

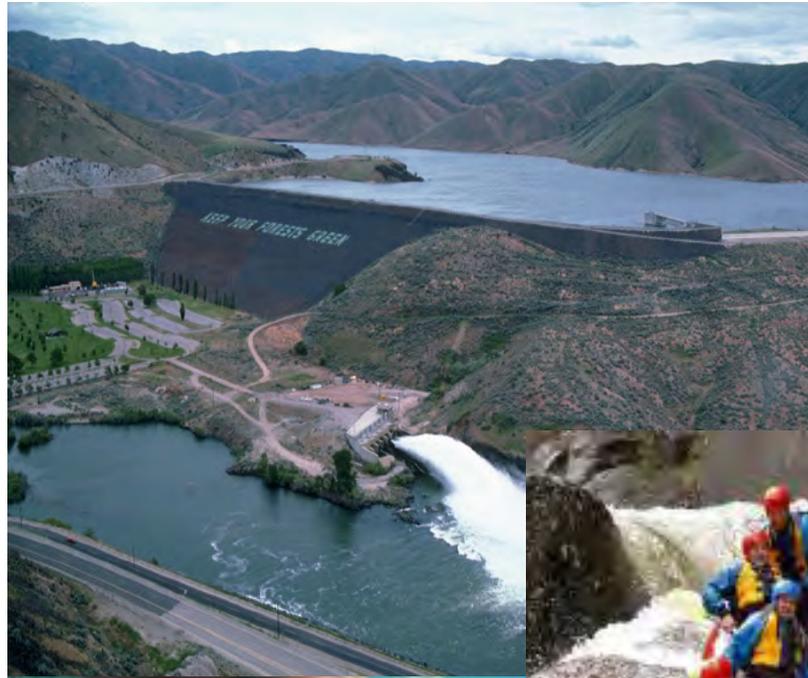
Idaho Invasive Species Program

2018 Operations



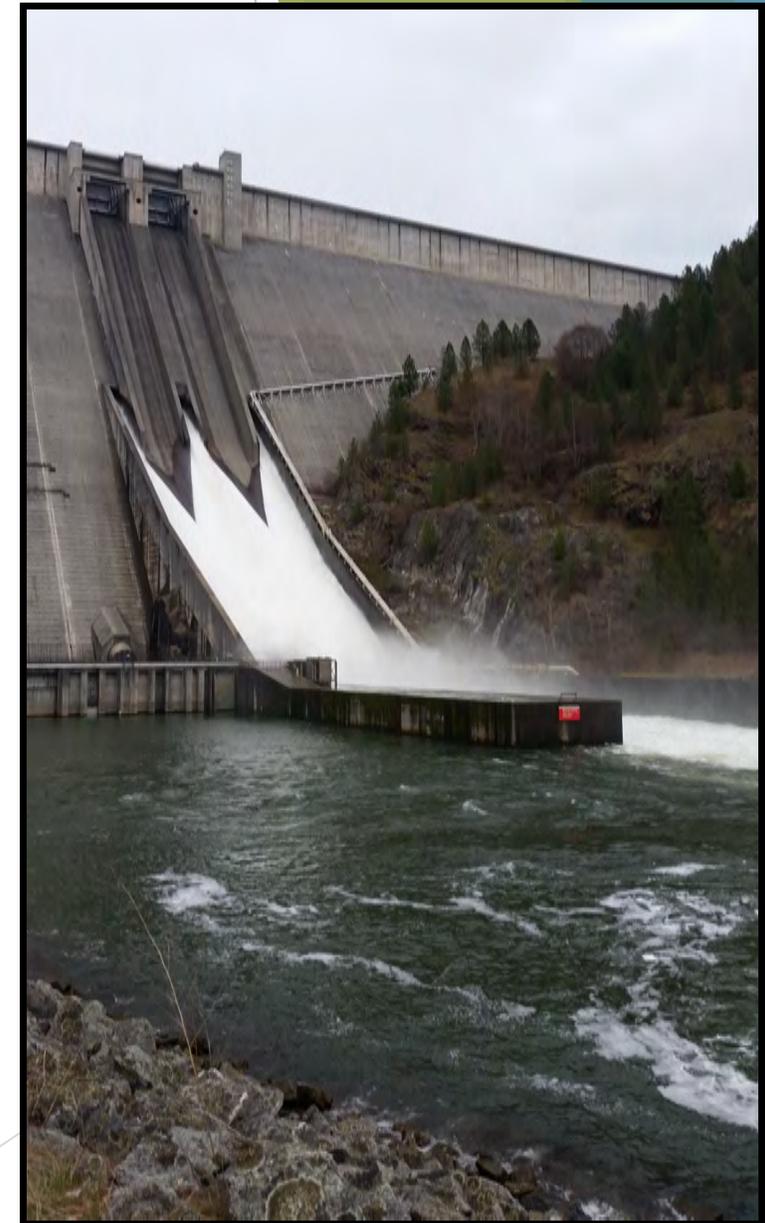
Water Resources

- ▶ Irrigation
- ▶ Hydropower
- ▶ Flood control
- ▶ Municipal water
- ▶ Fisheries & Aquaculture
- ▶ Recreation & Tourism
- ▶ Property Value
- ▶ Navigation
- ▶ Environment



