PUBLIC COMMENT

The Northwest Power and Conservation Council (Council) is extending the deadline to submit recommendations to amend the Council's Columbia River Basin Fish and Wildlife program to December 13, 2018 (5 p.m. Pacific time). The Council voted on August 15, 2018, to extend the original deadline for 90 days following requests for additional time. Please submit your recommendations online at www.nwcouncil.org/amend, including use of the online form. You will receive a confirmation email after you submit your completed recommendation. All recommendations will be made available for public review and comment. News and updates regarding the amendment process are posted on the Council's webpage available at www.nwcouncil.org/amend.

BOAT INSPECTION SURVEY

Kelly Stockton-Fiti is looking for people involved in boat inspections to take this survey, but all are invited to take it. This is a survey for people involved in boat inspections and how winterized boats are treated across the West. Studies were completed in 2017 on the effect of antifreeze on Dreissenid mussels, but this is to get some background on how Western states have managed winterized boats. The survey should take only a few minutes to complete. The results will be presented at the October 2018 WRP meeting in Tacoma by Kelly Stockton-Fiti.
NEW SPECIES SIGHTINGS

DREISSENIDS

[Arkansas] Zebra Mussels found in Bull Shoals Tailwater (9/5/18)
Biologists with the Arkansas Game and Fish Commission’s Fisheries Division confirmed the presence of zebra mussels in the portion of the White River just downstream of Bull Shoals Dam last week… “The species has been present in the lake since at least 2008, so their spread to the river is not a complete surprise,” said AGFC Trout Management Supervisor Christy Graham. “The number of zebra mussels appears highest directly below the dam, but we have already found them up to 8 miles below the dam.”

[Oklahoma] Invasive Zebra Mussels Spread to Foss Reservoir (9/13/18)
Foss Reservoir, a U.S. Bureau of Reclamation lake in Custer County, is now among the 20-plus lakes in Oklahoma where invasive zebra mussels have been confirmed. This non-native aquatic nuisance species has continued to spread throughout Oklahoma waters since first found in the McClellan-Kerr Arkansas River Navigation System in 1992. [USGS NAS Report] Related: Zebra mussels confirmed in more than 20 Oklahoma lakes, including Claremore (9/14/18)

[Minnesota] DNR confirms zebra mussels in lakes downstream of West Battle Lake (9/20/18)
The DNR discovered several zebra mussels in Molly Stark Lake and Annie Battle Lake during a search. Because of a defined stream connection, Lake Blanche, an unnamed lake between Annie Battle and Blanche, and the streams connecting those lakes will also be listed as infested. Annie Battle Lake is a “heritage lake,” where motors and electronics are not allowed and limits are reduced on most fish. Zebra mussels confirmed in Barrett Lake in Grant County Zebra mussels confirmed in Blandin Reservoir near Grand Rapids Zebra mussels confirmed in Sauk Lake in Todd County Zebra mussels confirmed in Big Pine Lake in Aitkin County

OTHER AIS

[Alaska] Non-Native Bass Caught in Anchorage Lake (9/5/18)
The Alaska Department of Fish and Game (ADF&G), Division of Sport Fish announced today that a local angler caught a juvenile bass on Sand Lake in Anchorage on Monday evening. Bass are not native to Alaska, and it is illegal to transport live fish anywhere in the state. It is not known if this is an isolated incident, or if there are more bass in the lake. Biologists are quickly mobilizing to determine if other bass can be found by using
gill nets and rod and reel methods. Early detection of potential non-native species is key if eradication efforts may be necessary.

*Carassius auratus* (Goldfish) was found in Charleswood Pond, in Fargo, ND. [USGS NAS Report]

*Radix auricularia* (European ear snail) was found in a pond on private property west of Lyle, WA. NAS ARM map was not generated because the introduction resides on private property. [USGS NAS Report]

*Daphnia lumholtzi* (a waterflea) was found in Lake Thunderbird, OK. [USGS NAS Report]

*Craspedacusta sowerbyi* (freshwater jellyfish) was found in a pond by the Kings River, Tulare, CA [USGS NAS Report]

*Micropterus salmoides* (Largemouth Bass) was found in Sand Lake, Anchorage, AK. [USGS NAS Report]

### DREISSENID MUSSELS

**Montana agencies practice aquatic invasive species rapid response plan (9/13/18)**

Agencies across Montana worked all summer to prevent mussels from entering bodies of water, and so far no mussels have been detected in Flathead Lake. On Thursday agencies practiced their emergency response plans for what would happen if aquatic invasive species did get into Montana’s water bodies. Related: Local Agencies Prepare For Rapid Response Plan To Invasive Mussels (9/14/18) Preparing for the Worst (9/20/18)

[Wisconsin] Researchers: Invasive Mussels Not Widespread In Apostle Islands of Lake Superior (9/5/18)

… "What we were surprised about is that they weren’t supposed to be doing very well here, but it turns out that conditions seem to be fine for cultivating pretty large organisms. They seem pretty healthy, but they’re not very dense," said Lafrancois. "We have a really great opportunity to actually mitigate the population and try to monitor and remove by hand a lot of them that we’re finding near the islands."…

**U of M studies bacteria to kill zebra mussels (9/24/18)**

More than two years ago, the Aquatic Research Lab opened at the University of Minnesota. Some of the research happening there is about combating zebra mussels using a specific pathogen or type of bacteria. "Initial findings give us insights to the microbes that are enriched in zebra mussels compared to the environment," said Prince Mathai,
research associate at the U of M. "Some of them are also known pathogens. So we are focusing our efforts to isolate those pathogens."

DTE Energy diving team studying mussels in Lake Erie (9/18/18)
Biologists at DTE Energy are scuba diving off the shore of its Monroe Power and Fermi 2 nuclear plants this fall to gather research on fresh-water mussels native to the Great Lakes. So far, results from the sampling bodes well for improved quality of the lakes, said Matt Shackelford, one of the biologists who is diving. There is a unique miniecosystem of native mussels living about a quarter-mile to a mile offshore of the plant in Lake Erie. The native mussels are thriving where there is a slightly warmer discharge coming from the plant that keeps the invasive zebra mussels away. “We know that zebra mussels don’t like the warm water,” said Shackelford, a freshwater biologist and principal engineer on the team. “The native mussels, on the other hand, can withstand the warm water from the thermal discharge and are thriving without the zebra mussels attaching to them.”

[Texas] Zebra Mussels Have Been Found In Austin Water Intake Pipes (9/17/18)
Mehrdad Morabbi, an operations manager for Austin Water, says one of the screens protecting the intake pipe for the Handcox Water Treatment Plant in Lake Travis was 50 percent covered with mussels, another was around 30 percent covered. For reference, these screens are 24-feet-tall and 30 feet in diameter. Divers removed the mussels from the screens with a pressure washer.

