



AQUATIC INVASIVE SPECIES NEWS

4/28/17

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DREISSENID MUSSELS

[\[South Dakota\] Evidence of the Invasion; Despite Efforts, Zebra Mussels Have ‘Exploded’ In Lewis and Clark Waters \(4/14/2017\)](#)

After nearly three years of work, Sam Schelhaas was stunned — and disheartened — at his recent findings in Lewis and Clark Lake west of Yankton... “I was absolutely shocked by the number of zebra mussels and how quickly their numbers had exploded,” he said.

[\[Kansas\] Invasive zebra mussel colony found in city’s water piping; city to start new water treatment to kill them \(4/6/2017\)](#)

City utility workers recently made an unpleasant discovery in one of the city’s water transmission mains. An inspection found the inside of the main coated with a layer of zebra mussels that stretched for approximately 2,000 feet, according to Philip Ciesielski, assistant director of utilities. ... At their meeting this week, city commissioners approved the purchase of about \$80,000 worth of the copper ion generation equipment to manage the mussels. Ciesielski said that the equipment will put low doses of copper ions into the raw water from the lake that will kill the mussels and their free-floating larvae.

[\[Montana\] Agencies revising Montana’s plan to respond to invasive mussels \(4/4/2017\)](#)

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Representatives from state and federal agencies, as well as private industry, came together in Helena today, talking about how they would respond if invasive mussels were found in a Montana lake. Dozens of people took part in the session, known as a “tabletop exercise.” They gathered around a table Tuesday, working through a draft plan to deal with a sudden discovery of mussels...

[\[Montana\] Tribal schools monitor Flathead Lake for invaders \(4/24/2017\)](#)

...Students with the youth initiative Environmental Advocates for Global and Ecological Sustainability (EAGLES) spent the start of their school week learning how to identify zebra and quagga mussels, both invasive species. Then they walked the lake shore looking for the mussels that in other states have resulted in millions of dollars of damage to hydroelectric facilities, municipal water infrastructure, agriculture equipment and recreational resources...

[\[Great Lakes\] Usually the villain, invasive species odd hero for native fish \(4/6/2017\)](#)

...Invasive quagga mussels have depleted nutrients in the lakes, said Matt Herbert, an aquatic ecologist with the Nature Conservancy. Cisco do well in low-nutrient environments, unlike competing species like the invasive alewife. That gives cisco space to thrive...Now that the quagga has done its part, the cisco are on a roll. Other than accidentally introducing the invasive species, humans can't take credit for the comeback, according to Donner...

[\[Great Lakes\] Zebra Mussels are still harming Lake Erie \(4/2/2017\)](#)

... While it is true that protective coatings and chemical treatments have diminished their impacts to water intake pipes, boat bottoms and outdrives, the Great Lakes ecosystem has been permanently changed...

Scientific Publication:

Hassett, Whitney, Stephen M. Bollens, Timothy D. Coughlin, Gretchen Rollwagen-Bollens, Julie Zimmerman, and Joshua E. Emerson. 2017. [Veligers of the invasive Asian clam *Corbicula fluminea* in the Columbia River Basin: Broad-scale distribution, abundance, and ecological associations.](#) Lake and Reservoir Management. Online: pp 1-15.

BOAT INSPECTION/DECON/TECH NEWS

[From Theory to Practice: A Comparison of State Watercraft Inspection and Decontamination Programs to the Model Legal Framework \(April 2017\)](#)

To assist state natural resource managers and policy-makers in identifying commonalities, differences, and gaps among states, the [National Sea Grant Law Center \(NSGLC\)](#) undertook a review of each state's WID laws and regulations to see how each state's program compared to the authorities set forth in the Model State Legislative Provisions and Model Regulation. This companion report, released in April 2017, contains a summary of the NSGLC findings for all 50 states and detailed state-by-state comparisons for the eighteen states with WID programs.

[Multiple quagga mussel-fouled watercraft from Arizona intercepted out of state \(4/21/17\)](#)

PHOENIX — Following the recent interception and impoundment of multiple quagga mussel-fouled watercraft that had been in Lake Powell or Lake Havasu for extended periods, the Arizona Game and Fish Department reminds boaters to "clean, drain and dry" – and especially decontaminate — their watercraft and equipment before exiting waters designated as having aquatic invasive species. Five vessels from Arizona waters have been impounded during the past month — three in Idaho and two in Colorado. "There is absolutely no reason why boaters are not decontaminating moored boats before leaving a quagga mussel-infected water," said Chris Cantrell, AZGFD's Aquatic Wildlife Branch Chief...

[\[British Columbia\] BC looks to halt aquatic invasive species at border-crossings \(4/8/2017\)](#)

The BC Conservation Officer Service will be watching the BC border to halt the movement of aquatic invasive species this season. ... "The COS will be deploying a mussel detection dog in 2017. In addition to detecting mussels, the dog will be trained to detect contraband wildlife parts and other evidence," says Doyle. "The focus is detecting boats that may be contaminated with muscles before they enter BC waterways."

[\[British Columbia\] More to do in fight against invasive mussels says water board \(4/6/2017\)](#)

... While [Premier Christy] Clark announced 35 more auxiliary conservation officers will be hired for boat and watercraft inspections, and two more inspection stations added, the water board wants to see the new recruits made full-status officers so they'll have the authority to pursue anyone who fails to stop at a station and have their watercraft inspected...