Water Resources

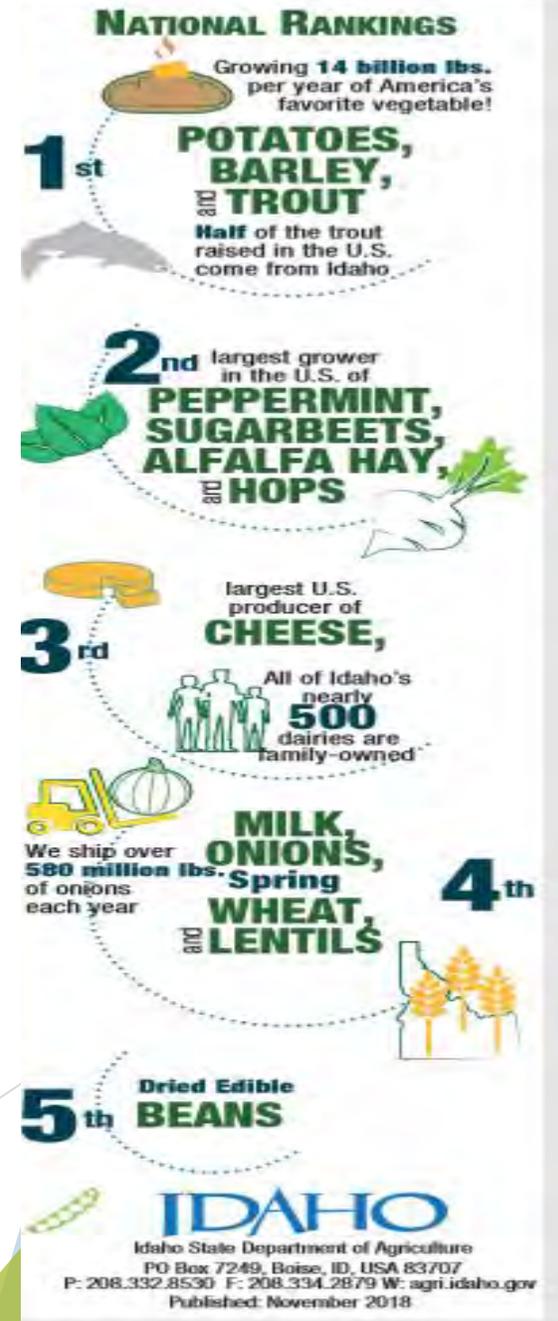
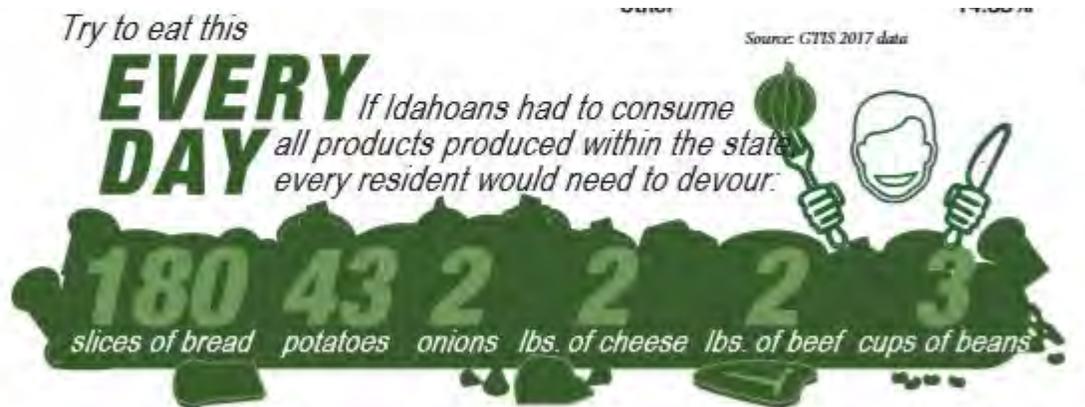
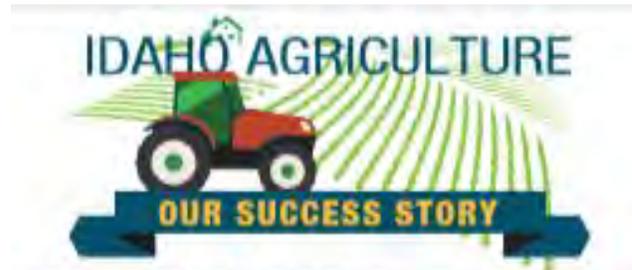
- ▶ State Water Surface Area ----- 880 Square Miles
- ▶ Largest Lake -- Pend Oreille -----148 Square Miles
- ▶ Deepest Lake -- Pend Oreille -----More Than 1,100 Feet
- ▶ Miles Of Streams and Rivers ----- 93,000 Miles
- ▶ Longest River -- Snake River ----- 779 Miles
- ▶ Average Annual Precipitation -----10-60 Inches
- ▶ Annual Stream Inflow to State ----- About 37 Million Acre-feet
- ▶ Annual Stream Outflow to State----- About 75 Million Acre-feet
- ▶ Active Reservoir Storage Capacity ----- 12,384,000 Acre-feet
- ▶ Largest Active Storage Reservoir -- Dworshak ----- 2,016,000 acre-feet
- ▶ Highest Dam----- Dworshak, 717 feet



Idaho Agriculture

- ▶ \$16 Billion in Idaho food & beverage processing
- ▶ \$2 Billion exported worldwide
- ▶ >185 commodities in production
- ▶ >24,000 farms and ranches
- ▶ 12 Million acres farmed or ranched
- ▶ 4 Million acres irrigated

- ▶ Idaho State Department of Agriculture was established in 1919 to serve and regulate Idaho's agricultural industry



History of Idaho Invasive Species Program

- ▶ 2001- Executing Order 2001-11 Establishing the Idaho Invasive Species Council
- ▶ 2004- Idaho Invasive Species Summit (2004)
- ▶ 2008- Idaho Invasive Species Act of 2008
- ▶ 2008- Rules Governing Invasive Species, IDAPA 02.06.09
- ▶ 2009- Idaho Protection Against Invasive Species Sticker Rules, IDAPA 26.01.34
- ▶ 2009- Idaho initiates first roadside inspection stations
- ▶ 2009- First QZM fouled watercraft found roadside in Idaho
- ▶ 2010- Executing Order 2010-14 The Idaho Invasive Species Council
- ▶ 2017- Executive Order 2017-05 Continuing the Idaho Invasive Species Council
- ▶ 2017- First nighttime inspection station



Interagency Coordination

- ▶ Executive Order No. 2017-05 Idaho Invasive Species Council
 - ▶ Coordinated effort between private industry, local, tribal, state and federal governments.
 - ▶ Prevention and control of invasive species.
 - ▶ Bi-annual meetings
 - ▶ Chaired by the Director of Idaho State Department of Agriculture
- ▶ Next meeting Wednesday December 12th



Regional Meetings & Coordination

- ▶ Pacific Northwest Economic Region (PNWER)
 - ▶ Spokane, WA
- ▶ Columbia River Basin Team (CRB)
 - ▶ Portland, OR
 - ▶ Boise, ID
- ▶ Western Regional Panel (WRP)
 - ▶ Tacoma, WA
- ▶ Building Consensus
- ▶ Western Governors' Association (WGA)
- ▶ DOI Lake Mead Initiative
- ▶ Regional Conference Calls
- ▶ Lakes Commission
- ▶ Capital for the Day



Invasive Species Efforts

- ▶ Prevention
 - ▶ Watercraft Inspection
- ▶ Early Detection Monitoring
 - ▶ Plankton tow
 - ▶ Adult surveys
- ▶ Management and Control
 - ▶ Active control programs
 - ▶ Rapid response
- ▶ Education and Outreach
 - ▶ Public campaigns
 - ▶ Partnerships



ISDA Staff Organization

Nic Zurfluh- Section Manager, Invasive Species (Statewide)

Jeremey Varley- Section Manager, Noxious weed (Statewide)

Stephen Cox- Senior GIS Analyst (Statewide)

Dan Safford- NWFFS, GH/MC (Statewide)

Kim Holzer- Program Specialist (N Region)

Paul Rhodes Technician 3 (N Region)

Bethany Muffley- Program Specialist (SW Region)

Vacant- Technician 3 (SW Region)

Aaron Ursenbach- Program Specialist (TF Region)

Cole Morrison- Program Specialist (SE Region)

Madi Patterson- Technician 3 (SE Region)

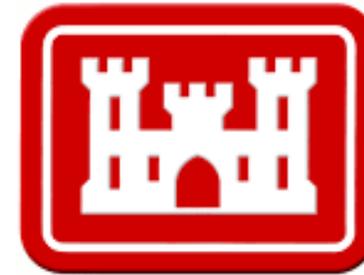
Budget

- ▶ Prior to FY18 - Invasive Species program operated on \$1.4 million/year budget, funded through the Invasive Species Sticker.
- ▶ 2018 Legislature Funding:
 - ▶ \$3,143,300 in ongoing appropriation from the General Fund
 - ▶ \$1,000,000 in one-time federal fund spending authority (WRDA)
 - ▶ \$1,400,000 base spending authority from the Invasive Species Fund
 - ▶ \$171,300 for Idaho State Police support



Water Resource Development Act (WRDA)

