

Idaho Invasive Species Program

2018 Operations



History of Idaho Invasive Species Program

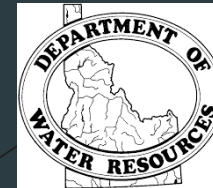


- ▶ 2001- Executive Order 2001-11 Establishing the Idaho Invasive Species Council
- ▶ 2004- Idaho Invasive Species Summit (2004)
- ▶ 2008- Idaho Invasive Species Act of 2008
- ▶ 2009- Rules Governing Invasive Species, IDAPA 02.06.09
- ▶ 2009- Idaho Protection Against Invasive Species Sticker Rules, IDAPA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



Interagency Coordination

- ▶ Executive Order No. 2017-05 Idaho Invasive Species Council
 - ▶ Coordinated effort between private industry, local, tribal, state and federal governments.
 - ▶ Stakeholder groups (Lakes Commission, Idaho Outfitters and Guides)
 - ▶ Prevention and control of invasive species.
 - ▶ Bi-annual meetings
 - ▶ Chaired by the Director of Idaho State Department of Agriculture
 - ▶ Annual updates to the Legislature



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 (Coeur d'Alene)

Paul Rhodes Technician 3 (Coeur d'Alene)

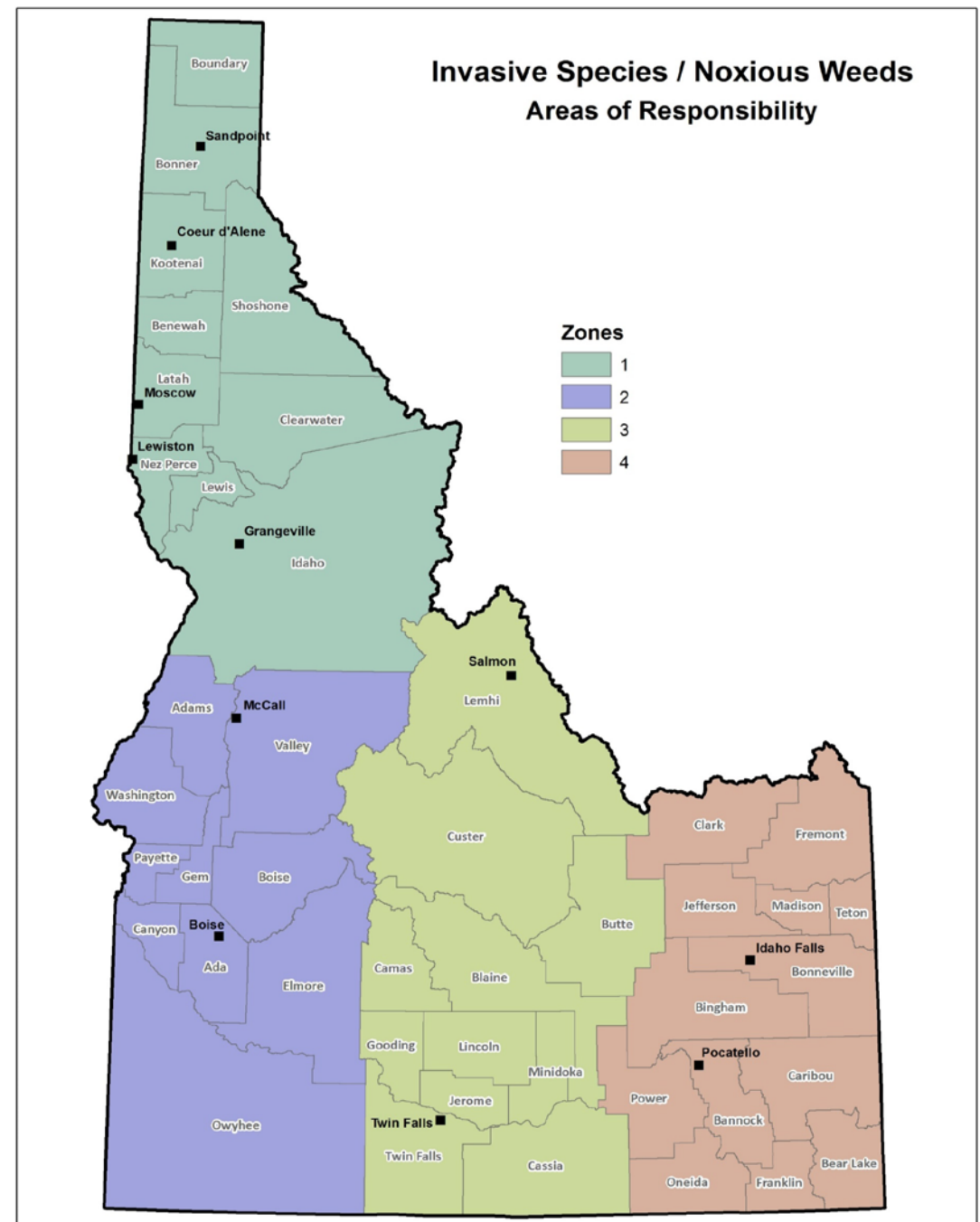
Bethany Muffley- Program Specialist (Boise)

Phoebe Wallace- Technician 3 (Boise)

Aaron Ursenbach- Program Specialist (Twin Falls)

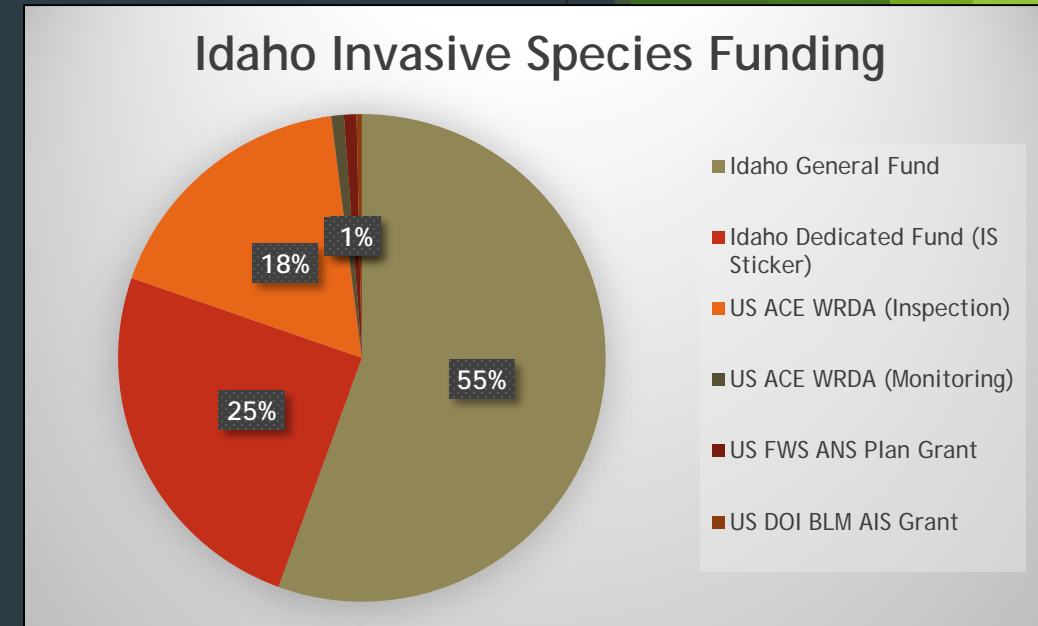
Cole Morrison- Program Specialist (Idaho Falls)

Madi Patterson- Technician 3 (Idaho Falls)



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
 - ▶ \$47,000 USFWS ANS state plan grant
 - ▶ \$20,000 BLM AIS Grant



Water Resource Development Act (WRDA)

