



## AQUATIC INVASIVE SPECIES NEWS

07/10/2019

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### RECOMMENDED READING-WATCHING

Dogs With Extraordinary Jobs Episode 5: K-9 Mussel Detectors  
<https://we.tl/t-gaBKZ5fRzJ> [download to view]

### PUBLIC COMMENT

#### [Walla Walla Corps Issues Draft EA For Flowering Rush Control](#)

The U.S. Army Corps of Engineers' Walla Walla District invites public comments on a Draft Environmental Assessment for flowering rush control in the states of Washington, Idaho, Oregon and Montana. **Comments will be accepted June 24, 2019 through July 24, 2019.**

Flowering rush is an invasive aquatic weed species. The Corps proposes to share flowering rush treatment costs with the Pacific States Marine Fish Commission to treat infestations on non-federal lands. The goal of treatment is to prevent and/or minimize the impacts of flowering rush invasion on habitat, irrigation and recreation. The aim is to eradicate known and future flowering rush populations and provide continued subsequent control at a much-reduced effort.

The Corps participation in this project is authorized under Section 1039(d) of the Water Resources Reform and Development Act of 2014 (Public Law 113-121) and Section 1178 of the Water Infrastructure Improvements for the Nation Act of 2016 (Public Law 114-322).

The EA is available for viewing or downloading on the Walla Walla District website at

<https://www.nww.usace.army.mil/Missions/Environmental-Compliance/>

The Corps will accept public input **June 24, 2019 through July 24, 2019**. All information and comments submitted will be included in the permanent public record. Public comments may be submitted electronically to the Corps using the online comment form on the webpage, or via email NEPANWW@usace.army.mil — type “Flowering Rush EA” in the subject line.

### Draft Canada Ballast Water Regulations

Canada is a party to the International Convention for the Control and Management of Ships' Ballast Water and Sediments, 2004. Transport Canada has been developing regulatory amendments to give effect to the Convention in Canada and further address the introduction and spread of aquatic invasive species through ballast water.

I am pleased to inform you that the draft Ballast Water Regulations are part of the June 8, 2019 edition of the Canada Gazette, Part 1, which is now available online. The draft regulations can be found at: <http://www.gazette.gc.ca/rp-pr/p1/2019/2019-06-08/html/reg4-eng.html>

Public comments will be accepted until **September 5, 2019**. We invite you to review the draft regulations and look forward to receiving your views. The procedure for submitting your comments is set out in the Gazette.

### MISC seeking comment on rapid response plan (6/4/19)

The Montana Invasive Species Council (MISC) is seeking public comment on draft guidelines for the state's response to detections of emerging invasive species.

Rapid response to invasive species is a focused, resource-intensive management effort intended to prevent the target species from establishing or spreading. It is carried out to avoid future management costs created by invasive species that harm Montana's communities, businesses, and environment.

...

The public comment period ends on **August 13, 2019**. Public comment can be submitted electronically to Stephanie Hester, Council Coordinator, at shester@mt.gov or by mail to DNRC, CARDD, PO Box 201601, Helena, MT 59620.

[\[Draft Response Guidelines Here\]](#)

## NEW SPECIES SIGHTINGS

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Want to get more new species alerts?

USGS NAS: <https://nas.er.usgs.gov/AlertSystem/default.aspx>

IMAP INVASIVES: <https://www imapinvasives.org>

## DRESSENIDS

Iowa:

### [Zebra mussels found in Crystal Lake \(6/25/19\)](#)

The Iowa Department of Natural Resources (DNR) is closely monitoring Crystal Lake for zebra mussels after recent discoveries of juveniles in a water sample and two individuals on a sampling plate used to monitor for zebra mussels. No adult zebra mussels were found during a follow-up survey... “Finding zebra mussel veligers and a couple individuals at the boat ramp shows us that zebra mussels have been introduced into Crystal Lake,” said Kim Bogenschutz, the DNR’s Aquatic Invasive Species Program coordinator. “It’s still too early to tell though if there is an established population in the lake.” [\[USGS NAS Report\]](#)

Kansas:

### [Zebra Mussels Found in Lyon State Fishing Lake \(7/3/19\)](#)

The Kansas Department of Wildlife, Parks and Tourism (KDWPT) has confirmed the presence of invasive zebra mussels in Lyon State Fishing Lake in Lyon County. Routine samples collected by KDWPT Aquatic Nuisance Species staff to detect zebra mussels were found to contain zebra mussel larvae (also called veligers). Upon finding the veligers, staff returned to the lake and located an established population of adult zebra mussels. Similar sampling is conducted by KDWPT at more than 100 waterbodies across the state.

## OTHER AIS

California: [Pectinatella magnifica](#) (magnificent bryozoan) was found in Butte Creek, [Sutter, CA](#). [\[USGS NAS Record\]](#)

Hawaii: [Trachemys scripta \(Pond Slider\)](#) was found in Kauai, HI. [\[USGS NAS Record\]](#)

Louisiana:

### [Louisiana asks public help with invasive Asian swamp eels \(6/29/19\)](#)

An invasive species of swamp eel has been found in New Orleans, and a state biologist says it's the first time this species has been found in the United States. Investigators don't know whether the Asian swamp eels were released accidentally or on purpose in Bayou St. John, said Robert Bourgeois, aquatic nuisance species coordinator for the Louisiana Department of Wildlife and Fisheries. They might have been released from an aquarium or for food, he said.

Minnesota:

### [4 invasive carp confirmed in Minnesota waters \(6/21/19\)](#)

The Minnesota Department of Natural Resources has confirmed the capture of a bighead carp and two silver carp, and detection of a third, tagged silver carp, within the past several weeks... Frohnauer noted that while the DNR continues to be very concerned about the potential impacts of invasive carp in Minnesota waters, individual adult fish

captures do not indicate reproduction or an established population of invasive carp in the Mississippi River or elsewhere in the state.

Montana:

[\[Montana\] Invasive Asian clams found in Lake Elmo during training session on detecting invasive species \(6/28/19\)](#)

...Several Asian clam shells were found near the Lake Elmo State Park boat ramp during a training session on early detection of aquatic invasive species. Representatives of several agencies and organizations that manage water in the region participated in the training. During the hands-on training, class participants from FWP found shells that they suspected were from Asian clams. The shells were sent to mollusk experts for verification. [\[USGS NAS Report\]](#)

## WATCH LIST

Be on the lookout for [Bacopa rotundifolia](#) along the Columbia River. Contact: Mark D. Sytsma (503) 307-6131 [mark.sytsma@pdx.edu](mailto:mark.sytsma@pdx.edu)

Have parrot feather? Professor Rodrigo Diaz (LSU) is looking for reports of parrot feather damage potentially caused by *Phytobius vestitus*. Damage observed in Louisiana in May 2019 included: wilted top, dry tips of plant, and wilted brown stems. Please contact [rdiaz@agcenter.lsu.edu](mailto:rdiaz@agcenter.lsu.edu) for more information and to report damage sightings.