- ▶ Funding from the US Army Corps of Engineers
- ▶ Agreement through the Pacific States Marine Fisheries Commission
- ▶ Watercraft Inspection
 - ▶ Provide funding to Pacific Northwest Columbia River Basin states for prevention efforts
 - ▶ \$1 million to Idaho
 - ▶ Invoice PSMFC for CY18 watercraft inspection expenses December 2018
 - ▶ CY19 funding and agreement January 2019
- ▶ Monitoring
 - ▶ Provide funding to Pacific Northwest Columbia River Basin states for monitoring efforts
 - ▶ \$1 Million to the CRB states

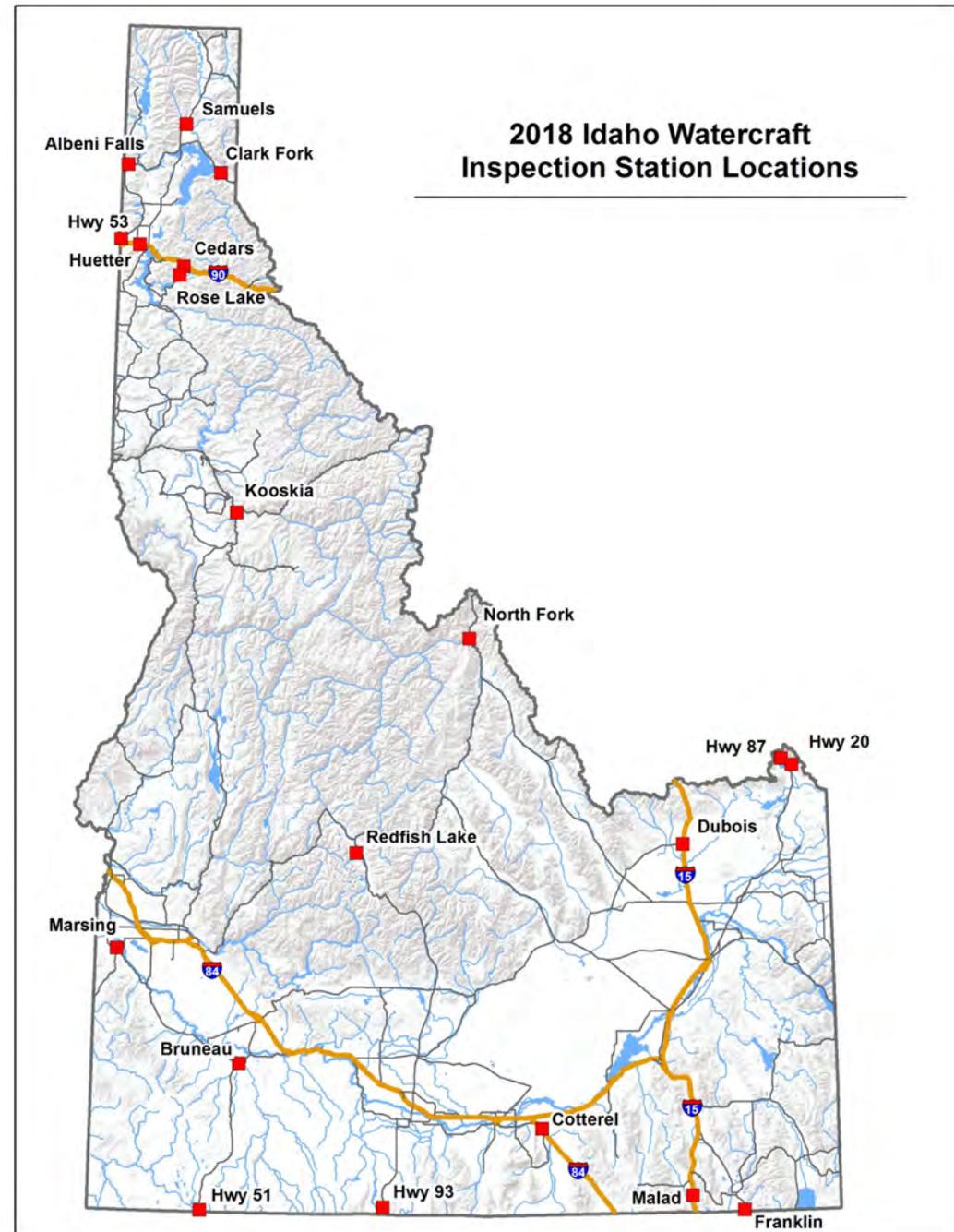


**US Army Corps
of Engineers®**



2018 Inspection Station

- ▶ 10th Year of the inspection program
- ▶ 20 Inspection stations
 - ▶ 19 Cooperator stations
- ▶ 3 Roving crews- Boise, Coeur d'Alene, Idaho Falls
- ▶ New inspection stations
 - ▶ Kooskia (HWY 12) & North Fork (HWY 93)
- ▶ Extended season duration
- ▶ Extended night operations
 - ▶ 18 Hour (6AM-Midnight)
 - ▶ Malad (I-15 N), Cedars (I-90W), Jackpot (HWY 93 N)
 - ▶ 24 Hour
 - ▶ Cotterell (I-84W)
- ▶ Law enforcement support
 - ▶ Local County
 - ▶ Idaho State Police



Inspection Station Cooperators

- ▶ Bear Lake Regional Commission
 - ▶ Garden City & Laketown Canyon (Utah)
- ▶ Bonner Soil & Water Conservation District
 - ▶ Albeni Falls, Samuels & Clark Fork
- ▶ Bruneau River Soil & Water Conservation District
 - ▶ Bruneau & Marsing
- ▶ City of Dubois
 - ▶ I-15 S Dubois
- ▶ City of Kooskia*
 - ▶ HWY 12 W Kooskia
- ▶ Franklin Soil & Water Conservation District
 - ▶ Franklin
- ▶ Fremont County
 - ▶ HWY 87 & HWY 20
- ▶ Kootenai-Shoshone Soil & Water Conservation District*
 - ▶ I-90 W Cedars, I-90 E Huetter, HWY 3 Rose Lake, HWY 53
- ▶ Lemhi County*
 - ▶ HWY 93 North Fork
- ▶ Mid-Snake Resource Conservation & Development Council (Twin Falls County Weed Department)
 - ▶ HWY 93 Jackpot
- ▶ Oneida Soil & Water Conservation District
 - ▶ I-15 N Malad
- ▶ Shoshone-Paiute Tribe
 - ▶ Duck Valley
- ▶ West Cassia Soil & Water Conservation District
 - ▶ I-84 W Cotterell