[Texas] Invasive Zebra mussels spreading in Lady Bird Lake (9/7/18)
While TWPD has located zebra mussels in Lady Bird Lake before, the lake hasn't received an "infested" designation yet. CRA believes that could change if these mussels continue to spread, so they are making a plea to the public to prevent them from winding up in other bodies of water.

[Texas] Invasive zebra mussels infest Lewisville, Flower Mound area lakes (9/6/18)
[Grapevine Lake] is soon expected to be classified as infested—or having an established, reproducing zebra mussel population—according to TPWD District Fisheries Biologist Raphael Brock. Neighboring Lake Lewisville is already classified as an infested lake. “We are just waiting on a few more sightings of zebra mussels before we classify it as infested,” Brock said. “It’s a high likelihood it will be considered infested in six months or so due to the zebra mussels reproduction.”

[Michigan] Fish survey shows Saginaw Bay is far different than 50 years ago (9/20/18)
In the early and mid-1990s, the arrival of invasive species, the zebra mussel in particular, helped to change the ecosystem in the bay again. "Zebra mussels became abundant around 1993 and 1994," Fielder said, adding that it wasn't just the Saginaw Bay but much of Lake Huron that was affected. It created a pronounced shift in the food chain that almost drove alewives to extinction.

A War in the Waters of Lake Michigan -Researchers Investigating Nuisance Algae Find Reason for Hope (9/22/18)
Harvey Bootsma, an associate professor at the University of Wisconsin-Milwaukee’s School of Freshwater Sciences, led a team that scraped quagga mussels from rocks in a 40-square-meter area in the summer of 2016...Two years later, not only have the mussels not returned, but the Cladophora algae is also missing in action, replaced with a diatom algae that better fits into the food chain and is not considered a nuisance.


BOAT INSPECTION/DECON/TECH NEWS

Bureau of Reclamation awards $185,000 grant to Colorado Parks & Wildlife for enhancement of aquatic species data sharing system (9/26/18)

WASHINGTON – Bureau of Reclamation Commissioner Brenda Burman announced the award of a $185,000 grant to the Colorado Parks and Wildlife for enhancement and further roll-out of a watercraft inspection and decontamination database. Federal and state inspectors use the database to track watercraft decontamination activities occurring at lakes, reservoirs and related waterways. These watercraft inspection and decontamination activities are being conducted to help prevent the spread of quagga and zebra mussels and other aquatic invasive species....

[Montana] Report: Vessel with standing water clears Tiber inspection station (9/24/18)

A former Flathead Basin Commission leader said she's conducted a sting operation that shows gaps in the inspection protocols at Montana’s only mussel-positive water body…

[Idaho] 102K inspections and 46 fouled boats, Idaho watercraft sites sees increase (9/12/18)

As boating season starts to wind down, the Idaho State Department of Agriculture reported about 46 fouled boats were found and more than 102,000 inspections were completed across the state.

[Wyoming] Aquatic Invasive Species Watercraft Check Stations Begin Closing This Weekend (9/6/18)

The 2018 boating season is winding down and Wyoming Game and Fish Department Aquatic Invasive Species (AIS) check stations throughout the state are set to close… The Evanston Port of Entry will be open when an inspector is available through the end of November. Call ahead to make sure an inspector is available and/or to schedule an appointment.

20 mussel-fouled watercraft prevented from entering B.C. this summer (9/13/18)

Since inspection stations opened in the province on April 1, 20 mussel-fouled watercraft were intercepted entering B.C., according to the September report from the Okanagan Basin Water Board. The majority of these vehicles were travelling from Ontario, with
eight travelling from the U.S. B.C.’s inspection team received advanced warning about 15 of the 20 watercraft from other state or provincial inspection teams.

Lake Powell mussels multiplying, menacing Colorado lakes, reservoirs (9/13/18)
Colorado Parks and Wildlife says boats that recently have been on Lake Powell are posing a serious threat of infesting Colorado lakes and reservoirs with quagga and zebra mussels. CPW and other inspectors so far this summer have found a record 43 boats containing mussels, compared to the previous record of just 26 boats. Thirty-two of this year's cases involve boats that came from Lake Powell.
Related: [Colorado] Wildlife Experts: Record Number Of Invasive Mussels Found On Boats (9/17/18)

Hydro Review: Experiences with Using HOD UV Technology to Control Mussel Fouling (9/10/18)
… The HOD UV technology was installed at Davis Dam in 2013, Parker Dam in 2015 and Hoover Dam in 2018 to effectively and economically minimize the risk of quagga mussel fouling by preventing invasion and infestation…. Overall, the HOD UV technology has performed well since implementation, achieving a 99% inhibition of quagga mussel veligers settling downstream of the system and addressing biofouling concerns at Parker Dam and other Reclamation facilities.

MARINE

[Washington] European Green Crab found at Kala Point Lagoon (9/19/18)
Volunteers from the Washington Sea Grant Crab Team monitoring program discovered an invasive European Green Crab at Kala Point Lagoon on Sept. 8. This was the first European Green Crab found at Kala Point after four years of monitoring the site.

Canadian crabs with bad attitude threaten coastal ecosystem (9/19/18)
Green crabs from Nova Scotia are the same species as their cousins that already inhabit Maine waters, but are ornerier and angrier, threatening to accelerate harm to the coastal ecosystem by gobbling up soft-shell clams and destroying native eel grass, a researcher said.
Related: Invasive Species Expert: Green Crab Threat in Maine May Be Greater Than Feared (9/20/18)

Filmmaker documents ravages of green crabs [on East Coast] (9/11/18)
… The nationally honored filmmaker and photographer, with a catalog of cinema and books to his credit, set out to chronicle the extent of the green crabs' largely unabated invasion into the coastal waters near his home and beyond. And what Alexanian found astounded him….

Manomet has been awarded a grant of $267,440 by the NOAA Saltonstall-Kennedy Grant Program to expand work to develop a lucrative green crab fishery in New England

Return to top
and provide a new source of economic opportunity for fishers and coastal communities. The grant will be used to implement long-term green crab population monitoring, explore new pathways to developing the soft-shell green crab fishery, increase marketing and outreach efforts, and begin to determine the economic viability of a soft-shell fishery.