## DREISSENID MUSSELS

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[Seaplane Pilots Testing Invasive Species Education \(7/2/19\)](#)

Pacific Northwest seaplane pilots have pioneered a program that would allow pilots to perform their own invasive species inspections prior to landing in another state's waters rather than requiring state or federal inspectors to perform the examination.

[A tiny creature threatens Utah's \\$1.8 billion Lake Powell pipeline \(6/21/19\)](#)

Utah's push to develop the \$1.8 billion Lake Powell pipeline, held up for years by political wrangling, funding feuds, reams of red tape and massive amounts of paperwork, is now being threatened by a tiny creature: the quagga mussel... Now the noxious shellfish is threatening to gum up permitting for the proposed pipeline after federal regulators demanded the state provide a plan for preventing the line from transporting quagga mussels across southern Utah and infesting waters along the 140-mile route.

Related: [Officials: Plan for quagga mussels just part of process for Lake Powell Pipeline \(6/26/19\)](#)

[\[California\] Supervisors, residents unhappy with timeline to reopen San Justo Reservoir \(7/1/19\)](#)

As a best case scenario, it would take five years to eradicate zebra mussels and reopen the San Justo Reservoir for recreational use, according to a presentation by the Bureau of

Reclamation at the Board of Supervisors meeting on June 25. That is, however, if funding is approved today to implement the eradication plan by treating the reservoir and pipe system with potassium. Supervisor Jaime De La Cruz pointed out that obtaining funding takes about two years, putting the overall timeline at seven years. Bureau of Reclamation deputy area manager Duane Stroup said that as of June 25 there was no funding to deal with the mussels. He also stated he was legally prohibited from speaking further about funding.

[\[Texas\] Dozens report slicing skin on zebra mussels in Lake Travis \(7/2/19\)](#)

The Travis County Parks Department is issuing a zebra mussel warning for holiday lake-goers, but it's more than the routine plea to clean, drain and dry all watercraft. Dozens of people have reported slicing their hands and feet on sharp zebra mussel shells after getting in the water. "I wear shoes when I swim," says Lake Travis boater Tom Harsh. He's all too familiar with the rapidly growing problem. "The big ones will cut you fast--even our dogs... we're really worried about our dogs, too," he explains after coming across large, sharp zebra mussels at the Lake Travis hangout known as Sometimes Island.

[Invasive mussels challenge commercial whitefish fishing in the Great Lakes \(6/24/19\)](#)

For Purvis and the dwindling number of Great Lakes commercial whitefish fishers, the fishery has fallen on hard times. Whitefish have been in decline across much of lakes Michigan and Huron, and many scientists and fishers suspect part of the reason is linked to the effects the mussels have had on the lake's food web...

[\[Manitoba\] Zebra mussel fight complicated for boaters \[editorial\] \(6/24/19\)](#)

... But if we treated zebra mussels (and their relative, quagga mussels, which have less difficulty breeding in cold climates) like a measles outbreak, we'd look at ramping up safe conditions via widespread decontamination, and stop the vectors of the pests' spread — by measures that essentially amount to a watercraft quarantine. If Manitobans aren't ready to pay that price, we might have to live with the consequences of doing nothing...

[\[British Columbia\] Invasive species council gets funding for mussel testing: East Kootenay Invasive Species Council to sample over 10 regional lakes for Zebra and Quagga mussels \(7/2/19\)](#)

Grant funding has come in for a regional conservation organization dedicated to mitigating invasive species across the East Kootenay. The East Kootenay Invasive Species Council will be sampling more than 10 lakes in the region for the presence of Zebra and Quagga mussels, thanks to \$17,305 in funding from the Habitat Conservation Trust Foundation in partnership with the Ministry of Environment and Climate Change Strategy.

[Of 'Great' Concern – Egan: Author, Reporter Discusses Lake Hazards at Chautauqua \(6/27/19\)](#)

In the opening week of the Chautauqua Institution's 2019 season, Dan Egan discussed his concerns with lake pollution and ongoing issues in the Great Lakes. "They're more than lakes," Egan said Wednesday from the Amphitheater stage at Chautauqua Institution. Egan, an author and journalist, recently penned the book, "The Death and Life of the Great Lakes." Accompanied by Emily Morris, institution vice president of marketing and

communications and chief brand officer, Egan discussed his book and the impacts of invasive species like mussels and algal blooms have on the Great Lakes.

[Scientific Publication] Benjamin J. Schall. 2019. [Evaluation of Portable Water Filtration Systems to Reduce the Transport Risk of Zebra Mussels and Asian Clams during Fish Spawning and Trap-and-Transfer Operations](#). North American Journal of Aquaculture. <https://doi.org/10.1002/naaq.10093> [Full text \$\$]

[Scientific Publication] Eva C. Enders, Colin Charles, Amanda L. Caskenette, Tyana A. Rudolfsen and Doug A. Watkinson. 2019. [Distribution patterns of the early invasion of zebra mussels, \*Dreissena polymorpha\* \(Pallas, 1771\), in the south basin of Lake Winnipeg](#). BioInvasions Records. Vol 8. (pp 329-342)

[Scientific Publication] Adam J. Sepulveda, Jon J. Amberg and Erik Hanson. 2019. [Using environmental DNA to extend the window of early detection for dreissenid mussels](#). Management of Biological Invasions. Vol 10 (pp 342–358)

[Scientific Publication] Katrina M. Pagenkopp Lohan, Tracy L. Campbell, Jinchen Guo, Melinda Wheelock, Ruth A. DiMaria and Jonathan B. Geller. 2019. [Intact vs. homogenized subsampling: testing impacts of pre-extraction processing of multi-species samples on invasive species detection](#). Management of Biological Invasions. Vol 10 (pp 324–341)

## BOAT INSPECTION/DECON/TECH NEWS

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### [\[Montana\] Local Firm Aims To Launch Pilot Study For Tech Device \(6/28/19\)](#)

One cliche suggests that attached to every crisis is an opportunity. That's how entrepreneur and boater Rod Shaw reacted in 2016 to a temporary ban of private boating in Glacier National Park, a ban tied to concerns about the potential for introduction of aquatic invasive species to waters in the park...Today, the effort to stop infestation relies in large part on inspection stations. There, staffers interview watercraft owners and inspect their boats. In some ways, the system depends on honest reporting from the owner of a watercraft about where it's been. When the stations are closed, boaters pass by without inspection. The company that emerged from Shaw's consideration of all these circumstances is AIS Solutions, based in Columbia Falls. AIS Solutions has developed a small tracking device the company contends could be a boost for efforts to keep invasive species out of Flathead Lake, Whitefish Lake, Swan Lake, Seeley Lake, Lake McDonald, Little Bitterroot Lake and the plethora of other lakes in the region.