*New Cooperator for 2018

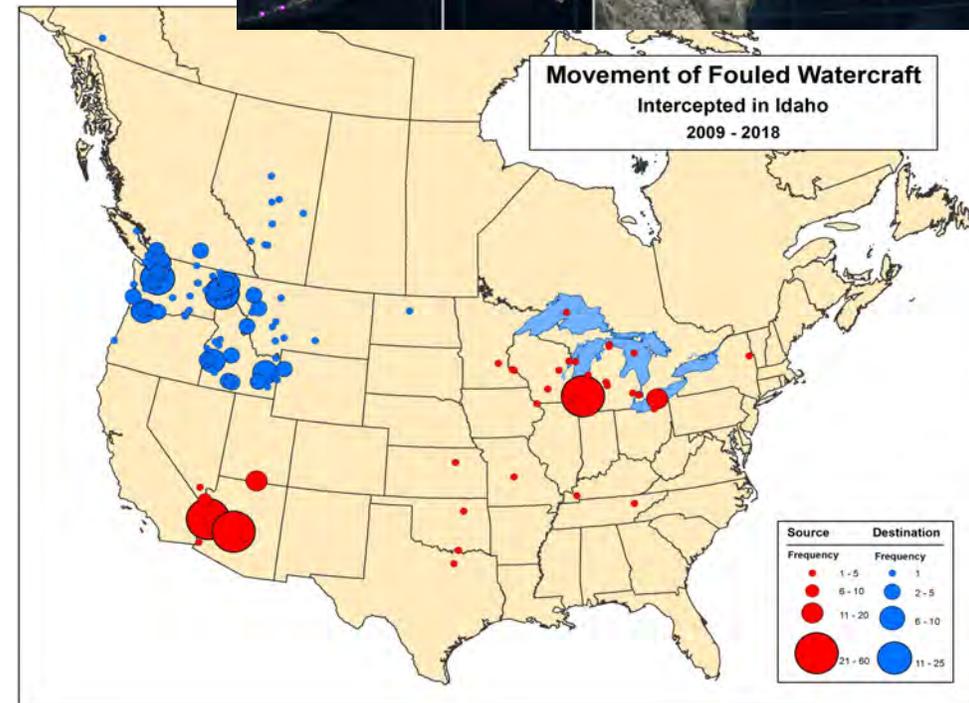
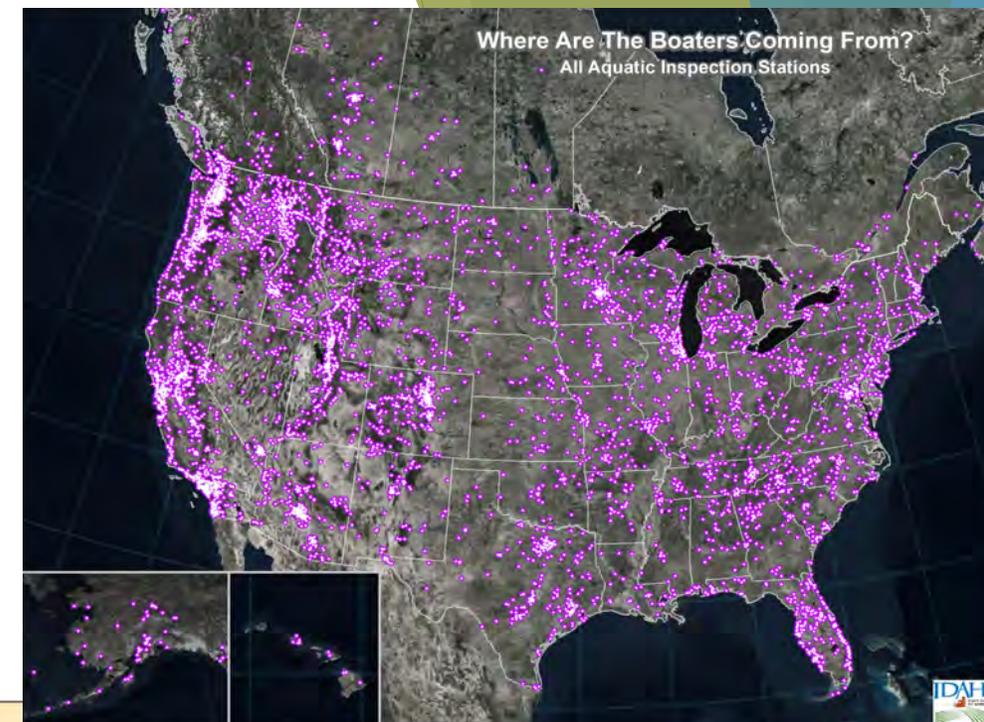
Cooperator Process

- ▶ Identify station location, purpose, timing
- ▶ Reach out to local cooperator with shared interest
 - ▶ SWCD, Tribe, County, CWMA, City, RCD, Commission etc.
 - ▶ Public entity
 - ▶ Authority to enter agreement
- ▶ Draft, negotiate and execute station agreement
 - ▶ Start/end dates, hours of operation, daily rate, allowable expenses
 - ▶ Extend Idaho Invasive Species Act of 2008 authority to cooperator
- ▶ Provide watercraft inspection training, station set-up and program support
- ▶ Station closure and fiscal reconciliation
- ▶ End of season cooperator meeting (December 19, 2018)

