



AQUATIC INVASIVE SPECIES NEWS

01/07/2019

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RECOMMENDED READING

[As Seas Warm, Galápagos Islands Face a Giant Evolutionary Test \(12/18/18\)](#)

...While warmer temperatures often spell doom for native species that evolved to the Galápagos' cool subtropical climate, invasive species flourish. Forests of the Scalesia, a giant daisy tree that is unique to the Galápagos, were already shrinking because of clear-cutting for agriculture in the highlands. The trees are accustomed to mild weather, so the violent storms that come with extreme El Niños can flatten their forests. While destructive, storms have long been part of a natural cycle for these daisy trees, allowing a new generation to take root after the last. With climate change, however, the process is being short-circuited. Below the Scalesia forests, the seeds of an invasive blackberry wait for the giant daisy trees to fall. The blackberry plants quickly spread, blocking the next generation of the trees. A Galápagos hawk and Scalesia, a daisy tree, on Isabela Island. "I'm afraid if nothing is done about the blackberry, the Scalesia forests will not recover in the long run," said Heinke Jäger, an ecologist at the Charles Darwin Foundation in the Galápagos, referring to repeated blows from El Niño...

PUBLIC COMMENT

- The Northwest Power and Conservation Council invites your review and comment on the recommendations the Council received to amend its 2014 Columbia River Basin Fish and Wildlife Program. Please submit your comments on the [recommendations](#) no later than **February 4, 2019**. Consistent with the Northwest Power Act of 1980, the Council develops and periodically amends its fish and wildlife program for the Columbia River

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Basin to protect and enhance fish and wildlife affected by the development and operation of hydroelectric facilities, while assuring the Pacific Northwest an adequate, efficient, economical, and reliable power supply. The Act requires the Council to call for recommendations to amend the program at least every five years prior to the Council's review of its regional electric power and conservation plan. Last May, the Council issued a call for program amendment recommendations. The deadline for submissions was December 13, 2018. [The Council now seeks public comment on the recommendations, as required by the Northwest Power Act.](#) We appreciate your interest in the Council's fish and wildlife program.

- [Atlantic salmon net pen individual permit:](#) [Washington Department of Ecology] have updated four draft water quality permits in response to applications for net pen permits in Puget Sound. Until Atlantic salmon farming is officially banned from Puget Sound starting in 2022, companies are required to have water quality permits. These permits allow us to continue to protect state waters and ensure the companies are operating under the strongest water quality protections. The pens already have current National Pollutant Discharge Elimination System (NPDES) permits in addition to multiple other state, federal, and local permits. Specifically, the NPDES permits are for four of Cooke Aquaculture's Atlantic salmon net pens — one near Hope Island, and three in Rich Passage near Bainbridge Island. See locations below. The draft NPDES permits are now available for comment. We invite comments on the draft permit documents beginning Dec. 27, 2018 until 11:59 p.m. on **Feb. 25, 2019**. We will publish a response to comments to address comments submitted during the comment period. How to provide comments We will accept comments from Dec. 27, 2018 until 11:59 p.m. on Feb. 25, 2019. Online (preferred): [Submit your comments through our online comments form.](#)

NEW SPECIES SIGHTINGS

DRESISSENIDS

OTHER AIS

[Texas]

[Pterygoplichthys sp. \(sailfin armored catfish\)](#) was found in Faust Street Bridge New Braunfels, TX 78130 [Guadalupe River]. [\[USGS NAS Report here\]](#)

DREISSENID MUSSELS

[\[British Columbia\] Invasive mussels being held at bay in the Shuswap \(12/21/18\)](#)

... “This is such great news,” said Robyn Hooper, executive director of CSISS. “If mussels did get into B.C. waters, we could be looking at huge costs to just manage them on underwater infrastructure, let alone the damaging effects on fish and water quality, and the fact that our beautiful sandy beaches would become nasty banks of razor-sharp, stinking shells.”...

[Scientific Publication] Invasive Mussels: review and economic analysis associated with the state of Montana's response to the detection of invasive mussels in 2016. The work focuses on lessons learned re an incident command system approach as a component of EDRR.

https://www.doi.gov/sites/doi.gov/files/uploads/missouri_river_basin_invasive_mussel_contractors_report.pdf

BOAT INSPECTION/DECON/TECH NEWS

[Partners Set Records In 2018 For Quagga Mussel Inspections And Decontaminations \(12/22/18\)](#)

The partnership of the Utah Department of Natural Resources, the National Park Service, and the boating community has set records in 2018 for vessel inspection and decontamination for quagga mussels. The two agencies contacted over 200,000 visitors, inspected over 64,000 vessels, and decontaminated over 4,200 vessels at five primary launch ramps at Lake Powell. Additionally, over 140 boats were placed in quarantine statewide.

[Starting in 2019 new fees will help protect Colorado waters from invasive mussels \(12/27/18\)](#)

In order to keep destructive quagga and zebra mussels out of lakes and reservoirs in Colorado, boaters will help to provide crucial funding for the state's Aquatic Nuisance Species Inspection Program starting in 2019. “Colorado is one of just a few states in the country that doesn't have an infestation of adult zebra or quagga mussels in any of its waters,” said Elizabeth Brown, invasive species program manager for Colorado Parks and Wildlife. “That's directly attributable to our watercraft inspection and decontamination prevention program that's been in place since 2008.”