 BALLAST WATER/BIOFOULING

Ballast water management was 'a complete pig’s breakfast' (9/19/18)

Singapore shipping titan Andreas Sohmen-Pao has described the regulations surrounding ballast water management as a “complete pig’s breakfast”. “It is an example of bad legislation…

USCG is eliminating the requirement vessels that operate exclusively within a single COTP

[Federal Register] The Coast Guard is eliminating the requirement vessels that operate on voyages exclusively within a single Captain of the Port Zone to submit an Annual Ballast Water Summary Report for calendar year 2018. We view this current reporting requirement as unnecessary for us to analyze and understand ballast water management practices. This final rule will reduce the administrative burden on this regulated population of U.S. non-recreational vessels equipped with ballast tanks. DATES: This final rule is effective October 1, 2018.

Operational problems continue with Ballast Water Treatment Systems: ABS (9/5/18)

Early adopters of ballast water treatment systems continue to experience operational problems, delegates heard at the gmec (global marine environmental congress) organised by SMM in co-operation with Seatrade in Hamburg this week.
Marine Safety Center receives 17th application for BWMS type approval (9/5/18)

The Coast Guard Marine Safety Center received its 17th application for type approval for the NK-O3 BlueBallast II Ballast Water Management System manufactured by NKBMS Co. Ltd.

FISH


A potential recommendation by the state’s orca task force would reclassify popular sport fish like bass and walleye as ‘invasive’ in certain waterways, eliminating catch limits and impacting sport fishermen.

[Alaska] Fish and Game officials continue searching for bass in Sand Lake (9/9/18)

After almost a week since a man reported catching a juvenile bass from Sand Lake, a crew from the Alaska Department of Fish and Game continues to look for the invasive fish. Kristine Dunker, a research biologist with Fish and Game, has spent the last few evenings setting gill nets, minnow traps and hook and line fishing alongside Parker Bradley, an invasive species specialist with ADF&G, based out of Palmer. As of Sunday evening, no more bass have been found in Sand Lake.

Alberta Parks Battling Goldfish and Other Invasive Species (9/13/18)

According to Nicole Kimmel, Aquatic Invasive Species Specialist for Alberta Environment and Parks the problem of invasive species has always been an issue but now the limelight is shown on aquatic invasive species.

Invasive Blue Catfish to be Served up at Md. State Institutions (9/20/18)

As the invasive population of blue catfish threaten to throw off the ecological balance in the Chesapeake Bay, the state of Maryland has come up with a way to get more of the catfish out of the water and put them to good use. In a new food program, state institutions like prisons, hospitals, public schools, and universities will put Maryland-caught blue catfish on the menu.

School could see rebirth as Asian carp plant (9/17/18)

Chen, who recently explained to the Meredosia village board his intentions for the building, moved with his family to New York in 2005. He previously was involved in exporting diamonds but became interested in Asian carp after meeting the owners of an Asian carp facility in Kentucky. He initially opened an Asia carp facility in Beardstown, but that location proved unsuitable and recently was closed. Board members voiced their concern about potential odor at such a plant, though Chen said his processing method results in a limited smell.
[Minnesota] Thousands of Invasive Carp to Be Removed From Lake Minnetonka Headwaters (9/7/18)
The Minnehaha Creek Watershed District laid out the carp management plan after a three-year study from the University of Minnesota's Aquatic Invasive Species revealed an unprecedented number of invasive common carp in the Six Mile Creek system.

[Minnesota] Barriers to combat invasive carp near completion on southern Minnesota river (9/22/18)
The Minnesota Department of Natural Resources has started work on an electric barrier project to keep invasive carp from reaching the Le Sueur River. The structures near Eagle Lake and Janesville are scheduled to be completed within the next two months, the Mankato Free Press reported. Electric currents will run through concrete aprons and immobilize fish, allowing the water's current to push them back downstream.

Up to 50 million goldfish in Lake Ontario, hurting ecosystem (9/14/18)
An estimated 40 million to 50 million goldfish inhabit the waters of Lake Ontario, threatening native species. Millions of dollars, meanwhile, are being spent on trying to keep their cousins, the Asian carp, out of the Great Lakes. Scientists fear that the carp will outcompete native species for both food and space.

[Washington] Council Approves Funding For Northern Pike Suppression Efforts in Lake Roosevelt (9/14/18)
The up to $301,473 of funding comes from Fish and Wildlife Program cost savings and from the Budget Oversight Group money established each year by the Bonneville Power Administration. The funds will go to the Spokane Tribe of Indians and the Washington Department of Fish and Wildlife to purchase, among other items, additional gillnetting equipment to support pike suppression…

New fishing regulations proposed in Tennessee to combat Asian carp (9/10/18)
… "We're working with other states in the Mississippi basin on carp management plans," TWRA Chief of Fisheries Frank Fiss said. "We're looking at potential vectors for carp moving, and one of those that have been identified in our planning methods is this bait bucket introduction concern."…

[Florida] Bradenton diver documenting red tide effects on coastal waters (9/11/18)
Local diver says lionfish could become a post-red tide threat to local fish population.

[Alberta] St. Albert targets invasive goldfish population from local lake (9/5/18)
The City of St. Albert is working to eradicate an invasive species of fish that has taken over Lacombe Lake. Officials say the growing population of Asian Goldfish found in the lake poses a threat to other aquatic ecosystems inhabiting the Sturgeon River. The species identified are very prolific breeders which prove their ability to out-compete other fish…

Fish for Sport: Another Chapter of California Fish Introductions (9/24/18)
In a recent Fish Report, we briefly summarized the introductions of various fish species to California’s waterways for the primary purpose of providing food. Following these
initial efforts to increase the variety of California fishes that could be harvested for sustenance, historical resource managers soon shifted their focus to enhancing sportfishing by expanding the suite of species available for angling. A look at some past introductions – facilitated by a painstakingly thorough review of documents pertaining to California fish introductions (Dill and Cordone 1997) – reveals that much of today’s inland sport fishing opportunity is, for better or worse, the result of fish stocking conducted well over a century ago.

AQUACULTURE

Did the court just deal the death blow to offshore aquaculture in US waters? (9/26/18)

Public interest group the Center for Food Safety on Tuesday won its lawsuit challenging the US Department of Commerce’s (DOC) new federal rules that would have permitted, for the first time, offshore aquaculture in US federal waters.

The Future of Fish Farming May Be Indoors (9/17/18)
If it catches on, indoor aquaculture could play a critical role in meeting the needs of a swelling human population, Nordic CEO Erik Heim says. He believes it could do so without the pollution and other potential threats to wild fish that can accompany traditional aquaculture—although the indoor approach does face environmental challenges of its own. “There’s always some risk, but the risk of the land-based system is a small percentage of the risk of an outdoor system,” says Michael Timmons, an environmental engineer at Cornell University who has studied aquaculture for more than 20 years and is not involved in the Nordic project.