### [\[Montana\] The fight is on: Battling invasive species in Montana waters \(7/1/19\)](#)

Last year, the Anaconda inspection station, operated by Fish, Wildlife and Parks, caught half of the aquatic invasive species found on watercraft traveling in Montana, said Tom Woolf, FWP aquatic invasive species bureau chief. The Anaconda station found eight of the 16 boats carrying aquatic invasive species. Woolf said that highlights the fact that many of the boats are coming from the Great Lakes in the Midwest. The boaters hit

Montana in the middle of the night, and don't encounter an inspection station that is open until the driver arrives at the Anaconda station.

Related: [Bullock spotlights importance of aquatic invasive species inspections \(7/6/19\)](#)

#### [\[Idaho\] ISDA offers tips on preventing invasive species on watercrafts \(7/7/19\)](#)

The ISDA operates 20 watercraft inspection stations positioned at important corridors into Idaho. The program also includes six roving inspection teams. Law enforcement officers also play a role in the watercraft inspection program and have turned back nearly 1,000 vehicles traveling with boats or watercrafts. "We've worked hard on this program but we certainly haven't worked alone," said ISDA Director Celia Gould. "We are very grateful for committed cooperators, law enforcement service, strong legislative backing, and the support of important partners such as Idaho Power. A collaborative approach is the only option for a threat of this magnitude."]

#### [\[Utah\] New Quagga Mussel Inspection Stations/Enforcement \(6/28/19\)](#)

The quagga situation at Lake Powell has worsened this season. Rising lake levels have caused previously exposed mussels to dislodge and float in the water. This change means significantly more boats are leaving Lake Powell with mussels and shells onboard their vessels, sucked into sea strainers, on anchors, and in compartments compared to last year. As a result, it's critical all boats leaving the lake be inspected

#### [\[Colorado\] Invasive mussels intercepted at Ruedi boat ramp \(7/2/19\)](#)

Four boats carrying invasive quagga mussels have been intercepted at Ruedi Reservoir. The mussels were recognized by Ruedi Boat Inspection Program staff, according to a press release sent out by the Ruedi Water and Power Authority. All four boats had come from Lake Powell and Colorado Parks and Wildlife were alerted to supervise decontamination of the boats. The owners of all boats were cooperative, according to the release, and the vessels were allowed to enter the reservoir after being decontaminated.

#### [\[Colorado\] Standley Lake may be one step closer to allowing trailered boats back on the water \(7/8/19\)](#)

Task force endorses solutions that could get trailered boats back on Standley Lake in Westminster in 2020.

#### [\[Minnesota\] \\$100 reward for leaving dock or boat lift additional days \(6/28/19\)](#)

Since July 2012, Minnesota law states that any boat lift, dock, swim raft or associated equipment that has been removed from any water body may not be placed in another water body until a minimum of 21 days have passed. Now people moving or selling those items can be rewarded \$100 just for leaving a dock or boat lift out just nine extra days for a total of 30 days on land (the dock or boat lift must have been in the water in the current open water season). The program runs each year from June 1 through Nov. 30.

#### [A Clean Sweep for Invasive Mussel Biofouling \(7/1/19\)](#)

...For Dickerson, the payoff [of installing HOD UV at Parker Dam] has been huge. Despite needing an initial optimization phase, within the first year, biofouling-related maintenance of the coolers was reduced by 75%, and it was virtually eliminated in the

second and third years. And more significantly, “We have not experienced any outages or degeneration due to quagga mussels since the installation,” he said...

[Scientific Publication] Justin Willson and Ann Lambert. 2019. [Assessing Materials’ Short-term Effectiveness on Controlling Zebra Mussel \(\*Dreissena polymorpha\*\)](#). Journal of Emerging Investigators. [pdf]

## BALLAST WATER/BIOFOULING

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### [Why ballast water regulations are a headache for the offshore industry \(6/28/19\)](#)

Ballast water management systems are compulsory on self-propelled craft and should be retrofitted to OSVs, but the offshore industry appears slow to meet the required regulations. Ballast water management systems are compulsory on self-propelled craft and should be retrofitted to OSVs, but the offshore industry appears slow to meet the required regulations. As of 8 September 2019, IMO’s Ballast Water Convention will be extended to cover existing vessels as well as new buildings. On that date all offshore vessels will be required to comply by the time of their first International Oil Pollution Prevention Certificate (IOPPC) renewal following that date. This is the final stage of a decades-long process of complex negotiations between IMO member states.

### [Ballast Water Update: Weighing the Advent of VIDA \(6/28/19\)](#)

The hard-fought passage of VIDA promises a simpler, more unified and logical set of environmental standards related to the discharge of myriad vessel streams. Industry wanted it, and now it is here. Will it deliver, and if so, when? That depends on who you talk to.

### [Biofouling: Aliens in the Baltic Sea \(6/25/19\)](#)

Largely due to a global increase in international maritime traffic, biofouling is estimated to be responsible for more than half of coastal and estuarine species invasions worldwide. In the Baltic Sea, NIS pose a serious threat. Compared to other seas, the Baltic’s ecosystem is rather fragile due to its semi-enclosed nature and relatively low amount of species. As shown with the round goby, a fish thought to be introduced through ship ballast water from the Ponto-Caspian region, the introduction of alien species can lead to irreversible changes in the marine environment.

### [GloFouling Gets Going in Pacific \(7/2/19\)](#)

The initial phase of the GloFouling Partnerships project is now well and truly underway with a series of technical workshops in the Pacific, stated International Maritime Organization (IMO). The UN body said that the key message delivered to participants was that once introduced, marine invasive species can be hard to eradicate - and invasive species represent a potential major threat to the Pacific Ocean's biodiversity and the ecological integrity of Small Island Developing States.

### [Marine Safety Center issues Ballast Water Management System Type Approval Certificate to Cathelco \(6/25/19\)](#)

The Marine Safety Center issued the 20th Coast Guard Ballast Water Management System Type Approval Certificate to Cathelco Ltd, after a detailed review of the manufacturer's type approval application determined the system met the requirements of 46 CFR 162.060.

[Marine Safety Center receives new application for ballast water management system type-approval \(6/27/19\)](#)

The Marine Safety Center received its 26th application for type approval for the Blue Ocean Shield Ballast Water Management System manufactured by COSCO Shipbuilding Industry Co., Ltd.

[Evac Evolution BWMS gains USCG Type Approval \(6/27/19\)](#)

The Evac Evolution ballast water management system (BWMS) has received Type Approval from the U.S. Coast Guard. The system is manufactured by Evac's Cathelco subsidiary which attained USCG Alternate Management Systems (AMS) acceptance for its original BWMS over four years ago. When it became apparent that the USCG's definition of "non-viable" would become the universal standard for testing ballast water treatment systems, Cathelco redesigned its equipment and embarked on another round of land-based and shipboard testing which was successfully completed last fall.