- ▶ Funding from the US Army Corps of Engineers
- ▶ Agreement through the Pacific States Marine Fisheries Commission (PSMFC)
- ▶ Watercraft Inspection
 - ▶ Provide funding to Pacific Northwest Columbia River Basin states for prevention efforts
 - ▶ 2017 & 2018-\$1 M to Idaho
 - ▶ 2019- \$1.8 M to Idaho (50% total station cost)
 - ▶ 50/50 cost share, costs invoiced to PSMFC
- ▶ Monitoring
 - ▶ Provide funding to Pacific Northwest Columbia River Basin states for monitoring efforts
 - ▶ \$1 Million to the CRB states



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



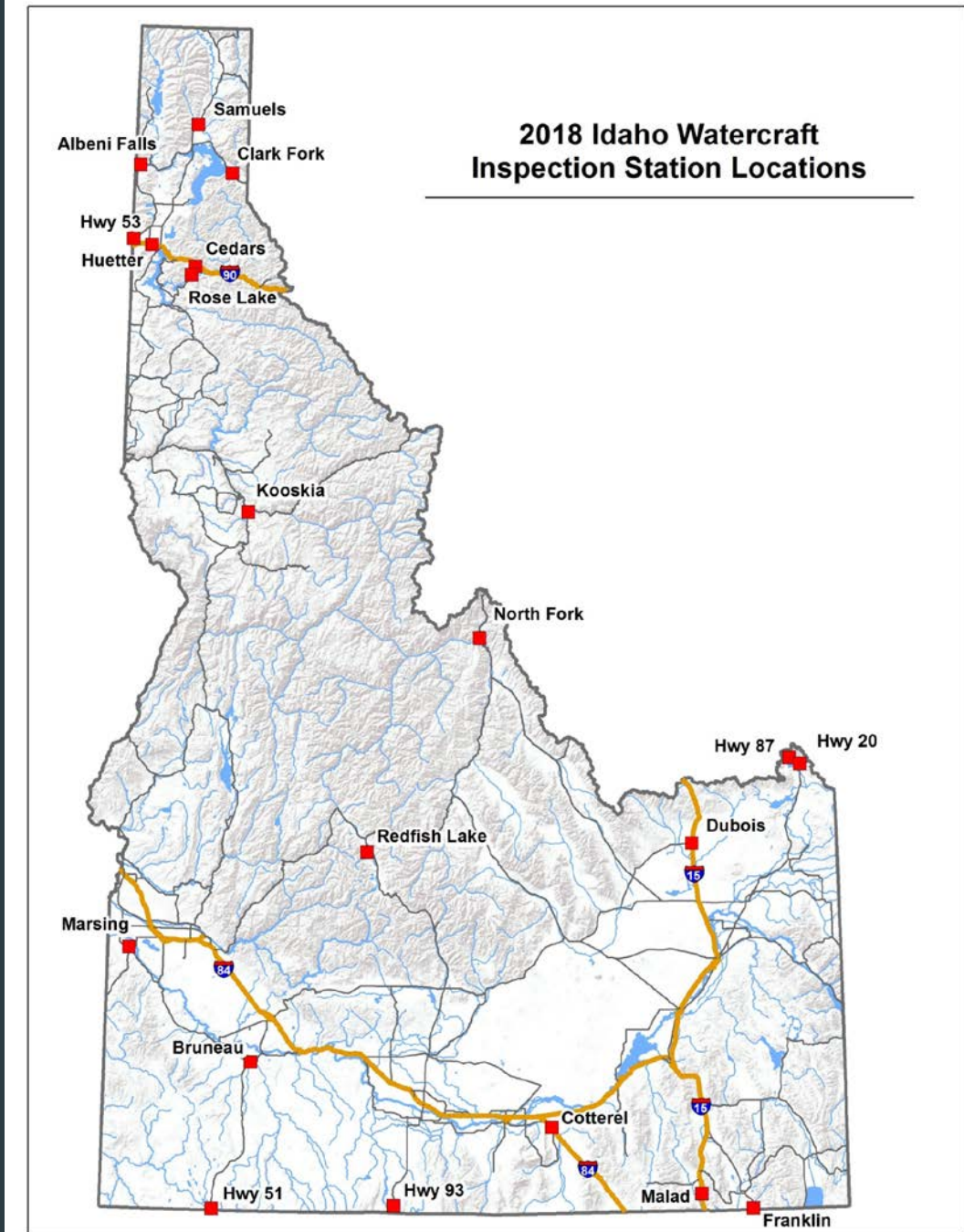
Invasive Species Efforts

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



2018 Inspection Station

- ▶ 10th Year of the inspection program
 - ▶ 110,000 in 2018, over 600,000 over 10 years
- ▶ 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)
 - ▶ 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

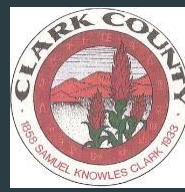
Cooperator Process

- ▶ 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



Law Enforcement

- ▶ Boater compliance and safety
 - ▶ Focus during hours of high traffic
 - ▶ Idaho State Police- nighttime inspection support
 - ▶ Local county- upon availability for overtime
 - ▶ Inspectors contact county dispatch as needed
-
- ▶ Idaho State Police
 - ▶ Bonner County Sheriff
 - ▶ Cassia County Sheriff
 - ▶ Clark County Sheriff
 - ▶ Fremont County Sheriff
 - ▶ Idaho County Sheriff
 - ▶ Kootenai County Sheriff
 - ▶ Lemhi County Sheriff
 - ▶ Oneida County Sheriff
 - ▶ Owyhee County Sheriff
 - ▶ Twin Falls County Sheriff



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)