Offshore fish farms for nearly all US federal waters pushed by Trump Administration (9/18/18)
Offshore fish farms could soon join the roll out of oil and gas platforms being proposed by the Trump Administration for nearly all U.S. waters. The fish farms are being touted as a silver bullet to boost seafood production, provide jobs and reduce the nation’s $15 billion seafood trade deficit from importing over 80 percent of its seafood… Sam Rabung, director of Alaska’s aquaculture division, respectfully disagreed. “I think it’s safe to say that we’re going to fight pretty hard to maintain the state’s opt-out option and maintain the ability to prohibit finfish farming off of Alaska.”

Alaska wary of federal push for marine aquaculture (9/6/18)
The U.S. has a seafood trade deficit. The Trump administration’s answer is to promote aquaculture in federal waters. That’s alarmed some who see this as a threat to Alaska’s longstanding ban on fish farms.

B.C. municipalities call for end of open-net fish farms (9/12/18)
The Union of B.C. Municipalities put its weight behind environmental groups and coastal First Nations concerned about the effect of open-net fish farms on wild salmon
Wednesday, passing a resolution that urged the province to shift the industry to closed systems.
Related: Island Voices: UBCM stacks deck against salmon farming (9/9/18)
Salmon chief slams BC ‘municipal virtue signalling’ (9/14/18)

**Preventing Escape from Aquaculture Operations by Jeffrey E. Hill and Quenton M. Tuckett**

The issue of non-native species escape and more generally aquaculture species escape is important and the information and recommendations included in these publications can be used to reduce the probability of escape and thus reduce propagule pressure. Risk management BMPs for preventing escape from aquaculture operations. These BMPs follow a HACCP framework were were put together by Jeff Hill and Quenton Tuckett from the University of Florida's Tropical Aquaculture Laboratory.

**OTHER**

[Washington] Public Invited to Become a First Detector and Report Invasive Species (9/18)
To help combat the $1.3 billion threat invasive species pose to Washington’s economy every year, the Washington Invasive Species Council is inviting the public to the frontlines of its work by detecting invasive species and reporting them on its newly improved WA Invasives app.

How do you lure in sea lampreys? With the smell of baby sea lampreys, MSU research finds (9/18/18)
… But Michigan State University's Weiming Li and his colleagues have found what could be a new weapon in the arsenal: a chemical found in the lampreys' offspring. Li's lab recently identified a molecule released by lamprey larvae — a pheromone — that attracts male and female adults to suitable waterways for spawning…

[Hawaii] Public-private partnership to save the Ōhi'a tree, the cornerstone tree species of Hawai'i (9/5/18)
As a first step in this public-private partnership, Conservation X Labs is seeking applicants for the Ohia Challenge from September 5th, 2018 through February 1, 2019. Innovative thinkers who may have solutions to help save the ohia are encouraged to apply to the Challenge for a chance at winning up to $70,000. The Ohia Challenge seeks solutions and tools to identify infected trees early enough to minimize the spread, with the goal of saving Hawai’i’s iconic ohia tree.

[Michigan] Oakland County battling invasive crayfish. (9/5/18)
“A truck was trying to cross the Blue Water Bridge into Canada, but they turned back and the US Fish and Wildlife Service and DNR Conservation Officers met the truck and confiscated the 2,000 pounds of Red Swamp Crayfish. It was the largest aquatic invasive species bust in the state of Michigan.”

[Washington] Nutria brought here for fur but became prolific pests (9/14/18)
According to the Washington Department of Fish and Wildlife, the first nutria were brought to the region in the 1930s. Nutria were pitched to fur farmers as a new animal that would not only provide pelts, but also control weeds. A nutria’s appetite, approximately 25 percent of their body weight a day in plants, was presented not as a problem, but a benefit.

[Video] Preventing the spread of spiny waterflea (MAISRC)


WILD SPOTTER™ - A New National Effort to Increase Citizen Science Capacity to Map Invasive Species in America’s Wild Places. In partnership with Wildlife Forever, USDA Forest Service, and other organizations across the United States, the University of Georgia - Center for Invasive Species and Ecosystem Health has launched a nationwide citizen science volunteer capacity-building program called Wild Spotter.

WEEDS

[Montana] Invasive Plant Found In Holland Lake (9/6/18)
Fragrant water lily was found by Forest Service workers in a few shallow bays of the lake in the lower Swan Valley… “Last summer I observed one or two plants but wasn’t entirely sure which species this was. Now we have about 300 plants. This is a rapid invasion.” said Beth Gardner, fisheries biologist for the Flathead National Forest, Swan Lake Ranger District.

'Anti-Probiotics' Could Suppress Weeds and Invasive Plants (9/5/18)
…Even Japanese knotweed, dubbed one of the world's worst invasive species by the International Union for the Conservation of Nature, was helpless before *M. luteus*. Colonized knotweed seedlings had roots less than half as long as normal, and they died 32 percent more often…

[Wisconsin] Mining the muck (9/6/18)
The pair are one of eight teams who fan out this foggy Saturday morning — Aug. 18 — searching for invasive plants for the River Alliance of Wisconsin’s fifth-annual Snapshot Day, a yearly accounting of invasive species. With rakes and binoculars, the volunteers scour the shores and nearby rivers and other waterways to assess the spread and abundance of purple loosestrife, Japanese knotweed and other invasives.
Aquarium and Pond Plants of the World, Edition 3
Identify aquatic plants that are cultivated around the world for the aquarium and pond plant trade. ITP collaborator: California Department of Food and Agriculture Authors: Shaun Winterton, Jamie Burnett, and Julia Scher

JOBS/GRANTS

The BC Government has an exciting new opportunity for an Invasive Plant Specialist to join the Ministry of Forests, Lands, Natural Resource Operations and Rural Development’s Invasive Plant Program. The job details and profile here. The position will be based in the Kootenay Region of the Province, in the “Queen City” of Nelson, a historic and cultural centre along the shores of Kootenay Lake. We are looking for someone who has a strength in both terrestrial and aquatic invasive plants and enjoys working with a diverse team of professionals. Close Date 10/3/2018

Ballast Water Inspector/Emergency Response Specialist (Natural Resource Specialist 2)
Portland, OR (DEQ Natural Resource Specialist 2) This announcement, DEQ18-0093, is open until filled, with the first review of applications received occurring October 4th at 8:00 AM. Please contact Bruce Gilles at (503) 229-6391 (GILLES.Bruce@deq.state.or.us) or Rian Hooff (503) 229-6865 (HOOFF.Rian@deq.state.or.us) with questions regarding this position.