[The High Environmental Costs of Cruise Ships \(7/1/19\)](#)

...Finally, waste discharge, the issue in the Carnival settlement, is a major problem. Cruise ships produce large quantities of sewage, bilge water, ballast water, water from sinks and drains, and solid waste. Most cruises expect their passengers to produce a lot of waste, up to forty liters of sewage and 340 liters of water from sinks, showers, and drains, per person, per day. According to Carić, this amount vastly exceeds average residential wastewater production. United States regulations require sewage treatment on cruise ships, so wastewater is not as harmful as it once was. And many nations have rules regarding offshore exchange of ballast water to prevent the spread of invasive species. But these rules are difficult to enforce outside a nation's jurisdictional waters, and Carić believes that best practices aren't always followed...

[Scientific Publication] Yiseul Kim, Samuel D. Snow, Vanessa Reichel-Deland, Mostafa Maghsoodi, Gabrielle M. Langlois, Volodymyr V. Tarabara and Joan B. Rose. 2019.

[Current status and recommendations toward a virus standard for ballast water.](#) Management of Biological Invasions. Vol 10 (pp 267–284)

[Scientific Publication] M. Pelletier-Rousseau, R. Bernier, C. Clarke Murray, D. Drolet, A. Lacoursière-Roussel, A. Locke, J. L. Martin, C. H. McKenzie, C. W. McKindsey, T. W. Therriault, N. Simard. 2019. [Assessment of recreational boating as a vector for marine non-indigenous species on the Atlantic coast of Canada.](#) Biological Invasions. Volume 21, Issue 7, pp 2447–2470. (Full Article \$\$)

## MARINE

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### [Mexico struggles to understand, solve, seaweed invasion \(6/29/19\)](#)

Mexico has spent \$17 million to remove over a half-million tons of sargassum seaweed from its Caribbean beaches, and the problem doesn't seem likely to end any time soon, experts told an international conference Thursday. The floating mats of algae seldom reached the famed beaches around Cancun until 2011, but they're now severely affecting tourism, with visitors often facing stinking mounds of rotting seaweed at the waterline.

[Scientific Publication] Elizabeth J. Cottier-Cook, Dan Minchin, Rebecca Giesler, Jennifer Graham, Andrew M.O. Mogg, Martin D.J. Sayer and Iveta Matejusova. 2019. [Biosecurity implications of the highly invasive carpet sea-squirt \*Didemnum vexillum\* Kott, 2002 for a protected area of global significance](#). Management of Biological Invasions. Vol 10 (pp 311–323)

[Scientific Publication] David M. Hudson, Sandi Schaefer-Padgett, Barrett L. Christie and Richard Harris. 2019. [First record of introduction of \*Metacarcinus magister\* Dana, 1852 \(Crustacea: Decapoda: Canceridae\) and range extension of \*Eriocheir sinensis\* Milne-Edwards, 1853 \(Crustacea: Decapoda: Varunidae\) in the Long Island Sound](#). BioInvasions Records. Vol 8 (pp 400-409)

## AQUACULTURE

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### [Science journal article disputes claims that aquaculture is a sustainable industry \(6/24/19\)](#)

A journal article is suggesting evidence that Ottawa uses to claim aquaculture is environmentally sustainable is sketchy because it lacks detailed, long-term analysis. However, advocates for the industry are suggesting the report in Marine Policy journal lacks credibility itself. Inka Milewski, a research associate in the Department of Biology at Dalhousie University, said Monday her conclusions are partly based on a series of long-term studies of a fish farm in Port Mouton Bay, N.S. She says evidence of an impact on lobster populations and eelgrass in the bay around those pens run counter to a "narrative" found on various federal Fisheries websites that Ottawa manages the industry in "a sustainable way." [\[abstract of article in question\]](#) [\(Full Article \\$\\$\)](#)

### [Cuna del Mar CEO: ‘Window of opportunity’ for US aquaculture bill is closing \(6/25/19\)](#)

Robert Orr, the CEO of US offshore aquaculture-focused investment fund Cuna del Mar, believes the time is now for Congress to pass legislation that would make it easier to maintain offshore aquaculture facilities in federal waters because, he fears, the "window of opportunity" is closing. "I think if they don't do something in the next 12 to 18 months, they're going to lose another decade," he told Undercurrent News in a recent interview. "It doesn't mean it's now or never but the US is going to be substantially behind other areas of the world that are moving much quicker toward sustainable aquaculture or any other kind of aquaculture set up," he said.

## FISH

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### [\[Washington\] Editor's Notebook: Don't Wait for More Reports to Gear Up For Intensive Pike Suppression, Rapid Detection \(6/27/19\)](#)

What's the economic cost to the region if invasive, voracious northern pike find their way out of Lake Roosevelt and downstream into the Columbia River mainstem, and into salmon and steelhead spawning beds in its tributaries? About \$16 billion. Ok, maybe that's an exaggeration. But \$16 billion is, at the least, how much the region has spent on salmon and steelhead recovery in the last 30 years.

### [\[Montana\] Anglers Required To Turn In Northern Pike from Lake Mary Ronan \(6/27/19\)](#)

The Montana Fish and Wildlife Commission on June 19 approved an emergency regulation change that requires anglers to turn in any Northern Pike caught in Lake Mary Ronan. Effective immediately, all Northern Pike caught must be killed immediately, kept and the entire fish submitted to Montana Fish, Wildlife & Parks. Anglers who catch Northern Pike in Lake Mary Ronan are required to report the catch to FWP within 24 hours (406-752-5501). Anglers must turn in the whole Northern Pike to a FWP office within 10 days of capture. Edible portions of the fish may be returned to the angler upon request.

### [\[Montana\] Westslope Cutthroat Trout and Bull Trout Preservation in the Upper Camas Drainage - Environmental Assessment.](#)

Glacier National Park is proposing to use rotenone, a fish toxicant, to remove non-native Yellowstone cutthroat trout from Lake Evangeline, Camas Lake, and Camas Creek upstream of Arrow Lake in the Upper Camas drainage. Following the removal of the Yellowstone cutthroat trout, native westslope cutthroat trout and bull trout would be translocated (i.e. stocked) into the lakes. This would be done to establish a native fish assemblage that is secure against the threats of non-native fish and climate-related habitat degradation. The proposed action is evaluated in the Westslope Cutthroat Trout and Bull Trout Preservation in the Upper Camas drainage Environmental Assessment (EA)

Related: [\[Montana\] Park Service Approves Plan To Purge Non-Native Fish In Montana's Upper Camas Drainage; Will Restock Native Cutthroat, Bull Trout \(6/26/19\) \[ \\$\\$ \]](#)

