



AQUATIC INVASIVE SPECIES NEWS

04/02/2018

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NEW AIS SIGHTINGS

Corbicula fluminea (Asian clam) was found in a new County, Drainage: Crook County, WY Location: Mule Creek, at Mule Bay, Keyhole Reservoir [\[USGS NAS\]](#)

DREISSENID MUSSELS

[Western Governors encourage DOI action to prevent spread of invasive zebra, quagga mussels \(3/28/18\)](#)

Western Governors have expressed their concern about the threat of invasive quagga and zebra mussels to western water bodies and urged action by Department of the Interior (DOI) agencies in outreach to House and Senate leadership... The letters sent to the Senate Committee on Environment and Public Works and the House Committee on Appropriations encouraged DOI agencies to implement procedures to prevent the spread of quagga and zebra mussels in areas under their control.

Related: [Western Governors Call For Aggressive Action Against Invasive Mussels \(3/29/18\)](#)

[NC Hemp Industry May Play a Major Role in Thwarting Invasive Species Onslaught in North America \(3/21/18\)](#)

Joyce Mann, CEO of Lenoir-based RMANNCO, Inc., announced today that, "RMANNCO's new Cannabis-based biocide formulation may hold the key to eradicating the invasive zebra and quagga mussel infestation plaguing North America". RMANNCO's nanotechnology division is involved in the cannabis industry, providing microencapsulated, or powdered cannabis extracts for the medical and edibles segments. Mann made the announcement adding that RMANNCO's scientific team responded to the "The Grand Challenge" issued by the US Department of the Interior, Bureau of Reclamation, in which it is seeking novel methods aimed at eradicating zebra and quagga mussels in North America.

[\[Minnesota\] Zebra mussels double water clarity in Lake Winnibigoshish \(3/11/18\)](#)

...Doug Jensen, aquatic invasive species expert for Minnesota Sea Grant, said the Winnibigoshish zebra mussel explosion happened faster than in most lakes they have invaded but was "not unheard of." And he warned people to get used to the ever clearer water...

[\[British Columbia\] Possible federal funding put forward to fight invasive mussels \(3/21/18\)](#)

Increased funding for the Okanagan's effort to stop zebra and quagga mussels from entering local lakes could be on its way.

[\[Manitoba\] One of the World's Most Threatened Lakes Is in Canada, and We Can Save It Some scientists have declared that Lake Winnipeg is a lost cause, but there is both reason and evidence for hope. \(3/22/18\)](#)

There has been a lot of bad news lately about Lake Winnipeg. Algae blooms occur regularly, and zebra mussels are settling into their new home. Lake Winnipeg was named the world's most threatened lake in 2013 by Global Nature Fund, and some scientists have even declared that Lake Winnipeg is a lost cause.

[\[Ontario\] Native species flex their mussels in battle against zebra invasion \(3/23/18\)](#)

There's good news for lakes and rivers despite the wave of zebra mussels across Eastern Ontario: Native mussels that are an important part of our fresh waters are fighting back.

[\[Wyoming\] You Can Protect Wyoming From These 4 Invasive Aquatic Species \(3/26/18\)](#)

There are some strange Aquatic Species that have found their way into Wyoming waters. So how did they get there? The answer, in most cases, is that we humans brought them where without even knowing it...

[\[Montana\] Prevention, prevention, prevention \(3/29/18\)](#)

The Confederated Salish and Kootenai Tribes have been at the point of the effort to prevent the invasion of zebra and quagga mussels in the Flathead River Basin and by extension the Columbia River Basin. The State of Montana was perceived by some as dragging its feet when it came to prevention or failing to understand the enormity of an aquatic invasive species (AIS) effect on the aquatic resource as well as the blow to the

economy should an invasion happen. But that seems to have changed in the last 18 months or so.

BOAT INSPECTION/DECON/TECH NEWS

[Clean, Drain Dry: Paddlers Preventing Aquatic Invasive Species \[Video\]](#)

[\[Colorado\] Mussel inspections underway at Boyd, on tap for Carter, Horsetooth \(3/14/18\)](#)

... With legislation to pay for the statewide inspections [pending](#) and expected to pass for next summer, Colorado Parks and Wildlife has pieced together the \$4.5 million to pay for the statewide program this year, including \$1 million from partner agencies...

Related: [Federal, state, local authorities work together to avoid catastrophe at Green Mountain Reservoir \(3/16/18\)](#)

[Invasive species lead to new rules at Highline launch \(3/22/18\)](#)

[\[Washington\] Boaters Reminded to “CLEAN, DRAIN and DRY Boats and Equipment to Block Invasive Species \(3/29/18\)](#)

The Washington Invasive Species Council and Washington Department of Fish and Wildlife are reminding boaters to “CLEAN, DRAIN and DRY” their boats and equipment to prevent the spread of invasive species and minimize the time spent at mandatory boat inspections at state borders.