[\[Montana\] Boater invasive species certification now available online \(4/14/2017\)](#)

This year in Montana watercraft owners can be certified as local boaters at Tiber and Canyon Ferry to allow them to bypass decontamination stations at the reservoirs after each trip out on the water. Local boater certification is intended for those boaters who intend to boat only at Canyon Ferry or Tiber. Certified local boaters sign an agreement pledging to go through decontamination should they decide to launch in another waterbody. Certification for the local boater programs have been available at Montana Fish, Wildlife and Parks open houses around the state and now online.

Related articles:

[Montana's invasive mussel response swings into gear April 15 \(4/13/2017\)](#)

[New AIS administrative rules in effect April 15 \(4/13/2017\)](#)

[\[Montana\] Grant helps whitefish develop invasive species program \(4/9/2017\)](#)

Whitefish Lake Institute has received a \$38,500 grant from the Whitefish Community Foundation this week to develop what is expected to be one of the most comprehensive zebra and quagga mussel prevention programs in the state...

[\[Colorado\] Parks and wildlife intercepts four boats infested with zebra or quagga mussels \(4/14/2017\)](#)

Colorado Parks and Wildlife staff performed full decontaminations on four boats infested with zebra or quagga mussels between April 6-13. Each boat came into Colorado from another state and was intercepted at watercraft inspection and decontamination stations. CPW's Aquatic Nuisance Species program has intercepted 122 infested boats since the program began in 2008.

[\[Colorado\] ANS boat inspections ramping up across Colorado for 2017 \(3/29/2017\)](#)

...Alternative funding and systems are all being explored and CPW hopes to see a legislative solution going forward. If you are a boater in this state, you need to pay attention and make sure your voice is heard...

Related articles:

[Lemon Dam bans motorized boats for up to 3 years \(4/27/17\)](#)

[Rules tighten for boats entering Basalt-area's Ruedi Reservoir \(4/4/2017\)](#)

[\[Wyoming\] Follow boating rules to avoid spread of aquatic invasive species \(4/20/2017\)](#)

... The Wyoming Game and Fish reminds boaters that they need to have a current AIS sticker attached to their boat prior to launching. This requirement pertains to all boats — motorized and nonmotorized — with the exception of inflatable boats under 10 feet in length...

[Idaho leads region's increased aquatic invasive species boat inspection efforts \(4/26/17\)](#)

The crew at the Idaho boat inspection station on Interstate 90 east of Fourth of July Pass inspects a boat from Alberta for invasive species such as ...

MARINE

[\[Washington\] Invasive green crab found at Dungeness Spit \(4/26/17\)](#)

A new population of invasive European green crab has been found at Dungeness Spit, near Sequim, Washington, rekindling concern over the potential for damage to local marine life and shorelines. Staff and volunteers from U.S. Fish and Wildlife Service, which manages Dungeness Spit National Wildlife Refuge, captured a total of 13 European green crab over the past two weeks as part of the UW-based Washington Sea Grant [Crab Team](#) early detection program. These numbers indicate that the invasive crabs are more abundant at Dungeness Spit than at the two other known locations in Washington's inland waters...

[Found: An Invading Snail That Slings Slime at its Prey \(4/5/2017\)](#)

...“These shipwrecks might be acting as stepping-stones for the settlement of invasive species,” one Florida scientist told National Geographic. But they could also be places where scientists could spot early warning signs of an invasion and try to limit the migration of new species into the area, before they start slinging their mucus nets all over.

Scientific Publication:

[Jute, A. & Dunphy, B.J.\(2017\) The potential efficacy and application of freshwater and hypersaline immersion to control the spread of a marine invasive species. Biol Invasions. 19: 1137. doi:10.1007/s10530-016-1350-8](#)

[Stefaniak, L.M. \(2017\) Mechanisms for invasion success by *Didemnum vexillum* \(Chordata: Ascidiacea\): observations versus manipulations. Biol Invasions. 19: 1213. doi:10.1007/s10530-016-1317-9](#)

[Simkanin, C., Davidson, I.C., Therriault, T.W. et al. \(2017\) Manipulating propagule pressure to test the invasibility of subtidal marine habitats. Biol Invasions 19: 1565. doi:10.1007/s10530-017-1379-3](#)

BALLAST WATER/BIOFOULING

[Seattle getting massive commercial dry dock from South Korea in Vigor Industrial's \\$20M deal \(4/17/2017\)](#)

Vigor Industrial has bought what will be the largest commercial dry dock in the Puget Sound region for about \$20 million, and will tow the massive piece of equipment to Seattle from South Korea this fall, the company announced Monday.

[Water production concept to eliminate BWMS installations \(4/20/2017\)](#)

A system enabling cruiseships to continuously produce potable water from seawater – in the process eliminating the need for a ballast water treatment system – is to receive its prototype installation onboard Costa Cruises vessel ‘Costa Serena’ in May 2017

[Call for IMO to Reconsider Tin in Silicone Coatings \(4/19/017\)](#)

The re-emergence of organotin in marine hull coatings is of increasing concern, with academics and environmentalists calling on IMO to investigate the use of tin in silicone-based foul release systems and other ships hull coatings.