### [The Aquarium Trade: Fish Conservation Friend or Foe? \(6/24/19\)](#)

Walking through a pet store, it's easy to be mesmerized by walls of stacked aquaria filled with flamboyant fish – some which may have an even more remarkable backstory. Some fish may have been collected from a river in India, others bred in a facility in the Czech Republic, and some may even be tied to illegal smuggling operations. The big business of the aquarium trade represents about \$15–30 billion annually, and the vast majority (90%) of traded fishes are from freshwater. Of the some 125 countries involved, those in Asia supply 57% of the trade, and top exporting countries include Singapore, Japan, the Czech Republic, Thailand, Malaysia, Indonesia and Israel. The aquarium trade also acts as a double-edged sword for fish conservation, and a recent publication in the journal Fish Biology uses case studies of several species to provide insight into the potential benefits and risks of this market, as well as offering suggestions for creating an aquarium trade

that aids in fish conservation efforts ([Evers et al. 2019, §§](#)).... The aquarium trade has demonstrated the potential to be destructive, having led to over-harvest, habitat destruction, and the introduction of invasive species. But it can also be a powerful tool for conservation by providing valuable income for communities that act as stewards for the environment, granting insight into the biology of understudied species, and helping to maintain species that have gone extinct in the wild. Moreover, it can serve as an avenue for engaging the public and getting people excited about conservation efforts. The authors of this paper suggest labeling systems similar to those used for sustainable seafood could be implemented to help consumers identify which aquarium fish to purchase to support environmentally friendly practices. The aquarium trade can be both sustainable and beneficial if managed appropriately, and aquarists and scientists alike stand to benefit from a cooperative relationship.

#### [\[Michigan\] Editorial: Let's move faster than the Asian carp \(6/24/19\)](#)

Tammy Newcomb, senior water policy adviser for the Michigan Department of Natural Resources and associate professor at Michigan State University's department of fisheries and wildlife, a few weeks ago told Crain's Detroit Business: "I don't see we're at a point of no return. I don't see how we can afford to look at it this way. We can't afford to give up on this. These fish are too dangerous." So it is encouraging that a July 16-17 meeting in Chicago will gather officials from eight states and two Canadian provinces to talk about a U.S. Army Corps of Engineers plan to keep Asian carp out of the Great Lakes.

Related: [Survey finds no Asian carp in Chicago-area waterways \(6/28/19\)](#)

[No Asian carp DNA found during Michigan waterway testing \(7/3/19\)](#)

#### [\[Minnesota\] Weeks later, one more possible effect of spring flooding: Invasive carp \(6/21/19\)](#)

Four invasive carp were found in southeastern Minnesota rivers this month, and the state Department of Natural Resources says this spring's flooding and high water could have eased their journey upstream. One bighead carp was captured in the St. Croix River in Oak Park Heights, and three silver carp were caught in Pool 4 of the Mississippi River farther south, between Red Wing and Wabasha.

#### [\[Maryland\] Snakeheads may be wreaking ecological harm, after all \(7/7/19\)](#)

... Their latest sampling, conducted from June 2018 to May 2019, provides the strongest argument yet that snakeheads can upend a Chesapeake ecosystem. And the effects might not just be limited to two rivers on the Eastern Shore, the researchers said....

[Scientific Publication] Phil I. Davison, Mathilde Falcou-Préfol, Gordon H. Copp, Gareth D. Davies, Lorenzo Vilizzi, Véronique Créach. 2019. [Is it absent or is it present? Detection of a non-native fish to inform management decisions using a new highly-sensitive eDNA protocol.](#) Biological Invasions August 2019, Volume 21, Issue 8, pp 2549–2560

[Scientific Publication] Bruce G. Marcot, Michael H. Hoff, Craig D. Martin, Susan D. Jewell and Carrie E. Givens. 2019. [A decision support system for identifying potentially invasive and injurious freshwater fishes.](#) Management of Biological Invasions. Vol 10 (pp 200–226)

[Scientific Publication] Przemyslaw G. Bajer, Ratna Ghosal, Maciej Maselko, Michael J. Smanski, Joseph D. Lechelt, Gretchen Hansen and Matthew S. Kornis. 2019. [Biological control of invasive fish and aquatic invertebrates: a brief review with case studies](#). Management of Biological Invasions. Vol 10 (pp 227–254)

[Scientific Publication] Duane C. Chapman, Marco Milardi and F.A. Mann. 2019. [Ligation and division of ductus deferens does not produce long term sterility in most bighead carp or grass carp](#). Management of Biological Invasions. Vol 10 (pp 285–295)

[Scientific Publication] Pamela J. Schofield, Howard Jelks and Kelly B. Gestring. 2019. [Eradication of two non-native cichlid fishes in Miami, Florida \(USA\)](#). Management of Biological Invasions. Vol 10 (pp 296–310)

## AQUATIC PLANTS

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[\[Minnesota\] DL found a fix for flowering rush problem, and other towns are taking notice \(7/8/19\)](#)

... Almost 100 acres of flowering rush have been wiped out from local lakes since the first test treatments began in 2013, and once-dense plant populations that made waters impassable have been thinned enough that boats can now get through without trouble... The treatment plan now in place in Detroit Lakes calls for once- or twice-yearly applications of the aquatic herbicide diquat, at specific times of the summer and with the chemical injected into the water so it affects the whole plant.

[\[Texas\] Invasive plants threaten state's lakes \(7/22/19\)](#)

Summer is in full swing across Texas, and John Findeisen and his crew have got their pedals to the metal. Findeisen leads the Texas Parks and Wildlife Department's Aquatic Habitat Enhancement Team. The small staff is charged with the huge responsibility of helping to keep an army of aquatic monsters at bay on inland waters across 254 Texas counties. The monsters are invasive plants with peculiar names: giant salvinia, common water hyacinth, common salvinia, yellow floating heart and crested floating heart, to name just a few.

[\[Minnesota\] Searching for Starry Stonewort: County continues to monitor invasive algae found in five lakes \(6/23/19\)](#)

... Starry Stonewort wasn't confirmed in Minnesota until 2015 when it was identified at Lake Koronis. Officials then began to identify it elsewhere, as well. However, they are still trying to understand the species... While it's technically a threat to any one of the state's 10,000-plus lakes, it's hit Beltrami County a little harder than most. There are 13 lakes in Minnesota that have confirmed infestations of Starry Stonewort, and five of those are in Beltrami County. They include Big Turtle, Moose, Wolf, Upper Red and Cass.

## FRESHWATER

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### [\[Alberta\] This is why the province says there's been a recent crayfish invasion in Calgary \(6/28/19\)](#)

Crayfish have clawed their way into Calgary waters — thanks to people intentionally moving the invasive species from other water bodies, according to Alberta Environment and Parks... "By finding them in the Calgary area, it appears that people have been moving them around intentionally, where we have specific prohibitions around bait and moving live fish," said Nicole Kimmel, an aquatic species specialist with Alberta Environment and Parks.