[\[Montana\] Planned watercraft inspection changes for Tiber Reservoir \(3/14/18\)](#)

...FWP says several boats left Tiber without being inspected last year, and limiting launching to just two ramps will provide for better compliance. The Certified Boater program will still be available to those who primarily use Tiber Reservoir, and other access areas around Tiber will remain open to camping and shore fishing...

Related: [FWP takes another look at Tiber access options \(3/30/18\)](#)

[\[Montana\] KEEP OUT Mussel inspection stations open for season \(3/21/18\)](#)

Efforts to keep invasive mussels out of Flathead Lake are in full force again this year as watercraft inspection stations opened in Ravalli, Blue Bay and Kalispell last week.

Related: [Boat check stations open earlier to search for aquatic invasive species \(3/21/18\)](#)

[Watercraft Inspection Stations opening for the season \(3/29/18\)](#)

[\[Texas\] TPWD reminds boaters to ‘clean, drain, dry’ vessels to stop invasive species \(3/16/18\)](#)

“There are 14 lakes in Texas with an established, reproducing population of zebra mussels and five where zebra mussels have been detected repeatedly,” said Monica McGarrity, TPWD Aquatic Invasive Species team lead. “Boaters can help keep that number from growing by taking a few minutes to properly clean, drain, and dry everything that touches the water before they leave. Taking just a few minutes for these simple steps can make a huge difference in our efforts to protect and preserve Texas lakes for future generations.”

[\[Texas\] Prevention is key to protecting upper Highland Lakes from invasive mussels \(3/21/18\)](#)

While Lake Marble Falls, Lake LBJ, Inks Lake and Lake Buchanan sit upstream of the two infested lakes, officials are concerned that if boaters and lake enthusiasts don't take the necessary precautions, the invasive species would work its way to the upper Highland Lakes. People can transport zebra mussels from one body of water to another when the invasive species — in both adult form or larvae — hitches a ride on boats.

[\[Utah\] Be a mussel-aware boater \(3/20/18\)](#)

The Utah Division of Wildlife Resources (UDWR) has a program available to anyone that wishes to learn about and become a “mussel aware boater” through its website, wildlife.utah.gov. Besides learning about how to curtail the spread of mussels, once the certification is printed and placed on your dashboard, it takes the place of the daily certification requirement for launching your boat in any of our Utah reservoirs and streams.

MARINE

[\[Alaska\] Kachemak Bay Science Conference sheds light on key issues in region \(3/16/18\)](#)

During the three-day event, participants were briefed on the biology and ecology of the Bay, including the potential for non-indigenous species shifting into local waters, such as the threat of the introduction of the European green crab or an increase of phytoplankton in the area.

[50 years ago, invasive species traveled the Suez Canal \(3/31/18\)](#)

The Red Sea is invading the Mediterranean... So far about 140 life-forms, mostly animal and mostly invertebrate, have crossed the Isthmus of Suez.... It is possible that this ... will result in the loss of a few native fish and invertebrate populations to stiff competition from the newcomers.

BALLAST WATER/BIOFOULING

[The Migration of the Supertankers \(3/26/18\)](#)

Invasive species brought to foreign shores by ships can have devastating effects on ecosystems and economies. Now, by reimagining tankers, bulk carriers, cruise ships, and other vessels as different kinds of migratory animals, Ian Davidson has offered up a way to better predict their potential to carry invasive species around the world.

[IMO is the right organization to regulate maritime industry: BIMCO \(3/27/18\)](#)

The maritime industry needs global regulations for a global industry, which makes the International Maritime Organization, or IMO, the right organization for this task, BIMCO's chief shipping analyst Peter Sand told S&P Global Platts Monday.

[BWMS Approval Submissions in US Reach Double Figures \(3/14/18\)](#)

The US Coast Guard has welcomed the tenth application for type approval of a ballast water management system (BWMS), for BIO-UV Group's BIO-SEA system, over a year after granting its first approval.

[Aqua-Tools to urge tanker owners to assess treated ballast water \(3/15/18\)](#)

Water microbiology expert aqua-tools will present a paper to Asian tanker owners on the importance of taking onboard analysis of ballast waters in verifying system performance and compliance with the Ballast Water Management Convention... Magdo will present her paper during Riviera Maritime Media's Asian Tanker Conference, which takes place in Singapore between 27th and 28th March.

Related: [Aqua-Tools' B-Qua To Be Used In Canadian Ballast Water Surveillance Programme \(3/23/18\)](#)

[\[Scientific Publication\] Is Ballast Water a Major Dispersal Mechanism for Marine Organisms?](#)

Stephan Gollasch. 2018. Biological Invasions.

