



## ***AQUATIC INVASIVE SPECIES NEWS***

**7/17/14**

### **DREISSENID MUSSELS**

#### [13 cited for quagga mussel violations on Lake Havasu \(7/16/14\)](#)

Thirteen individuals received citations by the Arizona Game and Fish Department during a quagga mussel and boat safety operation conducted over the weekend.....

#### [WI DNR drops plan to use bacteria to kill zebra mussels on northern lake \(7/1/14\)](#)

[An experimental plan](#) to add bacteria to a Florence County lake to kill zebra mussels has been dropped because of local opposition, including worries from some county officials. The state Department of Natural Resources says that it is now looking for another lake to apply a biological pesticide — a tool that scientists say could be used to control the spread of zebra and quagga mussels, both invasive species....

#### [EPA Approves Zequanox\(R\) for Invasive Mussel Control in Open Water \(7/8/14\)](#)

DAVIS, Calif., Jul 08, 2014 (GLOBE NEWSWIRE via COMTEX) -- Marrone Bio Innovations, Inc. a leading global provider of bio-based pest management and plant health products announced today that the U.S. Environmental Protection Agency (EPA) has approved Zequanox for open water use to combat invasive zebra and quagga mussels in lakes, rivers, recreation areas and other open bodies of water....

EPA docket for additional information -

<http://www.regulations.gov/#!docketDetail;D=EPA-HQ-OPP-2011-0568>

#### [Zebra mussels slowing down in Missouri but still spreading \(7/10/14\)](#)

COLUMBIA -- A conservation official told KRCG 13 Thursday zebra mussels are still spreading through the state's waterways, but the rate of their advance is slowing.....

### [Invasive species lead to yellow perch collapse in Lake Michigan \(7/9/14\)](#)

MILWAUKEE — The collapse of the Lake Michigan yellow perch fishery is one of the unwelcome, cascading consequences of invasive species in the Great Lakes. As zebra and quagga mussels have filtered food out of the ecosystem, the “fish of the people” has dwindled....

### [Wildlife Officials: Invasive Mussels Threaten Utah's Water Supply \(7/9/14\)](#)

SALT LAKE CITY - Wildlife officials say a tiny mussel, about the size of a human fingernail, poses a serious threat to Utah's water supply.....

### [Zebra, Quagga Mussels Trump Pollution as Change Agents in Lake Erie \(7/9/14\)](#)

Over the last half century, Lake Erie has been known for its level of pollution and its population of invasive species. Of the two, the invasive species seems to have had the greater effect on the lake’s zoobenthic community....

Journal Reference: Lyubov E. Burlakova, Alexander Y. Karatayev, Christopher Pennuto, Christine Mayer. Changes in Lake Erie benthos over the last 50years: Historical perspectives, current status, and main drivers. *Journal of Great Lakes Research*, 2014; DOI: [10.1016/j.jglr.2014.02.008](#)

### [TX City projects spending \\$3 million over 3 years to fight invasive species \(7/5/14\)](#)

Zebra mussels are here and they are not leaving anytime soon. There are state rules in place to stop the invasive species’ spread into more Texas lakes, but water providers still need to deal with the cost of the damage the creatures are already causing....

### [EarthTec QZ Approved in California as Zebra & Quagga Mussel Prevention for All Water Systems \(7/7/14\)](#)

EarthTec QZ announced today that it is officially registered for use in the state of California along with 24 other states to control zebra and quagga mussels in a cost-effective and environmentally friendly manner. EarthTec QZ is the first and only chemical control method currently approved by both the Environmental Protection Agency (EPA) for use in open waters and by the National Science Foundation (NSF) for use in drinking water....

### [Alberta defends against invasive mussels \(6/27/14\)](#)

The province has ramped up inspections for invasive species such as zebra and quagga mussels on boats and other watercraft to prevent major damage to Alberta’s waterways. Four inspection stations on major entry points will target boats entering Alberta....