### [\[California\] State may receive reinforcements in nutria battle \(6/26/19\)](#)

The California Department of Fish and Wildlife is slated to receive nearly \$2 million from the state budget, pending Gov. Gavin Newsom's signature. The department also received an \$8.5 million, three-year grant last month from the Sacramento-San Joaquin Delta Conservancy. And members of Congress from the Central Valley want to send money to the state from Washington.

Related: [Legislators Join In Nutria Battle \(6/26/19\)](#)

[Nutria bounty rises to \\$6 per tail \[In Louisiana\] \(7/1/19\)](#)

### [\[Washington\] They're smaller than grains of rice, but these pests could end recreation in Lake Padden \(6/21/19\)](#)

Lake Padden could be closed to recreation if the spread of a dark snail that's smaller than a grain of rice can't be contained, the Bellingham Parks and Recreation Department warned. The New Zealand mudsnail is an invasive species that's been found on Lake Padden's northwest side, which is a popular access point for swimming, casual fishing and boating at the park, the Parks Department said in a news release.

### [Great Lakes states, provinces lead region-wide campaign to raise awareness of aquatic invasive species prevention \(6/28/19\)](#)

This summer, hundreds of agency and volunteer partners will be at water access sites throughout the Great Lakes region to inform boaters and others of the risks of spreading aquatic invasive species (AIS). The Great Lakes Commission is working with states and provinces to coordinate the AIS Landing Blitz from June 28 to July 7 across the region.

### [\[Ontario\] Non-native aquatic snails offer reminder on invasive species \(6/27/19\)](#)

Several years ago, Minden Hills resident Paul Prentice started noticing that there were aquatic snails in the lake bigger than the ones you'd usually find and they seemed to be proliferating. Together with Debbie Balika, a science advisor for the Coalition of Haliburton Property Owners' Associations, and students from Fleming College, they've been studying the snails to find out more about their numbers. The Chinese mystery snails prefer lakes with silty bottoms, reproduce quickly and have few predators. Plus, Prentice said during a presentation at the CHA annual general meeting on June 8, they have a trapdoor on their shells that can be closed to keep water in and predators out.

## [\[Vermont\] Fishhook waterflea reaches infestation levels in Lake Champlain \(7/7/19\)](#)

An invasive species new to Lake Champlain last year has gone from a few hundred cases to a few thousand. Fishhook waterfleas — tiny crustaceans that are aggressive predators of plankton typically eaten by native species in the lake — were found on “nearly all fishing boats” returning to Shelburne Bay and Converse Bay over the holiday weekend, according to a press release from the Lake Champlain Basin Program.

## **CLIMATE CHANGE**

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### [Coping with the climate crisis: how scientists are making an invasive crab a delicacy \(6/21/19\)](#)

Along Maine’s long, wrinkled coastline, the climate crisis gives and the climate crisis takes. The warming waters have provided the ideal environment for lobsters, leading to large and profitable hauls. But green crabs have taken hold, devastating soft-shell clam populations depended on for food and income, cutting their harvest to the lowest levels in nearly 90 years while simultaneously destroying eelgrass habitats that serve as nurseries for young fish...For communities that depend on the Gulf of Maine, conversations are shifting from how to stop the warming to how to cope with it. “We’re not going to stop the warming now,” says Marissa McMahan, a fisheries scientist with Manomet, a New England not-for-profit that focuses on sustainability and climate crisis. “We have to accept this is the reality, that the Gulf of Maine is going to be different in 10 or 20 years ... and we have to figure out ways to adapt and live with that.” McMahan is now part of an effort to promote green crabs as a source of food and researching other potential uses.. for them. As the ecosystem gets upended, she and others hope to turn the green crab into dollars and calories – and perhaps slow the damage they are doing.

## **OTHER**

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### [Why you should never release exotic pets into the wild \(7/3/19\)](#)

The exotic pet trade now ranks among the primary causes of the spread of invasive species, according to a [new academic review](#) published last month in the journal Frontiers in Ecology and the Environment. The review finds that the exotic pet trade has led to the establishment of hundreds of invasive species and is poised to contribute to the establishment of even more.

### [An invasive snail species was discovered in luggage at the Atlanta airport thanks to a pair of beagles \(6/30/19\)](#)

A pair of beagles discovered two Giant African Snails in the luggage of a passenger arriving at Hartsfield-Jackson Atlanta International airport, according to US Customs and Border Protection. Canine comrades Candie and Chipper, members of CBP's "Beagle Brigade," alerted customs officials Sunday to a checked bag from Nigeria at the

international baggage claim. Inside were two Giant African Snails -- a particularly invasive species -- and prohibited fruits and vegetables, according to a news release from the CBP.

[Scientific Publication] Gregory P. Brown and Richard Shine. 2019. [Using a natural population collapse of an invasive species to assess the benefits of invader control for native species](#). Biological Invasions August 2019, Volume 21, Issue 8, pp 2781–2788 [\$\$]

## JOBS/GRANTS

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### VOLUNTEER OPPORTUNITIES

#### JOBS

##### [Biologist \(Invasive Parakeet Management Research\) USDA APHIS](#)

Wildlife Services National Wildlife Research Center – Kauai, HI United States

**Closing Date: 7/11/19** Term: 18 Month Appointment Excepted Service; Full Benefits May be extended up to a total of 4 years Work Schedule: Full-Time Announcement #: Usda-Ws-Nwrc-0ws766-2019 Series/Grade: Gs-0401-11 Full Performance Level: Gs-11location: Kauai, HI Relocation Expenses Authorized: No Relocation Salary: \$ 64,017.00 Plus COLA Per Year

##### [National Invasive Species Coordinator - Republic Of The Marshall Islands](#)

Coordinate the RMI component of the GEF 6 Regional Invasives Project (GEF6 RIP) and provide / facilitate strategic advice and technical expertise, including coordination and facilitation, on all invasive species issues in the Republic of the Marshall Islands. **Closing Date**

**Friday 12th of July 2019 11:59 PM**

[Aquatic Invasive Species Technician I](#) – The Utah Department of Natural Resources, Division of Wildlife Resources - Lake Powell Bullfrog, Utah. The Utah Division of Wildlife Resources is looking for an Aquatic Invasive Species Technician 1 to inspect boats as they come off Lake Powell for Quagga mussels and other aquatic invasive species. The position starts in early August and goes thru October 2019. **Closing date 8/1/19**

## FEDERAL/STATE/PROVINCIAL LEGISLATION, RULES, ACTIONS

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### State/Province

#### [Great Lakes Governors and Premiers Unite to Stop Asian Carp \(7/10/19\)](#)

Ann Arbor, MI – U.S. governors and Canadian premiers agreed today to support a federal plan to stop invasive Asian carp from entering the Great Lakes by rebuilding the Brandon Road Lock and Dam.