Invasive Species Program Coordinator position — Now Open!
St. Croix River Association is search of a Invasive Species Program Coordinator to lead our established Invasive Species Program. This is a full-time position located in St. Croix Falls, WI. For additional information, please review the position description. Application deadline is October 5th, 2018. All resumes should be emailed to monicaz@scramail.com.

Post-Doc: Endangered Species Research and Invasive Species Impacts in Florida, University of Florida. Last day to apply 1/15/19 (start date as early as 11/01/18 position open until job filled). We are looking for a dynamic Postdoctoral Researcher to oversee three conservation ecology projects in Florida. The projects will examine the loss of ecological functions (scavenging, frugivory, granivory) in the Everglades from invasive pythons and the factors limiting the population and two rarely-studies endangered species, the Florida salt marsh vole and the silver rice rat. The selected applicant will hire, train and supervise a team of technicians on each project and be responsible for managing permits and coordinating with state and federal agencies. They will also be asked to conduct statistical and spatial analysis and to generate manuscript from the projects. The job will require some travel and field work during the first year of the projects. The selected applicant will be given the flexibility to expand these studies to accommodate their interests and skills. By taking the lead on three important conservation ecology projects, this job provides an outstanding opportunity for professional growth. The postdoc will work closely with and be supervised by the principle investigator (Dr. McCleery http://www.themccleerylab.org/) and will be housed at the University of Florida.
GRANTS

The [NOAA Marine Debris Program](https://www.noaa.gov) is proud to announce our FY19 “Marine Debris Removal” federal funding opportunity. Projects awarded through the removal grant competition will create long-term, quantifiable ecological habitat improvements for NOAA trust resources, with priority consideration for efforts targeting derelict fishing gear and other medium- and large-scale debris. Projects should also foster public awareness of the effects of marine debris to further the conservation of living marine resource habitats, and contribute to the understanding of marine debris composition, distribution and impacts. The submission period for removal proposals will extend from August 20 - October 29, 2018. For more information on this FY19 grant opportunity, please visit [www.Grants.gov](https://www.grants.gov) and the [NOAA Marine Debris Program’s website](https://www.noaa.gov).

RFP to prepare a joint TRPA EIS and a CEQA Environmental Impact Report for the Tahoe Keys Lagoons Restoration Project

Joint TRPA EIS and CEQA Environmental Impact Report for the Tahoe Keys Lagoons. Tahoe Keys, is a residential development that includes approximately 170 acres of channels, waterways and lagoons that directly connect to Lake Tahoe. The project proponent has proposed the use of aquatic herbicides, which have never been used in Lake Tahoe nor any other Outstanding National Resource Water (Tier III). Restoration Project Deadline for questions: 5 pm PST, September 28, 2018 Response to questions: 5 pm PST, October 3, 2018 Deadline for submittal of complete proposal: 5 pm PST, October 19, 2018

Aquatic Invasive Species Grants – Call for Applications

The Montana Department of Natural Resources and Conservation (DNRC) Reclamation and Development Grants (RDG) Program offers state-funded grants for the prevention and control of aquatic invasive species (AIS). Preference will be given to species on the [Montana Noxious Weed List](https://www.mt.gov) and to zebra/quagga mussels. The goal of the grants is to protect the natural resources of Montana from severe and unacceptable damage from aquatic invasive species.

Eligible Activities: Activities include but are not limited to aquatic invasive species: (1) outreach and education; (2) prevention; (3) surveying and monitoring; (4) control; (5) treatment demonstration, research or design; or (6) other related actions.

Who is Eligible: AIS grants are available to state, city, county, tribal governments, or other local government subdivisions within the state.

**DEADLINE:** Grant applications must be submitted via email or postal mail by close of business Monday, December 3, 2018 by 5 p.m.

Contact: For technical questions about AIS projects, please contact Stephanie Hester, 406-444-0547, shester@mt.gov. For all other questions about the grant program, administration and reporting contact Heidi Anderson Fohnagy, 406-444-6691, hfolnagy@mt.gov.

Click here for the application and for additional information.
NEW: An AIS legislative table is now up on the web on the www.westernais.org website... go to https://www.westernais.org/regulations and scroll all the way to the bottom

State

Western States Work on Fighting Invasive Species (9/17/18)
The Western Governors' Association Biosecurity and Invasive Species Initiative Workshop is underway at MontBleu Resort Casino Spa in Stateline. The two-day event brings experts from Nevada and the western region together, where they can share their ideas on how to manage invasive species and prevent more from spreading here… Nevada's officials can learn from other states, too. “They may be doing things in Washington, Oregon, Wyoming, Colorado, California that we're not doing,” Gov. Brian Sandoval said.
Related: Invasive species threaten Nevada, Sandoval says at workshop (9/17/18)
Sandoval: Invasive species one of the biggest environmental issues in the West (9/18/18)

[California] Senator McGuire passes bill to cut red tape and implement Quagga and Zebra Mussel inspection programs (9/5/18)
Senator Mike McGuire’s legislation that cuts through red tape and expedites Quagga Mussel inspection programs at Lake Mendocino and Lake Sonoma is now headed to the Governor’s desk after receiving bi-partisan support in the Legislature… “While we dodged a bullet earlier this summer at Lake Mendocino, the situation could have been much worse if the boat would have entered the lake during the week when the Army Corp’s part-time program was not in effect. SB 790 would allow partner agencies – such as Sonoma Water – to receive funding to launch a permanent mussel inspection and prevention program in partnership with the Army Corps.”
Related: New law could speed mussel inspections at lakes Sonoma, Mendocino (9/20/18)
UPDATE: Governor signs bill to cut red tape and implement quagga and zebra mussel inspection programs (9/21/18)

[Montana] Lawmakers eye general fund, boaters, anglers for mussel funding (9/13/18)
[State Sen. Chas Vincent, R-Libby] chairs the Legislature’s Environmental Quality Council interim committee, which has been crafting a new funding proposal for next year's legislative session. The latest version, approved on Thursday, would let the hydroelectric fees expire next year, and place the $6.5 million funding burden on boaters, anglers and the state’s general fund.
Related: Montana legislative council grapples with funding to combat invasive aquatic species (9/14/18)
Bill would change how invasive species prevention is funded (9/17/18)
Executive

Interior to Give States More Sway On Fish, Wildlife (9/12/18)

When it comes to fish and wildlife, Interior is aiming to give "fundamental responsibility" to individual states, according to a two-page memo from Secretary Ryan Zinke released by Public Employees for Environmental Responsibility. "The Department recognizes states as the first-line authorities for fish and wildlife management and hereby expresses its commitment to defer to the states in this regard except as otherwise required by federal law," Zinke wrote. The memo outlines the authority of state fish and wildlife agencies to regulate fish and resident wildlife, and sets a 90-day mark for Interior agencies to draft recommendations to "better align its regulations, policies, and guidance with state provisions." Deputy Interior Secretary David Bernhardt is also given 120 days to "appropriately consult" with state agencies. The move is likely to draw cheers from conservatives, particularly in the West. But PEER Executive Director Jeff Ruch called it an "across-the-board abandonment of federal fish and wildlife safeguards" in a statement, adding that the move "is rooted in an ideological stance unsupported by any factual analysis."