[NM Game and Fish warns boaters of Quagga and Zebra mussels \(7/3/14\)](#)

Quagga and zebra mussels, which are non-native to New Mexico, can do major damage, according to James Dominguez, the aquatic invasive species coordinator for New Mexico Game and Fish....

[Zebra Mussels Found in Lake Cornelia, Iowa \(6/27/14\)](#)

The Iowa Department of Natural Resources (DNR) has confirmed that a zebra mussel was recently found in Lake Cornelia. Further investigation revealed no additional adult zebra mussels, but veligers, which are the larval stage of zebra mussels, were found in a water sample.

USGS information on this specimen can be found [HERE](#)

[Centurion Offers Eco-Conscious Filtration System to Prevent Invasive Species Transference \(6/24/14\)](#)

Centurion Boats is the first watersports towboat manufacturer to offer 2015 models with a new Eco-Conscious filtration system designed to prevent the conveyance of invasive species. The system, which has been in development for several years, is called Mussel Mast'R and is designed to filter larvae and other villagers that have been commonly transferred in the ballast bags of watersports towboats.....

[Zebra mussel \(\*Dreissena polymorpha\*\) monitoring using navigation buoys \(5/9/14\)](#)

.....We observed growth, settlement, and density of each colonized buoy and determined that light shielded bottom sides of the buoy had the most colonization whereas the shallowest submersed side had the least. Shell length of mussels from the south site was significantly larger than those from the north site. The mussels from the metal anchor-chain ring at the deepest end of the buoy were the largest, while no difference was found among the rest. Colonization of zebra mussels can be due to specific substrate types and amount of nutrition available in the habitat. Additionally research is recommended comparing buoy designs to determine if buoys without light shielded bottoms will be less colonized.....

[Utah Officials discuss efforts to combat invasive species known as the 'STD of the sea' \(7/16/14\)](#)

.....Senator Scott Jenkins said he wants to run a bill that would charge boaters a surcharge, since they are the ones causing the problem.....

## BOAT INSPECTION NEWS

### [Montana intercepts contaminated boat \(7/2/14\)](#)

MISSOULA - It doesn't happen very often, but on Wednesday the Montana Fish, Wildlife, and Parks Department went into full "disinfectant mode" to protect the state's waters from invasive species.....

### [Lake Whatcom, WA inspectors find invasive shellfish on boat \(6/23/14\)](#)

BELLINGHAM - Lake Whatcom boat inspectors found dead quagga mussels June 14 in a ski boat that had most recently been in Lake Havasu, an Arizona lake infested with the invasive shellfish....

### [Inspectors at Lake Tahoe Intercept Invasive Mussels \(7/11/14\)](#)

Recently Tahoe watercraft inspectors found the highly invasive quagga mussel on a boat coming from quagga-infested Lake Mead. They were able to decontaminate the boat and stop the species from entering the lake. Inspectors say this discovery emphasizes the importance of mandatory boat inspections for boaters wishing to launch their vessels into Lake Tahoe....

Related editorial [HERE](#)

### [Alberta Environment asks boaters to check for zebra mussels \(6/28/14\)](#)

Boaters in Alberta are being urged to check their boats before entering the province's lakes and waterways this summer. Alberta Environment is worried that zebra and quagga mussels could be hitching rides from one province to another by attaching themselves to boats, trailers or other watercraft....

Another Alberta story [here](#)

### [Saskatchewan Ministry of Environment: Help Protect our Waters: Stop Aquatic Invasive Species \(6/25/14\)](#)

The Saskatchewan Ministry of Environment needs your help to prevent stowaways from entering the province's lakes and waterways this summer....

### [MT FWP holds boat inspections at checkpoints across the county \(6/27/14\)](#)

THOMPSON FALLS – With the official start of summer Montana Fish, Wildlife and Parks continues its ongoing battle to stem the invasion of non-native species to the lakes, rivers and reservoirs of western Montana ....

