

# 2023 Early Detection Zebra and Quagga Mussel Monitoring Program Update

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Aquatic Invasive Species Unit

Columbia River Basin Team Meeting June 6, 2023



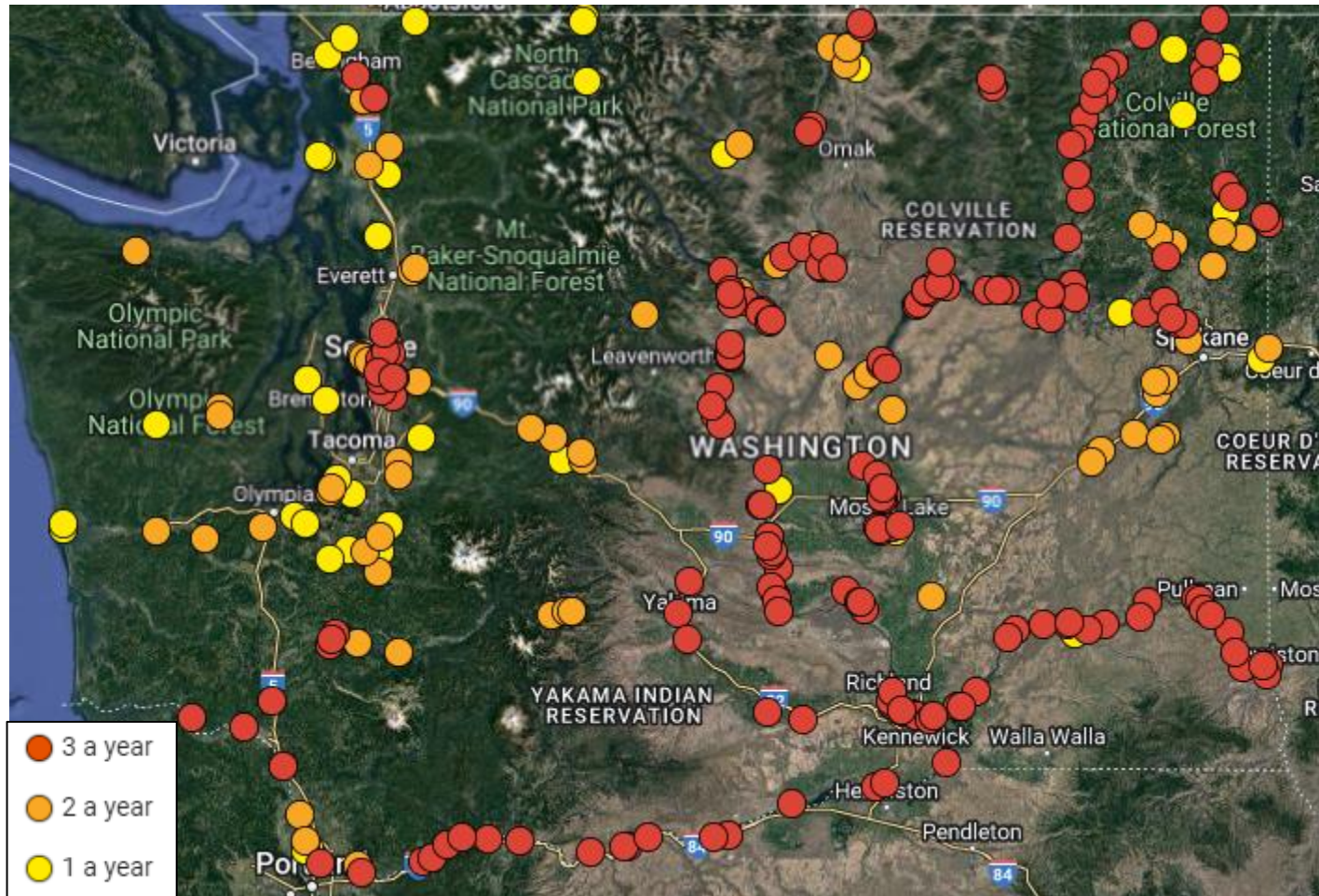
# Partners

Partners	Water Body Common Name
Chelan County PUD	Lake Entiat
Confederated Tribes of the Colville Reservation	Lake Roosevelt, Rufus Woods Lake, and Kettle River
Douglas County PUD	Lake Pateros
Grant County PUD	Priest Rapids Lake and Wanapum Lake
Seattle City Light	Boundary Reservoir
Snohomish County PUD	Spada Lake
Spokane Tribe of Indians	Lake Roosevelt
U.S. Bureau of Reclamation	Lake Roosevelt