[New global shipping treaty to unlock \\$30b investment \(4/19/2017\)](#)

The Ballast Water Management (BWM) Convention of the International Maritime Organisation (IMO), is poised to unlock an unprecedented estimated private sector investment of about \$30b in the next few years. The BMW was adopted in order to control and manage ships ballast and sediments. This will help reduce the harmful effects on the marine environment that are spread through aquatic micro organisms transferred from one area to another through ballasting operations of the ship...

[USCG denies owners on ballast rule extensions \(4/14/2017\)](#)

More owners keep trying to push off installing ballast gear, but USCG cracking down... The denials come as the agency tells owners to seriously consider one of the three USCG type-approved ballast water management systems (BWMS) currently on the market, or find other ways to treat their ballast discharge. The USCG’s latest list of extensions to meet ballast water rules shows a total of 55 ships were denied requests to delay compliance on meeting ballast discharge rules. In comparison, the USCG only showed 3 ships were denied those extensions as of last December...

[Ballast water can harbor invasive viruses, study says \(4/4/2017\)](#)

Ballast water entering the Great Lakes may contain viruses dangerous to wildlife and humans, according to a recent study published by the American Chemical Society...

Scientific Article:

[Attenuation and modification of the ballast water microbial community during voyages into the Canadian Arctic \(4/21/17\)](#)

FISH

[\[Oregon\] Non-Native Shad Provide As Much Marine-Derived Nutrients To Lower Columbia River As Do Salmon \(4/7/2107\)](#)

A non-native anadromous fish now provides as much marine-derived nutrients, such as phosphorus and nitrogen, in the lower Columbia River as do native salmon. While the numbers of salmon and steelhead have declined over the past century, the number of American shad has risen significantly, particularly after the construction of The Dalles Dam, which removed a barrier – Celilo Falls – to the shad’s upriver migration...

[\[Colorado\] Rocky Mountain Study Details Invasive Rainbow Trout Impacts on Native Cutthroat Trout \(4/7/2017\)](#)

...Hybridization, or the interbreeding of species, is increasing between native and invasive trout across the northern Rocky Mountains, according to a study released this week by the U.S. Geological Survey and partners...

[\[Washington\] Gillnetting ramps up to curb northern pike in Columbia River \(4/2/2017\)](#)

The front lines in the battle against non-native northern pike invading the Columbia River have moved to the Kettle Falls area of Lake Roosevelt. Gillnetting that started last year after the confirmation of northern pike spawning at the mouths of the Kettle and Colville rivers has shifted from survey mode to suppression, said Holly McLellan, fisheries biologist for the Colville Tribe...

Related Articles:

[\[Idaho\] Hayden angler bloodied by Idaho record northern pike \(4/1/2017\)](#)

[\[Idaho\] Tribe resumes gillnetting northern pike in Lake Coeur d’Alene \(4/10/2017\)](#)

[\[Washington\] Tribe to offer anglers \\$10 reward for northern pike heads from Lake Roosevelt \(4/14/2017\)](#)

[\[Washington\] Invasive Northern Pike Population in Lake Roosevelt Growing; Eradication Funding Running Low \(4/14/2017\)](#)

[\[Great Lakes\] Klobuchar, Franken among senators asking Trump to release Asian carp project \(4/11/2017\)](#)

...A dozen Great Lakes states senators have sent a letter to Trump administration officials urging them to move ahead with a plan to stop Asian carp from entering the Great Lakes by stopping them at a Chicago-area lock and dam. The carp project, which was supposed to be outlined in a February study released by the U.S. Army Corps of Engineers, was held back by the Trump administration at the last minute with no set date for release...

Related Article: [Barge owners holding Asian carp report hostage \(4/27/17\)](#)

[Asian Carp Would Have Adequate Food to Survive in Lake Michigan \(April 26, 2017\)](#)

If invasive bighead carp and silver carp spread into Lake Michigan, there would be enough food available for these particular species of Asian carp to survive, according to [a new study by the U.S. Geological Survey](#).

AQUACULTURE

[First commercial US offshore finfish farm verges on public hearings in New York \(4/10/2017\)](#)

Manna Fish Farms is poised to be the first commercial finfish operation to become permitted for US federal waters. CEO Donna Lanzetta expects public hearings to commence this summer for her plan to produce striped bass in 70-foot-diameter spherical aquapods off the coast of New York, a venture she began in 2013.

[\[Live fish transport\] Ruling welcomed by US aquaculture industry \(4/11/2017\)](#)

US aquaculture producers should be able to transport live fish across state boundaries without the prospect of inadvertently triggering draconian penalties, following a ruling by a Court of Appeal last week that deems that the US Fish and Wildlife Service (FWS) does not have the authority to prohibit interstate transport of injurious wildlife.

See also: [Lacey Act Ruling](#)

[Here's what to do if you catch a mystery fish in Idaho — or one that doesn't belong \(3/27/2017\)](#)

...The mystery endured until I got home and did a little online research. The best match I could find was a species called the Prussian carp, which is closely related to the aquarium goldfish. I reached out to Idaho Fish and Game Regional Fisheries Manager Joe Kozfkay for a second opinion, and he arrived at the same guess — more detailed characteristics like the number of scales along the lateral line also matched the Prussian carp...

[Anglers decry wrasse take for salmon farming \(4/21/2017\)](#)

The UK's Angling Trust has called for an immediate suspension of the fishery supplying live, wild-caught wrasse to the salmon aquaculture market, for use in fighting sea lice...