FISH

[\[Michigan\] Snyder held a 'Carp Tank' contest to find ways to fight Asian carp \(3/27/18\)](#)

Carp Tank (like Shark Tank... get it?) was the culmination of Snyder's Great Lakes Invasive Carp Challenge, which the governor announced in February 2017. Edem Tsikata, a software consultant at Ab Initio Software in Boston, received the contest's top award — a \$200,000 prize, along with a fish-shaped trophy... According to the press release, Tsikata does not necessarily plan to use the prize money to work on making the project a reality. (The release says Tsikata plans to use his award "to invest in other projects.")

[\[Washington\] Fish Frenzy: Hundreds of goldfish are in West Medical Lake \(3/22/18\)](#)

West Medical Lake is a trophy trout lake. Many people from all over Washington come here specifically to fish for those trout, But there's an invasive species inside this lake that is driving people crazy. Fish and Wildlife say someone's been putting goldfish where they don't belong, "they start small, but they rapidly get big," said John who lives across the street.

[NOAA Fisheries Seeks Comments for an Application for an Exempted Fishing Permit to Test Trap Targeting of Lionfish in the Gulf of Mexico and South Atlantic Federal Waters \(3/16/18\)](#)

NOAA Fisheries is accepting comments on an application for an exempted fishing permit (EFP) from Salty Bones Fisheries. The applicant proposes to test various spiny lobster traps and a fish aggregation device based, non-containment purse trap to harvest lionfish from in Gulf of Mexico (Gulf) and South Atlantic federal waters. The comment period is open now through April 2, 2018.

[Wall of sound to be deployed to battle invasive fish \(3/21/18\)](#)

Researchers will experiment with a riverbed bubbler and sound system as part of the ongoing effort to slow the spread of Asian carp throughout the Mississippi River basin.

European technology originally designed to steer migrating salmon back into main river channels will be tested below Barkley Dam as an environmentally friendly way to block passage of Asian carp upstream.

[\[Missouri\] Intensive method to remove Asian carp finds early success at Creve Coeur Lake \(3/29/18\)](#)

Asian carp has invaded many Midwestern lakes and rivers, outcompeting native fish populations and tainting water quality. Traditional netting methods have not been effective, since the fish jump over the nets. Under the "unified method" developed in China, nets and electric barriers create a grid-like system where fish are herded and then removed.

[\[Illinois\] Sanguinetti, Kinzinger, Foster to attend Asian carp fishing exhibition \(3/25/18\)](#)

The three will participate in a fishing exhibition Monday at the Rock Run Rookery Preserve... Since 2012, in partnership with contracted-commercial fishermen, Illinois has removed more than 6.3 million pounds of the carp from the upper Illinois waterway, resulting in a 93 percent reduction of the fish in the Dresden Island Pool, the release stated.

Related: [Illinois officials say Asian carp 93 percent eliminated \(3/27/18\)](#)

[A ticking time bomb in the Great Lakes \(3/16/18\)](#)

The last time I wrote, I described a dismal outlook for Lake Michigan's native ecology. I described Asian carp and other invasive species as a ticking time bomb. This time, I'd like to invite every reader to join the bomb squad.

[\[Scientific Publication\] Development of environmental DNA \(eDNA\) methods for detecting high-risk freshwater fishes in live trade in Canada.](#) Mélanie Roy, Valérie Belliveau, Nicholas E. Mandrak & Nellie Gagné. 2018. Biological Invasions.

[\[Scientific Publication\] Multi-trophic response to invasive silver carp \(*Hypophthalmichthys molitrix*\) in a large floodplain river.](#) Jason A. DeBoer, Alison M. Anderson, Andrew F. Casper. 2018. Freshwater Biology.

[\[Scientific Publication\] Low-head dams facilitate Round Goby *Neogobius melanostomus* invasion.](#) Dustin Raab, Nicholas E. Mandrak & Anthony Ricciardi. 2018. Biological Invasions.

AQUACULTURE

[Report: Offshore Fish Farms Could Thrive in California \(3/26/18\)](#)

Aquaculture proponents view the ocean off Southern California as an ideal place for an emerging industry. The key, new research found, will be to carefully locate facilities to minimize environmental risks and conflicts with other marine uses.

[\[British Columbia\] 'Namgis Bid to Prevent Fish Farm Restocking Denied \(3/26/18\)](#)

The 'Namgis First Nation has lost its bid to keep Marine Harvest from restocking a salmon farm near Alert Bay. The nation had applied for a federal court injunction to prevent the company from doing so, but reports say that application has been denied. The band is concerned with the effect fish farming has on its traditional way of life.

[State phases out Atlantic salmon farming Gov. Jay Inslee signs bill to end practice in state waters by 2022 \(3/22/18\)](#)

Inslee has said the risks are not acceptable given the high priority — and hundreds of millions of dollars spent — on bringing back declining populations of native Pacific salmon runs. The legislation sponsored by Rep. Kristine Lytton, D-Anacortes, would end state leases and permits for operations that grow nonnative finfish in state waters when current leases expire.

