

# U.S. Fish and Wildlife Service Updates



Theresa Thom, PhD  
Joanne M. Grady  
Barak Shemai

100<sup>th</sup> Meridian Columbia River Basin Team Meeting  
June 8-9, 2021

# Our Adventure Today:

- National Updates
- Funding Updates
- Regional Updates
  - Hatchery Monitoring
  - Horizon Scanning
- HACCP training
- Contact us!



# National Updates

- Federal interagency MOU on rapid response to invasive mussels in western waters - DOI, USFS, and USACE (NOV 18, 2020).
  - Focus on implementation in FY21/FY22

# National Updates

- Inter-Agency Agreement (5 years)
  - Funding for Watercraft Inspection and Decon classes (PSMFC) and western Watercraft Inspection and Decon database (CPW)
  - Signatories – Lead: FWS
    - BLM, BOR, NPS
  - Goal of \$250K annually across 4 bureaus
  - Initiated in FY20

# Funding Updates – FY2021

- QZAP funds (Region 2)
  - FY21 funds toward WID classes and WID database (interagency agreement)
  - Seaplane Risk Analysis – FY22 (F21AS00406) – Assess the risk of spreading AIS via seaplanes and develop measures to mitigate risk (closed June 4, 2021)
  - eDNA testing for zebra mussels on moss ball shipments

# Funding Updates – FY2021

- State ANS Plan Grants (all regions)
  - Funding opportunity F21AS00436 – applications due June 15
  - Grant Solutions financial assistance platform
  - Increased for 2021 (~\$99,000 per applicant)
- QZAP funds (Region 2)
  - Funding opportunity posted now (funding announcement F21AS00441) closes June 15, 2021
  - Increased to \$2.25 Million in FY21 (\$2.0M for FY20 )
  - Containment, prevention, outreach, early detection, research



# Funding Updates – FY2021

- FWS / USGS Science Support Partnership Projects
  - FY21 successful proposal with Sarah Converse with the WA Cooperative Fish & Wildlife Research Unit
  - (Rusty Crayfish and Flowering Rush) – optimizing AIS control and monitoring
  - Modeling will start during Summer FY2021
- European Green Crab
  - FWS and USGS – Interagency Agreement starting in FY21
  - Focus on optimizing sampling for EGC – esp. in WA

# Grant Solutions



- Transparent, consistent, documented process.
- All DOI bureaus using Grant Solutions
  - Live now for DOI bureaus
  - Thank you for your patience during this transition!



# Regional Updates

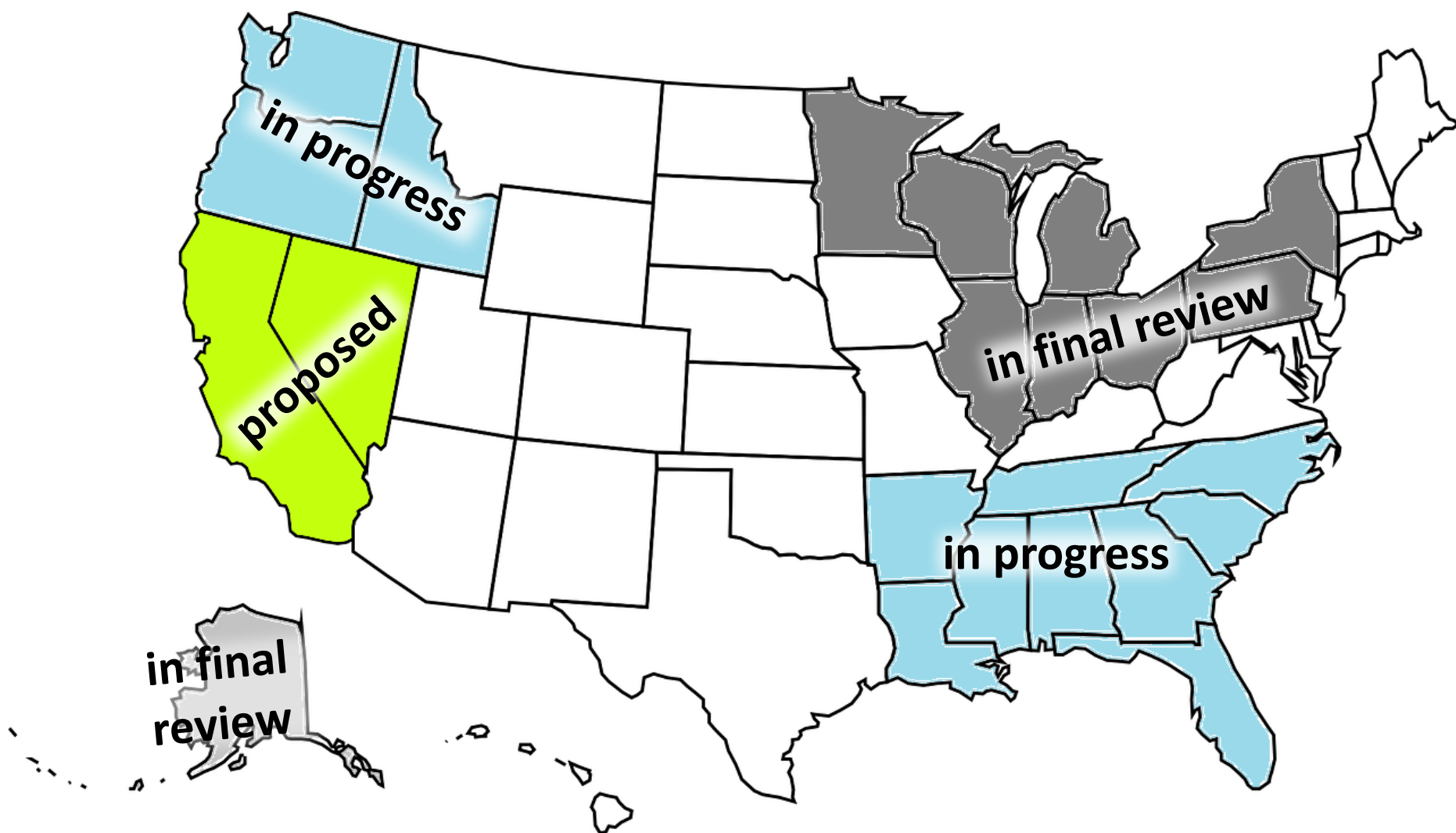
- Hatchery Monitoring
- Monthly inspections (Region 1 geography)
- eDNA work to test for NZMS (2015-present)
- eDNA work to test for QZM (2017 – 2018)
- FY21 – eDNA for NZMS, QZM, northern pike, Asian carp
- Testing portable PCR unit for real-time eDNA sample processing at NFHs in FY21