OTHER

[Invasive Species in Nevada Nothing New For Wildlife Officials \(4/21/2017\)](#)

... Invasive, non-native species being released into the wild can have detrimental effects on the surrounding, native wildlife populations. "It happens on a regular basis," Nielsen said, "We are constantly dealing with situations associated with the illegal release of animals into public places."...

[What's in a favorite animal? \(4/11/2017\)](#)

...Children in the Bahamas and in North Carolina have different favorite animals that are in the wild, according to new research. Children in the Bahamas often prefer invasive species such as feral hogs, cats and dogs that can be detrimental to native wildlife...

[\[California\] Are Lake Tahoe's aquatic invasive species edible? \(4/12/2017\)](#)

... While agencies like the Tahoe Regional Planning Agency and the UC Davis Tahoe Environmental Research Center are working to monitor, study and eradicate invasive species, some might wonder, "what can I do?" Well, for starters, you can eat them — or at least some of them....

[What Lies Beneath: Sudden Invasion of a Wisconsin Lake Wasn't So Sudden After All \(3/22/2017\)](#)

Jake Walsh, a post doctoral researcher at the CFL[is the] lead author of a [recent report](#) that has shed some light on this story of spiny water flea (or SWF) in Lake Mendota. And what they've found is a tale fit for a spy thriller – SWF have likely been living in the waters of Lake Mendota for decades just waiting for the right conditions to make their move.

[Our mindset is the biggest obstacle to achieving success against aquatic invasive species \(4/10/2017\)](#)

... We must set success as the outcome and give up the stilted notion that there is nothing that can be done. Conceding defeat ensures one inevitable outcome: AIS will continue to spread, establish and degrade our lakes, rivers, and wetlands – likely at an increasing rate...

Scientific Article:

Gonçalves, V., F. Gherardi, and R. Rebelo. 2017. Bivalve or gastropod? Using profitability estimates to predict prey choice by *P. clarkii*. *Acta Ethologica*, in press (cf. <https://link.springer.com/article/10.1007/s10211-017-0251-x>).

Buley, R.P., Hasler, C.T., Tix, J.A., Suski, C.D., Hubert, T.D. 2017. Can ozone be used to control the spread of freshwater Aquatic Invasive Species? *Management of Biological Invasions*. Vol 8(1):13-24. DOI:10.3391/mbi.2017.8.1.02. http://www.reabic.net/journals/mbi/2017/1/MBI_2017_Buley_etal.pdf

Putnam, J.G., Nelson, J.E., Leis, E.M., Erickson, R.A., Hubert, T.D., Amberg, J.J. 2017. Using silver and bighead carp cell lines for the identification of a unique metabolite fingerprint from thiram-specific chemical exposure. *Chemosphere*. Vol. 168:1477-1485. ISSN 0045-6535. DOI: 10.1016/j.chemosphere.2016.11.046. <http://www.sciencedirect.com/science/article/pii/S0045653516315818>

[\[Oregon\] OISC reveals new weapon in fight against invasive species \(4/12/2017\)](#)

Invasive plants and animals are stressing Oregon's native species and have the potential to cost millions in economic damage to the state's water infrastructure systems, agriculture and forestry. Oregonians and regional partners now have a new coordinated

approach to protecting Oregon from these devastating effects: The Oregon Statewide Strategic Plan for Invasive Species 2017-27 and the accompanying working document, the Oregon Statewide Action Plan for Invasive Species...

Related article:

[Oregon Releases Action Plan For Addressing Invasive Species; Cites Potential 'Widespread' Devastation \(4/6/2017\)](#)

[\[Hawaii\] Progress Statewide: 'Invasive Species Heroes' Honored \(3/29/2017\)](#)

What does it take to fight invasive species? Often it means an army of ordinary citizens, working hand in hand with government, attacking one bug, one weed at a time. That was the message from a recent ceremony at the state Capitol honoring statewide Invasive Species Heroes who have fought to control alien pests on their islands...

[2017 California Invasive Species Youth Art Contest Kicks Off with "Don't Let it Loose" Theme](#)

Young artists and future biologists are invited to enter this year's California Invasive Species Art Contest, sponsored by the California Department of Fish and Wildlife (CDFW). This year's theme is "Don't Let it Loose!" **Submissions must be received by May 5th...**

WEEDS

[\[Minnesota\] Lake Koronis is test lab in fight against invasive species \(4/20/2017\)](#)

Beneath the calm surface of Lake Koronis, a war is being waged against an invasive algae threatening the health of this popular recreation spot. Starry stonewort first showed up in Minnesota in 2015 in Lake Koronis near Paynesville. Since then, experts have been trying to figure out how to get rid of the pesky species. But the grasslike algae has now spread to eight other Minnesota lakes, where it can form dense mats that make boating, fishing and swimming difficult. Because it's a relatively new invader, not a lot is known about its impact, said Dan Larkin, an extension specialist at the University of Minnesota's Aquatic Invasive Species Research Center...

[\[Connecticut\] Residents oppose chemical treatment for invasive species at Candlewood Lake \(4/2/2017\)](#)

Of the some 120 attendees at Candlewood Lake Authority's fourth annual "State of Our Lake" event, no one spoke in favor of New Fairfield's proposal to use chemicals to eliminate Eurasian watermilfoil and blue-green algae that have plagued the lake for years... Instead of using chemicals, authority members said, they support the ongoing program that puts sterile grass carp into the lake to eat the milfoil.