Related: [Washington governor signs fish farm ban bill into law \(3/22/18\)](#)

[Cooke Aquaculture Pacific will respect new Washington State Law to phase out non-native fish farming by 2025 \(3/22/18\)](#)

[Well, that was dumb \(3/26/18\)](#)

OTHER

Bsal (*Batrachochytrium salamandrivorans*) Rap [\[Video\]](#)

[Working together for a healthier Lake Tahoe \(3/23/18\)](#)

There are countless other ways to help protect Lake Tahoe's natural resources and environment. The League to Save Lake Tahoe has launched two innovative programs in recent years: Pipe Keepers, in which volunteers monitor stormwater outfalls around Tahoe to identify areas with stormwater pollution, and Eyes on the Lake, which trains people to identify and report harmful aquatic invasive species like Asian clams, Eurasian watermilfoil, and curlyleaf pondweed so they can be targeted for removal.

[Emergency quarantine declared for pest that's decimating Louisiana wetlands \(3/29/18\)](#)

An emergency quarantine has been declared for an Asian insect decimating roseau cane, a critically important plant on Louisiana's coast. The state Department of Agriculture and Forestry announced the quarantine on Tuesday (March 27), more than a year after the state began to try to halt the insect, known as a scale, in lower Plaquemines Parish. Agriculture officials worry that the scale may attack commercially important crops.

[Why wildlife officials euthanize invasive species \(3/21/18\)](#)

Emotions are mixed and high in Preston, Idaho, and throughout the country, after a snapping turtle was euthanized last week....According to the Idaho Department of Agriculture, the turtle was euthanized because it is an invasive species. "Snapping turtles are highly adaptable, top-tier predators in their habitat. The public is urged to avoid

propagating invasive species or from bringing them in to Idaho from other states and countries,” the department said in a news release.

[Does 'green xenophobia' mean nature's go-getters are wrongly attacked as invasive species? \(3/29/18\)](#)

Invasive species imported - sometimes accidentally - by us humans are seen as a threat to 'pristine' and 'fragile' ecosystems. But FRED PEARCE, the legendary environmental correspondent, argues in his new book *The New Wild* that they could be the salvation of environments put under stress by modern development

[\[Scientific Publication\] Replacement of a unique population of newts \(*Taricha granulosa mazamae*\) by introduced signal crayfish \(*Pacifastacus leniusculus*\) in Crater Lake, Oregon](#)
Scott F. Girdner, Andrew M. Ray, Mark W. Buktenica, David K. Hering, Jeremy A. Mack & John W. Umek. 2018. *Biological Invasions*.

WEEDS

[\[Alberta\] Invasive perennial grass threatens irrigation systems \(3/20/18\)](#)

While the presence of Phragmites is abundant in North America, Alberta had remained untouched until the first report of invasive Phragmites, near Brooks in the spring of 2016.

[\[Scientific Publication\] Environmental filtering and competitive exclusion drive biodiversity-invasibility relationships in shallow lake plant communities.](#) Ranjan Muthukrishnan Nicole Hansel-Welch Daniel J. Larkin. 2018. *J Ecology*.

Related: [U of M study: Plant diversity doesn't protect lakes from invaders \(3/14/18\)](#)

JOBS/GRANTS

[Washington: Biological Weed Control Field Assistant](#)

Dates of Employment: April 26 – August 17, 2018. \$16/hour, benefits not available. 40 hours/week. Work schedule may fluctuate with project needs. Reports to the WSU Extension, Integrated Weed Control Project (IWCP) Working location is across Washington State and the office location is based in Puyallup WA1.

General Description and Responsibilities:

The Integrated Weed Control Project is a statewide program that provides invasive weed management support to land managers through education and implementation of weed identification and control techniques. During the field season we focus primarily on supplying biological control agents to land managers across WA, including federal, tribal, state and county agencies, conservation groups and private landowners. The field assistant will support the project director with organizing and conducting biocontrol collections and releases, monitoring, research and other related activities throughout the field season. Some office-related work such as data

entry, mapping and organizational tasks will be required. Activities will be conducted across Washington with occasional travel to Oregon and Idaho. Field assistants will be required to occasionally work long hours and travel long distances, including some overnight trips. Application: Apply by submitting a brief letter describing how your experience and training support the major responsibility and qualifications for the position. Include a resume and three references. Screening applications will begin immediately and will continue until the position has been filled. Send application materials (email preferred) to Jennifer Andreas, WSU Extension, 2606 W Pioneer, Puyallup WA 98371. Phone 253.651.2197 or email <mailto:jandreas@wsu.edu>.