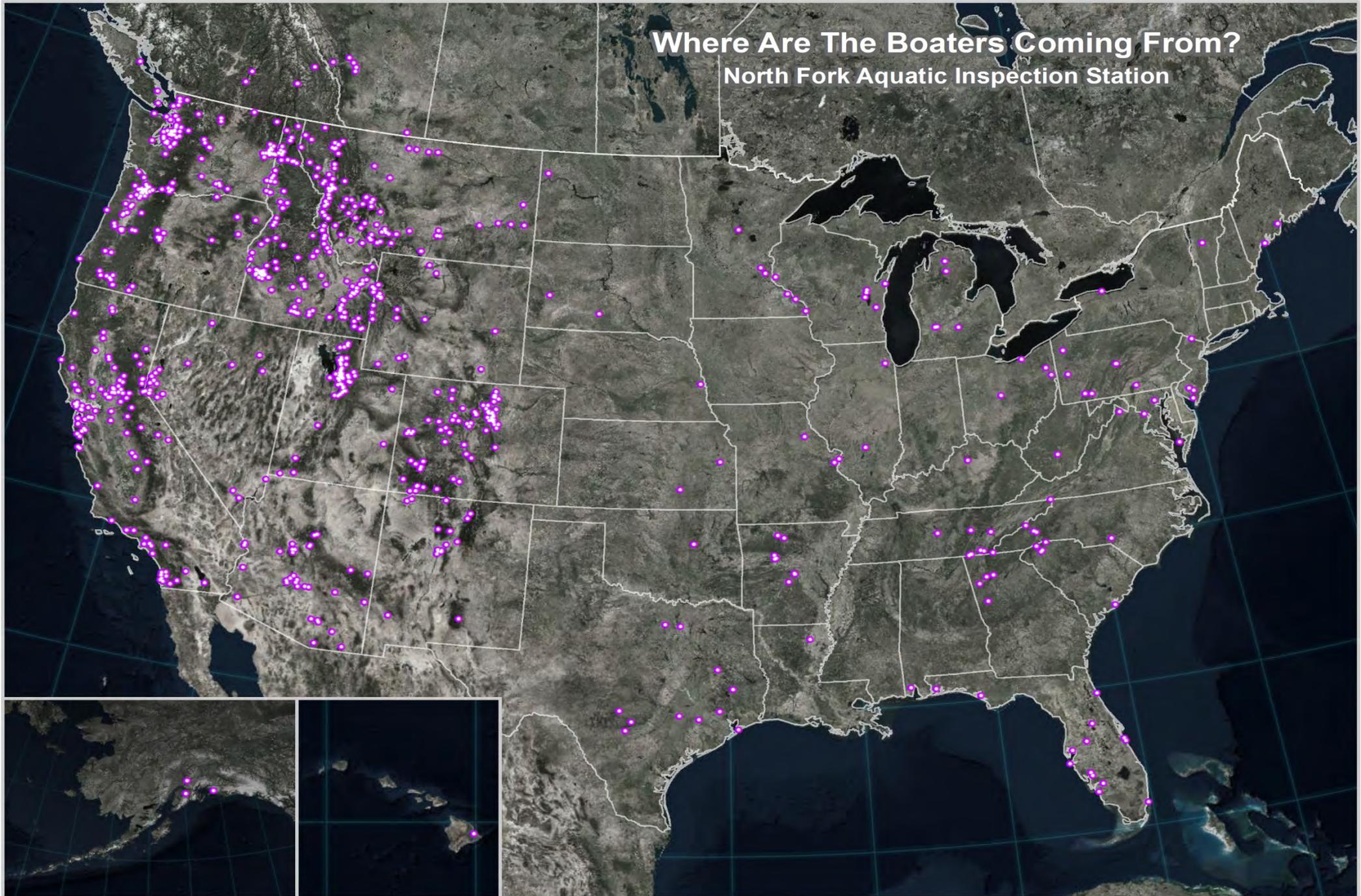


Inspection Data

- ▶ Each station is unique
 - ▶ Boating traffic, demographic and timing can vary greatly from one station to another
- ▶ Where are you from? Combined 2018 zipcode (PURPLE)
- ▶ What was the last waterbody visited in previous 30 days? 2009-2018 fouled watercraft origin (RED)
- ▶ Where is your destination? 2009-2018 fouled watercraft destination (BLUE)

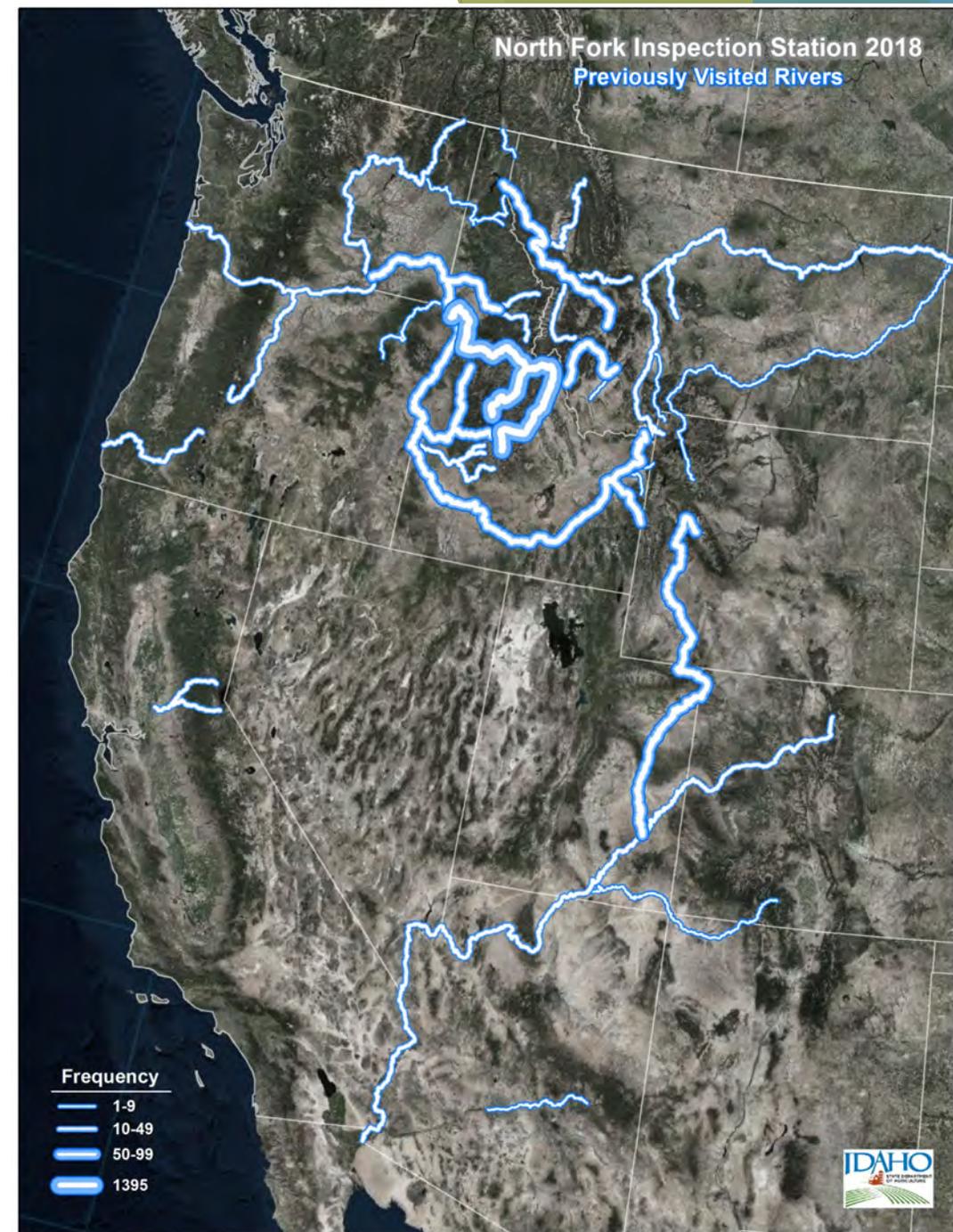


Where Are The Boaters Coming From? North Fork Aquatic Inspection Station



Whitewater Demographic

- ▶ World famous fishing and floating on The River of No Return
- ▶ Salmon River is considered one of the “Big 3 musts...”
 - ▶ Rogue River
 - ▶ Colorado River
- ▶ Wide variety of river users
 - ▶ Outfitters & guides
 - ▶ Experienced elite
 - ▶ New to the sport rookies
- ▶ Public Information hub



Why Non-Motorized Watercraft?

▶ 3 Touring Kayaks

- ▶ Summer 2015
- ▶ Hwy 93
- ▶ Origin: Lake Mead, NV
- ▶ Destination: MT

▶ Drift Boat

- ▶ Summer 2016
- ▶ Hwy 87
- ▶ Origin: Muskegon River, MI
- ▶ Destination: Henry's Fork, Idaho

▶ Inflatable Raft

- ▶ Spring 2017
- ▶ Malad (I-15 South)
- ▶ Origin: Havasu, AZ
- ▶ Destination: MT