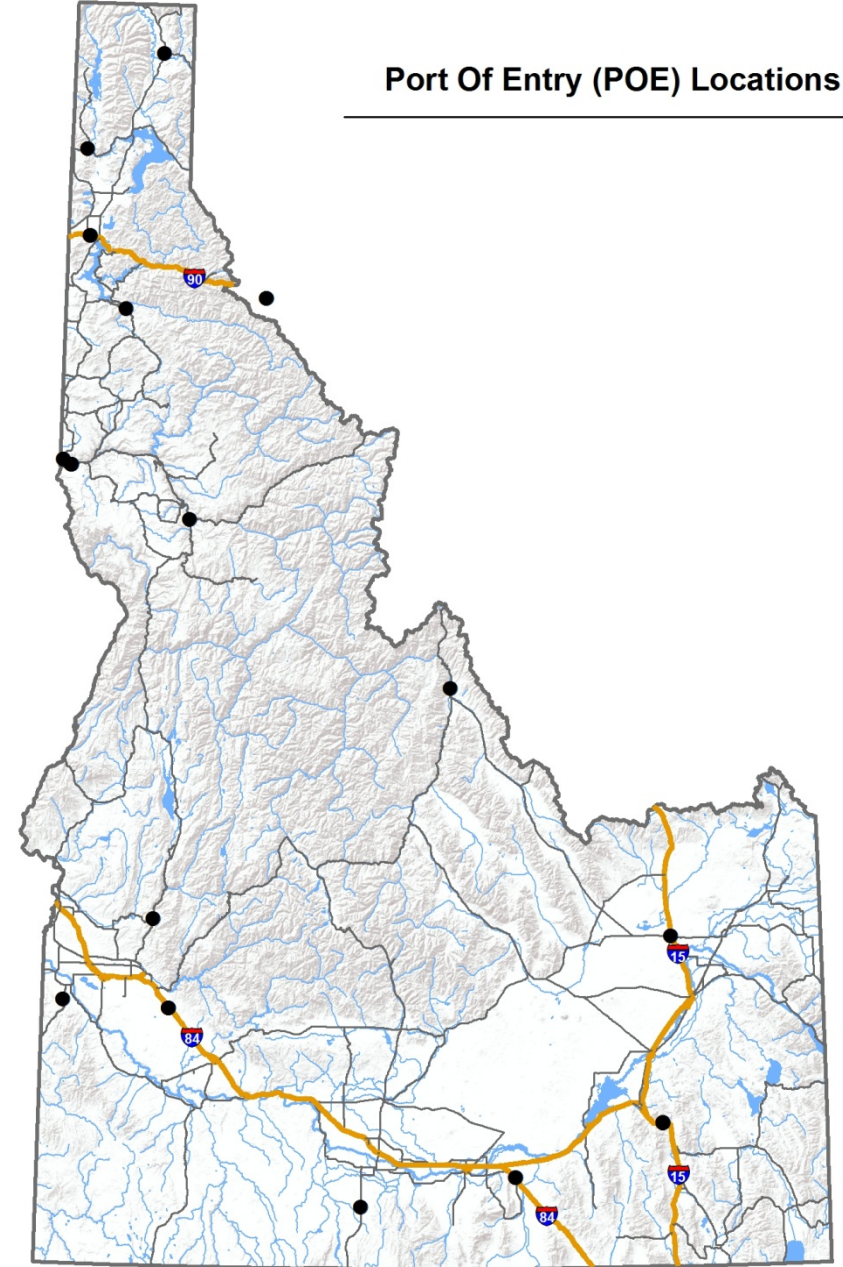


Idaho Transportation Department Port of Entry (POE)

- ▶ Commercially Hauled Vessels are inspected for mussels at POE
- ▶ ISDA receives oversize load permits for water related equipment
- ▶ Customs & Border Protection also inspecting
 - ▶ Notify ISDA staff if mussels are found

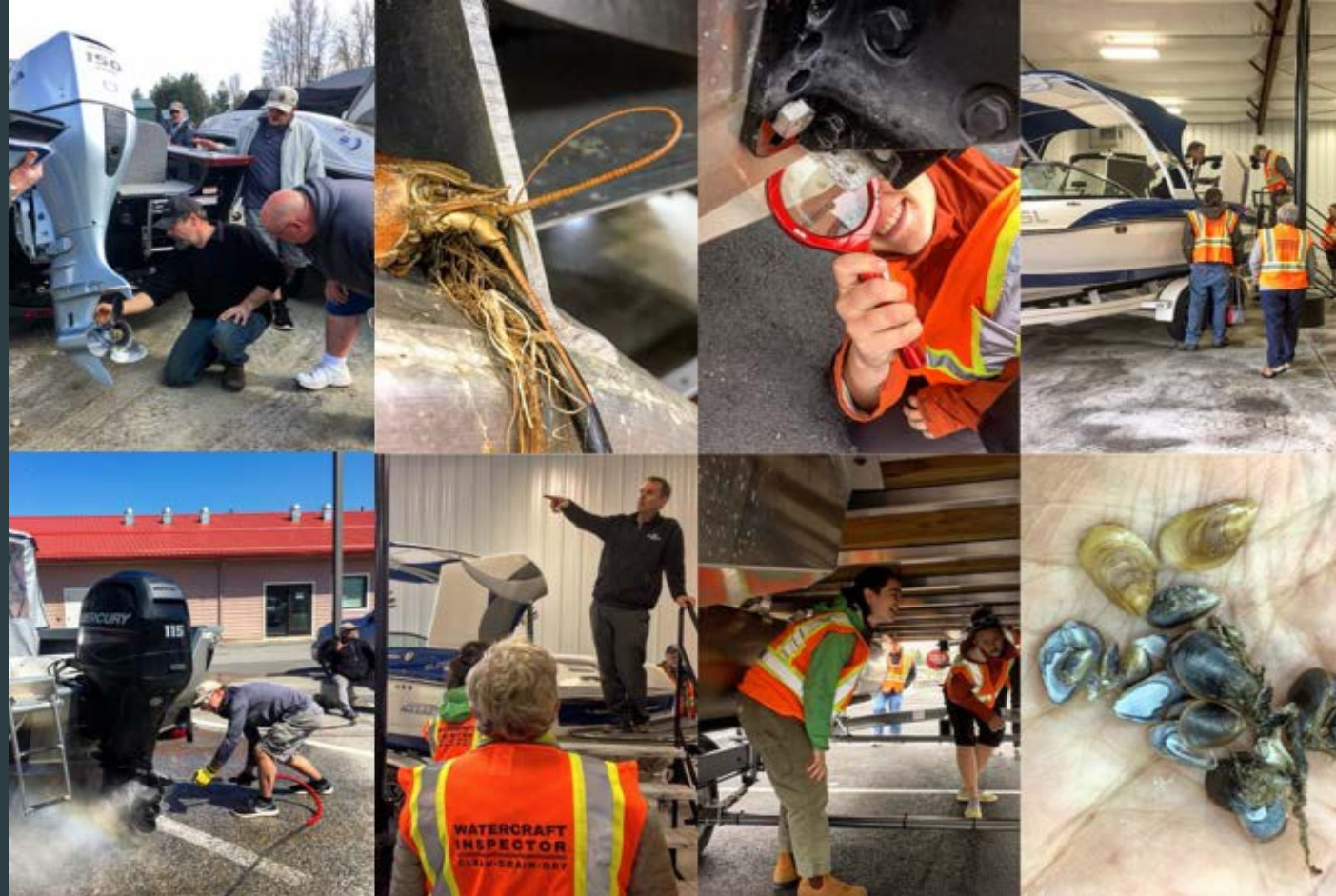


Port Of Entry (POE) Locations



Watercraft Inspection Training (WIT)

- ▶ 18 WIT sessions statewide
- ▶ Participation from local cooperators and stakeholders
- ▶ 2 Day course
 - ▶ Day 1- Biology, impact, boat anatomy 101, inspection protocol, data
 - ▶ Day 2- Hands-on marine technician boat anatomy 201, hotwash operations