# Regional Updates

- Horizon Scanning (NOV 18, 2020 kickoff)
  - Focused on Pacific Northwest
  - Goal is to identify future invasive species
  - Current climate matching
  - Focus on recreational watercraft pathway

## Summary of Active U.S. Horizon Scanning Efforts

Lead Agency/	U.S. Geological Survey	U.S. Fish and Wildlife Service	University of Florida	National Academy of Sciences/Texas Parks and Wildlife
<b>Geographic Scope</b>	National	Regional (multiple)	State of Florida	Northern Gulf Coast except Florida
<b>Pathway Scope</b>	Organisms in trade	Unintentional movement pathways	All	All
<b>Taxonomic Scope</b>	Freshwater and terrestrial vertebrates	Fresh- and brackish water vertebrates, macroinvertebrates, and/or plants	Aquatic and terrestrial vertebrates, invertebrates, and plants	Marine vertebrates, invertebrates, and parasites



## SCOPE DEFINITION

Assemble regional  
advisory group

Identify focal  
pathways

Identify target  
geographic region

Identify focal taxa

## SPECIES LIST GENERATION

Identify top donor  
regions by pathway

Calculate climate  
similarity between  
target and donor  
regions

Query species  
occurrence databases  
and verify species

## RISK SCREENING

Prioritize  
species list  
(as needed)

Assess risk  
posed by  
potential  
species  
introductions

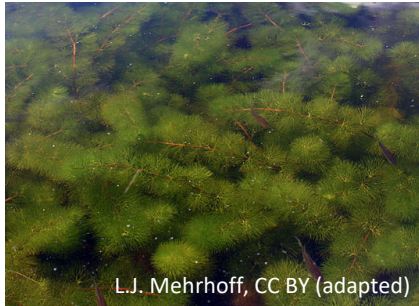
*Horizon Scanning Process*

# Scoping Discussion Participants

- Burns Paiute Tribe
- Columbia River Inter-Tribal Fish Commission
- Idaho Department of Agriculture
- Idaho Power Company
- Invasive Species Action Network
- Montana Fish Wildlife and Parks
- Mosaic Ecology
- National Park Service
- Oregon Department of Environmental Quality
- Oregon Department of Fish and Wildlife
- Oregon Invasive Species Council
- Oregon State Marine Board
- Port of Portland
- Portland State University
- Tualatin Soil and Water Conservation District
- University of Idaho
- University of Washington
- U.S. Army Corps of Engineers
- U.S. Bureau of Reclamation
- U.S. Fish and Wildlife Service
- U.S. Geological Survey
- Washington Department of Fish and Wildlife
- Washington Invasive Species Council
- Washington State University



# Taxonomic Scope



**Family Cabombaceae**



**Family Salviniaceae**



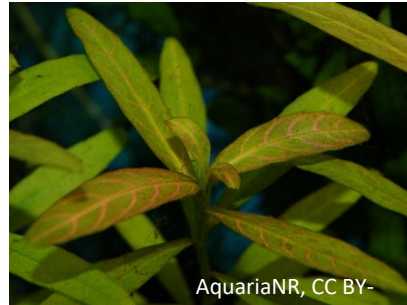
**Family Hydrocharitaceae**



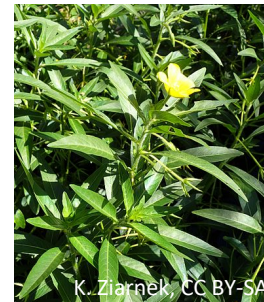
**Genus *Ceratophyllum***  
**(Family Ceratophyllaceae)**



**Family Haloragaceae**



**Genus *Hygrophila***  
**(Family Acanthaceae)**



**Genus *Ludwigia***  
**(Family Onagraceae)**



**Order Charales**

# HACCP - derailed by Covid19

- Trained most regional AIS Coordinators and NPS reps as instructors in 2019
- Internal funding in FWS and NPS to support HACCP classes
  - Had planned to hold 22 classes 2019-2021
- Next Steps TBD – future dates?



# Please contact us!



**Theresa Thom**  
FWS – Region 1  
Pacific Northwest  
971-278-8029 (cell)  
503-736-4722 (office)  
[theresa\\_thom@fws.gov](mailto:theresa_thom@fws.gov)

**Joanne Grady**  
FWS – Region 6  
Mountain Prairie Region  
303-842-5268 (cell)  
303-236-4519 (office)  
[joanne\\_grady@fws.gov](mailto:joanne_grady@fws.gov)

**Barak Shemai**  
FWS – Region 2  
Southwest Region  
505-248-6593 (office)  
505-366-9565 (cell)  
[barak\\_shemai@fws.gov](mailto:barak_shemai@fws.gov)