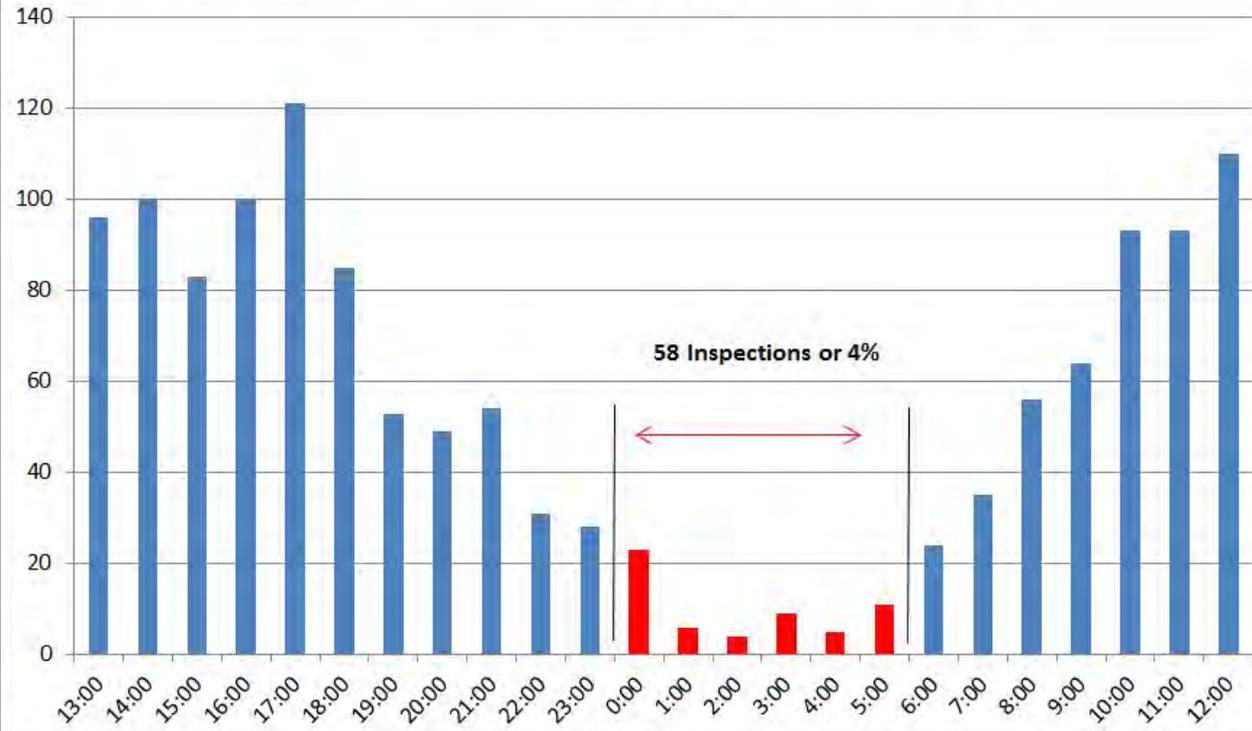
▶ Kayak

- ▶ Spring 2018
- ▶ Marsing
- ▶ Origin: Lake Havasu/Lake Mead
- ▶ Destination: WA

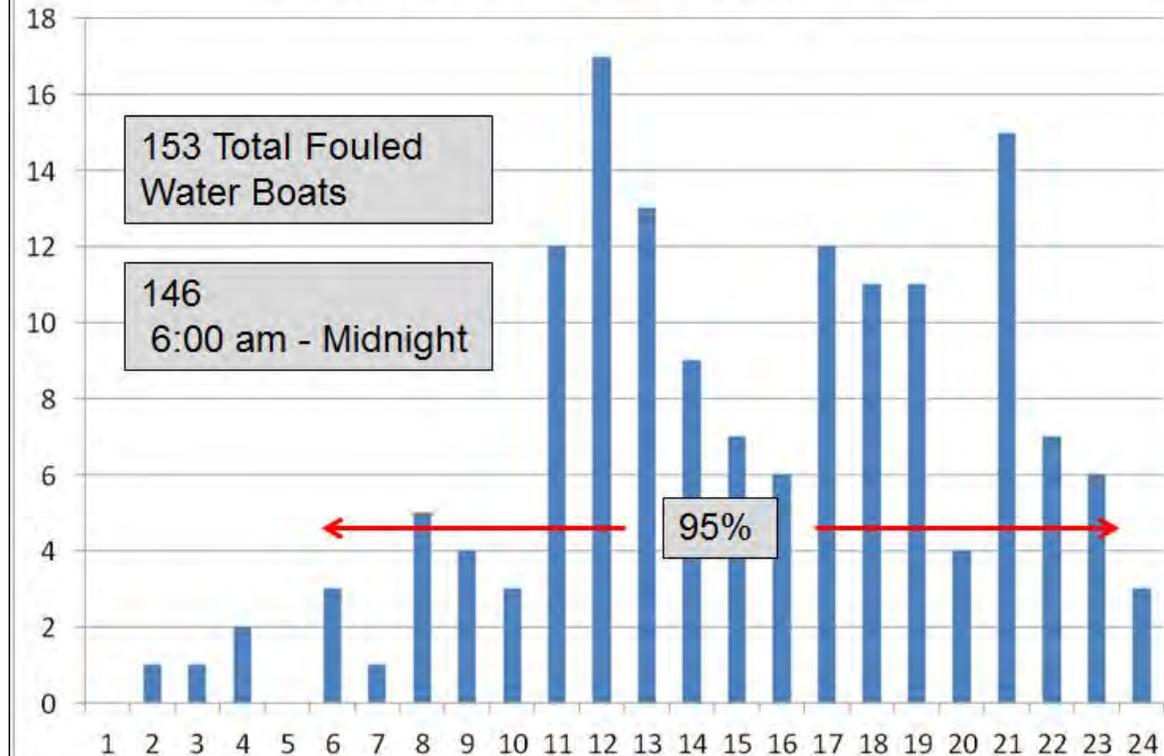


Watercraft Inspection at Night

Cotterell Station - Time of Inspections After July 21



Cotterell Fouled Waters - After July 21 2017



2018 Inspection Station Operations

- ▶ Expanded Night Operation
 - ▶ 18 Hour
 - ▶ Malad (I-15 N)
 - ▶ Cedars (I90 W)
 - ▶ Jackpot (HWY 93 N)
 - ▶ 24 Hour
 - ▶ Cotterll (I-84 W)
- ▶ Increased lighting
- ▶ Increased law enforcement
- ▶ Increased signage
- ▶ Outstanding cooperators and inspection staff



AIS Roving Inspection Crew

- ▶ Watercraft inspection & boater education
- ▶ Primarily at high use boat launches and boating events
 - ▶ Races, expos, regattas, peak holiday weekends, etc.
- ▶ Thursday-Sunday work week
- ▶ Motorized and non-motorized users
 - ▶ Headwater launches (i.e. Boundary Creek)
- ▶ 3 regional inspection crews
 - ▶ Southwest (Boise)
 - ▶ North (Coeur D'Alene)
 - ▶ Southeast (Idaho Falls)



Foul Watercraft Protocol

- ▶ Call the Hotline: 208-332-8623
- ▶ Provide detailed information:
 - ▶ Origin and destination
 - ▶ Destination address and phone number.
 - ▶ Owner / Hauler's Name, Address, Phone #
 - ▶ Type of boat
 - ▶ Location of mussels
 - ▶ Description of mussels
- ▶ Follow-up inspections by ISDA staff for all Idaho destined watercraft
- ▶ Information forwarded to regional partners for out of state destinations

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Foul watercraft intercepted at ID I-15N Malad watercraft inspection station 8.10.2017 @ 4:00 PM

Origin: Lake Havasu, AZ
Days out of water: Unknown. Out of water when boat was picked up. History unknown.