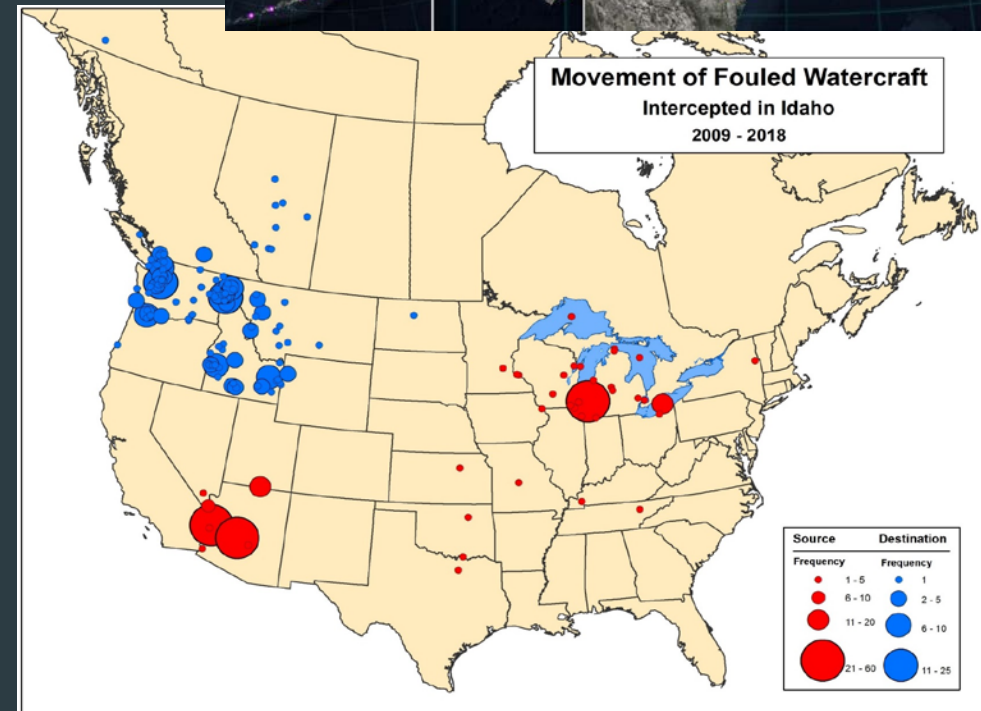
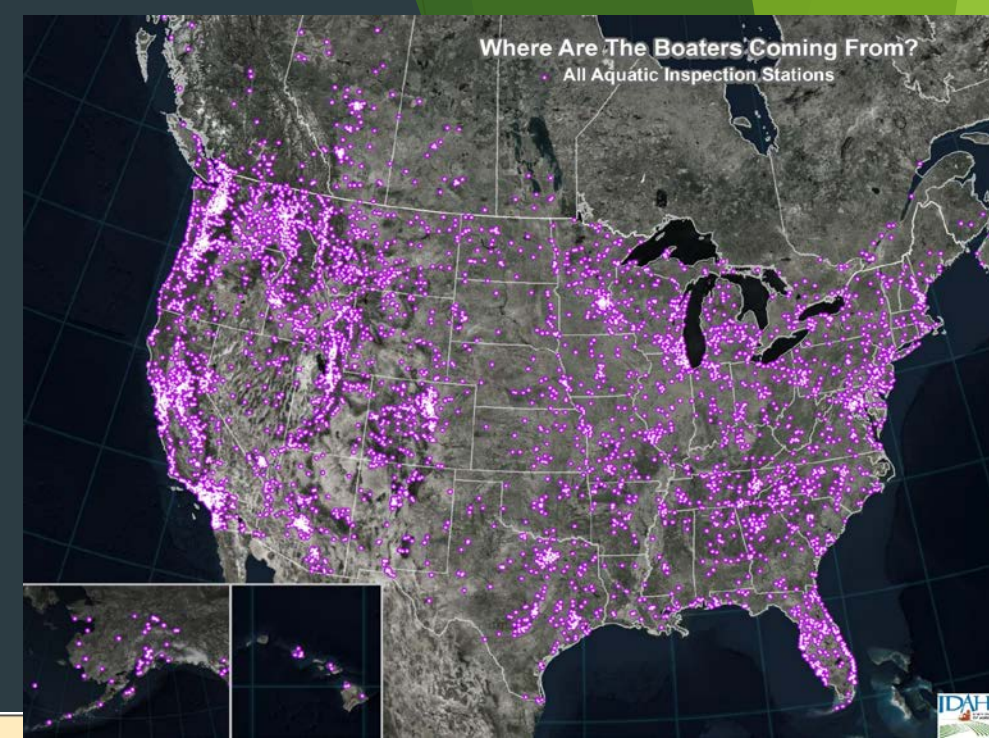
2018 Inspection Data

- ▶ Over 110K Inspections performed
- ▶ 7,007 Hotwash
- ▶ 374 Plants intercepted and removed
- ▶ 50 Mussel fouled watercraft
 - ▶ Idaho- 21
 - ▶ Washington- 20
 - ▶ Montana- 3
 - ▶ British Columbia- 3
 - ▶ Oregon- 2
 - ▶ Alaska- 1
- ▶ 3,291 Inspection days
- ▶ 2,036 Law enforcement days

| Inspection Station | Inspections | Hotwash | Fouled | Weeds | Aquatic | Terrestrial |
|----------------------|----------------|--------------|-----------|------------|------------|-------------|
| Albeni Falls | 10,008 | 6 | 0 | 16 | 7 | 3 |
| Bruneau | 3,077 | 17 | 0 | 0 | 0 | 0 |
| Cedars | 13,662 | 132 | 13 | 90 | 81 | 9 |
| Clark Fork | 6,016 | 18 | 1 | 25 | 17 | 1 |
| Cotterel | 5,072 | 338 | 10 | 9 | 7 | 2 |
| Dubois | 1,373 | 1 | 0 | 0 | 0 | 0 |
| Franklin | 4,275 | 18 | 0 | 0 | 0 | 0 |
| Huetter | 14,645 | 16 | 1 | 89 | 66 | 18 |
| Hwy 12 (Kooskia) | 617 | 0 | 0 | 0 | 0 | 0 |
| Hwy 20 | 7,299 | 2,810 | 0 | 23 | 21 | 1 |
| Hwy 51 (Duck Valley) | 324 | 3 | 0 | 0 | 0 | 0 |
| Hwy 53 | 5,392 | 1 | 0 | 30 | 23 | 3 |
| Hwy 87 | 7,197 | 2,764 | 0 | 13 | 13 | 0 |
| Hwy 93 | 2,476 | 282 | 7 | 6 | 2 | 4 |
| Malad | 7,554 | 545 | 9 | 6 | 2 | 3 |
| Marsing | 2,169 | 24 | 3 | 13 | 7 | 6 |
| North Fork | 3,709 | 1 | 0 | 0 | 0 | 0 |
| Redfish Lake | 2,017 | 6 | 0 | 1 | 1 | 0 |
| Rose Lake | 3,613 | 5 | 0 | 14 | 10 | 3 |
| Samuels | 5,809 | 15 | 1 | 21 | 18 | 1 |
| Roving Crew 1 (SW) | 797 | 0 | 0 | 8 | 6 | 2 |
| Roving Crew 2 (SE) | 738 | 5 | 0 | 1 | 1 | 0 |
| Roving Crew 3 (N) | 835 | 0 | 0 | 9 | 6 | 3 |
| Henrys Lake | 1,794 | 0 | 0 | 0 | 0 | 0 |
| ISDA Staff | | | 5 | | | |
| Total | 110,468 | 7,007 | 50 | 374 | 288 | 59 |


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)



Prenotification Documents

- ▶ Networking between regional partners is improving
- ▶ Information provided by various agencies
 - ▶ State partners
 - ▶ Regional Database
 - ▶ Transportation permits
- ▶ Information passed on to inspection station(s) & managers




Nevada Department of Wildlife
Aquatic Invasive Species (AIS) Watercraft Inspection Report


| | | | | | | | | |
|--|--|-------------------------|--|--|--|--|-----|------|
| Date: 2/16/15 | | Time: 9:30 | | Location: COTTON WOOD | | Inspected by: Tibbitts/Mallenee/Wright | | |
| Vessel Type: HOUSE BOAT | | | | Owner: [Redacted] | | | | |
| Make: HOLIDAY MANSION | | | | Address: [Redacted] | | | | |
| Model: GARRACUDA | | Size: 36' | | City: PARRACAMP | | State/Zip: NV 89060 | | |
| State Registration # or USCG Documented Vessel Name: LAZY PARRA F | | | | Phone: [Redacted] | | | | |
| Commercial Transport Company or Name of Person Transporting Vessel: OWNER Chuck | | | | [Redacted] | | | | |
| Date Removed from Water: 2/16/15 | | How Long in Water: 7 MO | | Name of Exiting Water Body: COTTON WOOD COVE | | | | |
| Weather Conditions Since Removed from Water? (Circle all that apply) | | | | | | | | |
| Wet | | Moist | | Humid | | <input checked="" type="radio"/> Dry | Hot | Cold |
| Final or Ultimate Launch Location/Destination: IDAHO | | | | | | | | |
| How Long Will Vessel Stay Out of Water in Current Location (desiccation period): 6 MO | | | | | | | | |
| Anticipated Travel Date: JULY/15 | | | | Destination (TA): ? | | | | |
| Was Hot Water Bottom Wash Requested Before Transport? (Circle one) Yes No | | | | | | | | |
| If yes, provide information below. | | | | | | | | |
| Where? COTTON WOOD | | | | | | | | |
| By Whom? Tibbitts/Mallenee/Wright (NDOW) | | | | | | | | |
| How? HOT WATER PRESSURE WASH | | | | | | | | |
| Dry Time Begins (date)? 2-16-15 | | | | | | | | |
| <small>I affirm that the above information is true. I understand that this inspection form does not certify that the watercraft listed herein has been completely decontaminated only that it was self-inspected by the owner/transporter/other for presence/absence of visible aquatic invasive species including invasive mussels. I understand the vessel may not be transported from the inspection site or other location as authorized by the Department until such time as a vessel has been properly cleaned & drained for all aquatic invasive species. I further understand that it is unlawful to transport AIS (e.g., quagga mussels) under NRS 503.597 & NAC 503.110 & Chapter 488.</small> | | | | | | | | |
| Signature: [Redacted] | | | | | | Date: 2-16-15 | | |
| REQUIRED BEFORE TRANSPORT: PLEASE FAX TO NDOW (702) 486-5008 or SCAN/EMAIL THIS COMPLETED FORM TO ntf@ndow.org | | | | | | | | |

Foul Watercraft Protocol


- ▶ Call the Hotline: 208-332-8623
- ▶ Information received from neighboring state and federal inspection authorities and individual boaters
- ▶ 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



20170810_155935.jpg
2 MB



20170810_160026.jpg
3 MB



20170810_161752.jpg
2 MB

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: [REDACTED]
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.