[Texas taking action against invasive species \(4/26/27\)](#)

...Giant Salvinia grows at incredible rates and can literally choke out entire water bodies if left alone. Lake Bistineau near Bossier City has had a problem after problem with the plant, and even a massive drawdown did not help...

TRAININGS/WEBINARS/CONFERENCES

[\[Webinar\] Methods and Protocols for Decontaminating Field Gear and Equipment](#)

May 11, 4:00 - 5:00 p.m. Eastern

Please join us for a webinar hosted by the Invasive Mussel Collaborative to discuss decontamination for zebra and quagga mussels (*Dreissena polymorpha* and *D. rostriformis bugensis*, respectively) in field work. This webinar will highlight available methods and associated challenges, opportunities to address gaps in knowledge, and case studies in developing and implementing decontamination protocols and procedures for management agencies. [Register here](#)

[Stop Aquatic Hitchhikers Email News Service](#)

The Stop Aquatic Hitchhiker Email News Service provides recent news and updates about the Stop Aquatic Hitchhikers campaign, the growing invasive species issue and the campaign partners. For questions or to be added to the news service email [Joe Starinchak](#).

JOBS/GRANTS

[British Columbia] Multiple Invasive Species positions with [ISCBC](#). The ISCBC is working in partnership with provincial government and community partners in the BC interior to provide awareness and educational outreach of invasive species, with a special focus on invasive aquatic species:

[Student Position: Invasive Species IT and Outreach Employee - Victoria](#)

[Student Position: Invasive Species Outreach and IT Employee - Williams Lake](#)

[Invasive Species Team Crew Member Position - JCP Skills Development Project](#)

[Invasive Species Supervisors](#)

[Training and Extension Specialist \(Peace Region\)](#)

[Audubon's Starr Ranch Sanctuary in Trabuco Canyon, CA -- Riparian Invasive Species Control & Restoration Assistantship](#)

Description: Audubon's Starr Ranch Sanctuary in Trabuco Canyon, CA solicits applicants for positions (2) as riparian invasive species control and restoration assistants.

Our approach is research-based and non-chemical. Assistants will do physical control of exotics in two riparian corridors on Starr Ranch. Will recruit and publicize, train, and supervise “Weed Warrior” volunteers who help with control of exotics. Will re-sample long term passive riparian restoration plots. Will initiate or continue, under guidance of the Research and Education Director, experiments or trials to test methods for enhancing native stream vegetation. Will write protocols for major projects and final reports. Must be willing to be involved occasionally with our innovative education program, “Starr Ranch Field Ecology Programs” (see www.starr-ranch.org). Must have enthusiasm for working outdoors and physical work. Opportunity to live on our 4000- acre preserve. Positions (2) are for October – May. **Qualifications:** College graduate with degree in a biology, ecology, or related discipline who seeks field experience in invasive species control, quantitative monitoring and, native vegetation enhancement. Experience in plant sampling in the field highly desirable. **To Apply:** Application is through a confidential Audubon career center. For information contact: sdesimone@audubon.org.

[\[Idaho\] Two exciting job opportunities with The Freshwater Trust](#)

Riparian Project Manager - Permanent/ Full-time. Boise and surrounding area. Riparian Project Manager will: 1) lead on irrigation and weed management at the Bayha Island Research Project (May - October); and 2) support the design, implementation, and monitoring of riparian restoration projects in the middle Snake, Weiser basins and elsewhere in Southern Idaho/Eastern Oregon as needed. **Closes May 1st**

Vegetation Maintenance Technician - Temporary. Bayha Island. Technician will support irrigation and weed management from May - October 31, 2017. All work will be field based. **Closes May 1st**

University of Washington Student internship, Independent Study or Senior Capstone Credit opportunity

Early Detection Rapid Response (EDRR) Survey Scientist for PNW IPC EDRR Coordinator and PNW IPC Coordinator. Contact Dr. Tom Hinckley (hinckley@uw.edu) or Dr. Lizbeth Seebacher (lizabetha@uw.edu) to discuss this opportunity as an internship, independent study or capstone credit. The forms for each are found here <http://sefs.washington.edu/academicPrograms/undergrad/index.shtml#forms>

[2017 Grant Notice of Funding Opportunity: Quagga/Zebra Mussel Action Plan for Western U.S. Waters \(QZAP\) F17AS00160](#)

Closing Date: May 12, 2017

Estimated Total Program Funding: \$940,000
Award Ceiling: \$600,000
Award Floor: \$1,000

This Request for Proposals (RFP) will fund proposals in four principal areas towards the fulfillment of the top priorities in the Quagga/Zebra Mussel Action Plan for Western U.S. Waters (QZAP):

1. Limiting the spread of invasive mussels through containment, especially by inspection and decontamination of watercraft moving from invaded water bodies to jurisdictions currently free of dreissenid mussels, and the coordination between states or other jurisdictions to this end;
2. Limiting the spread of invasive mussels through containment by increasing compliance with state and tribal laws;
3. Increasing the effectiveness of outreach and education efforts to help advance prevention efforts;
4. Conducting Research consistent with the highest priorities of the 2015 Dreissenid Mussel Research Priorities Workshop which also benefit the priorities 1-3 listed above and the QZAP. Information regarding the 2015 Dreissenid Mussel Research Priorities Workshop can be found online at http://pdxscholar.library.pdx.edu/centerforlakes_pub/49/

[The Montana Department of Natural Resources and Conservation \(DNRC\) offers state-funded grants for the prevention and control of aquatic invasive species \(AIS\).](#)

The proposed project must be critical and urgent and contribute to the protection of Montana's environment from severe and unacceptable damage to natural resources from aquatic invasive species. Public benefit from implementation of the project must directly relate to the prevention and/or control of aquatic invasive species. Preference will be given to priority waters, as well as to on-the-ground projects such as surveys and removal that result in measurable control of aquatic invasive species. DRNC is now accepting applications, which are **due June 1, 2017**.