[TX: Statewide Boat-draining Rule Takes Effect July 1 \(6/25/14\)](#)

ATHENS – Beginning July 1, boaters must drain all water from their boat and on-board receptacles before leaving or approaching a body of fresh water anywhere in Texas....

## **MARINE**

[Noisy boats help spread invasive pests \(7/7/14\)](#)

Increasing noise pollution in harbours and ports may contribute to the global spread of invasive pest species, research has found. Invasive species often spread through marine environments when they attach themselves to the hulls of boats and ships in a process known as biofouling....

[Industry puts forward united voice to IMO on ballast water convention \(7/7/14\)](#)

A large group of maritime associations, led by the International Chamber of Shipping (ICS), has put forward its latest recommendations to improve the Ballast Water Management Convention (BWMC)....

[OR: South Korean-based shipping company fined \\$36,000 for Portland ballast water violations \(6/24/14\)](#)

The Oregon Department of Environmental Quality has issued penalties totaling \$36,000 to South Korea based UNICO Logistics Company Ltd., which operates the ship Unico Stella, for illegal ballast water discharges and falsified records supplied to the state during the ship's cargo-loading visit to Portland in April. Illegal ballast discharge can be harmful to the environment because it can introduce invasive marine and other aquatic organisms to Oregon waters....

[CA Oyster Farm Fails to Impress Supreme Court \(7/1/14\)](#)

The Supreme Court refused Monday to intervene in the government's plans to shut down a California oyster farm that produces nearly half of the state's supply....

[North-East Atlantic and Baltic Sea Online Ballast Water Management Tool Goes Live \(7/15/14\)](#)

An online risk assessment tool for alien species transfers via the ballast water of commercial ships has been released jointly by OSPAR and HELCOM.....

## **WEEDS**

### [Idaho: Good news about invasive species \(7/1/14\)](#)

DOVER - There is an ample amount of good news about the control of aquatic invasive species in the Pend Oreille basin, but its marbled with some streaks of bad and the downright ugly. In the realm of good, it appears that last winter's deep drawdown did a good job at killing off Eurasian milfoil, according to Idaho State Department of Agriculture officials....

### [Wyoming Conservation Corps removes invasive species on the North Platte \(6/27/14\)](#)

The banks of the North Platte are under attack from a hardy tree that was once a staple for homeowners building windbreaks or otherwise looking for a fast-growing tree for their landscapes. The Russian olive, listed as a noxious plant by the Wyoming Department of Agriculture, crowds out its native counterparts, accounting for more than 30 percent of the basin's water consumption....

## **FISH**

### [U.S. Appeals Court dismisses lawsuit to force action on carp \(7/15/14\)](#)

A federal appeals court has dismissed a lawsuit brought by a coalition of Great Lakes states to force the U.S. Army Corps of Engineers to do more to stop the advance of Asian carp into the Great Lakes.

### [Still no agreement on Asian carp solution \(7/15/14\)](#)

Six months after the Army Corps of Engineers outlined strategies for keeping Asian carp out of Lake Michigan, policymakers, environmentalists and businesspeople are no closer to any kind of agreement on an acceptable long-term solution.

### [WA: Public meetings set on proposed treatments for three eastside lakes \(7/15/14\)](#)

OLYMPIA – State fishery managers will host four public meetings in late July to discuss proposals to treat three lakes in eastern Washington with rotenone, a naturally occurring pesticide commonly used to remove undesirable fish species from lakes and streams.

### [Why the Government is Looking for Water Guns This Summer \(7/8/14\)](#)

It's no secret that silver carp jump in response to boat motors, so it was pretty natural -- for a few federal scientists, anyway -- to wonder how the highly invasive fish would handle powerful pulses from water guns initially used for seismic surveys....

#### [Non-native aquarium fish found at Lake Tahoe \(7/9/14\)](#)

“Dad, you need to look at the big crazy fish!”