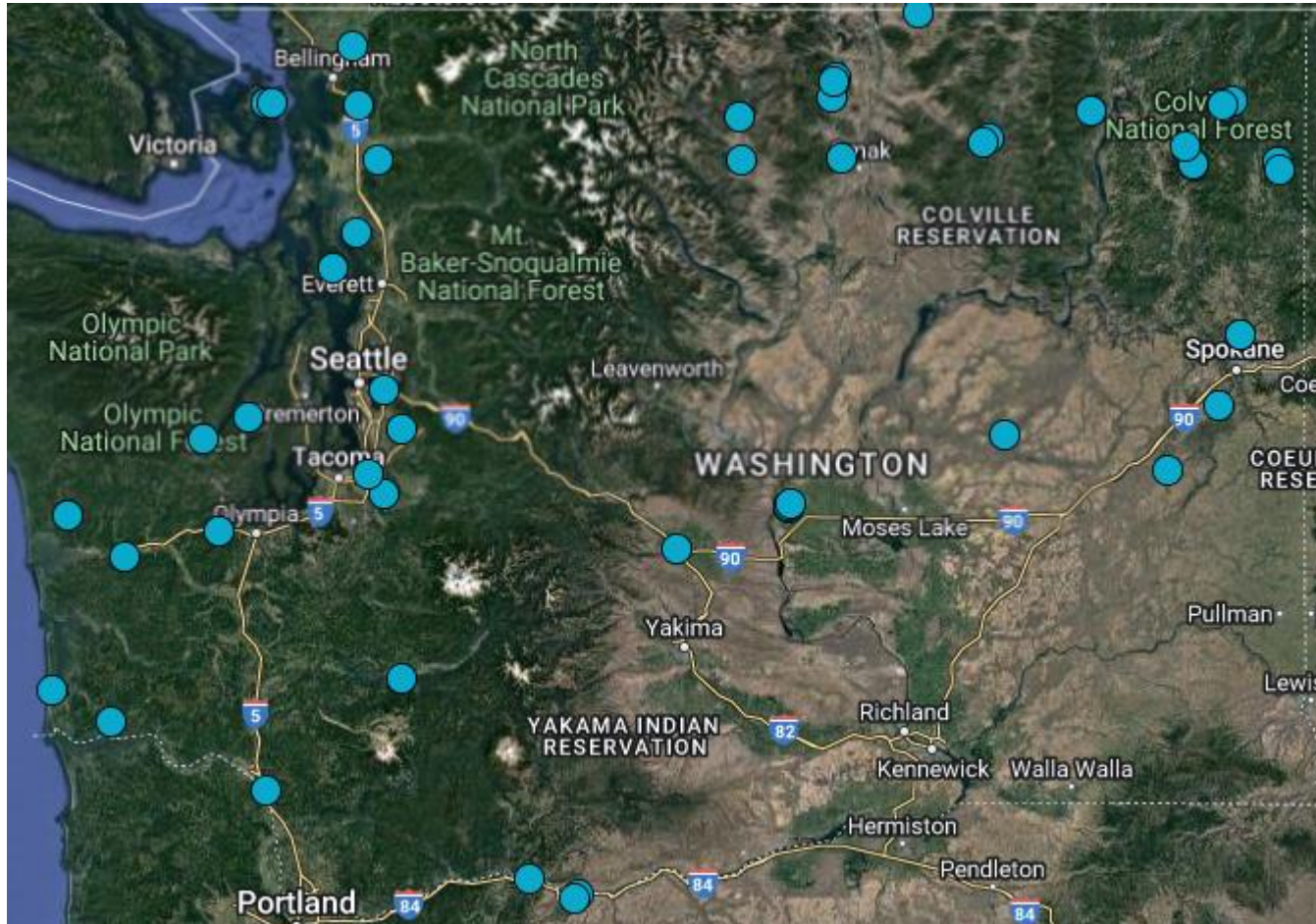
# 2023 High-Risk Early Detection Monitoring Sites

(124 water bodies and 304 sites)



# 2023 Low-Risk Early Detection Monitoring Sites

(49 sites withing 48 waterbodies once every 2 or 3 years)



# Sampling Methods

(field season May-November)