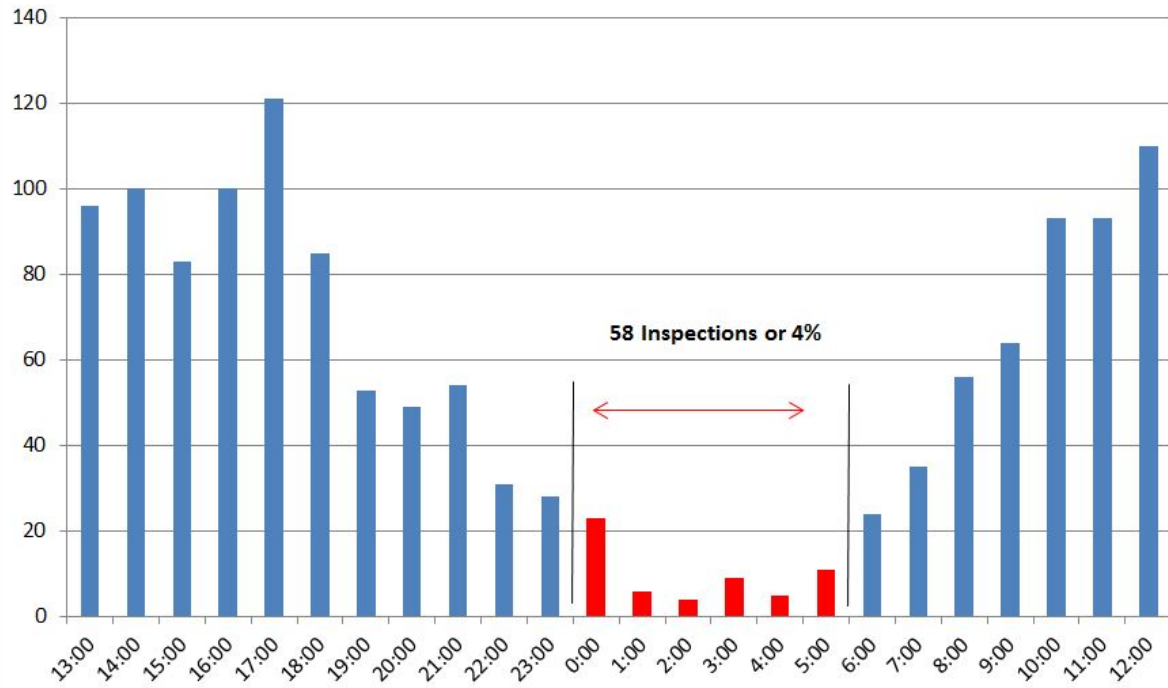
Foul Watercraft Protocol

- ▶ 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- 50)
 - ▶ Inspectors perform hotwash
 - ▶ ISDA will notify destination states and/or provinces
 - ▶ Information documented with data unit and high risk inspection form