We conducted this audit to determine whether the U.S. Environmental Protection Agency (EPA) has a comprehensive pesticide emergency exemption approval process that maintains environmental and human health safeguards. Under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), all pesticides distributed and sold in the United States must be registered by the EPA for each specific use. Per Section 18 of FIFRA, the EPA can grant federal and state lead agencies the authority to approve—in certain emergency situations—the limited application of a pesticide not registered for that particular use. These short-term pesticide use approvals are called emergency--

Congressional

America’s Water Infrastructure Act of 2018 [aka WRDA]

Senate and House Committee Leadership Announce Agreement on Water Infrastructure Legislation (9/10/18)

WASHINGTON, D.C. — On 9/10/18 Senate and House committee leaders announced a bipartisan, bicameral agreement on comprehensive water infrastructure legislation. Agreement on the legislation, America’s Water Infrastructure Act of 2018, was announced by U.S. Senator John Barrasso (R-WY), chairman of the Senate Committee on Environment and Public Works (EPW), and committee ranking member Sen. Tom Carper (D-DE), along with House Transportation and Infrastructure Committee Chairman Bill Shuster (R-PA), and Ranking Member Peter DeFazio (D-OR).

Read the text of America’s Water Infrastructure Act (S. 3021) HERE.
S. 3021 includes the following AIS language:

**SEC. 1108. AQUATIC INVASIVE SPECIES RESEARCH. [Page 19]**

(a) In General.—As part of the ongoing activities of the Engineer Research and Development Center to address the spread and impacts of aquatic invasive species, the Secretary shall undertake research on the management and eradication of aquatic invasive species, including Asian carp and zebra mussels.

(b) Locations.—In carrying out subsection (a), the Secretary shall work with Corps of Engineers district offices representing diverse geographical regions of the continental United States that are impacted by aquatic invasive species, such as the Atlantic, Pacific, and Gulf coasts and the Great Lakes.

(c) Report.—Not later than 180 days after the date of enactment of this section, the Secretary shall submit to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Environment and Public Works of the Senate a report recommending a plan to address the spread and impacts of aquatic invasive species.

**SEC. 1109. HARMFUL ALGAL BLOOM TECHNOLOGY DEMONSTRATION. [Page 20]**

(a) In general.—The Secretary, acting through the Engineer Research and Development Center, shall implement a 5-year harmful algal bloom technology development demonstration program under the Aquatic Nuisance Research Program. To the extent practicable, the Secretary shall support research that will identify and develop improved strategies for early detection, prevention, and management techniques and procedures to reduce the occurrence and effects of harmful algal blooms in the Nation’s water resources.

(b) Scalability requirement.—The Secretary shall ensure that technologies identified, tested, and deployed under the harmful algal bloom technology development demonstration program have the ability to scale up to meet the needs of harmful-algal-bloom-related events.

**SEC. 1170. WATERCRAFT INSPECTION STATIONS. [Page 82]**

Section 104 of the River and Harbor Act of 1958 (33 U.S.C. 610) is amended—

(1) by amending subsection (b) to read as follows:

“(b) Authorization of appropriations.—

“(1) IN GENERAL.—There is authorized to be appropriated to carry out this section $110,000,000 for each fiscal year, of which—
“(A) $30,000,000 shall be made available to carry out subsection (d)(1)(A)(i); “(B) $30,000,000 shall be made available to carry out subsection (d)(1)(A)(ii); and “(C) $30,000,000 shall be made available to carry out subsection (d)(1)(A)(iii).

“(2) CONTROL OPERATIONS.—Any funds made available under paragraph (1) to be used for control operations shall be allocated by the Chief of Engineers on a priority basis, based on the urgency and need of each area and the availability of local funds.”; and

(2) in subsection (d)—

(A) by amending paragraph (1) to read as follows:

“(1) IN GENERAL.—

“(A) WATERCRAFT INSPECTION STATIONS.—In carrying out this section, the Secretary shall establish (as applicable), operate, and maintain new or existing watercraft inspection stations—

“(i) to protect the Columbia River Basin;
“(ii) to protect the Upper Missouri River Basin; and
“(iii) to protect the Upper Colorado River Basin and the South Platte and Arizona* River Basins.

[* Editor’s Note: This is a typo as there is no “Arizona Basin”. We have heard it will be fixed to read “Arkansas River Basin”, which was the intent of the language.]

“(B) LOCATIONS.—The Secretary shall establish watercraft inspection stations under subparagraph (A) at locations with the highest likelihood of preventing the spread of aquatic invasive species at reservoirs operated and maintained by the Secretary, as determined by the Secretary in consultation with States within the areas described in subparagraph (A).

“(C) RAPID RESPONSE.—The Secretary shall assist States within the areas described in subparagraph (A) with rapid response to any aquatic invasive species, including quagga or zebra mussel, infestation.”; and

(B) by amending paragraph (3)(A) to read as follows:

“(A) the Governors of the States within the areas described in each of clauses (i) through (iii) of paragraph (1)(A), as applicable;”.
Now What:

House Sends Water Resources Infrastructure Bill to Senate with Unanimous Vote (9/13/18)

The House of Representatives today unanimously approved bipartisan, comprehensive water resources infrastructure legislation, which includes the Water Resources Development Act of 2018 (WRDA). The bill will improve America’s harbors, ports, waterways, flood protection, and other vital water infrastructure.


Related: House and Senate negotiators reach agreement on water infrastructure bill (9/11/18) and House Shows Strong Support for Water Resources Bill (9/21/18)

VIDA

[Community Voice]: A National Standard to Protect Oceans and Jobs (9/20/18)

…Hawaii is home to many seafaring people. The ocean is essential to our way of life and to our state’s economy, and we should support every effort to safeguard it. VIDA is the highest standard that we can employ to help protect our state’s seas and the jobs it supports. In fact, it is the same high standard that the U.S. armed forces already operate under at bases around Hawaii like Pearl Harbor. It’s already working for our military, why not let it work for our maritime industry?...