COURTS

[Lacey Act Ruling in US Court of Appeals, DC](#)

[From AFWA] The US Court of Appeals decision came today in the US Association of Reptile Keepers v. [Ryan Zinke as] Secretary of Interior, confirming that The Lacey Act Title 18 (injurious wildlife) only governs importation into the US, and movements between the continental US, as a whole unit, and other, non-continental US holdings (Hawaii, Guam, Virgin Islands, etc.). The District of Columbia is considered a separate entity, so movement prohibitions would also apply between DC and the continental US (as a unit), or DC and the non-contiguous states and territories.

[Decision here:](#) with final statement: "... we affirm the district court's judgment and hold as a matter of law that the government lacks authority under the shipment clause to prohibit shipments of injurious species between the continental States. So ordered"

Unless the Administration takes the matter to the Supreme Court, this decision will apply to any future (and past) listings of injurious wildlife under 18 U.S.C. 42. This includes interstate movement of both salamanders in last year's Bsal rulemaking, and previously listed constrictor snakes. We expect there will be clarifications issued soon via the USFWS regarding changes to permit requirements, but we understand this to mean that permits will no longer be required for movements of injurious wildlife between any states in the continental US.

The court opinion includes discussion on species listed as injurious by Congressional action (such as Asian carp and zebra mussels): even when Congressional intent demonstrated desire to prohibit interstate movement, that did not change the interpretation of the Act or the authority of DoI/USFWS to prohibit intracontinental, interstate movements.

Related Articles:

[\[Live fish transport\] Ruling welcomed by US aquaculture industry \(4/11/2017\)](#)
[Landmark case paves way for animals like pythons to be traded in US \(4/12/2017\)](#)
[Court sides with reptile keepers against giant snake ban \(4/17/2017\)](#)

FEDERAL/STATE/PROVINCIAL/ LEGISLATION, RULES, ACTIONS

STATE

[\[Washington\] Final review draft for the Washington State Ballast Water 6-year Strategic Management Plan \(4/7/2017\)](#)

This starts a 30 day review period - **all comments due by May 8th**. Comments and questions should be sent to both Zenzile Moore at Glosten (zzmoore@glosten.com) and Amanda Newsom at WDFW (amanda.newsom@dfw.wa.gov).

[\[Washington\] WDFW Fishing Rule Change \(April 18, 2017\)](#) Action: Remove daily catch limit for brook trout, brown trout, rainbow trout and burbot in Mill Pond during the 2017 fishing season. This will allow enhanced harvest opportunity for anglers prior to the removal of the Mill Pond Dam. Effective Dates: April 22, through July 16, 2017.

[\[Idaho\] Thursday vetoes: Invasive species position, cosmetology, asset forfeiture \(4/6/2017\)](#)

...In his veto letter, Otter said he's also concerned about protecting Idaho waters from invasive species, but said the new administrative position "does little to improve our defenses and preparedness for the potentially devastating impact of a mussel infestation."...

Related Articles:

[Otter vetoes two uncontroversial bills \(4/7/201\)](#)

[\[Montana\] Mike Cuffe lawmaker reflects on final term in Legislature \(4/24/17\)](#)

HELENA — Chatting in the first-floor lobby of the Montana State Capitol earlier this week, Mike Cuffe was interrupted every 30 seconds or so by a bipartisan procession of lawmakers, slapping him on the back or shaking his hand and offering congratulations. The Republican from Eureka, serving his fourth and final term in the state House of Representatives, had just introduced and secured passage of the last bill of his career in the lower chamber. The measure will provide funding critical to combating a statewide crisis that emerged last year, when a destructive species of invasive mussel was detected in Tiber Reservoir — the first-ever positive hit in Montana’s waters. “In hindsight, I wish I had had the drive to punch the program we’re doing now through two years ago, but I don’t think anybody could have pushed it through,” Cuffe said in the interview last week. “Mussels are the game-changer. When you get them in your water, you don’t get rid of them.”...

[\[Montana\] Bill to fight invasive mussels in Montana heads to Bullock’s desk \(4/25/17\)](#)

HELENA — The bill to fund the state’s battle against invasive species is on its way to the governor’s desk. [Senate Bill 363](#), sponsored by Sen. Chas Vincent, R-Libby, cleared a final vote in both the House and the Senate on Tuesday. The bill raises about \$6.9 million a year through an extra fishing license fee for anglers and a tax on the power produced through hydroelectric generation. The money will fund the state’s program to fight off invasive mussels, which were discovered in Montana for the first time last year...