## Congressional

### The Asian Carp War: Why spending \$830M to stop a fish sounds appealing (7/3/19)

The U.S. Army Corps of Engineers made the case Tuesday to both Michigan U.S. senators and nine Michigan U.S. House members on why a 10-year, \$830 million plan to jazz up the Brandon Road Lock and Dam is the best way to prevent Asian Carp, and possibly other invasive species, from entering Lake Michigan. U.S. Rep. Elissa Slotkin, D-Holly, who represents the Lansing area, and U.S. Rep. Tim Walberg, R-Tipon, who represents Eaton County, quizzed officials about the expanded technology being proposed at this choking off point on the Chicago Canal — a first-of-its-kind air bubble curtain, sound waves, more electrical barriers and a flushing system.

Related: [Michigan's Congressional Delegation Gets Look At Asian Carp Plan \(7/1/19\); Great Lakes Governors and Premiers Unite to Stop Asian Carp \(7/10/19\)](#)

### RRISC Holds Fourth Annual Congressional Reception and Awards Program (6/17/19)

In cooperation with Representatives Mike Thompson (D-CA) and Elise Stefanik (R-NY) as Co-Chairs of the Congressional Invasive Species Caucus, RRISC recently held its Fourth Annual Congressional Reception and Awards Program on Capitol Hill with a crowd of over 100 Congressional and federal agency staff in attendance.

### Sullivan, Whitehouse, Menendez Launch New Effort To Combat Marine Debris (6/26/19)

U.S. Senators [Dan Sullivan](#) (R-AK), Sheldon Whitehouse (D-RI), and Bob Menendez (D-NJ) today led colleagues from both sides of the aisle in launching a new effort to combat the global marine debris crisis. At a news conference this morning in the Capitol, the senators unveiled the [Save Our Seas 2.0 Act \[S.1982\]](#) to address plastics and trash entering the ocean that harm fisheries and marine life, litter shorelines, and threaten the livelihood of coastal communities. [\[overview\]](#)

## **Budget and Appropriations**

### House Passes Five-Bill Appropriations Package (6/25/19)

The House today passed, on a 227 to 194 vote, a package of fiscal year 2020 appropriations bills [[HR 3055](#)]. The package consists of five bills that fund federal departments including Commerce, Justice, Agriculture, Interior, Veterans Affairs, Transportation, and Housing and Urban Development Energy from October 1, 2019 to September 30, 2020.

Note: See the [06/07/19 AIS News](#) for details on FY 2020 **Department of Interior AIS funding**.

[The bill report language](#) for the **Department of Commerce/National Marine Fisheries Service** has the following on AIS relatedFY 2020 funding

*[Page 29] Lionfish.*—The Committee encourages NOAA to award competitive grants to address Lionfish in the Atlantic Ocean and Gulf of Mexico.

*[Page 42] Regional Biosecurity Plan.*—The Secretary of Commerce shall submit a report alongside its annual budget justifications describing the activities of the Department during the prior fiscal year to implement the Regional Biosecurity Plan for Micronesia and Hawaii—a strategic plan developed jointly by the Department and other Federal and non-Federal entities to prevent and control the introduction of invasive species in the U.S. Pacific region. The report shall include an update of Departmental activities to support implementation and next steps and planned activities, including estimated funding requirements for the subsequent fiscal year.

#### [Appropriations Watch: FY 2020 \(7/10/19\)](#)

Press reports indicate the [Senate will not proceed with appropriations bills](#) until lawmakers reach a deal with the White House on raising the discretionary spending caps for FY 2020. While the House has passed 10 out of 12 appropriations bills, the Senate has not advanced any bills at the subcommittee level, the first step to floor consideration.

#### [High anxiety hits Senate over raising debt ceiling \(7/10/19\)](#)

Broader budget talks on the debt ceiling and government funding unraveled last month, with the White House floating a one-year CR and debt ceiling hike. Senate Republicans are hoping to jumpstart the negotiations with new meetings as soon as this week, though nothing was on the books as of Tuesday afternoon.

#### [Pelosi: No plans to meet Trump budget negotiators \(7/9/19\)](#)

“There’s a lot of concern, by me and others up here, that here we are in July and we have no certainty to deal with appropriations to meet our Oct. 1 deadline. And then the debt ceiling is looming parallel to all of this,” Shelby said. “Serious conversation between the speaker and Treasury secretary of the administration could move us, or not move us, we’re always hoping something positive will come.”

## **TRAININGS, WEBINARS, CONFERENCES AND MEETINGS**

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

July

[2019 Western Aquatic Plant Management Society and Aquatic Plant Management Society Joint Meeting](#) Date: Jul 14, 2019 to Jul 17, 2019 Venue: Double Tree San Diego, Mission Valley. Hotel Location: San Diego, California.

[NAISMA Webinar: July 17th at 1:00 pm CST: How to achieve communications goals for reducing the spread of invasive species.](#) Presented by: Jackie Lalley, Owner, YodelPop Marketing .Learn how to use the PlayCleanGo campaign to set, measure, and achieve communication goals for reducing the spread of invasive species for your own community and beyond. [Click here to register](#)

Join [PNWER in Saskatoon, Saskatchewan for our 29th Annual Summit](#), July 21-25, 2019 Registration is Now Open for the 2019 PNWER Annual Summit in Saskatoon, Saskatchewan! Over 500 regional business leaders, legislators, and key decision makers attend the Annual Summit to explore shared challenges in the region, discuss best practices, promote regional relationships, and develop an action plan to address challenges in the coming year.

## August

[14<sup>th</sup> Annual Redneck Fishin' Tournament Aug. 2 and 3 Bath, Illinois](#) [Annual Redneck Fishing tournament cancelled due to high river levels \(7/5/19\)](#) Organizers and the Village of Bath made the decision to cancel the Redneck Fishing Tournament due to extensive flooding and, “the likely need for extensive clean up and repairs along the riverfront once the water does recede.” Betty DeFord, who oversees the tournament, said the tournament will return in 2020. Sponsorships and raffles will be carried over.