The Aquatic Plant Management Society is soliciting proposals for a two-year, \$40,000 Graduate Student Research Grant (GSRG). This grant is awarded biannually to provide for a full-time graduate student to conduct research in aquatic plant or algae management techniques, or in aquatic ecology related to the biology or management of regionally or nationally recognized nuisance aquatic vegetation (macrophytes, algae, or cyanobacteria). Please follow this link for the 2018 GSRG Announcement: <http://www.apms.org/society/graduate-student-research-grant/> <http://www.apms.org/society/graduate-student-research-grant/>
Applications must be postmarked no later than April 15th, 2018. Please address all inquiries to Mark Heilman at markh@sepro.com.

FEDERAL/STATE/PROVINCIAL LEGISLATION, RULES, ACTIONS

State

[WGA's 'Top 50 Invasive Species in the West' offers first regional report \(3/15/18\)](#)

The Western Governors' Association list of the "Top 50 Invasive Species in the West" delivers the first-ever regional assessment of this environmental challenge. The compilation of terrestrial and aquatic invasive species includes highly-publicized examples such as cheatgrass, quagga mussels, tamarisk and the Emerald Ash Borer. The list also encompasses less well known, but still impactful, examples such as leafy spurge, Red shiner, Russian knapweed and Golden algae. ([Download the complete list](#))
Related: [Feral cats make Western Governor's list of invasive species \(3/15/18\)](#)

[\[Colorado\] State surplus packaged in roads, schools \(3/30/19\)](#)

...Sonnenberg's idea is to amend [House Bill 1338](#) to start paying back some of the hundreds of millions of dollars in severance tax money that state borrowed to shore up the budget in recession years. Sonnenberg's amendment will deal with more than just that money; he also wants to be sure there's enough in the fund to avoid charging boat owners a fee for inspections for zebra mussels. That's another measure — [House Bill 1008](#) —

that's awaiting final debate and a vote in the Senate. The measure would charge boaters between \$25 and \$50 for a stamp that would cover the cost of inspections at state waterways, such as Green Mountain Reservoir in Summit County, where a zebra mussel was found last year...

[\[Hawaii\] Bill would create Invasive Species Authority \(3/14/18\)](#)

A bill that would dissolve the state Invasive Species Council to create an administrative body with greater authority to manage invasive species passed all but one committee in the state Legislature. [Senate Bill 2399](#) would restructure the Hawaii Invasive Species Council into the Invasive Species Authority, granting it greater authority and resources to carry out the state's biosecurity plan.

Related: [Hirono Announces \\$3.7 Million in Federal Funding to Fight Invasive Species, Support Hawaii Agriculture \(3/22/18\)](#)

[\[California\] AB 2470, as introduced, Grayson. Invasive species: Greenhouse Gas Reduction Fund.](#)

This bill would establish the Invasive Species Council of California, composed as prescribed, to help coordinate a comprehensive effort to exclude invasive species already established in the state. The bill would establish a California Invasive Species Advisory Committee to advise the council on a broad array of issues related to preventing the introduction of invasive species and providing for their control or eradication, as well as minimizing the economic, ecological, and human health impacts that invasive species cause. The bill would transfer \$10,000,000 from the Greenhouse Gas Reduction Fund to the Invasive Species Fund this bill would establish in the State Treasury. The money in the Invasive Species Fund would be continuously appropriated to the council for the purposes of funding invasive species projects that reduce greenhouse gas emissions, thereby making an appropriation. The bill would appropriate from the Greenhouse Gas Reduction Fund \$2,000,000 to be available to the University of California for invasive species research and outreach that reduces greenhouse gas emissions and is coordinated with the council and recommended by the committee.

Executive

Congressional

BUDGET NEWS

[House Appropriations Committee: Government-Wide FY 2018 Funding Legislation Released \(3/21/18\)](#)

Appropriations Committee Chairman Rodney Frelinghuysen made the following statement on the legislation: “This Omnibus Appropriations bill represents thousands of hours of work, consideration, and input by Members of Congress. These 12 bills were considered and amended in Committee and on the House floor in an open and inclusive process last year, and have been negotiated in good faith by Committee leaders, House and Senate Leadership on both sides of the aisle, and the White House.

For the text of the legislation and the bill reports go to <http://docs.house.gov/floor/>.

Some AIS highlights:

CORPS OF ENGINEERS

Energy and Water Development and Related Agencies Appropriations Act, 2018-
[\[Division D\]](#)

Page 2: 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 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 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.

Page 12, 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 Water Resources Reform and Development Act of 2014, and related monitoring.