Related: [COPW: New fees will protect Colorado waters from invasive mussels \(12/24/18\)](#)

MARINE

[\[Canada\] Meth chocolates and mitten crabs: The most unexpected things seized at the border in 2018 \(12/22/18\)](#)

The Canada Food Inspection Agency (CFIA) rules are clear: It's illegal to bring foreign animals into the country without an import permit. A handful of species are not allowed into the country under any circumstances because they pose an invasive threat to Canada's ecosystem. That didn't stop someone from trying to ship 100 Chinese mitten crabs to Canada on board a flight arriving at Calgary International Airport. CBSA officers found the crabs in a parcel arriving from Hong Kong on Oct. 24, according to the CBSA Prairie Twitter account.

[Record numbers of invasive species are being swept to Britain's shores on plastic litter \(1/7/19\)](#)

...He estimates he has found around 20 different foreign invaders on just one stretch of beach in Dorset and warned the impact of their settlement could be devastating for the UK's native species.

BALLAST WATER/BIOFOULING

[EPA To Develop VGP Replacement Post-VIDA \(1/4/18\)](#)

The US Environmental Protection Agency (EPA) is to develop new regulations governing vessel incidental discharges following President Trump's approval of the Vessel Incidental Discharge Act (VIDA) on 4 December 2018. The existing 2013 VGP requirements will remain in effect until the new regulations have taken effect. The new regulations are not expected to be introduced before 2020, and may take up to four years to be phased in. In the meantime, the previously-announced deadline for the submission of notices of intent (NOI) of 18 December was suspended. In other words, vessels which are currently covered by the existing VGP are not required to take any further action.

FISH

[\[Wisconsin\] Bait shop initiative battles aquatic invasive species on Lake Winnebago System \(12/21/18\)](#)

The bait shop initiative reminds anglers to inspect all equipment, remove all attached plants, drain the equipment, and never move plants or live fish away from the lake. "We just want to make sure people are aware that they're not spreading things from one place to another," said Chris Acy, Fox-Wolf Watershed Alliance.

[\[Tennessee\] TWRA gives away nets to control Asian carp \(12/28/18\)](#)

As part of a larger concerted effort by multiple state and federal agencies in the Ohio River Basin, the Tennessee Wildlife Resources Agency has developed an Asian Carp Harvest Incentive Program (ACHIP). Asian carp are an exotic species introduced and are spreading throughout the Mississippi River drainage system. As part of the new ACHIP program and while supplies last, commercial fisherman enrolled in ACHIP shall receive a one-time distribution of 15 TWRA-supplied gillnets from a contracted Wholesale Fish Dealer. A subsequent offering of TWRA-supplied gillnets will be distributed to commercial fisherman enrolled in ACHIP who harvest no less than 60,000 pounds in a 6-month period.

[Nebraska considers hearing on plan KDWPT says may expose Milford to Asian carp, white perch \(12/29/18\)](#)

The Nebraska District of Natural Resources is currently mulling its options on a project that would divert water from the Platte River into the Republican River. The plan, designed to help the state meet its waterflow obligations on a river shared by Kansas, Nebraska and Colorado, has drawn criticism by some for its potential repercussions on wildlife. One of those critics has been the Kansas Department of Wildlife, Parks and Tourism, which says that the connection of two previously separate waterways could open Kansas' pristine fishing destinations to invasive species such as the Asian carp and white perch. The KDWPT in August encouraged Kansans to express their concerns about the project to the Nebraska DNR.

[\[Vermont\] Biologists seek cause of Lake Champlain salmon decline \(12/29/18\)](#)

Biologists are trying to determine whether a warm, dry fall is responsible for a drop in the number of landlocked Atlantic salmon that swam up a Lake Champlain tributary in Vermont to spawn this fall or if there could be other reasons behind a five-year decline... U.S. Fish and Wildlife Service biologist Nicholas Staats said biologists were looking at a variety of possible factors. There is also the possibility that parasitic lamprey once considered under control could be affecting the salmon population or if an increase of an invasive bait fish has affected the salmon's ability to reproduce effectively.

[Scientific Publication] Ivor G. Stuart, Anthony J. Conallin. 2018. [Control of Globally Invasive Common Carp: An 11-Year Commercial Trial of the Williams' Cage](#). North American Journal of Fisheries Management. <https://doi.org/10.1002/nafm.10221>

AQUACULTURE

[\[Washington\] State taking comment on permits for Atlantic salmon fish farms \(1/4/18\)](#)

The state Department of Ecology is taking comment now on permits for four Cooke Aquaculture Atlantic salmon farms — three in Kitsap County and one in Skagit Bay. Farming Atlantic salmon in net pens is officially banned from Puget Sound starting in 2022.

WEEDS

[Texas Parks & Wildlife: Caddo Lake water cleaner than it's been in years \(1/4/18\)](#)

... Bister gave most of the credit for the decrease in salvinia to the cold weather and subsequent high water in 2017. That combination almost completely washed away the entire salvinia population before some grew back, he said. In addition to the herbicide treatment, he said giant salvinia weevils, which feed on the plant, were able to re-establish their presence at the lake...