## OTHER

#### [Boot Cleaning Locations in ID, MT, and WY](#)

The Invasive Species Action Network has designed boot cleaning stations that are an easy way to encourage cleaning and get the cleaning job done. There are two different designs of cleaning stations - a tub-style and hose style - which can be incorporated into fly shops, bait shops, campgrounds, fishing lodges and more. Our boot cleaning stations use only clean fresh water, and no chemicals! Our handy directory can help you find a boot cleaning location near you. Do you have a cleaning station at your business? Let us put you on the map, [contact us](#) for more information.

#### [Invasive water snakes introduced to California may pose risk to native species \(6/25/14\)](#)

Water snakes, commonly seen in the lakes, rivers and streams of the eastern United States, are invading California waterways and may pose a threat to native and endangered species in the state, according to a University of California, Davis, study....

#### [USFWS Invasives Quarterly](#)

25 years ago this week, Tim Burton's Batman hit theaters everywhere and reset the standards for summer blockbusters. In that vein we are pleased to announce the very latest edition of IQ - Invasives Quarterly - featuring our very own cast of citizen scientist and early detection superheroes! Meet Dr. Nutria, get the lowdown on Stinky Bob, and learn how you too can flex your superhero muscles and vanquish invasive species: <http://bit.ly/IQSpring2014>

#### [PSU Program seeks volunteers to help monitor lakes \(6/17/14\)](#)

Love a lake or reservoir? Here's your chance to prove it. The Oregon Lake Watch Program is enlisting citizen-science volunteers to serve on the front lines in the war against invasive aquatic species. For an overview about the program go to <http://www.pdx.edu/oregon-lake-watch/>

[Don't dump pets in Burnaby, BC ponds, city says \(6/30/14\)](#)

Province has big fines for dumping live, invasive species in B.C. waterways ...

[The perils of unpalatable periphyton: Didymosphenia and other mucilaginous stalked diatoms as food for tadpoles](#)

Proliferations of *Didymosphenia geminata* are becoming prevalent in rivers around the globe....

[BC Resident finds snapping turtle on logging road \(7/14/14\)](#)

...The rock, upon closer inspection, turned out to be a massive turtle....

[The interactive effects of climate change, riparian management, and a non-native predator on stream-rearing salmon.](#)

Predicting how climate change is likely to interact with myriad other stressors that threaten species of conservation concern is an essential challenge in aquatic ecosystems. This study provides a framework to accomplish this task in salmon-bearing streams of the northwestern United States, where land-use-related reductions in riparian shading have caused changes in stream thermal regimes, and additional warming from projected climate change may result in significant losses of coldwater fish habitat over the next century. Predatory, nonnative smallmouth bass have also been introduced into many northwestern streams, and their range is likely to expand as streams warm, presenting an additional challenge to the persistence of threatened Pacific salmon.....

## **JOBS/RFPS**

[Invasive Plant Control, Inc. is currently looking to fill both part time and full time positions.](#)

Every year no less than 10 college interns are hired to work on traveling teams from late May to August. Please review the job descriptions thoroughly and if interested, submit a cover letter and resume. IPC is also currently seeking full time field technicians. Please read through the job descriptions before submitting your cover letter, resume and request for an interview.

- [Team Leader](#)
- [Travel Team Technician](#)
- [Volunteers](#)

IPC is continually hiring through **August**. To Apply, Send Cover Letter and Resume to: **Steven Manning** at [steve@ipc-inc.org](mailto:steve@ipc-inc.org)

## ADVOCACY

### [Wildlife Society Asks for Congressional Invasive Species Caucus Members \(6/18/14\)](#)

Invasive species are one of the largest threats to native wildlife around the world. The U.S. alone experiences economic losses in the billions of dollars every year due to invasive species and their often destructive and disruptive impacts. Further, approximately 42 percent of threatened and endangered species are placed at an increased risk by non-native, invasive species. Solutions to the invasive species problem, based on sound science, are achievable. Congress and other policymakers need to be made aware of the pervasiveness of the issue, how it affects their constituents and local economy, and how they can enable wildlife professionals and help create solutions. Take action today by asking your representative to join the recently formed Congressional Invasive Species Caucus! As a member of the caucus, your representative will be regularly updated on the most recent invasive species issues and are much more likely to participate positively in legislative solutions.