***

BUDGET

First Appropriations Minibus, including “WRDA” funds, Signed Into Law (9/21/18)

WASHINGTON, D.C. – Senate Appropriations Committee Chairman Richard Shelby (R-Ala.) today applauded the President’s signing of the first Fiscal Year 2019 appropriations minibus (H.R. 5895) into law. The package, supported by Congress with overwhelming margins, includes funding bills for Military Construction and Veterans Affairs, Energy and Water Development, and the legislative branch.

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AIS language in the appropriations bill report language is as follows:

**Page 90. Asian Carp.**--In lieu of House and Senate direction, the Secretary of the Army, acting through the Chief of Engineers, shall make every effort to submit to Congress the Report of the Chief of Engineers for the Brandon Road feasibility study according to the original published schedule of February 2019. The conferees understand that the money allocated to the study in the fiscal year 2018 work plan and the fiscal year 2019 budget request is sufficient to complete the feasibility phase. The Corps is encouraged to move expeditiously to the preconstruction engineering and design (PED) phase once feasibility is complete, including requesting sufficient funding in future budget submissions. The Corps is directed to provide quarterly updates to the Committees on Appropriations of both Houses of Congress on the progress and status of efforts to prevent the further spread of Asian carp as well as the location and density of carp populations, including the use of emergency procedures.

The Corps shall continue to collaborate with the U.S. Coast Guard, the U.S. Fish and Wildlife Service, the State of Illinois, and members of the Asian Carp Regional Coordinating Committee to identify and evaluate whether navigation protocols would be beneficial or effective in reducing the risk of vessels inadvertently carrying aquatic invasive species, including Asian carp, through the Brandon Road Lock and Dam in Joliet, Illinois. Any findings of such an evaluation shall be included in the quarterly briefings to the Committees. The Corps is further directed to implement navigation protocols shown to be effective at reducing the risk of entrainment without jeopardizing the safety of vessels and crews. The Corps and other federal and state agencies are conducting ongoing research on potential solutions. The Corps shall brief the Committees on Appropriations of both Houses of Congress on such navigation protocols and potential solutions within 30 days of enactment of this Act.

**Page 105. Aquatic Plant Control Program.**--Of the funding provided for the Aquatic Plant Control Program, $1,000,000 shall be for activities for the control of the flowering rush. Of the funding provided for the Aquatic Plant Control Program, $5,000,000 shall be for nationwide research and development to address invasive aquatic plants; within this funding, the Corps is encouraged to support cost shared aquatic plant management programs. Of the funding provided for the Aquatic Plant Control Program, $5,000,000 shall be for watercraft inspection stations, as authorized by section 1039 of the WRRDA of 2014, and $1,000,000 shall be for related monitoring.

**Page 133: Aquatic Nuisance Research Program.**--Within available funds, the Corps is encouraged to support research that will identify and develop improved strategies for early detection, prevention, and management techniques and procedures to reduce the occurrence and impacts of harmful algal blooms in our nation's water resources.

**Now What:** House Minority Whip Steny Hoyer (D-Md.) told reporters [on 9/25] he does not expect to vote on the Interior-EPA minibus [H.R. 6147 (115)] in the coming days, saying he expected the House to adjourn at the end of this week and not return until after
the elections on Nov. 13. If new dollars are not in place, those agencies are expected to be funded at current levels under a stopgap plan that would run through Dec. 7. Under that scenario, Congress would return after the elections and finalize fiscal 2019 spending in a lame-duck session. The House today will vote on the stopgap funding as part of a package that also includes fresh fiscal 2019 Defense and Labor, Health and Human Services, and Education spending bills [H.R. 6157 (115)]. It already has been backed by the Senate and is expected to win broad backing in the House before being sent to President Trump. Trump has offered mixed signals on whether he will sign the bill, lambasting the package as "ridiculous" last week for not including more border wall funding. At other times, though, the president has said the border fight could wait until after the elections. Shelby said he had "high" confidence that Trump would sign the package, then added, "But you never know." [Source: Reprinted from E&E Daily, 9/26/18, with permission from Environment & Energy Publishing, www.eenews.net; 202/628-6500].

TRAININGS, WEBINARS, CONFERENCES AND MEETINGS

Recently Archived

A recording of the Invasive Mussel Collaborative webinar “Case Studies in Manual Removal of Invasive Mussels” from September 6 is now available online along with PDFs of the presentations and links to resources mentioned during the webinar, including two papers regarding manual removal of dreissenid mussels from unionid mussels: https://invasivemusselcollaborative.net/2018/08/24/webinar-case-studies-in-manual-removal-of-invasive-mussels/ Follow-up questions may be sent to Ceci Weibert at the Great Lakes Commission (cweibert@glc.org) to be placed in contact with the speakers.

Events: Webinars, Trainings, Conferences and Meetings

HACCP Trainings

The U.S. Fish and Wildlife Service has Hazard Analysis Critical Control Point courses upcoming this fall and winter. HACCP plans are a tool to help natural resource professionals prevent spread of invasives while conducting their field work.

HACCP - November 14-15 at University of Nebraska-Lincoln. Joanne Grady instructor with Allison Zach. For more information contact mailto:joanne_grady@fws.gov

HACCP and HACCP Train the Trainer - January 14-15 and January 16-18, 2019, respectively, at the National Conservation Training Center in Sheperdstown, WV - Instructors may include Susan Pasko, Barak Shemai, Jonathan Thompson and Joanne Grady
Watercraft Inspection and Decontamination Trainings

Fall 2018 / Spring 2019 Lake Mead & Lake Powell

The Pacific States Marine Fisheries Commission and its 100th Meridian Initiative partners are announcing and sponsoring several types of WIT Trainings.

ONLINE REGISTRATION HAS BEGUN for the following:

<table>
<thead>
<tr>
<th>Date</th>
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<th>Training</th>
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<tr>
<td>10/2 – 3, 2018</td>
<td>Lake Mead</td>
<td>WIT II</td>
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<td>11/7 – 11/8, 2018</td>
<td>Lake Powell</td>
<td>Advanced Decon</td>
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<td>2/5 – 2/7, 2019</td>
<td>Lake Powell</td>
<td>WIT III</td>
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<td>2/26 – 2/27, 2019</td>
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<td>4/9 – 4/10, 2019</td>
<td>Lake Mead</td>
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Openings are limited!!! Availability will close when class becomes full. An acceptance email will be sent for WIT III

TO REGISTER: Go to [http://www.westernais.org](http://www.westernais.org) for more information. There are different registrations for Advanced Decontamination and Trainer Training (WIT III) classes. Click on the training tab of class you are interested in attending and register on that page link. These trainings do cost money and it is important that we fill all available openings. Please try to make sure that when you sign up for the class that you can attend so that we don’t end up paying for empty seats that could be used by others.