CLIMATE CHANGE

[One Species Loves Our Climate-Wrecking Ways: Fire Ants! \(1/2/19\)](#)

... "Fire ants are a symptom of a global problem," says Craig Allen, leader of the US Geological Survey in Nebraska. He refers to it as "biotic homogenization." It's a term for what happens when an invasive species outperforms locals and takes over their resources. In the long run, the outcome is less genetic diversity, and fewer evolutionary strategies for species to succeed. Which leads, over time, to weaker ecosystems and more extinctions...

OTHER

[Spread of invasive species in Canada costs billions \(12/24/18\)](#)

David Nisbet, manager of partnership and science at the Invasive Species Centre in Sault Ste. Marie, Ont., said putting a price tag on the issue is difficult because an invasive species can set off all kinds of actions and reactions. When pests kill trees it can change the oxygen supply, prompt flooding, reshape the neighbourhood canopy and cost homeowners or a city for replacements, he said. Recent surveys by the centre on spending in Ontario shows an average municipal cost of \$381,000 a year.

[\[Indiana\] Swan song out of tune \(1/1/19\)](#)

... "Mute swans require eight pounds of aquatic plants for food every day, food that normally would be available for native waterfowl such as migrating ducks and other wildlife," Benson said. "They destroy both underwater plants and plants at the water's edge, so they affect both food and cover for native species. They tend to select higher-quality native plants, leaving aquatic weeds to expand in the area." DNR urban wildlife biologist Jessica Merklung understands the controversy, but agrees the birds are not a good fit here...

JOBS/GRANTS

JOBS

[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.

[Forestry/Wildlife Technician - Missouri Department of Conservation Clinton, MO](#)

Requisition Id: 256

Position Number: 0001015A

Salary: \$26,172 - \$29,124

Job Location: Clinton Office (CLINT1)

Closing Date: January 16, 2019

- Provide assistance in wildlife management activities, including prescribed burns, invasive species control, wetland management, early sussectional habitat management and food plots.
- Assist with wildlife surveys and CWD sampling.
- Perform area maintenance, posting boundaries, parking lot, trash removal, archery and shooting range maintenance.
- Performs minor equipment maintenance on tractors, implements and small engines.
- Assist other Divisions and Districts with wildfire suppression, prescribed burns and Fisheries management.
- Assist with spraying herbicides throughout District to control invasive species, sunflower plantings and marsh management.
- Supervise hourly staff in performing daily tasks.

[Expression of Interest - Intern, Invasive Species Biologist](#) **Apply Now Closing date: Jan 17, 2019**

Location: Yellowknife

Department: Environment & Natural Resources

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Job Code: 16393

Salary: \$67,607 - \$80,691

Job: Full-Time

Term: Temporary

Limited Competition

Intern placements are available to Northern graduates. A northern graduate is an individual who has graduated with a diploma or degree from a designated post-secondary institution within a 24 month period prior to applying to the Internship Program or will complete all academic requirements for his/her program within 6 months of applying to the Internship Program.

Applications to any intern job posting will only be accepted if you are registered to the Internship Program. For more information on the updated Internship Program including eligibility criteria and how to apply please visit <http://www.gnwtjobs.ca/interns>

The [City of Portland, Bureau of Environmental Services \(BES\)](#), Science Integration Division is hiring a person to support the City's Invasive Species Program. **Applications must be received by 4:30 pm Monday, Jan. 21, 2019.**

Job Type: Seasonal Temporary – 25-40 hours/week - (Feb. 14, 2019 - Dec. 31, 2019).

Start Date: Feb. 14, 2019 or as soon as possible

Location: Portland, Oregon

Job posting closing: Jan. 21, 2019 4:30 pm

Compensation range: \$24/hour

Job Description: The candidate will provide support to BES' Invasives Species Program, both managing ED/RR species and assisting broader-scale invasive species policy and partner efforts.

- Winter and fall – Analyze and edit evolving invasive species initiatives; prepare for field season. Office work includes ArcGIS mapping, data management, and quality control.
- Spring and summer – Treating and monitoring a range of less common invasive plant species. Working with City and partner staff to manage invasive plant and non-plant taxa.

Skills needed:

- Knowledge of ecology and native and exotic plants of the Pacific NW
- Technical writing, including project reports, literature reviews, and white papers
- Proficiency with ArcGIS; familiarity with Collector app a plus
- Strong organizational skills
- Ability to carry a backpack sprayer in dense foliage and on difficult terrain
- Ability to perform well in a range of public interaction situations
- Possess or be willing to earn a pesticide application license from the State of Oregon
- Must be able and willing to work in outdoors in a variety of weather conditions
- Proficiency using MS Office suite.
- Conversant in basic environmental statistics
- Driver's License required

To Apply: Applicants must submit a cover letter and professional resume electronically and should be no more than a total of three (3) pages combined.

- Your cover letter should describe your education, training and/or experience relevant to the job description and skills needed sections above.

- Note any training or experience you have related to botany, ecology, and noxious weeds and other invasive species of the Pacific NW.
- Your resume should support the details described in your cover letter.
- If you are requesting Veteran's Preference, attach copy of your DD214 / DD215 and /or Veteran's Administration Letter stating your disability along with your cover letter and resume.

Send your cover letter and resume electronically to:
dominicmaze@portlandoregon.gov

Please use the following subject line in your email transmission: "Seasonal Position Science Division" Applications must be received by 4:30 pm Monday, Jan. 21, 2019.