Destination: Missoula, MT

Boat is being hauled by boat owner's friend.
Boat hauler: [REDACTED]
Address: [REDACTED]
Phone number: [REDACTED]

Boat Owner: [REDACTED]
[REDACTED]
Phone number: [REDACTED]

Towing vehicle: MT-BWU738
White dodge dually

2 trailers-
Flatbed: MT- 964BLC
Boat trailer: ID- 474597B

Boat Description: 2006 Sun Cruiser lowe Jahiti 2020
White with red/ grey decal
Boat Reg: AZ 8673 BW
HIN#: LWCD0001D606

Boat is being thoroughly hotwashed at Malad.
Found 2 mussels on hull around lower outdrive. (removed)

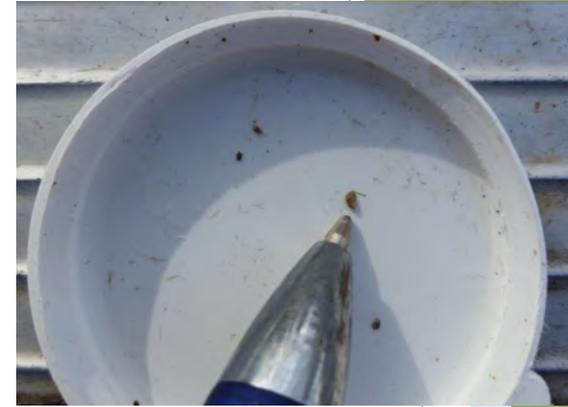
Hauler is aware of MT check station on I-15 and will stop on the way through.

Great work Malad inspectors!

Please let me know if I can provide any more information.

Foul Watercraft Protocol

- ▶ Inspectors perform field tests to determine mussel viability
 - Viable mussels: Wet, moist, intact. Close when agitated. Hesitate forced opening. Sink in water. Open and begin siphon in water
 - Dead mussels: Dry, brittle, crumbling. Stay open when agitated. Easily forced opened or crumbles. Float in water. Will not siphon in water
- ▶ Viable QZM mussels. (2018- 0)
 - ▶ ISDA will impound and decontaminate
 - ▶ Decontamination is more thorough and intensive than a Hot Wash
 - ▶ Law enforcement will be contacted
- ▶ Dead QZM mussels. (2018- 0)
 - ▶ Inspectors perform hotwash
 - ▶ ISDA will notify destination states and/or provinces
 - ▶ Information documented with data unit and high risk inspection form



2018/2019 Site Improvements

- ▶ Work shelter/shed
- ▶ Electrical utilities
- ▶ Water utilities
- ▶ Expand footprint
- ▶ Pavement
- ▶ Solar panels
- ▶ Permanent signage
- ▶ Electronic message boards
- ▶ Internet/cell phone service
- ▶ Barriers
- ▶ Restroom facilities



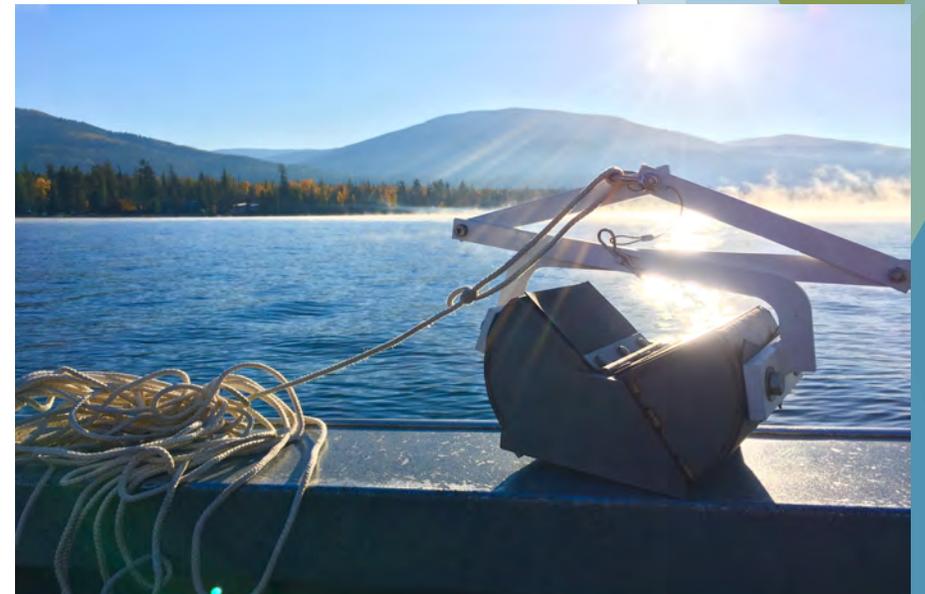
Other Vectors...

- ▶ Wildland fire
- ▶ Seaplane
- ▶ Construction barges
- ▶ Navy Equipment
- ▶ Dredges



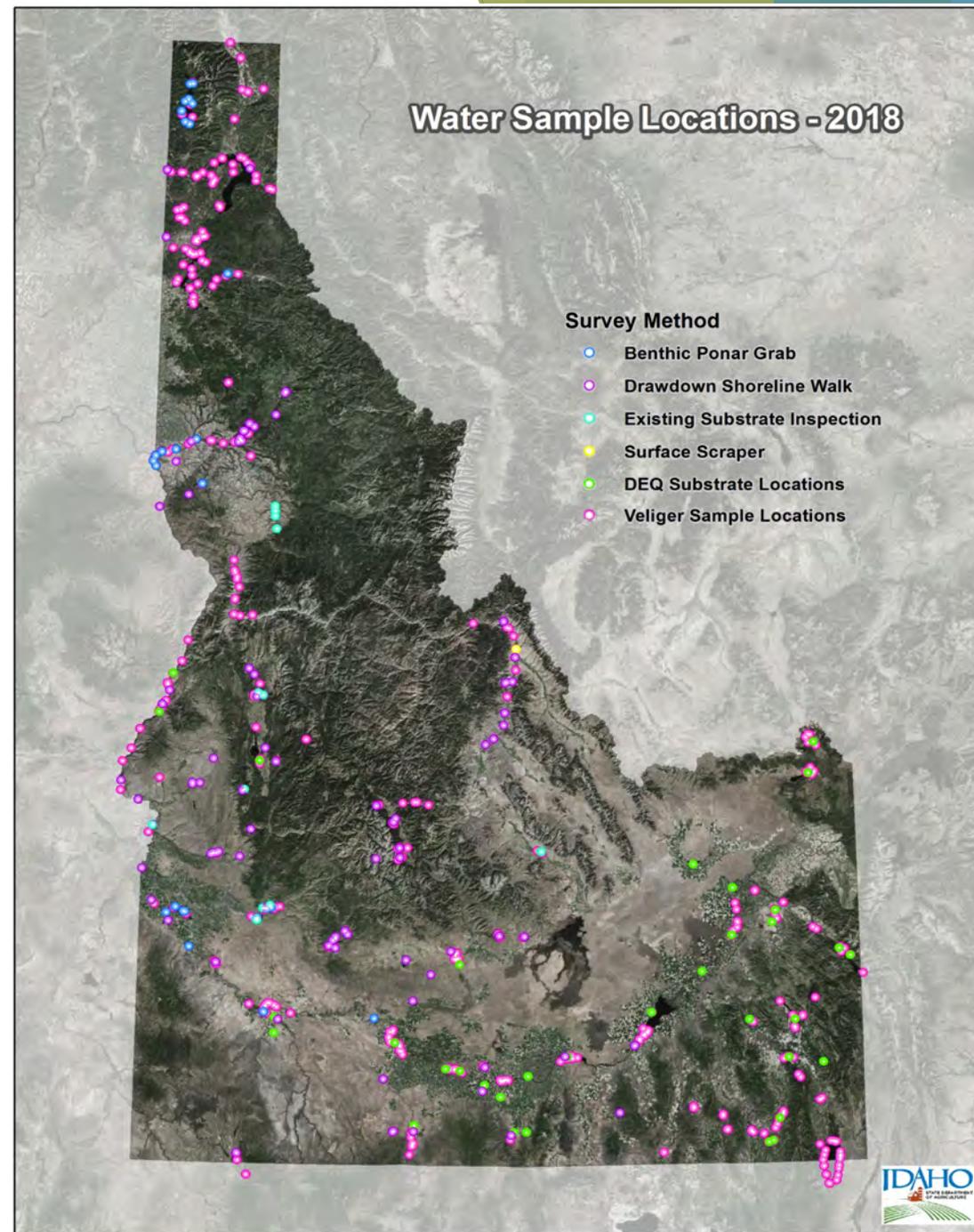
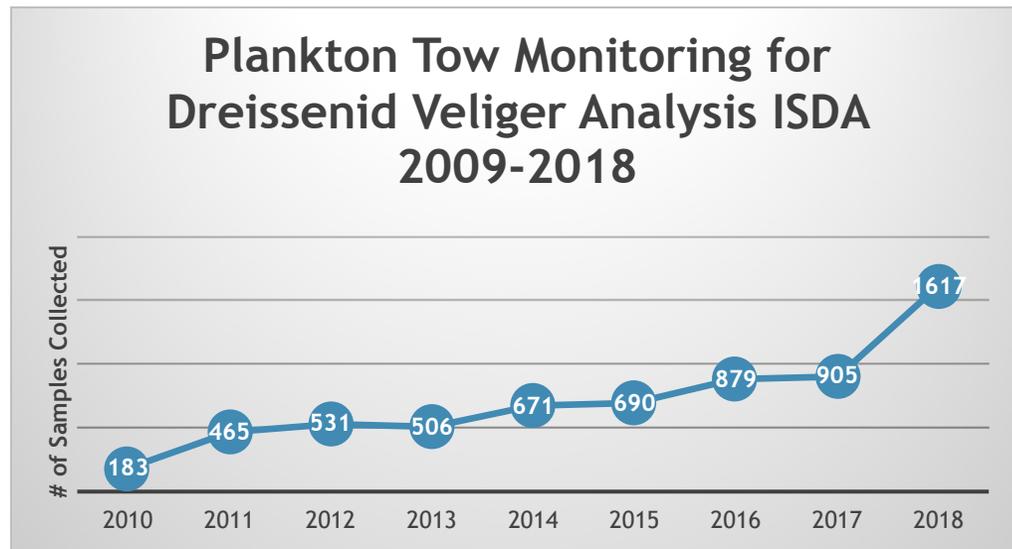
Early Detection Monitoring