[Invasive Mussel Collaborative Webinar: Invasive Mussel Impacts on Fisheries.](#) August 1, 11:00 a.m. - 12:30 p.m. Eastern. Please join us for a webinar hosted by the Invasive Mussel Collaborative examining the impacts that invasive mussels pose to native fisheries in the Great Lakes. Ecological changes caused by the invasion of zebra and quagga mussels will be discussed, as well as practical on-the-ground fisheries management around invasive mussels. The webinar will feature presentations from:

Meg McEachran, University of Minnesota  
Jenilee Gobin, Trent University  
Dave Caroffino, Michigan Department of Natural Resources

[\[Oregon\] Annual Invasive Species Cook-off Fundraiser 2019 – Tickets on sale June 1!](#)  
When: Saturday 5-8 pm, August 3, 2019  
Where: NEW VENUE this year! Tyee Wine Cellars, just 10 miles south of Corvallis, Oregon  
What: Invasive Species Cook-off contest, catered buffet dinner from Kalamata Bistro featuring invasives and meat and vegetarian dishes, live music, Invasive Species beverage competition, and kid activities including lawn games, face painting and piñata! As long as you are not a professional chef or brewer, enter the Cook-off or Beverage contests - you could win a prize! See Cook-off Contest details, below.  
How: [Click HERE](#) to buy tickets! \$30 Adults, \$25 students, \$15 kids 9-13, kids under 9 free! All proceeds after expenses support IAE's restoration, research, and ecological education work.

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

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

Location: Louisville, Kentucky

## [NAISMA Webinar: August 21st at 1:00 pm CST. Stopping Invasive Species with Behavior Psychology.](#)

Presented by: Ken Donnelly, Owner, Beyond Attitude Consulting. Many invasive species pathways include human behavior, like boating, hiking, and camping. Changing people's behavior can be challenging, as anyone who has ever made a New Year's resolution knows very well. Just because people think something should be done, doesn't mean it will get done. Fortunately, the application of behavioral psychology greatly improves traditional communications programs in getting people to adopt the behaviors that interrupt pathways. People attending the webinar will learn how to apply behavioral psychology to nurture the behaviors that stop the spread of invasive species. [Click here to register](#)

## [Delta Invasive Species Symposium](#) August 29, 2019

The Delta Interagency Invasive Species Coordination (DIISC) Team invites you to attend its upcoming Delta Invasive Species Symposium on remote sensing applications for management.

Presentations will explore the remote sensing tools and applications used in today's invasive species management in the Delta, as well as opportunities for the future. The symposium is sponsored by the DIISC Team, Delta Science Program, UC Davis, and UC Agriculture and Natural Resources Cooperative Extension. Preregistration is required. August 29, 2019 1 9:00 AM – 4:00 PM UC Davis Conference Center

## September

## [NAISMA Webinar: September 18th at 1:00 pm CST: Don't Move Firewood Outreach and Regulation Updates.](#)

Presented by: Leigh Greenwood, Forest Health Program Director, The Nature Conservancy. The Don't Move Firewood outreach and education campaign is moving into its 12th year- and like a fine wine, we're hoping to improve over time! Join this webinar to learn about the results of the extensive partner feedback survey conducted in the Spring of 2019 and how the campaign is using that feedback to adapt to both our partners' needs, and changing conditions in forest pests and regulatory environments over the last decade. This webinar will also talk about how partners can participate in Firewood Month- a monthlong October event with different firewood related target demographics highlighted in each week of October!

Alaska Invasive Species Strategies Workshop, Sept. 24 - 26, 2019, Anchorage, AK

The objectives of the workshop will be to:

- Review the various mandates governing invasive species work throughout Alaska jurisdictions
- Identify critical gaps in prevention, detection, management and research across ecosystems and,
- Identify a suite of priority actions that we can collaborate on over the next five years

For more information please contact:

Tammy Davis, Alaska Department of Fish and Game; tammy.davis@alaska.gov

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

SAVE THE DATE: [The 6th International Columbia River Transboundary Conference](#) WHERE: Kimberley, BC. Join Columbia Basin Trust and the Northwest Power and Conservation Council from **September 12 to 14**, 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](mailto:chinton@cbt.org)

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

The [2019 North American Invasive Species Management Association - New York Invasive Species Research Institute Joint Conference](#) will be held September 30 - October 3, 2019 at the Saratoga Hilton, Saratoga Springs, NY. This year's conference theme is Connecting Science to Action. The organizing committee is especially interested in presentations that provide examples of: (1) how science is being used by invasive species managers and related professionals to inform and improve management decisions, (2) how managers can inform, and are currently informing research on invasive species and (3) information on new policies, methods and technologies being used to prevent, detect, or manage invasive species. All general session abstracts must be submitted by the abstract deadline of April 3, 2019.

## October

[The Western Regional Panel on ANS](#) invites you to join them at their Annual Meeting October 9-11, 2019 in Missoula, Montana. The meeting will be hosted by Montana Fish, Wildlife & Parks.

[NAISMA Webinar: October 16th at 1:00 pm CST: Invasive Species in North America.](#) Presented by: David Coyle, Assistant Professor, Forest Health and Invasive Species Extension, Clemson

University. This webinar will give an update on some of the most impactful invasive species in North America, including insects, fungi, and plants. We will discuss current pest distribution – including how the pest has moved post-arrival in North America - and proven and potential management strategies. We will also use the southeastern U.S. as a case study for why this continent has so many invasive species.

ICAIS 2019 Preliminary Program Now Available [The 21st International Conference on Aquatic Invasive Species](#) (ICAIS) will be held at Le Centre Sheraton Montreal, Montreal, Canada. October 27-31, 2019. The cut-off date for hotel reservations at the special ICAIS rate is **September 25, 2019**.

### November

[NAISMA Webinar: November 20th at 1:00 pm CST: How the National Park Service Integrates Partnerships, Prevention, and Management of Invasive Species](#). Presented by: Terri Hogan, Invasive Plant Program Manager, National Park Service. Within the realm of invasive species management, partnerships and collaboration are increasingly essential for success. Collaboration occurs at all levels within the National Park Service (NPS); it takes many forms, involves a range of partners including other agencies, states, tribes, and cooperative weed management areas and must reach beyond our boundaries to address the issues that invasive species pose to our public lands. This webinar will showcase examples of successful invasive plant management that are achieved through partnership efforts including, prevention and restoration within the NPS.

### December

[Innovations in Invasive Species Management Conference and Training](#), December 10-12th, 2019. Coeur d'Alene, Idaho. The conference hosts people from throughout the US and World looking for new techniques and inspiration from successes to manage a wide range of invasive species. The 2019 innovations Conference is being hosted by the Pacific Northwest Invasive Plant Council <https://www.pnw-ipc.org/> The Northern Rockies Invasive Plant Council <http://www.nripc.org/> and Invasive Plant Control, Inc. <http://www.invasiveplantcontrol.com/>

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

## 2020

### July

[2020 60th Aquatic Plant Management Society \(APMS\) Meeting](#)

Date: Jul 19, 2020 to Jul 22, 2020. Venue: Hyatt Regency San Antonio Riverwalk. Location: San Antonio, Texas

### August

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[2020 105th Ecological Society of America Annual Meeting](#)

Date: Aug 02, 2020 to Aug 07, 2020. Venue: Salt Palace Convention Center. Location: Salt Lake City, Utah

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**TO UNSUBSCRIBE/SUBSCRIBE** to the *AIS NEWS* email [sphillips@psmfc.org](mailto: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.