[2019 Application Process Open for NMFS-Sea Grant Joint Fellowship Program](#)

Note: Website for the joint fellowship program is not available at this time due to a lapse in appropriation.

The NMFS-Sea Grant Joint Fellowship Program in Population and Ecosystem Dynamics and Marine Resource Economics is designed to help Sea Grant fulfill its broad educational responsibilities and to strengthen the collaboration between Sea Grant and the National Marine Fisheries Service (NMFS). Since 1999, Sea Grant and NMFS have partnered to train students through this joint fellowship program in two specialized areas: population and ecosystem dynamics as well as marine resource economics. Population and ecosystem dynamics involve the study of fish populations and marine ecosystems to better assess fishery stock conditions and dynamics. **Student Applications due January 30th**

The goals of the NOAA Fisheries/Sea Grant Fellowship Program are:

- To encourage qualified applicants to pursue careers in either population and ecosystem dynamics and stock assessment or in marine resource economics
- To increase available expertise related to these fields
- To foster closer relationships between academic scientists and NOAA Fisheries
- To provide real-world experience to graduate students and accelerate their career development.

Three Fellowship Opportunities with Sea Grant:

Note: These websites below are up and running

[Coastal Management Fellowship](#) (**Application Deadline: January 18, 2019**)

[NMFS—Sea Grant Fellowship in Population and Ecosystem Dynamics](#) (**Application Deadline: January 30, 2019**)

[NMFS—Sea Grant Fellowship in Marine Resource Economics](#) (**Application Deadline: January 30, 2019**)

[Director of the Western IPM Center](#) (**application review begins on February 15.**)

This is a unique opportunity. One of the most interesting aspects of our work is its regional nature. Often in integrated pest management, folks focus on one geographic area, one category of

pest or even one particular crop. But because the Western Region encompasses 17 Western states and territories, from the Northern Mariana Islands to Alaska to New Mexico, we work across state lines, across academic disciplines and across land-use patterns. We promote IPM in agriculture, natural areas and communities, with an overall vision of creating a healthier West with fewer pests. The [link to the job posting](#) lists the minimum and preferred qualifications for the job. Generally, the director needs a strong background in integrated pest management to be able to help identify needs and establish IPM priorities in the West, but this is not a research job. It's a connections job – a people job – and a successful candidate is going to have demonstrated experience working in collaborative teams, connecting people and managing professional staff. The Western IPM Center plays an important coordinating and support role for the IPM research and extension efforts conducting by state programs, tribal entities and individual labs across the region. Our job is to add value and be helpful, and our director should have that mentality. The staff the director will manage are career professionals who don't need hand-holding and do appreciate collaborative leadership. We're a pretty easy group to get along with (even me, I promise...) and we all value the opportunity to do good work and make a difference.

https://ucanr.edu/Jobs/Jobs_990/?jobnum=1486

To learn more about the position, you can contact either of our past two directors:

[Jim Farrar](#), Director of the University of California Statewide IPM Program, or
[Amanda Crump](#), UC Davis Teaching Professor in International Ag Development

The State of Hawai'i's Department of Land and Natural Resources (DLNR), Division of Forestry and Wildlife (DOFAW) is seeking [Habitat Restoration Volunteers](#) for work at Kure Atoll Wildlife Sanctuary in the Northwestern Hawaiian Islands. Kure Atoll is a part of the Papahānaumokuākea Marine National Monument and is located 1,400 miles northwest of O'ahu. Kure Atoll provides important habitat for wildlife, including the endangered Laysan teal (*Anas laysanensis*) and Hawaiian monk seal (*Neomonachus schauinslandi*). Eighteen species of seabirds nest on Kure including Black-footed albatross (*Phoebastria nigripes*) and Christmas shearwaters (*Puffinus nativitatis*). Currently native plant species are outnumbered by non-native and invasive plant species. DLNR is committed to eradicating invasive plant species such as Golden crown-beard (*Verbesina encelioides*) from the atoll. Invasive plants are a significant management concern because they displace native plant habitat and nesting areas and may cause harm to wildlife. Native plants are an integral resource for nesting habitat and dune stabilization. This position is a unique opportunity to protect and recover important habitat while living in an intact wildlife sanctuary! Kure Atoll is an extremely remote work location and transportation to the atoll is limited and infrequent. Deployment to a remote field site is a serious undertaking. Delays in travel dates due to weather or ship mechanical issues may occur. Due to Kure's remote location and difficult access response times for emergencies, including evacuation, may be long and uncertain. The ability to live and work in close quarters with a small group of people for an extended period of time is of the utmost importance. Field teams typically consist of 6 to 8 personnel. There are only 2 six-month field seasons per year. There is no Internet or cell phone service available. Contact with friends/family is limited to text only email (no pictures or attachments) through the field station's satellite phone.

GRANTS

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California State Parks Division of Boating and Waterways (DBW) will open the application window for the 2018/19 [Quagga and Zebra Mussel Infestation Prevention Grant Program](#) in February 2019. To receive future QZ Grant notices, click [here](#).

The application window for the 2018/19 Quagga and Zebra Mussel Infestation Prevention Grant Program will be: February 25, 2019 - April 5, 2019

A Solicitation Notice containing additional information regarding the workshop date (expected in March 2019), the posting of the Guidelines and other pertinent grant documents, and the accessibility of the On-Line Grant (OLGA) Application system, will be sent prior to opening of the grant application window stated above. The Notice will also be posted on the DBW website.