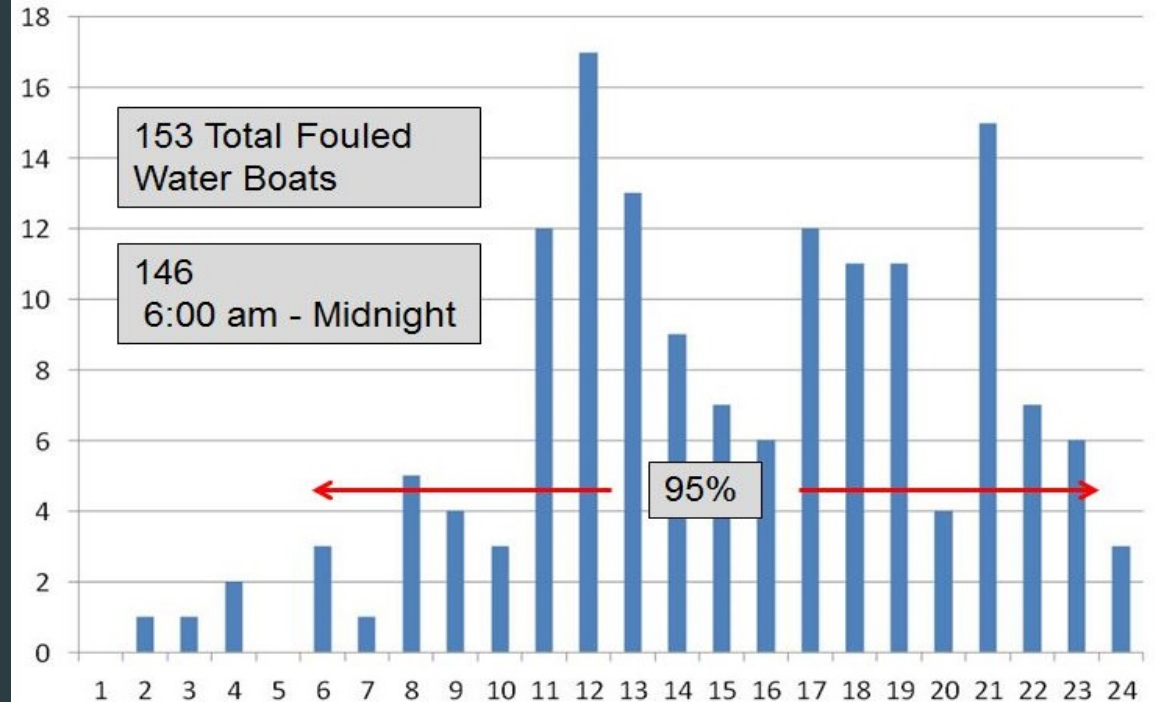


Watercraft Inspection at Night 2017 Pilot Project

Cotterell Station - Time of Inspections After July 21



Cotterell Fouled Waters - After July 21 2017



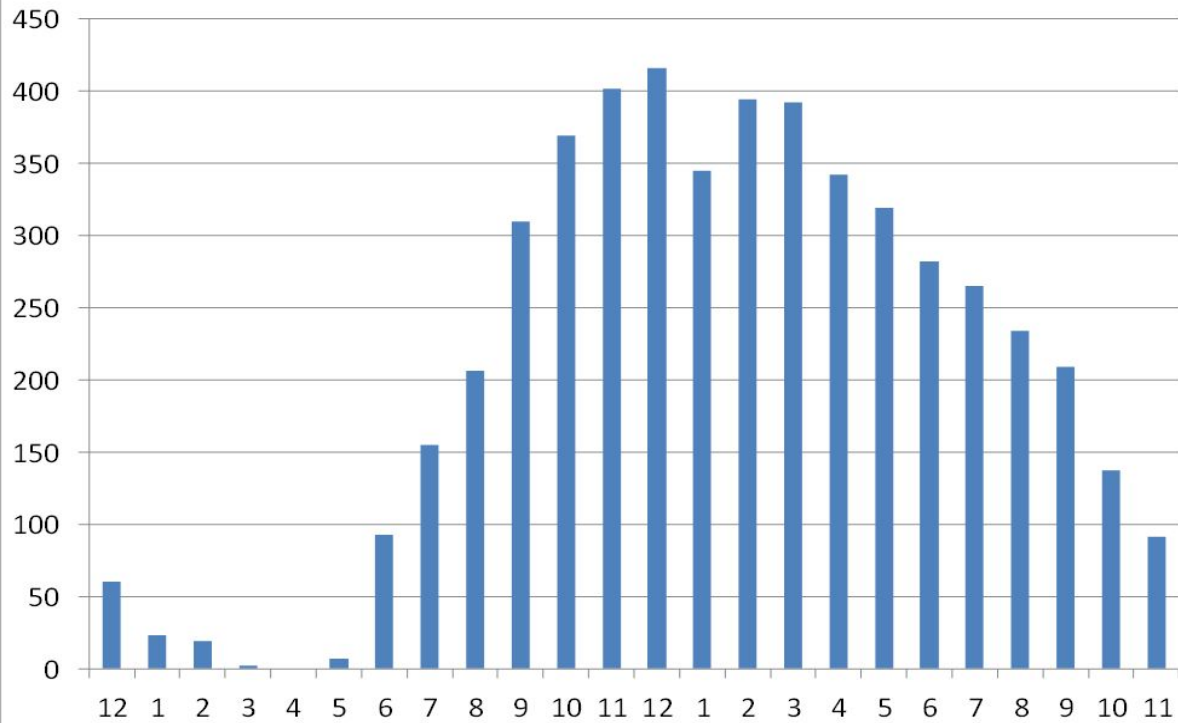
2018 Night Inspection

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

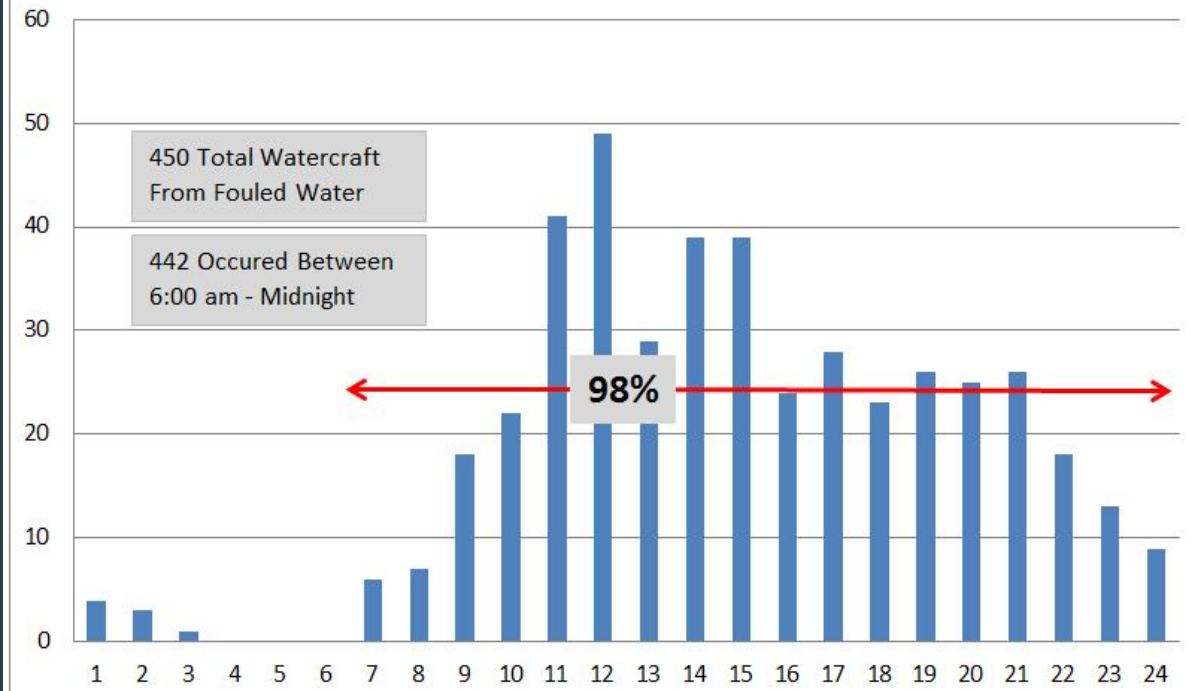


Watercraft Inspection at Night 2018 Data

Cotterel Time of Day 2018



Cotterell Fouled Waters - 2018



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



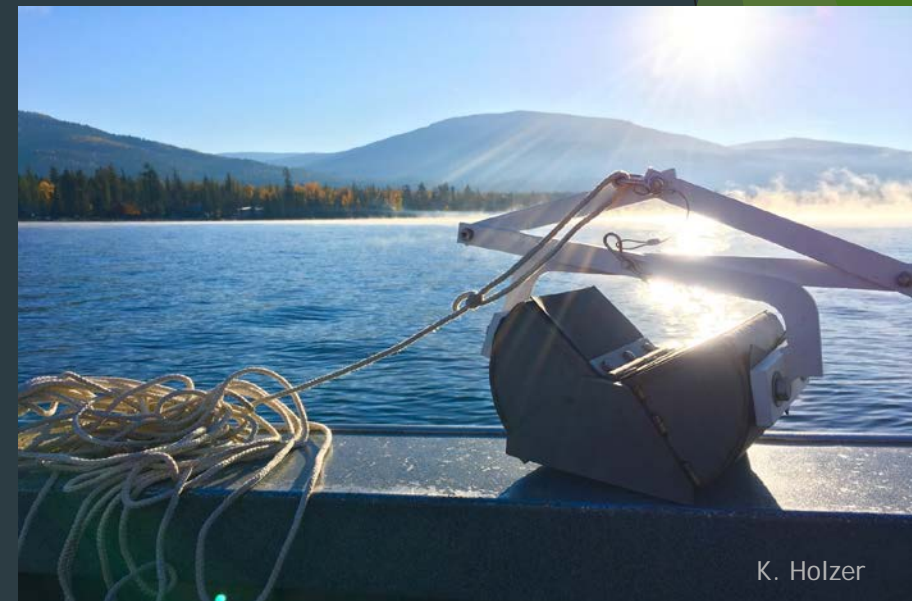
Other Vectors...