[\[Montana\] Flathead Basin Commission Seeks Authority to Run Local Boat Inspections \(4/6/2017\)](#)

Hoping to bolster the defense against aquatic invasive mussels, the Flathead Basin Commission is seeking immediate authority from state lawmakers to oversee a local inspection program... [HB 622](#), a bill introduced by four Flathead legislators: Republicans Mike Cuffe of Eureka; Bob Keenan of Bigfork; Mark Noland of Bigfork; and Al Olszewski of Kalispell... would implement a broad set of actions aimed at addressing the threat of aquatic invasive species spreading through the state.

Related articles:

[Bills to fight invasive mussels get preliminary OK \(4/11/2017\)](#)

[\[Colorado\] Seaplanes in Colorado? State Senate shoots down bill that would have allowed them \(4/6/2017\)](#)

...Legislators heeded concerns about the aircraft bringing invasive species — specifically the zebra and quagga mussels, which have ravaged the nation’s lakes — and making Colorado’s already overcrowded lakes and reservoirs unsafe. [Full Text of SB17-235](#)

[\[California\] An act to amend Section 2301 of the Fish and Game Code, and to amend Section 676 of the Harbors and Navigation Code, relating to invasive species](#)

...This bill would instead require, rather than authorize, the Director of Fish and Wildlife to order the closure of waters or facilities to conveyances for a period of no less than 7 working days if dreissenid mussels are detected or may be present and would make other related changes... Full Text of : [AB-1587](#) Invasive species: dreissenid mussels.

[\[Florida\] Florida bills propose teams of lionfish hunters \(4/19/2017\)](#)

It's been said lionfish will never be eradicated from Florida waters, but state lawmakers say there needs to be an attempt. That's the idea behind matching state House and Senate bills gaining steam in Tallahassee. [SB 230](#) and [HB 587](#) propose \$600,000 over two years for the state Department of Environmental Protection to establish a pilot program to try to minimize their threat to the environment. It would "examine the benefits of using strategically deployed, trained private contractors to slow the advance of nonnative animals" including lionfish and tegu lizards.

Related Article: [Robot squares up against lionfish in battle to save marine ecology \(4/22/17\)](#)

CONGRESS

[House passes stopgap bill to avoid government shutdown \(4/28/17\)](#)

The House overwhelmingly passed a bill to fund the government for one week Friday, putting Congress on path to avert a government shutdown at midnight. The stopgap spending measure now heads to the Senate, where it is expected to be easily approved. Lawmakers plan to pass a broader spending package next week to fund the government through September...

[S.826 - WILD Act \(4/4/17\)](#)

Introduced by [Sen. Barrasso, John \[R-WY\]](#) (04/04/2017) – "Today, U.S. Senator John Barrasso (R-WY), chairman of the Senate Committee on Environment and Public Works (EPW), joined with committee ranking member Sen. Tom Carper (D-DE) and Sens. Jim Inhofe (R-OK), Cory Booker (D-NJ), John Boozman (R-AR), and Sheldon Whitehouse (D-RI) to introduce S. 826, the Wildlife Innovation and Longevity Driver (WILD) Act. The WILD Act will promote wildlife conservation, assist in the management of invasive species, and help protect endangered species. The bipartisan legislation will reauthorize government conservation programs. It will also establish prize competitions to prevent

illegal poaching and trafficking, manage invasive species, promote conservation, and protect endangered wildlife... [Full Text of S. 826 here.](#)

Related Articles:

[Bipartisan Group of Senators Introduce Wildlife Conservation Legislation \(4/4/2017\)](#)

[Congress considers bill to reward private industry for solutions to vexing wildlife problems \(4/23/2017\)](#)

[S.789 - Public Water Supply Invasive Species Compliance Act of 2017 \(03/31/2017\)](#)

U.S. Sen. Cruz (R-Texas) ... introduced a bill to provide certainty to water agencies who supply water to Texans and to protect the water supply future of Texas. The legislation ensures that interstate water transfers between Texas, Louisiana and Arkansas will not be interrupted as a result of the Lacey Act, which affects trade in wildlife, fish, or plants across state lines. [Full Text of S. 789 Here](#)

Related:

[Rep. Louie Gohmert \(R-Texas\)](#) has filed companion legislation in the U.S. House of Representatives. [Full Text of H.R.1807 - Public Water Supply Invasive Species Compliance Act of 2017 here.](#)

[Ted Cruz Files Bill To Bring More Water, And More Invasive Species, Into Texas \(4/11/2017\)](#)

[Ted Cruz's Water Security Bill Could Invite Invasive Species \(4/17/2017\)](#)

[West Coast senators lead bipartisan bid to save Sea Grant program \(4/11/2017\)](#)

A key senior Republican senator has joined Democrats in seeking to save the National Sea Grant Program, used as a tool by the University of Washington and schools in 31 states to keep oceans healthy and fisheries sustainable... Sen. Maria Cantwell, D-Wash., has joined Murkowski and Merkley in a bipartisan resolution [[S.Res.124](#)] backing the embattled program

MEETINGS

MAY

CANCELLED!!!!: [Aquatic Nuisance Species \(ANS\) Task Force Meeting, Lake Tahoe, CA, May 2-4, 2017](#) Due to unforeseen circumstances the May 2017 ANSTF meeting has been cancelled. We apologize for any inconvenience.