Minimum Eligibility Requirements:

Grant applicant must own/manage any aspect of the water in a reservoir where recreational activities are permitted; Grant applicant must demonstrate that the reservoir is uninfested with dreissenid mussels; and the reservoir must be open to the public.

What's New?

- SB 790 broadened the eligibility of implementation grants to entities that own or manage any aspect of the water in a reservoir.
- To demonstrate that the reservoir is uninfested, applicants must provide mussel monitoring data collected since March 2018. Monitoring data can be from surface surveys, artificial substrates, and plankton tows.

Through the [Asian Carp Market Value Program \(MVP\)](#), Illinois Department of Natural Resources offers grant funding for current Asian carp processors and product-makers to support development of new markets and sales opportunities for Asian carp products. MVP's intent is to assist the State of Illinois in meeting invasive species management goals by encouraging demand for Asian carp through business growth. Up to \$8,000 per applicant is available, to be matched 20% by the applicant for business travel expenses and attendance at trade shows and conferences associated with market development and sales of Asian carp products. (For an applicant to receive the maximum \$8,000, the applicant must spend \$10,000 on travel and/or trade show/conference-related costs, \$8,000 of which must be for eligible expenses.) **This funding is provided on a reimbursement basis, once the travel and/or event has occurred.** For further program information or to request an application, please contact the staff person below, or visit <http://www.ifishillinois.org/>

Gina Behnfeldt, VP Economic Development Services
Tetra Tech
One Oxford Valley, Suite 200 Langhorne, PA 19047
Direct: 215.702.4094; Cell: 215.584.3180 E-mail: <mailto:gina.behnfeldt@tetrattech.com>

The [Legislative- Citizen Commission on Minnesota Resources \(LCCMR\)](#) welcomes proposals for projects of all sizes that address the priorities and requirements described within this RFP and that aim to protect, conserve, preserve, and enhance Minnesota's air, water, land, fish, wildlife, and other natural resources. The LCCMR reviews applications and makes funding recommendations to the Minnesota Legislature from the Environment and Natural Resources

Trust Fund (ENRTF). Approximately \$53 million is anticipated to be available from the Trust Fund through this RFP for projects beginning July 1, 2020. Most projects funded are 2-3 years in duration. **Applicants are encouraged to submit draft proposals by March 15, 2019** to receive staff feedback. Final proposals must be submitted online at www.lccmr.leg.mn by April 15, 2019.

Funding Priorities Include: Aquatic and Terrestrial Invasive Species

"Invasive species" includes any plants, animals, worms, insects, microbes, and diseases that are non-native, introduced species in the state and that are currently having, or pose a threat to have, significant adverse impacts on Minnesota's native ecosystems and biodiversity. All research proposals related to invasive species research must consider the research priorities established by the University of Minnesota's (UMN) Minnesota Invasive Terrestrial Plant Center or Minnesota Aquatic Invasive Species Center. All UMN proposals and others should apply to the Centers when applicable.

FEDERAL/STATE/PROVINCIAL LEGISLATION, RULES, ACTIONS

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

Advocacy

State/Province

[New fees will protect Colorado waters from invasive mussels \(12/24/18\)](#)

In order to keep destructive quagga and zebra mussels out of lakes and reservoirs in Colorado, boaters will help to provide crucial funding for the state's Aquatic Nuisance Species Inspection Program starting in 2019. "Colorado is one of just a few states in the country that doesn't have an infestation of adult zebra or quagga mussels in any of its waters," said Elizabeth Brown, invasive species program manager for Colorado Parks and Wildlife. "That's directly attributable to our watercraft inspection and decontamination prevention program that's been in place since 2008."

[\[Illinois\] No carp commitment \(12/22/18\)](#)

A little tug-of-war has emerged between Gov. Bruce Rauner and another lame-duck governor. It has to do with Asian carp and outgoing Michigan Gov. Rick Snyder, himself a Republican. A few days ago, Snyder sent a letter to Rauner reminding him that

Michigan has \$8 million set aside to help pay operation and maintenance costs for a new project to keep Asian carp out of the Great Lakes. Snyder basically wanted Rauner to commit Illinois to the project, which will be constructed near Joliet. To his credit, Rauner basically said no thanks. The cost estimate of that project has more than tripled, and it may not be over yet. The administration wants to wait until costs are finalized before committing the state to anything. That means it will be up to JB Pritzker to follow through on this if he so decides. Which was another point Rauner raised in his reply to Snyder. As a lame duck, Rauner said it wasn't appropriate for him to commit the state to a project that is still four years away from a final design and that could see more cost increases before it is done.

Related: [Editorial: Get moving on project to keep Asian carp out of Lake Michigan \(1/2/19\)](#)
[Illinois Lt. Gov: Michigan's carp money would be too little, too late \(1/5/19\)](#)

[Michigan lawmakers approve \\$1.3 billion in extra spending for 2019 \(12/21/18\)](#)

... Spending detailed in Senate Bill 601 includes: \$10 million to fight the Asian carp threat to the Great Lakes...