- ▶ 9th year of monitoring in Idaho
- ▶ Veliger Monitoring (microscopy)
 - ▶ 1617 plankton samples collected from 80 waterbodies
 - ▶ Multiple sample events, bi-weekly, per waterbody
 - ▶ Priority overnight shipment
 - ▶ 2 week turnaround for lab analysis
- ▶ Adult Monitoring (visual)
 - ▶ Reservoir drawdown, substrate and benthic grab sampling



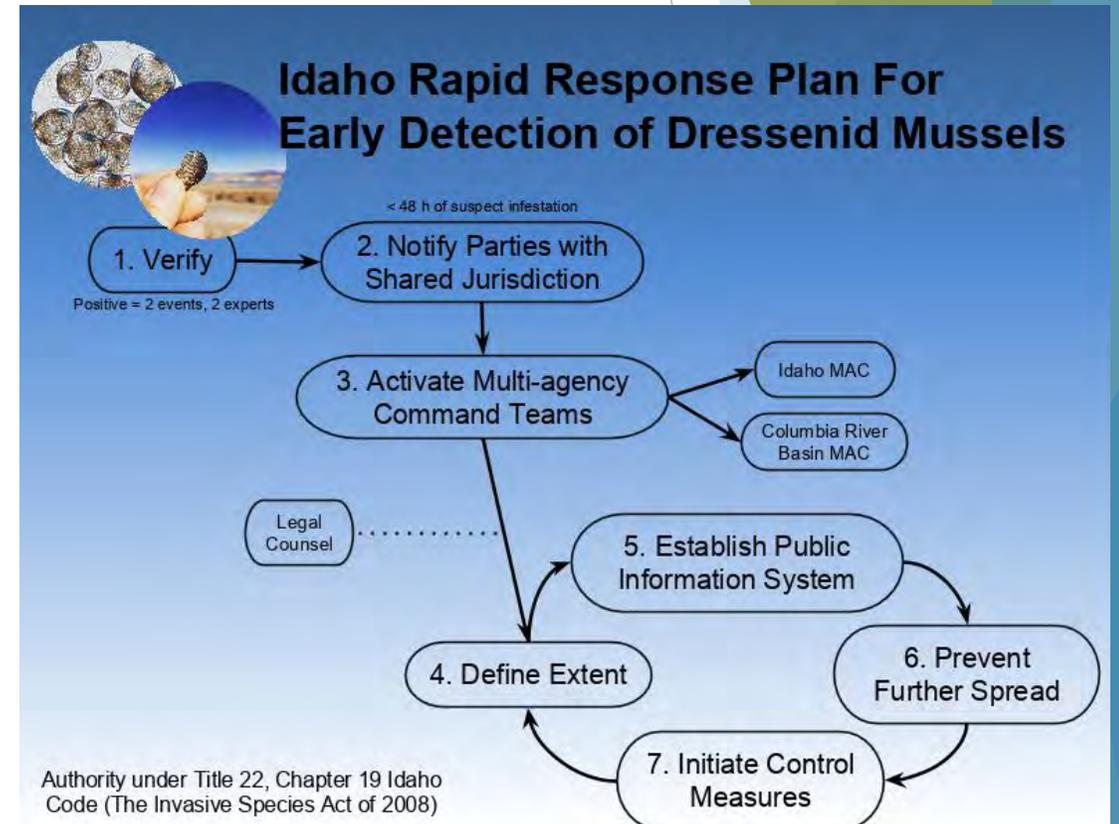
Early Detection Monitoring

- ▶ 2018 analysis complete
- ▶ No suspicious detections in Idaho
- ▶ Assistance from partners (Idaho Power, Tribes, Lemhi County, Idaho DEQ, & others)
- ▶ Survey for invasive plants, snails, clams, mussels, crayfish, etc.
- ▶ Activate Idaho rapid response plan if detection occurs



Idaho Rapid Response

- ▶ Idaho rapid response plan is currently under review
- ▶ Rapid response plan exercise
 - ▶ Initial planning phase
 - ▶ Hells Canyon Complex
 - ▶ Idaho Power Company partner
 - ▶ Spring 2019



Education and Outreach

- ▶ Campaign
 - ▶ Clean, Drain, Dry
 - ▶ Know What you Grow
 - ▶ Don't Let it Loose
 - ▶ Knock it Off
 - ▶ Buy it where you burn it
- ▶ Various Pathways
 - ▶ Inspection stations
 - ▶ Cooperative partners
 - ▶ Outreach events, seminars and workshops
 - ▶ Radio
 - ▶ Website
 - ▶ Facebook
 - ▶ Banner advertisement
 - ▶ Google advertisement
 - ▶ Promotional item, brochure, sticker, etc.
 - ▶ Watercraft registration flyer