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



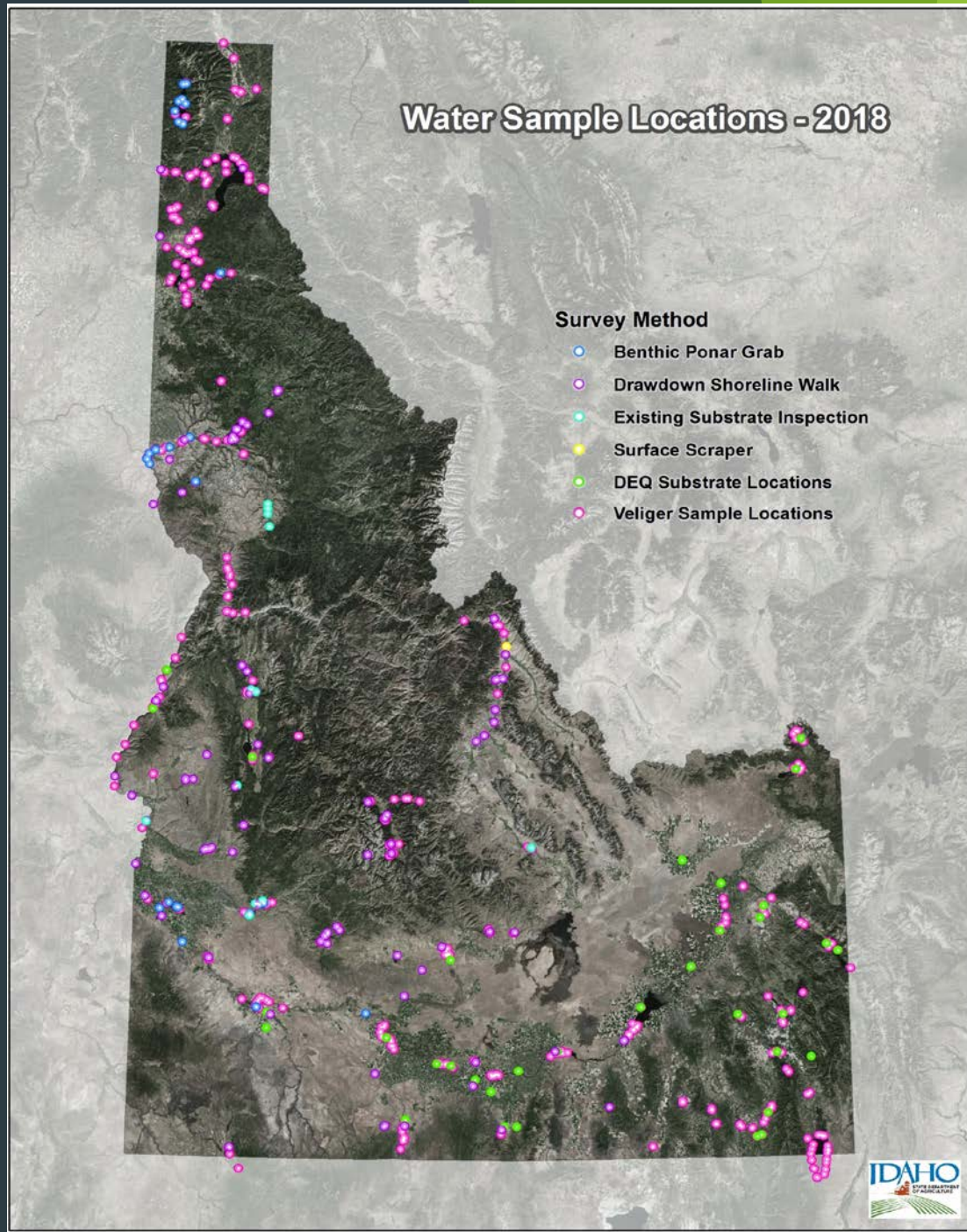
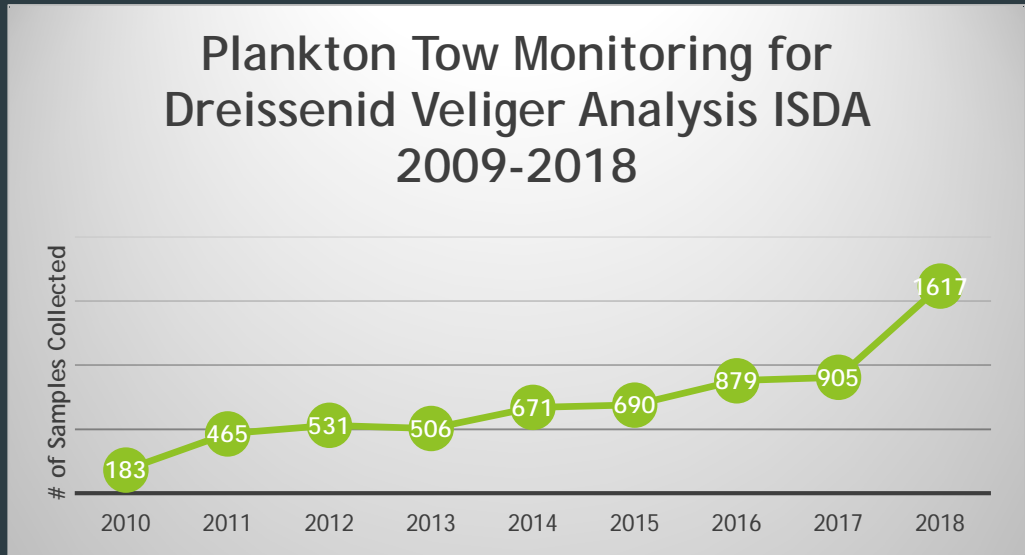
Early Detection Monitoring

- ▶ 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 & others)
- ▶ Survey for invasive plants, snails, clams, mussels, crayfish, etc.
- ▶ Activate Idaho rapid response plan if detection occurs