[\[Montana\] New funding bill filed for aquatic invasive species \(12/12/18\)](#)

Some \$6.5 million worth of boater fees, angler fees and general fund money are Montana's latest answer to the invasive-mussel threat facing the Pacific Northwest. Those fees would be created by an aquatic invasive species funding bill recently filed by Rep. Willis Curdy, D-Missoula.

Related: [Interim issues are expected to resurface during session \(1/4/19\)](#)

NOTE: From Stephanie Hester (MISC): *Day 1 of the 2019 Legislative Session is here. Invasive species-related legislation follows. The hearing for HB 32 is being rescheduled. The hearing for HB 63 is scheduled for Jan. 10.* [To look up bill language go [HERE](#)]

Bill Type - Number	LC Number	Primary Sponsor	Status	Status Date	Short Title
HB 32  	LC0396	Willis Curdy (D) HD 98	(H) Referred to Committee -- (H) Natural Resources	12/07/2018	Revise laws related to aquatic invasive species programs
HB 63  	LC0266	Ray L Shaw (R) HD 71	(H) Hearing -- (H) Agriculture	01/10/2019; 3:00 PM, Rm 137	Remove sunset date to extend financial liability for pesticide applicators

Bill Draft No. (LC No.)	Request Date	Requestor	Status	Status Date	Short Title
LC0060	07/29/2018	Jim Keane (D) HD 73	(C) Draft On Hold	11/21/2018	Generally revise invasive species laws
LC0063	07/29/2018	Jim Keane (D) HD 73	(C) Draft On Hold	11/21/2018	Generally revise invasive species laws
LC0703  	11/02/2018	Llew Jones (R) HD 18	(C) Draft Ready for Delivery	12/19/2018	Revise county weed laws
LC1379  	11/16/2018	Ryan Lynch (D) HD 76	(C) Draft Ready for Delivery	01/05/2019	Revise laws regarding aquatic invasive species expenditures and funding
LC1391	11/16/2018	Fred Anderson (R) HD 20	(C) Draft Request Received	11/16/2018	Revise pesticide applicator laws
LC1510	11/21/2018	Shane A Morigeau (D) HD 95	(C) Draft to Requester for Review	01/04/2019	Revise aquatic invasive species laws
LC1746	11/29/2018	Ray L Shaw (R) HD 71	(C) Draft Request Received	11/29/2018	Revise weed control laws
LC1879	12/03/2018	Derek Skees (R) HD 11	(C) Draft On Hold	12/21/2018	Generally revise aquatic invasive species laws
LC1968	12/04/2018	Greg Hertz (R) HD 12	(C) Draft Taken Off Hold	01/05/2019	Standardize penalties for aquatic invasive species
LC2023	12/04/2018	Willis Curdy (D) HD 98	(C) Draft On Hold	01/03/2019	Joint resolution to congress

LC2916	12/11/2018	Bob Keenan (R) SD 5	(C) Draft On Hold	01/03/2019	asking to fund aquatic invasive species programs Repeal the Flathead basin commission
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Executive

[Justice Dept. investigating whether Zinke lied to inspector general \(1/3/19\)](#)

...On Wednesday, Zinke wrote a farewell letter to staff and posted a handwritten note on Twitter, but neither made mention of the ethics allegations that prompted his departure...

Related: [Zinke denies he's under investigation for lying \(1/3/19\)](#)

[White House Orders Up More Logging to Combat Wildfires \(12/21/18\)](#)

With a government shutdown looming, President Donald Trump signed an executive order [\[EO on Promoting Active Management of America's Forests, Rangelands, and other Federal Lands to Improve Conditions and Reduce Wildfire Risk\]](#) on Friday to boost logging and forest thinning on more than 4 million acres of federal lands to combat extreme wildfires...The order also calls for addressing invasive species and working to mitigate flooding and erosion risks that result from wildland fires...While the order lists a number of forest threats made worse by climate change — drought, disease, insect infestations, invasive species — it ignores climate change as a whole. That comes as little surprise, given the misinformation and climate change denialism that the administration rolled out in response to the fires in August. “I’ve heard the climate change argument back and forth. This has nothing to do with climate change,” Interior Secretary Ryan Zinke told KCRA-TV in Sacramento during a trip to assess damage from the Carr fire. “This has to do with active forest management.” Zinke, who is resigning at the end of the year amid numerous federal investigations into his conduct and policy changes, has gone so far as to blame the blazes on “environmental terrorists” who he claims are standing in the way of forest management.

Congressional

BUDGET

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[Negotiations crumble as shutdown enters day 17 \(1/7/18\)](#)

The partial shutdown that has impacted a quarter of the government and some 800,000 federal employees is now 17 days old, with no end in sight. Vice President Pence spent the weekend negotiating with staffers for congressional Democratic leaders, but there was no breakthrough. President Trump is refusing to budge from his demand that Congress include \$5.7 billion for a border wall in any spending package it sends him. The president and his team seem focused on finding a way around Congress by using emergency powers to redirect money for the wall, which would be challenged in court immediately. Trump has made conflicting remarks over the course of the negotiations, sowing confusion about whether he'd be willing to compromise.

Congress

[Opposition to Pay-As-You-Go Proposal Prevents Unity on House Democrats' Rules Package \(1/2/19\)](#)

House Democrats' rules for the 116th Congress contain a wide array of consensus changes, but a pay-as-you-go provision that would require offsets for deficit-increasing legislation is preventing party unity on the package. At least two progressive members, California Rep. Ro Khanna and New York Rep.-elect Alexandria Ocasio-Cortez, said they will oppose the rules package because of the provision.