BUREAU OF RECLAMATION

EDITORS NOTE: According to the Energy and Water Appropriations Development Act - [\[Division D\]](#)

“This explanatory statement, while repeating some report language for emphasis, does not intend to negate the language and allocations set forth in House Report 115-230 and Senate Report 115-132 and that direction shall be complied with unless specifically addressed to the contrary in the accompanying bill or explanatory statement. Additionally, where this explanatory statement states that the "agreement only includes" or "the following is the only" direction, any direction included in the House or Senate report on that matter shall be considered as replaced with the direction provided within this explanatory statement. In cases where the House or the Senate has directed the submission of a report, such report is to be submitted to the Committees on Appropriations of both Houses of Congress. House or Senate reporting requirements with deadlines prior to or within 15 days of the enactment of this Act shall be submitted no later than 60 days after the enactment of this Act. All other reporting deadlines not changed by this explanatory statement are to be met.”

Therefore, quagga/zebra mussel prevention looks to be funded at the level in the FY 2018 House of Representative report language for the Bureau of Reclamation, see [07.12.17 FY2018 Energy and Water Development Appropriations Bill - Full Committee Report](#):

Page 73 Quagga and Zebra Mussels: The Committee is aware of the environmental and economic threat posed by invasive quagga and zebra mussels. Mussel infestations at Reclamation reservoirs can increase significantly the costs of operation of dams, power plants, pumping plants, and other water infrastructure. Reclamation and its federal, state, and local partners have undertaken many varied actions to combat the spread of these species, including support for watercraft inspection and

decontamination where appropriate. In fact, the fiscal year 2018 budget request includes an increase of \$4,388,000 for this purpose. The Committee encourages Reclamation to continue its efforts in cooperation with its partners to prevent the spread of quagga and zebra mussels.

DEPARTMENT OF INTERIOR
(USFWS, USGS, NPS)

[Division G-Department of the Interior, Environment, and Related Agencies](#)

DOI, Page 3: Invasive Species.-The Department of the Interior is directed to provide a written report to the Committees within 180 days of enactment of this Act, detailing the funds appropriated and expended, actions taken, and outputs achieved for the early detection of and rapid response to invasive species, as prescribed in the National Invasive Species Council Management Plan, 2016-2018.

USFWS, Page 18: Aquatic Invasive Species.-The agreement includes \$21,748,000 for aquatic invasive species programs, of which: \$1,000,000 is to help States implement plans required by the National Invasive Species Act (NISA); \$1,566,000 is for NISA coordination; \$3,088,000 is to implement subsection 5(d)(2) of the Lake Tahoe Restoration Act; \$10,400,000 is for controlling Asian carp in the Mississippi and Ohio River Basins and preventing them from entering and establishing in the Great Lakes, including \$2,000,000 to expand and perfect the combined use of contract fishing and deterrents to extirpate Asian carp, including grass carp, where already established; and \$2,000,000 is to prevent the spread of quagga and zebra mussels.

USFWS, Page 19: The Committees support efforts to address threats to aquatic invasive species and direct the Service to continue to make available competitive grant funding for projects to eliminate invasive species, including Asian carp, quagga and zebra mussels, and variable-leaf watermilfoil. The Service should continue to support research, monitoring, and mitigation efforts, as well as efforts to disseminate such work, in all regions.

National Park Service, Page 24: Quagga and Zebra Mussel Control. -The Committees remain concerned about the spread of quagga and zebra mussels in the West and have provided \$3,000,000 for continued containment, prevention, and enforcement efforts.

USGS, Page 30: The agreement also includes an increase of \$500,000 from within available funds to address white-nose syndrome in bats. The Committees are aware of the work the Survey is performing in critical landscapes such as the Arctic, Puget Sound, California Bay Delta, Everglades, Great Lakes, Columbia

River, and the Chesapeake Bay, and expect this work to continue. The Terrestrial, Freshwater, and Marine Environments program is funded as reported in House Report 115-238, and species-specific fisheries and Asian carp funding are maintained at fiscal year 2017 enacted levels. The Committees understand certain programs are nearing completion; therefore, the Survey is directed to report back to the Committees within 180 days of enactment of this Act on anticipated balances of such programs.

[Spending bill keeps \\$300M for Great Lakes cleanup \(3/21/18\)](#)

A must-pass bill to keep the federal government running through September would fully fund the Great Lakes cleanup program targeted for cuts by the White House.

Related: [Congress set to save Great Lakes funds, community block grants \(3/21/18\)](#)

[Spending bill rejects Trump effort to gut water cleanups \(3/24/18\)](#)

[The Great Lakes, the budget, and you \(3/26/18\)](#)

[PNWER: Federal budget allocates \\$5 million to Prevent Aquatic Invasive Mussels in Pacific Northwest \(3/23/18\)](#)

Efforts within the Pacific Northwest to defend against invasive quagga and zebra mussels were given a major boost this week as Congress appropriated \$5 million within the federal omnibus budget for watercraft inspection stations in Washington, Oregon, Idaho, and Montana. The federal funds, administered by the U.S. Army Corps of Engineers, will require a one-to-one funding match with the states. The funding also includes an additional \$1 million for control of invasive flowering rush.

