data entry errors
 - Data entry lag time
 - No access in real time
 - Repetitive for boaters
- Solution: Inspection
 Web Application





Inspection Web Application

- More efficient inspections
- Access to real-time data
- Real-time risk assessment
- Waterbody database
- Minimize handwriting errors
- Minimize staff time spent entering data
- Reduce paper usage
- Boat profile picture



More time to do other things....like MONITORING!!

Inspection Risk Assessment

- Risk Score
 - Vessel Acquisition
 - Vessel Features
 - Vessel Origin
 - Waterbody History
 - Inspection Results



Vessel Acquisition

- Is the watercraft brand new?
- Was the watercraft recently purchased?

Does the owner know the history of use

for this vessel?

Vessel Features

- Ballast Tanks
- Live/Bait Wells





Vessel Origin

- Is the boat from out of state?
 - Vessel Registration
 - Trailer License Plate







Waterbody History

- Where and when was the watercraft last in the water?
- Are there aquatic invasive species of concern present in that waterbody?

Where was the watercraft used in the

past?





Waterbody Database

- Waterbodies are assigned a risk score ahead of time
- This is used in the risk calculation
- Where waterbody located
- How many vessels have been there
- AIS Risk

Inspection Results

- Was the vessel clean, drained, and dry?
- Was there standing water present?
- Was the boat dirty/crusty/slimy?
- Was there any visible vegetation or AIS that had to be removed?







The Risk Calculation

All of these scores are added up to create an AIS Risk Score for the vessel and inspection.

LOW RISK = <10 Points

MEDIUM RISK = 10-19 Points

HIGH RISK = >19 Points

When dealing with a higher risk boat, get another inspector or two to assist you. If the boat is **high risk**, you should contact a supervisor/lead. No situation is the same so you will need to use this tool and your observations at the scene to determine what the best course of action is.

Score

Details

5 - LOW RISK

Last Waterbody has or is suspected to have AIS (+5)

Score

Details

12 - MEDIUM RISK

Out of State Registration - NV (+2)

Last Waterbody is new or doesn't yet have AIS risk data (+5)

History includes waterbody that has or is suspected to have Zebra/quagga mussels (+5)

Score

Details

27 - HIGH RISK

Out of State Registration - NV (+2)

Last Waterbody has or is suspected to have Zebra/quagga mussels (+20)

History includes waterbody that has or is suspected to have Zebra/quagga mussels (+5)

Examples:

- Existing vessel
- New vessel
- Activity charts
- Waterbody database

- https://staff.cob.org/apps/ais/SitePages/home.aspx
- https://staff.cob.org/training/ais/SitePages/home.aspx



Questions?



HELP STOP THE SPREAD OF INVASIVE SPECIES

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