Related: [Jayapal introduces bill to repeal pay-go \(1/4/19\)](#)

[Congress Reauthorizes National Harmful Algal Bloom Program \(12/21/18\)](#)

Yesterday, the U.S. House of Representatives passed the Harmful Algal Bloom and Hypoxia Research and Control Act (HABHRCA) of 2018. Last night's vote was the final step toward sending the bipartisan legislation to the President's desk. "This legislation is critically important to advancing the scientific understanding and ability to monitor and assess harmful algal blooms," said American Sportfishing Association (ASA) Policy Director Clay Crabtree. "With the ongoing frequency of harmful algal blooms and their devastating impacts on fisheries, we are grateful that Congress moved this bill across the finish line."...

Note: The Harmful Algal Bloom and Hypoxia Research and Control Act of 2018 was introduced in the Senate by Sen. Nelson and in the House by Rep. Mast. The bill passed the House of Representatives and the Senate as part of [S. 2200, the National Integrated Drought Information System Reauthorization Act of 2018](#). The legislation now heads to the President's desk to become law.

Related: [Mast's Legislation Devoting More Federal Resources To Combat Toxic Algae Passes Congress \(12/20/18\)](#)

TRAININGS, WEBINARS, CONFERENCES AND MEETINGS



CALL FOR ABSTRACTS



Aquatic Invasions in the Anthropocene

The Technical Program Committee invites the submission of 300-word abstracts for oral and poster presentations addressing invasive species issues in freshwater and marine environments.

Abstract Submission Deadline: January 14, 2019

[Click here](#) for details or click on the the image to download the Call for Abstracts in PDF format.

[Events: Archived Materials](#)

Hydrilla Collaborative - For those of you who could not attend December's technical webinar, "Monitoring and Detecting Hydrilla: Three Case Studies in New York and New Jersey", a recording has been made available on the [Hydrilla Collaborative website here](#), along with a PDF of the PowerPoint for download.

[Events: Webinars, Trainings, Conferences and Meetings](#)

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:

3/26 – 3/27, 2019	Lake Mead	WIT II
4/23 – 4/24, 2019	Lake Mead	WIT II

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> 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

JANUARY

[USDA Interagency Forum on Invasive Species](#) January 8-11, 2019, Annapolis, Maryland

The Oregon Invasive Species Council would like to invite you to attend the upcoming webinar titled Emerging Insect Pests: Threats to Oregon's agriculture, forests, and plant trade. In this 1-hour long, FREE webinar, you can learn about key emerging invasive insect threats that could cause significant impacts, as well as what you can do to help address the issue.

Thursday, January 17, 2019

11:00am–12:00pm

Up to 30 min Q&A to follow

[Registration required at no cost](#)

[Slowing Aquatic Invasive Spread in 2019: NY Sea Grant Watercraft Inspection Webinar Series Starts January 17](#)

The 2019 edition of the Watercraft Inspection Program Leader educational webinar series developed by New York Sea Grant and featuring coastal science and AIS specialists begins on January 17 and will connect participants from multiple states. Four sessions in the webinar series will address issues associated with recreational boating as a key pathway in the spread of aquatic invasive species (AIS), making watercraft inspection a critical contributor to limiting the spread of AIS among the more than 7,000 lakes, ponds, and rivers in New York State and waters elsewhere. Participants can join any or all of the one-hour, free-access webinars available from 10 am to 11 am. Register at <https://goo.gl/QzjodX>. For more information, contact New York Sea Grant at 315-331-8415, <http://www.nyseagrant.org/watercraftinspection>

- January 17: Applying Behavioral Psychology to Stop AIS: Learn the fundamentals of creating behavior change through simple and proven methods of applied behavioral psychology. Present: Ken Donnelly, president, Beyond Attitude Consulting;
- January 24: NY Watercraft Inspection Steward Program Application 2018 Data Overview: Methods, Statistics, Analysis: Learn the latest information about a real-time data collection tool launched in New York State in 2017 to track and analyze AIS trends to aid prevention, education and response statewide. Presenters: Cathy McGlynn, Ph.D., Aquatic Invasive Species Coordinator, New York State Department of Environmental Conservation; and John Marino, GIS Applications Developer, and Forest Swaciak, Intern, New York Natural Heritage Program iMapInvasives Project Team;

- January 31: Assessing the Risk of Future Aquatic Invasive Species Establishment in a Changing World: Using projected changes to temperatures and precipitation patterns in Pennsylvania as new and complex challenges to those working in aquatic invasive species management, learn a process for assessing the risk of new AIS establishment under these climate scenarios and species that have already become threats. Presenter: Sara Stahlman, Extension Leader, Pennsylvania Sea Grant; and
- February 7: Dealing with the Public: Handling Harassment and Other Issues: Learn how training, awareness, and strong support from management serve as critical tools to keep watershed stewards safe throughout the boating season. Presenter: Sue O'Reilly, Data Manager, Adirondack Watershed Institute at Paul Smith's College.