[\[Montana\] \\$1.8 Million Slated For Mussel Monitoring \(3/30/18\)](#)

The omnibus spending bill that Congress passed last week includes funding for Montana's fight against aquatic invasive species. Within the \$1.3 trillion bill, \$5 million is appropriated for watercraft inspections and mussel monitoring in Montana, Idaho, Washington and Oregon. An additional \$1 million will go to controlling the spread of flowering rush, an invasive water plant. Montana will receive about \$1.8 million of these funds, said Kate Wilson, invasive species outreach coordinator for the Montana Department of Natural Resources and Conservation.

[\[NMMA\] Omnibus legislation includes recreational boating wins \(3/27/18\)](#)

...The package also includes a number of provisions aimed at combating aquatic invasive species (AIS), including: Requiring a new Department of the Interior report on actions and achievements with regard to AIS prevention efforts. \$21.748M for AIS programs including \$1M to help states implement plans required by the National Invasive Species Act, and \$2M to prevent the spread of quagga and zebra mussels...

[Bipartisan Support for RAWA Grows As 36 Lawmakers Co-Sponsor Bill \(3/22/18\)](#)

Thirty-six U.S. lawmakers signed on to support Recovering America's Wildlife Act (RAWA) [[Full text of HR 4647 here](#)] this past week.

Related: [Reversing America's Wildlife Crisis—Securing a Future for our Fish and Wildlife \(3/29/18\)](#)

TRAININGS, WEBINARS, CONFERENCES AND MEETINGS

Recently Archived

If you didn't get a chance to attend the recent Noxious Weed Forum featuring water primrose and yellow floating heart, pdf versions of all of the presentations are now available on the Oregon Department of Agriculture website at <http://www.oregon.gov/ODA/programs/Weeds/Meetings/Pages/WeedForums.aspx>.

Events: Webinars, Trainings, Conferences and Meetings

[California] FREE Aquatic Invasive Species Prevention Workshops

San Jose Date: Wednesday, April 4th, 2018; Sacramento, Date: Thursday, April 12, 2018; Sausalito Date: Wednesday, June 13th, 2018. To register, please contact Vivian Matuk at (415) 904-6905 or vmatuk@coastal.ca.gov

WIT II Spring 2018 ANNOUNCEMENT

The Pacific States Marine Fisheries Commission and its 100th Meridian Initiative partners are sponsoring Watercraft Inspection and Decontamination Trainings (WIT II) the following dates:

4/10 – 4/11, 2018 Lake Mead WIT II

5/9 - 5/10, 2018 Castaic Lake WIT II

6/5 - 6/6, 2018 LA Dept of Water & Power, Bishop, CA

Openings are limited!!! Availability will close when a class becomes full.

APRIL

Washington State University College of Agricultural, Human, and Natural Resource Sciences is hosting a [Palouse and Panhandle Region Invasive Species and Exotic Pest Workshop](#) on April 3, 2018 in Pullman, WA. At this workshop, we will be talking about priority pests significant to the region such as feral swine, northern pike, spotted wing drosophila, key weed species, exotic wheat pests and pathogens. The workshop is co-hosted by the Washington Invasive Species Council, and is funded by the US Department of Agriculture. Certified Pesticide Applicators and crop advisors may earn up to 5 Washington or Idaho re-certification credits (pending approval).

[2018 Salish Sea Ecosystem Conference](#) Ecosystem Recovery in a Transboundary System. April 4th-6th, at the Washington State Convention Center in Seattle, Washington.

Request for Abstracts: 9-13 April 2018 NWT Pests, Pathogens and Invasive Species Symposium
Location: Yellowknife, NWT, Canada Venue: Explorer Hotel Dates: April 9-13, 2018 For more information please contact: Heather Fenton : Pest and pathogen section (heather_fenton@gov.nt.ca); Suzanne Carriere: Invasive Species section (suzanne_carriere@gov.nt.ca); Claire Singer: Organizer (claire_singer@gov.nt.ca)

[Columbia River Estuary Conference 2018](#), Promoting Resiliency Under Shifting Environmental Conditions April 10-12, 2018 • Liberty Theater • Astoria, Oregon

[Pacific Ballast Water Group \(PBWG\)](#) will meet April 11-12, 2018 (Wednesday/Thursday) at the Crowne Plaza Seattle Airport, WA. We anticipate the meeting starting at 10:00 am on 4/11 and ending early/mid afternoon 4/12. For more information: mailto:sphillips@psmfc.org

[Lake Roosevelt Forum 2018 Conference](#): April 24 & 25, 2018 The Historic Davenport Hotel, Spokane, Washington. Alaska Department of Fish and Game to provide conference keynote Kristine Dunker and Parker Bradley with the Alaska Department of Fish and Game (ADFG) will provide a conference keynote, “Northern Pike: The Unwelcome Invader,” on April 24th.