[Stop the Invasion: Weed Management 101 by Columbia Gorge CWMA May 6, 2017 8:30 -12:00](#)

This free class is a great opportunity for you, your staff, or someone in your organization or neighborhood to learn more about weed identification, prevention, management, and reporting. A complete agenda can be found on the registration page. We have applied for 3 herbicide

applicator CEUs from both Oregon and Washington. Cascade Locks, OR. Preregistration required.

[Backpack Electrofishing: Principles and Practices](#) May 9-11, 2017 Redding, CA

This course combines classroom lecture with field demonstration/participation exercises to give attendees the knowledge and basic experience they will need to safely and effectively electrofish. It includes two days of classroom lecture with a field day in the middle during which the concepts discussed in class will be demonstrated and practiced by attendees. The class will visit a stream/river/creek and each attendee will operate the equipment under the guidance of the instructor.

IAGLR's [60th Annual Conference on Great Lakes Research](#), May 15-19, 2017, Detroit, MI

The theme for the conference is *From Cities to Farms: Shaping Great Lakes Ecosystems*. Sessions include -- Physiology and ecology of dreissenid mussels: adaptation, impacts, and control. Session: [Invasive Dreissenid Mussels: Ecology, Impacts, and Management](#)

[Free Aquatic Invasive Species Workshop May 18th, Benicia CA](#)

The California State Parks' Division of Boating and Waterways, California Coastal Commission's Boating Clean & Green Program, California Department of Fish and Wildlife, and the U.S. Fish and Wildlife Service invite you to participate in our FREE Aquatic Invasive Species (AIS) Prevention Workshops.

[Scotch Broom Ecology and Management Symposium](#)

May 23, 2017 Snoqualmie, Washington

Registration: Free but [pre-registration required](#), maximum capacity is 300 people.

Continuing Education Credits: six recertification credits from Washington State and Oregon State Pesticide Applicator Recertification Credits have been requested

JUNE

[2017 Citizen Science Early Detection, Reporting And Identification of Invasive Plants Trainings](#)
[6 training in June in Washington and Oregon](#). The Pacific Northwest Invasive Plant Council

(PNW IPC) mission is to train citizens to identify a suite of invasive plants in a 2.5 hour free training where you will learn how to identify priority invasive species, how to record basic data and how to report findings on EDDMapSWest, a national early detection reporting system. Participants may receive WDSA or ODA pesticide license recertification credits (2 credits).

[Invasive Species Research Conference](#): Calling all invasive species researchers and practitioners!

Thompson Rivers University and the **Invasive Species Council of BC** are excited to co-host the 2017 Invasive Species Research Conference - Turning Science into Action, being held in beautiful Kamloops, June 20 - 22, 2017

[Washington Invasive Species Council](#): Jun. 8, 9:00 a.m. to 3:00 p.m. Arlington, Stillaguamish Tribe Natural Resources Department Meeting Room.

[100th Meridian Initiative - Columbia River Basin Team](#) Next Meeting – June 27 – 28, Helena, MT The next meeting of the 100th Meridian Initiative Columbia River Basin Team is scheduled for Tuesday and Wednesday June 27 - 28 at Montana WILD, 2668 Broadwater Avenue, Helena, MT 59601, Helena Residence Inn: 406-443-8010. PLEASE REGISTER: If you plan on attending the meeting, please email Susan Anderson at (sanderson@psmfc.org) or call her at ([503](tel:5035953100)) 595-3100.

[Oregon Invasive Species Council Meeting – Hermiston, OR June 20-21](#)

There is a block of rooms under "Oregon Invasive Species Council" held until Friday May 19th at the Oxford Suites in Hermiston. RSVP Here: <https://goo.gl/forms/2V9Of06kBKumG8Vg1>

JULY

[Next ISAC Meeting, July 18–20, 2017 \(Washington, DC\).](#)

[July 23-27: 2017 PNWER Annual Summit, Portland, Oregon:](#) Invasive Species Working Group Meeting will be held 7/26.

AUGUST

[6th annual Invasive Species Cook-off](#) The Invasive Species Cook-Off will be held Saturday, August 19th from 4:30-8:30pm in Corvallis, OR. This annual party and fundraiser has live music, local libations, Getaway Raffle packages, kids' activities and more. It's a contest where you can use invasive species as an ingredient in a dish to share!

SEPTEMBER

[Western Regional Panel on Aquatic Nuisance Species:](#) September 12-15, 2017 – San Diego, CA Abstract submission underway. [submit online](#). Deadline for abstract submission is April 29.

[“What is the State of our Pacific Northwest Unionids?”](#) at the Columbia Gorge Discovery Center, The Dalles, OR, September 19th-20th, 2017. Hosted by EcoAnalysts, Inc., this two-day event is focused on the biology, ecology, cultural significance, and conservation of freshwater mussels in the Pacific Northwest. The workshop will include lectures on freshwater mussels, presentations of local mussel work, and a panel discussion chaired by local experts to answer questions and lead discussion. The workshop will also include a special seminar on mussel survey methods taught by Heidi Dunn of Ecological Specialists, Inc., including a day-long field demonstration of mussel habitats and survey methods. [Register here](#)

[Oregon Invasive Species Council Meeting – Clackamas ODFW Field Office, OR September 20](#)

OCTOBER

REGISTRATON OPEN: [International Conference on Aquatic Invasive Species \(ICAIS\) - October 22-26, 2017 – Fort Lauderdale, Florida](#)

DECEMBER

[Oregon Invasive Species Council Meeting – Salem, OR December 6th](#)

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