QUESTIONS? Should you have any questions or would like to host a training, please contact WIT Trainer Quagga D Davis at (702) 236-3814 or quaggadee@cox.net

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On July 12, The Western Governors’ Association launched the WGA Biosecurity and Invasive Species Initiative, the signature initiative of WGA Chair, Hawaii Governor David Ige. The Initiative will focus on the impacts that nuisance species, pests, and pathogens have on ecosystems, forests, rangelands, watersheds, and infrastructure in the west, and examine the role that biosecurity plays in addressing these risks. The goal is to examine emerging issues in biosecurity and invasive species management in the West, and develop a set of policy recommendations, best practices, and technical tools to address those issues. The Initiative will accomplish this goal, in part, through webinars and a series of workshops across the West. The dates, locations, topics, agendas, and registration links for the upcoming workshops are below:

• **Kona Coast, Hawaii, Dec. 9-10, 2018.** Topic: *Biosecurity and Agriculture* (**Agenda**). Register [here](#).

If you would like to attend any of the initiative workshops, or if you have any questions about the initiative more generally, please contact [Bill Whitacre](#) with WGA. Please feel free to share this information with your contacts.

**OCTOBER**

The [Montana Invasive Species Council (MISC)](#) will hold its next meeting [on October 3, 2018](#), from 10:00 am to 12:00 pm at the Department of Natural Resources and Conservation Big Sky Conference Room located at 1539 11th Avenue, Helena. The meeting will focus on preparation for the upcoming 2018 Invasive Species Summit in November and action on the next topic of the MISC Science Advisory Council and Fish, Wildlife & Parks containment and quarantine plan for the Missouri River system.

**Flathead Basin Commission** will be held October 10th in Polson, MT

The Aquatic Nuisance Species Task Force (ANSTF), sponsored by the Fish and Wildlife Service (FWS), will meet via teleconference/web on 15 October to discuss the next ANSTF Strategic Plan. [83 Fed. Reg. 47000](#) (9/25/18) If you wish to listen to the webinar by telephone, listen and view through the internet, provide oral public comment by phone, or provide a written comment for the ANS Task Force to consider, contact Susan Pasko, Executive Secretary, ANS Task Force, by telephone at (703) 358–2466, or by email at Susan_Pasko@fws.gov no later than Monday, October 8, 2018.

The 2018 Upper Midwest Invasive Species Conference will be a Joint Conference with the [North American Invasive Species Management Association](#): October 15-18, 2018 - Mayo Civic Center - Rochester, MN.


The PNW Society for Ecological Restoration & Society for Wetland Scientists [2018 Joint Conference](#), October 15-19, 2018 in Spokane, Washington. [Early Registration is now open](#)

Join the [Western Regional Panel](#) in Tacoma, Washington this fall. The WRP will hold their annual meeting October 24-26, 2018 in Tacoma, Washington. Washington Department of Fish and Wildlife will be our local host for the event. Meeting attendees can take advantage of the special rate at Hotel Murano of $117 plus taxes and fees. You may book your room online here [The Western Regional Panel on ANS is accepting presentation suggestions for their upcoming Annual Meeting](mailto:leah@stopais.org)

**NOVEMBER**

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21st Ballast Water Management Conference, November 7th - 8th 2018, Rotterdam - The Netherlands

Invasives 2.0 City of Portland Bureau Of Environmental Services
The City of Portland is auditing and revising its 2008 Invasive Plants Strategy, a regional analysis of invasive plant issues, which led to substantial changes to city policy, code, and management of natural areas, parks, other city properties, and streets. The City of Portland has embarked on a new “all-taxa” strategy: the Invasive Species Strategy Review and Enhancement Project (“Invasives 2.0”), addressing identified gaps, lessons learned, and new management principals. Join us on November 7, 2018, from 12:30pm-4:30pm at the World Forestry Center, Miller Hall to celebrate past successes, identify key gaps and opportunities, and chart a path forward with regional partners using an all-taxa approach to protecting the city's natural resource assets. Agenda and speakers to be announced. November 7, 2018 Summit World Forestry Center, Miller Hall 12:30PM-4:30PM Register Here

Save the Date! Oregon Invasive Species Council’s next meeting will be held November 13-14 in the Portland area. More details to come.

Save the Date: Fish and Wildlife Health Forum, Reston VA November 13-16

Registration now open: 2018 Governor's Summit on Invasive Species Please join the Montana Invasive Species Council (MISC) November 15-16, 2018, for an in-depth dialogue and examination of Montana's invasive species regulatory framework

DECEMBER

Oregon Interagency Noxious Weed Symposium December 4-6 at OSU’s LaSells Stewart Center. Register Here

The next meeting of the 100th Meridian Initiative Columbia River Basin Team is scheduled for Tuesday and Wednesday, December 4 & 5, 2018 in Boise, Idaho. Further details will be forthcoming in the near future. Minutes and presentations from past meetings can be found at https://www.westernais.org/regional

Washington Invasive Species Council: December 13, 2018, Olympia, Natural Resources Building Room 172.

SAVE THE DATE: Innovations in Invasive Species Management Conference and Workshop December 12th-14th, 2018 Nashville, TN. As we prepare the 2018 Conference Website please consider presenting at the 2018 meeting. Suggested topics and a call for papers will go out soon. In the meantime if you have any questions please give Steven Manning a call at 615-969-1309 or send an email at mailto:steve@ipc-inc.org.

2019
JANUARY

A symposium titled “Dreissenid Mussels: Advancements in control, detection, management, and biology” is being organized at the 79th annual Midwest Fish and Wildlife Conference which will be held in Cleveland, OH on January 27-29, 2019 and abstracts will be accepted online for presentations until September 17th. Questions regarding the symposium can be directed to Jim Luoma at jluoma@usgs.gov.

FEBRUARY

Every year the Invasive Species Council of BC holds an Annual Public Forum & AGM. The INVASIVES 2019 Forum takes place Feb 5 - 7, 2019 at the Pacific Gateway Hotel in Richmond, BC

MARCH

Montana Lakes Conference, March 13 -15, 2019. The Montana Lakes Conference will gather diverse resource professionals to exchange information, scientific advancements, and management strategies that promote clean and healthy lake and reservoir ecosystems.

October

The 21st International Conference on Aquatic Invasive Species (ICAIS) will be held at Le Centre Sheraton Montreal, Montreal, Canada. October 27-31, 2019

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