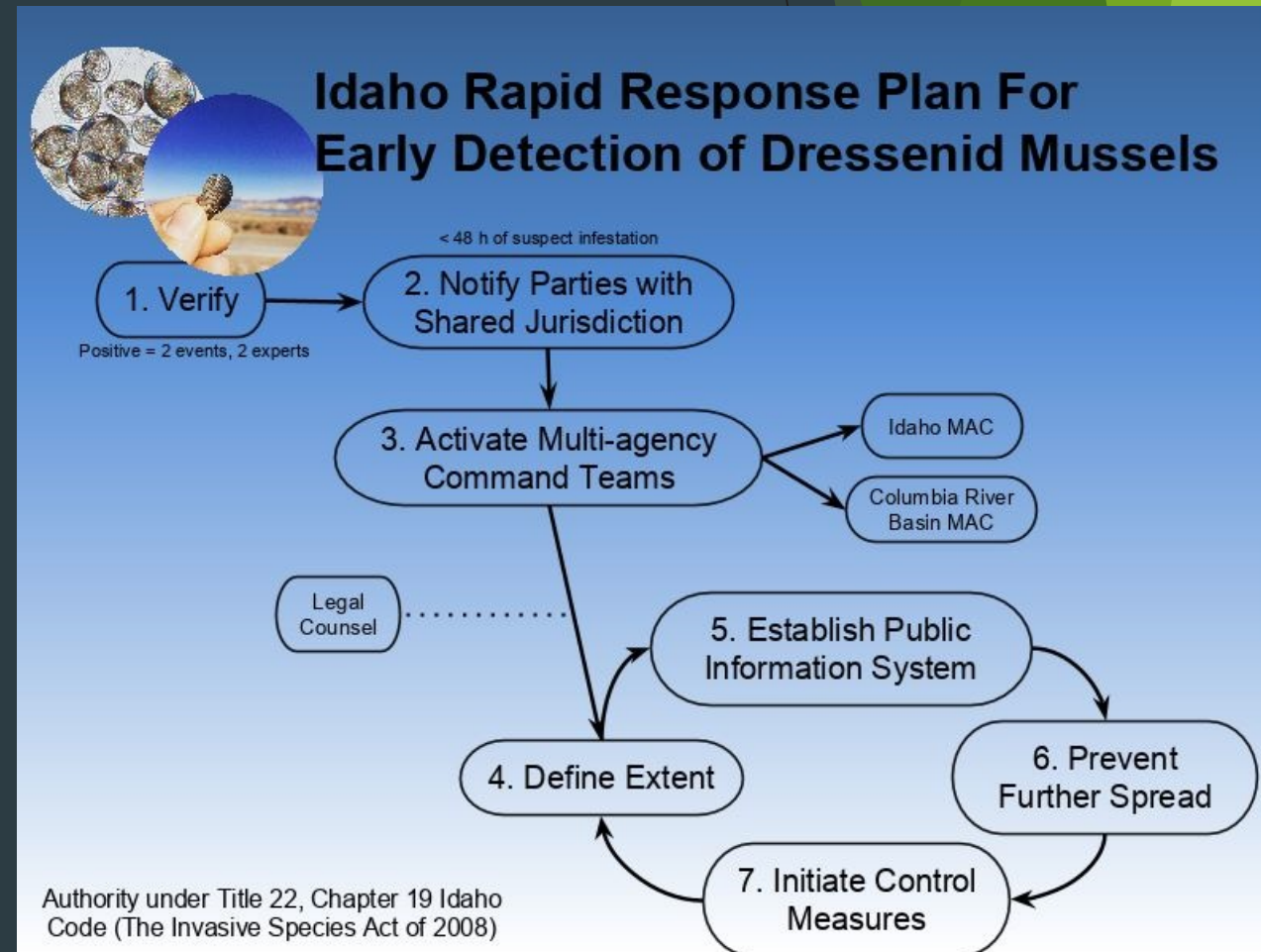


Early Detection Monitoring Throughout the Season

| NAME | Sample events | Samples to collect | Total Samples | Early June | Late June | Early July | Late July | Early August | Late August | Early September | Late September | Early Oct |
|--------------------------------|---------------|--------------------|---------------|------------|-----------|------------|-----------|--------------|-------------|-----------------|----------------|-----------|
| Anderson Lake | 3 | 3 | 9 | | x | x | x | | | | | |
| Clark Fork R (Cabinet Gorge) | 6 | 4 | 24 | | x | x | x | x | | | x | x |
| Clearwater (Lewiston) | 5 | 4 | 20 | | | x | x | x | | | x | x |
| Clearwater River (Orofino) | 5 | 4 | 20 | | | x | x | x | | | x | x |
| Cocolalla | 2 | 3 | 6 | | x | x | | | | | | |
| Coeur d'Alene Lake | 6 | 7 | 42 | | x | x | x | x | | | x | x |
| Coeur d'Alene River (Harrison) | 4 | 3 | 12 | | x | x | x | x | | | | |
| Dworshak Reservoir | 5 | 6 | 30 | | x | x | x | | | | x | x |
| Fernan Lake | 3 | 3 | 9 | | x | x | x | | | | | |
| Hauser Lake | 2 | 3 | 6 | | x | x | | | | | | |
| Hayden Lake | 7 | 6 | 42 | x | x | x | x | x | | | x | x |
| Kootenai River | 6 | 4 | 24 | | | | x | x | x | x | x | x |
| Moose Creek Res | 2 | 3 | 6 | | x | x | | | | | | |
| Pend Oreille Lake | 6 | 7 | 42 | | x | x | x | x | | | x | x |
| Priest Lake | 6 | 7 | 42 | | x | x | x | x | | | x | x |
| Round Lake | 3 | 3 | 9 | | x | x | x | | | | | |
| Salmon River, Riggins | 5 | 4 | 20 | | x | x | x | | | | x | x |
| Snake River (Lewiston) | 6 | 4 | 24 | | x | x | x | x | | | x | x |
| Spirit | 2 | 3 | 6 | | x | x | | | | | | |
| Spokane River | 4 | 3 | 12 | | x | x | x | x | | | | |
| Twin Lakes | 2 | 3 | 6 | | x | x | | | | | | |

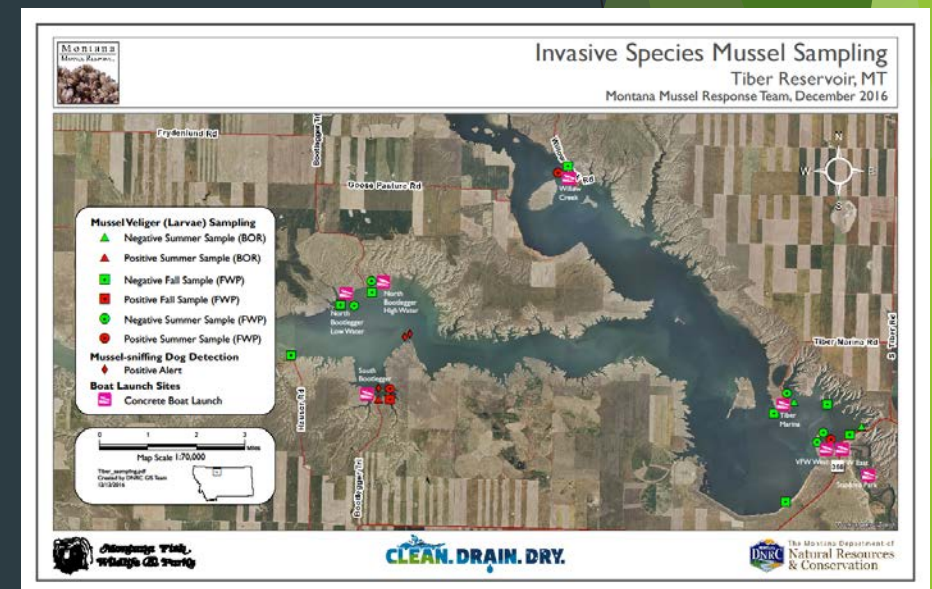
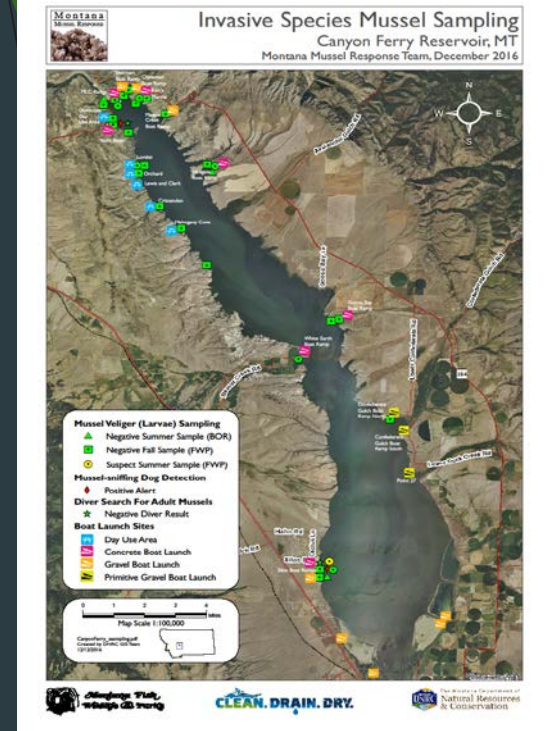
Idaho Rapid Response

- ▶ Idaho Rapid Response Plan
 - ▶ Aligns with regional state plans
 - ▶ Aligns with Columbia River Basin Interagency Plan
 - ▶ Focuses on verification and communication
 - ▶ Learning from other states' experiences
- ▶ Rapid response exercise - Spring 2019
 - ▶ Initial planning phase
 - ▶ Hells Canyon Complex
 - ▶ Idaho Power Company partner
 - ▶ State of Oregon
 - ▶ Nez Perce Tribe
 - ▶ US Forest Service
 - ▶ Invasive Species Action Network (facilitator)
 - ▶ Pacific States Marine Fisheries Commission



Montana Mussel Update

- ▶ Tiber (Lake Elwell) Reservoir:
 - Mussel veligers identified in October 2016
 - Montana categorized as “suspect” for quagga mussels
- ▶ Canyon Ferry Reservoir: Helena
 - Single mussel veliger identified that appears to be zebra/quagga
 - Montana categorized as “inconclusive”
- ▶ Invasive Species Emergency declared by Governor
- ▶ Incident command team established
 - Team disbanded and shifted to implementation
 - \$10 million over the initial 2 years
- ▶ Expanded prevention and containment measures
- ▶ No veliger or adult detections in 2018



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



www.invasivespecies.idaho.gov

- ▶ Invasive Species & Noxious Weeds
- ▶ Watercraft Inspection
- ▶ Early Detection Monitoring
- ▶ Grasshopper & Mormon Cricket Control
- ▶ Noxious Weed Free Forage & Straw
- ▶ Forms, Reports, & Publications
- ▶ Maps
- ▶ FAQs
- ▶ Laws & Rules
- ▶ Contact Information