## LEGISLATION/FEDERAL ACTIONS/BUDGET

### **Senator Heller introduces S.2530, the “Protecting Lakes against Quaggas (PLAQ) Act.”**

On June 25, 2014, Senator Dean Heller introduced [S.2530](#), the “Protecting Lakes against Quaggas (PLAQ) Act.” S. 2530 is the Senate companion to the House “PLAQ” Act ([H.R. 1823](#)), which was introduced by Congressman Joe Heck in April 2013. S. 2530 amends title 18, United States Code, to prohibit the importation or exportation of mussels of the genus *Dreissena* (thus covering **quagga mussels**). Currently, the prohibition, as defined under the Lacey Act, applies to only the zebra mussel (*Dreissena polymorpha*).

S. 2530 differs with H.R. 1823 as it has language exempting water providers from a Lacey Act violation for operation of a public water system or a related water conveyance, storage, or distribution facility. This language is important as some municipal water agencies that divert water across state lines (e.g., [Colorado River Aqueduct](#)) have expressed concerns that the federal government could interpret this law to authorize shutdown of diversions from an interstate boundary water body due to the presence of quagga mussels.

The bill has garnered support from diverse range of stakeholders including but not limited to the Western Governors Association, the Colorado River Energy Distributors Association, Tahoe Regional Planning Agency, the Pacific States Marine Fisheries

Commission, Northwest Power and Conservation Council, National Parks Conservation Association, and the National Wildlife Federation.

A press release on S.2530, can be found [HERE](#)

**HEARING:** S. 2530 had a hearing on 7/16/14. The archived hearing and submitted testimony can be found [HERE](#). The hearing also included [S. 1153](#), the Invasive Fish and Wildlife Prevention Act.

### [Appropriations Committee Approves Fiscal Year 2015 Interior and Environment Bill \(7/15/14\)](#)

The bill and report language can be found at the bottom of the page. See pages 23 and 29 in the [bill report](#) for quagga/zebra mussel budget language.

### **Appropriations Next Step Water Resources Reform and Development Act**

On 6/10/2014 President Obama signed the "Water Resources Reform and Development Act" (HR 3080). For further information see <https://www.govtrack.us/congress/bills/113/hr3080/text> and <http://transportation.house.gov/wrrda/conference.htm> . WRRDA language included

**“..... the Secretary may establish watercraft inspection stations in the Columbia River Basin [CRB] to be located in the States of Idaho, Montana, Oregon, and Washington at locations, as determined by the Secretary, with the highest likelihood of preventing the spread of aquatic invasive species at reservoirs operated and maintained by the Secretary.”**

The next steps for realizing the CRB AIS gains in WRRDA will be in the House and Senate energy and water appropriations committees (where the FY 2015 USACE budget is appropriated). The House on 7/10/14 passed its energy and water appropriations bill, for report language go [HERE](#). [Note: watercraft inspection station language is not in the house bill]. It is in the Senate appropriations bill that the CRB AIS language and appropriations will most likely appear. The Senate bill was scheduled for full committee markup prior to the July 4th recess, but was delayed to avoid votes on two controversial amendments. The markup has yet to be rescheduled....stay tuned....