## High-Risk Sites

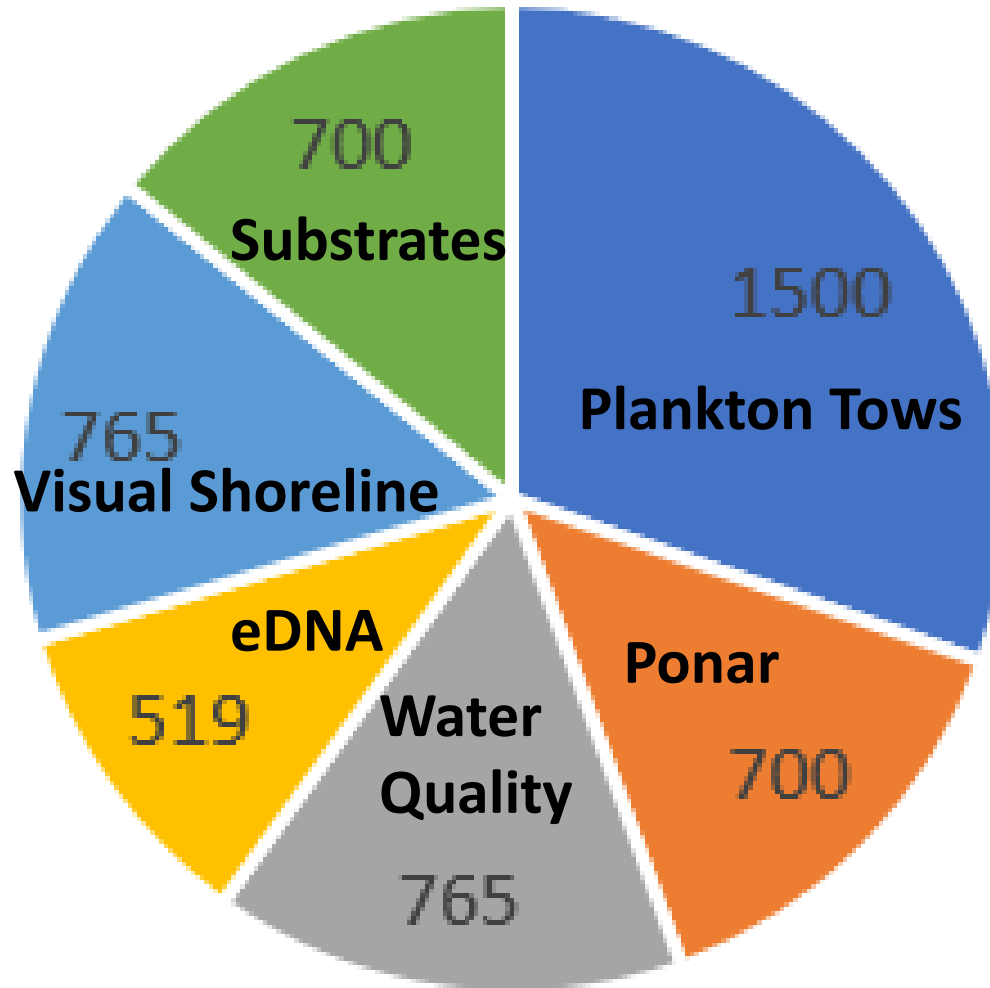
- Horizontal and vertical plankton net tows
- Artificial substrates/collection plates
- Visual and tactile shoreline
- Water quality
- Dissolved calcium
- Environmental DNA (eDNA)
  - Only 3 a year sites
- Petite Ponar grab sampler
- AIS signage installed

## Low-Risk Sites

- Visual and tactile shoreline
- Water quality
- Dissolved calcium
- AIS signage installed
- Other sample methods if site allows



# 2023 Forecast



# 2023 Analysis



## **Plankton tows (weekly)**

- Steve Wells
- Cameron Lange

## **eDNA (monthly)**

- WDFW Genetics Lab Dr. Lisa Crosson

## **Dissolved calcium (monthly)**

- Eastern Washington University Professor Carmen Nezat



# AIS Signage



## Protect Your Waters From Aquatic Invasive Species

**BEFORE and AFTER launching boat**

<b>CLEAN</b>	<b>DRAIN</b>	<b>DRY</b>
Clean interior/exterior of boat, trailer, & vehicle of any organic matter such as aquatic plants & mud. Dispose organic matter & unused bait in trash.	Drain bilge, ballast, wells & buckets before you leave area. Keep bilge plug out during transport.	Dry equipment before launching watercraft into another body of water.

For information on **FREE** boat inspections, call 1-888-WDFW-AIS (933-9247) or visit [wdfw.wa.gov/ais](http://wdfw.wa.gov/ais).

**Before you launch a boat that is not registered in Washington, you MUST purchase an Aquatic Invasive Species Prevention Permit.**

How to buy:

- Online at [fishhunt.dfw.wa.gov](http://fishhunt.dfw.wa.gov)
- Find a license dealer near you at [wdfw.wa.gov/licenses/dealers](http://wdfw.wa.gov/licenses/dealers)

Funds from permit sales supports efforts to keep Washington's waters free of aquatic invasive species and manage infestations when prevention fails.

**Avoid Citations or Fines**

Failure to possess an Aquatic Invasive Species Prevention Permit - Infraction --- RCW 77.15.160

Possession of aquatic equipment not meeting clean drain requirements - Infraction --- RCW 77.15.161

Introduction or possession of prohibited species - up to class C felony --- RCW 77.15.161(6)

## STOP THE SPREAD OF INVASIVE NORTHERN PIKE

This site is at risk for invasion by northern pike. Northern pike pose a significant threat to Washington salmon and steelhead.

**IF CAUGHT DO NOT RELEASE**

Photograph and report to the Washington Department of Fish and Wildlife

1-888-WDFW-AIS  
[fishpgm@dfw.wa.gov](mailto:fishpgm@dfw.wa.gov)  
[invasivespecies.wa.gov/report-a-sighting/](http://invasivespecies.wa.gov/report-a-sighting/)

- Each sign installed at site
- Signs are not installed without property manager's permission





# WDFW ZQM Teams

(2-person team and a boat)



## May 1 – November 15

- Olympia (western WA)
- Spokane (eastern WA)
- Ephrata (central WA)

## Show me the money

- July 1 range reallocation
- July 1 cost of living increase
- Permanent career seasonal
- \$25 an hour



# In Progress

## –Instructional sampling videos

- All 6 sampling methods
- Videos will be implemented into our protocols
- Produced by WDFW Public Affairs
- Public version for Facebook, Instagram, and Twitter



# Questions?



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