MAY

The Pacific Northwest Invasive Plant Council (PNW IPC): Citizen Science Early Detection Rapid Response Invasive Plants Training. Please join us at one of the training sessions below to learn to identify priority invasive plants, record basic data, and report findings.

- Seattle, WA, Monday, May 7, 6:00pm-8:30pm; Address: The Mountaineers Program Center, 7700 Sand Point Way NE, Seattle WA 98115
- Bellingham, WA, Friday, May 11, 1:00pm-3:30pm Address: Whatcom County Noxious Weed Control Board, 322 N. Commercial St., Suite 110, Bellingham WA 98225
- Sandy, OR, Friday, May 18, 9:00am-11:30am Address: Mt. Hood National Forest Headquarters, 16400 Champion Way, Sandy, OR 97055
- North Bend, WA, Sunday, June 3, 12:30pm-4:30pm (includes a bonus field training) Address: Snoqualmie District North Bend Ranger Station, Meeting Hall (behind Ranger Station), 902 SE North Bend Way, North Bend, WA 98045
- Randall, WA, Thursday, June 14, 9:30 am – 2:30 pm (includes a bonus field training) Address: Cowlitz Valley Ranger Station, 10024 US Highway 12, Randle, WA 98377

RSVP to Andrew Fraser at mailto:info@pnw-ipc.org to reserve your place, or register at kingcounty.gov/weeds ; (sign up for “Trail weed watcher training” under Classes for all King County Classes)

[Planning & executing successful rotenone & antimycin projects](#); For biologists who manage the planning and execution of rotenone or antimycin projects May 14-18, 2018 Utah State University, Logan

The East Kootenay Invasive Species Council 2018 Annual General Meeting, Save the date: Thursday, May 17th from 1 pm to 4 pm at the Manual Training Center in Cranbrook, BC For more information contact info@ekisc.com

[Stop The Invasion: Weed Management 101. Hood River, OR May 19.](#) The Columbia Gorge CWMA, the Washington Invasive Species Council, and Washington State University Extension are co-hosting a fantastic opportunity to learn about invasive species in the Columbia River Gorge. We will be teaching identification and control methods for dealing with pesky common weeds, as well as reporting methods for high priority invasive problems. We'll also be learning about important diseases and bugs.

Save the Date: Peer to Peer Field-Based Workshop Focused on Managing Aquatic Invasive Plants, May 22, 2018, Benton County, OR. Join fellow WAIN members for a field trip to visit several project sites where they are addressing aquatic invasive species. Learn more about their approach, treatment details, lessons learned and more. If you would like to participate in this committee or learn more, contact marci@willametteriverkeeper.org.

JUNE

The next meeting of the 100th Meridian Initiative Columbia River Basin Team will take place in Portland Oregon at the [Sheraton Portland Airport Hotel](#), **June 5-7 2018**. We are anticipating at least one day to be dedicated to the Columbia River Basin Dreissenid Monitoring Forum. Stay tuned !!! An announcement will be sent out on this list serve in the next few weeks.

[Oregon Invasive Species Council](#) June 19-20, 2018 | Bandon

AUGUST

Save the Date: [2018 Invasive Species Cook-off Saturday](#), August 11, 2018 | 5-8 pm Philomath, OR.

[The American Fisheries Society 148th Annual Meeting August 19-23 Atlantic City, New Jersey.](#) Symposium: Competing Mandates of Managing for Introduced Fishes; Balancing Stakeholder Needs We are actively soliciting participants to give an oral presentation for this symposium. Please contact Bill Stewart (wstewart@usbr.gov) before March 31, 2018 if you are interested in contributing to this symposium. Final abstracts are due April 3, 2018. If you are selected to present in this symposium, submit your abstract using the following link and provide the symposium title

OCTOBER

Please join the Montana Invasive Species Council (MISC) for its 2nd [Invasive Species Summit](#) October 3-4, 2018.

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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 Abstract Submission Is Open. **Deadline to Submit an Abstract for Presentation: Wednesday, April 11, 2018 at 11:00pm Central**

The Society for the Study of Marine Bioinvasions and the Grupo de Ecología en Ambientes Costeros invites you to participate in the [10th International Conference on Marine Bioinvasions \(ICMB-X\)](#), in Puerto Madryn (Patagonia Argentina, between the 16-18 October 2018).

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

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 •If you would like to suggest a presentation topic or would like to present, reach out with your idea to <mailto:leah@stopais.org>

NOVEMBER

[21st Ballast Water Management Conference](#). November 7th - 8th 2018, Rotterdam - The Netherlands

DECEMBER

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>.

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