### [House Archived Legislative Hearing on H.R. 3994 and H.R. 4751 \(7/9/14\)](#)

This Subcommittee on Public Lands and Environmental Regulation held a hearing that included:

[H.R. 3994](#) (Bishop), To improve the control and management of invasive species that threaten and harm Federal lands under the jurisdiction of the Secretary of Agriculture and the Secretary of the Interior, and for other purposes. "Federal Lands Invasive Species Control, Prevention, and Management Act"

## **The Vessel Incidental Discharge Act (S. 2094)**

[S. 2094](#), introduced 3/6/14, has caused controversy (See these two coalition letters [FOR](#) and [AGAINST](#) ). The States of California, Oregon and Washington and the [Great Lakes Commission](#) also are concerned about the legislation, and have raised concerns about federal preemption of state ballast water programs. Below is an excerpt from 6/20/14 letter to Senators John D. Rockefeller (WV) and Mark Begich (AK) from the three west coast states:

The provisions of S. 2094 would erode State authority by overriding section 1205 of the Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990 (NANPCA) (codified as 16 U.S.C. § 4725) and exempting ballast water and other discharges incidental to the normal operation of vessels from the federal Clean Water Act (CWA). If adopted, S. 2094 would eliminate the long-standing ability of States to protect unique state waters from shipping-mediated pollution, the introduction of non-native species, and their associated deleterious economic, human health and ecological impacts.

We applaud the Senate's attention to the critical problem of vessel-borne pollution, including the introduction of non-native species into aquatic ecosystems, and we support continuation of the existing exemption provided to commercial fishing vessels of 79 feet or less in length. However, the mechanisms provided in S. 2094 would fail to sufficiently protect state waters. Absent more stringent standards and authorities to implement management measures tailored to regional or local conditions, we believe that the regulation of these vessel discharges is appropriately addressed by retaining State authority under the NANPCA and the CWA. The NANPCA and the CWA were written, and have been implemented, with the understanding that unique conditions within each region or State require unique solutions best addressed through State's jurisdiction.

## **MEETINGS**

### **JULY**

**Priest Lake, ID Invasive Species Workshop and Survey** is scheduled for July 29th at the Kalispell boat ramp on Priest Lake. The workshop presents a great opportunity to learn about the invasive plants and animals that threaten Priest Lake. Following the workshop we will head out on the water to survey for aquatic invasive species. Space on boats is limited so please bring your boat if you have one available. For further information please contact Thomas Woolf, ISDA 208-608-3404, [Thomas.Woolf@agri.idaho.gov](mailto:Thomas.Woolf@agri.idaho.gov); All are welcome.

## AUGUST

### **1. 2014 California Invasive Species Action Week Saturday, August 2 – Sunday, August 10**

Help protect our resources by joining a volunteer effort, learning about prevention practices, attending an educational presentation or field outing, or learning to identify your local invasive species. Find nearby volunteer efforts, a schedule of events, and educational information at [www.dfg.ca.gov/invasives/actionweek](http://www.dfg.ca.gov/invasives/actionweek) .

## SEPTEMBER

[Oregon - Invasive Species Cook-off 2014 - Eradication by Mastication: A](#) benefit for the Institute for Applied Ecology, Sunday, September 28, 2014, 2 pm - 7 pm, Zenith Vineyard (Salem, OR)

**Western Regional Panel:** The annual meeting of The Western Regional Panel on Aquatic Nuisance Species will be held in Houston September 17-19, 2014. This will be a joint meeting of The WRP and the [Gulf and South Atlantic Panel](#). The Crowne Plaza Downtown is the meeting venue and host hotel. The [WRP website](#) will have more information on hotel reservations and more in the near future.

[Meeting the Challenge: Preventing, Detecting, and Controlling Invasive Plants September 16-17, 2014, University](#) of Washington Botanic Gardens, Seattle, WA.

## OCTOBER

The Alaska Chapter of the American Fisheries Society will be meeting in Juneau, Oct. 20-24. An invasive species session is being planned. Contact Tammy Davis, ADFG, for further information @ [tammy.davis@alaska.gov](mailto:tammy.davis@alaska.gov)

[The International Invasive Sea Squirt Conference V will be held at Woods Hole Oceanographic Institution Wed-Fri Oct 29-31, 2014.](#) Conference Registration Deadline October 1, 2014.

[California Invasive Plant Council Symposium at California State University - Chico, October 8-11, 2014.](#)

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