The Western Governors' Association will host the webinar, [Invasive Species Impacts on Fisheries](#) at 11 a.m. on Wednesday, Jan. 16. Panelists will discuss the impacts of invasive species on fisheries in the Pacific Northwest. Case studies will examine the impacts and management challenges related to northern pike in Washington and the effects of non-native predation of salmon. This is the first webinar in a monthly series as part of the Western Governors' Biosecurity and Invasive Species Initiative, the central policy initiative of WGA Chair Hawaii Gov. David Ige. The webinar will be moderated by Justin Bush, Executive Coordinator with the Washington Invasive Species Council. Panelists include:

Joe Maroney – Director of Fishery and Water Resources, Kalispel Tribe of Indians
 Steve Martin – Executive Coordinator, Washington Governor's Salmon Recovery Office
 Laura Robinson – Program Liaison Coordinator, Northwest Power & Conservation Council

[Register now](#)

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.

Willamette Aquatic Invasives Network Meeting January 31, 2019; 10:00 am - 1:00 pm Oregon Department of Fish and Wildlife Headquarters Commission room 4034 Fairview Industrial Drive SE Salem, OR 97302 For more information <mailto:marci@willametteriverkeeper.org>.

FEBRUARY

[18th Annual Northern ID/Eastern WA Regional Lakes Conference](#) The conference will take place Saturday, February 2nd, 2019, from 9:00 am - 2:00 pm at Spokane Community College. The conference is FREE to attend, thanks to our very generous sponsors! Online Registration DUE: January 21st, 2019 please go to: lakesconference.libertylake.org

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

[Canada: 4th Annual National Invasive Species Forum](#) Where: Delta Hotels Ottawa City Centre
When: February 12-14, 2019

MARCH

Registration is open for the [84th North American Wildlife and Natural Resources Conference](#).
We invite you to join us in Denver, Colorado on March 4-8, 2019.

[Aquaculture 2019](#). Date: Mar 06, 2019 to Mar 10, 2019 Sponsor: World Aquaculture Society
Venue: Marriott New Orleans

1st Call for Papers [2019 MRNRC Missouri River Conference](#) “Theme TBD” March 5-7, 2019
Ramkota Conference Center, Pierre, SD

[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.

[Washington Invasive Species Council](#): March 28, 2019, Olympia, [Natural Resources Building](#)
Room 172.

April

The Washington State Salmon Recovery Funding Board will hold its [seventh biennial conference](#)
April 8-9, 2019 at the Greater Tacoma Convention Center in Tacoma, WA. Abstracts for
presentations and posters are being accepted December 21, 2018 — January 31, 2019

The next meeting of the [Pacific Ballast Water Group](#) will be held April 2-3 in Vallejo, CA.

June

[Washington Invasive Species Council](#): June 6, 2019, Olympia, [Natural Resources Building](#)
Room 172.

July

[2019 Western Aquatic Plant Management Society and Aquatic Plant Management Society Joint Meeting](#) Date: Jul 13, 2019 to Jul 19, 2019 Venue: Double Tree Hilton Hotel Location: San
Diego, California

Join [PNWER in Saskatoon, Saskatchewan for our 29th Annual Summit](#), July 21-25, 2019

August

[2019 104th Ecological Society of America Annual Meeting](#)

Date: Aug 11, 2019 to Aug 16, 2019 Venue: Kentucky International Convention Center
Location: Louisville, Kentucky

September

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[Washington Invasive Species Council](#): September 26, 2019, Olympia, [Natural Resources Building](#) Room 172.

SAVE THE DATE: [The 6th International Columbia River Transboundary Conference](#) WHEN: September 26, 2019 – September 28, 2019 WHERE: Kimberley, BC

Join Columbia Basin Trust and the Northwest Power and Conservation Council from September 26 to 28, 2019 in Kimberley, B.C. to connect and collaborate on the future of the Columbia River. The conference will cover topics including:

- Renegotiation of the Columbia River Treaty
- Reintroduction of salmon to the Columbia River above Grand Coulee Dam in Washington and British Columbia
- **Impacts of and response to invasive species including northern pike and invasive freshwater mussels**
- Energy issues including: hydropower, energy efficiency, transmission and renewable resources in the United States and British Columbia
- Climate change-related impacts on Columbia River water resources and resulting impacts on communities, ecosystems, the economy and hydropower generation.

The conference themes and agenda will include the interests and issues of First Nations and US Native American Tribes, as well as art, culture and history as it relates to the Columbia River. The conference format will be interactive with workshop formats encouraging participants to actively explore a wide range of technical, environmental, political and community issues. Watch for more details in early 2019 about how to register and information on speakers. For more information, contact Caitlin Hinton, Columbia Basin Trust, at 1.250.344.2445 or chinton@cbt.org

[2019 26th Annual Wildlife Society Conference](#) Date: Sep 29, 2019 to Oct 03, 2019 Location: Reno, Nevada

October

[The 21st International Conference on Aquatic Invasive Species](#) (ICAIS) will be held at Le Centre Sheraton Montreal, Montreal, Canada. October 27-31, 2019 **ABSTRACTS DUE 1/14/19**

December

[Washington Invasive Species Council](#): December 19, 2019, Olympia, [Natural Resources Building](#) Room 172.

TO UNSUBSCRIBE/SUBSCRIBE to the *AIS NEWS* email sphillips@psmfc.org.

AIS NEWS was compiled by Stephen Phillips and Robyn Draheim. Past issues of *AIS NEWS* can be found @ <http://www.westernais.org/> under the “News” tab.