



AQUATIC INVASIVE SPECIES NEWS

06/14/2013

DREISSENID MUSSELS

1. WIT LEVEL II ANNOUNCEMENT:

The Pacific States Marine Fisheries Commission and its 100th Meridian Initiative partners are announcing and sponsoring Level Two Watercraft Inspection Trainings (WIT) for the Fall of 2013.

LOCATIONS: Lake Mead, Nevada - Lake Pleasant, Arizona

DATES: Oct 15-16, 2013 – Lake Mead; Oct 29-30, 2013 – Lake Pleasant Nov 12-13, 2013 - Lake Mead.

Openings are limited!!!

COST: There is no charge for the class. However, they do cost money to put on and it is important that we fill all available openings. Please try to make sure that when you sign up for the class that you are able to attend so that we don't end up paying for empty seats that could be used by others.

Trainers: Dee Davis and Wen Baldwin

This two-day is an intensive, hands-on Watercraft Inspection and Decontamination training for **quagga/zebra mussels**. Training is provided free of charge on a first-come first-served basis. Attendees will be responsible for their own travel expenses. The course is designed for those individuals who are currently or will soon become active in setting-up or implementing watercraft inspection and decontamination programs for their respective agencies, organizations or businesses. The class size is restricted to 10-12 people and the focus is on actual inspections of various types of watercraft and the use of

several decontamination systems. The course is certified by 100th Meridian member agencies and **successful graduates will also be qualified as incident responders and WIT Level I Trainers.** (Go to <http://www.aquaticnuisance.org/wit/level-two-wit-training> for further information)

TO REGISTER: If you are interested in attending or sending someone to this class, please contact Dee Davis as soon as possible at: quaggadee@cox.net or (702) 236-3814.

2. Articles/Info on Lake Powell Quagga Mussel Infestation:

- [Lake Powell Flyer \(5/20/13\):](#)

In March 2013, quagga mussels were discovered in Lake Powell. These tiny clams can reproduce quickly and attach to almost any underwater surface. If they accumulate, they can damage irrigation pipes, boat engines, intake valves and other submerged items. The mussels' microscopic larvae can hide in water that accumulates on your boat and recreational equipment. To prevent these invasive mussels from spreading to other lakes and reservoirs, anyone who uses a watercraft at Lake Powell must decontaminate it after leaving the water.....

- [NPS Quagga Mussel Blitz \(5/31/13\)](#)
- [No 'muscling' their way in at Lake Powell \(6/6/13\)](#)
- [Divers try to rid marinas of quagga mussels before they infest Lake Powell \(6/12/13\)](#)
- [More on Blitz from NPS \(6/12/13\)](#)

3. [ODFW boat inspectors find invasive quagga mussels on motorboat in Ontario \(5/22/13\)](#)

ONTARIO—Oregon Department of Fish and Wildlife technicians discovered quagga mussels on a motorboat on May 15 at the Ontario boat inspection station in eastern Oregon. It is the first boat of the 2013 inspection season found to be infested with the invasive mussels....

4. [MN DNR Begins Efforts to Contain Invasive Species \(5/21/13\)](#)

The DNR says it will slightly shift its strategy this summer to prevent the spread of aquatic invasive species like zebra mussels. Ann Pierce is the Invasive Species Supervisor at the DNR, she says the focus will be on lakes already infested, "We still have more lakes that don't have zebra mussels in them than those that do."

5. [Grand County \(CO\) boaters must be diligent about aquatic hitchhikers \(5/29/13\)](#)

The Colorado Parks and Wildlife released an updated list of watercraft inspection and decontamination sites last Friday. In Grand Lake, Shadow Mountain Reservoir and Granby Reservoir, Parks and Wildlife tests have detected Quagga mussel larvae, but no

adults have been detected as of yet. Zebra mussel larvae have been found in Grand Lake as well. All boats must be inspected prior to entering and exiting these water bodies. Inspectors will issue green seals after exit inspections, which are accepted at other state-authorized inspection site, and help expedite the launching process.....

6. [Keeping quagga mussel out is top priority for Clear Lake \(Caliph\) \(5/28/13\)](#)

.....So far only one boat that has entered Lake County has been found infested with the mussel. That boat was quarantined and decontaminated. Keeping the mussel out of the county remains a top priority and everyone's cooperation is needed to keep it that way.

7. [Manitoba ups fight against invasive aquatic species \(5/22/13\)](#)

Manitoba is using a new weapon to fight invasive aquatic species that hitch a ride on boats coming into the province. Water Stewardship Minister Gird Mackintosh says two high-heat, high-pressure decontamination units will be used to purge watery invaders such as zebra mussels.

8. [Dreissenid mussels enhance nutrient efflux, periphyton quantity and production in the shallow littoral zone of a large lake \(May 2013\)](#)

Abstract: Dreissenid mussels are notorious invasive organisms whose establishment is associated with large, ecosystem-scale changes to patterns of productivity in aquatic systems. We investigated how localized impacts of dreissenids affect the potential of littoral substrates to support primary and secondary production using in situ incubations and comparisons of natural mussel-colonized and mussel-free substrates in the littoral zone of a large, shallow lake. We compared dreissenid-colonized and dreissenid-free substrates in terms of nutrient balance, surface area, periphyton loads as well as benthic primary production and respiration rates. Dreissenid-colonized substrates acted as sources of dissolved nutrients to the water column, with mussel mass-specific rates of dissolved phosphorus and ammonia excretion averaging 7.2 ± 5.6 (mean \pm SD), and 92.6 ± 64.7 $\mu\text{g/g}$ mussel shell free dry mass/h, respectively. Mussel-colonized substrates also had higher surface area, and supported approximately double the amount of periphyton and organic matter loads compared to mussel-free substrates, as well as having higher rates of primary production and community respiration. We suggest that the localized effects of dreissenids can play an important role in changing whole-ecosystem production patterns, with the extent of dreissenid impacts strongly dependent on lake size and morphometry.

9. [MT FWP ups state defenses against aquatic invasive species \(6/2/13\)](#)

ENNIS - The skies have been gray through much of May, but winter-weary fishermen can't resist the call of Montana's rivers and lakes. But as thousands of sportsmen from around the nation and Canada invade the state's prime fishing waters, they could potentially spark a less-welcome invasion.

10. [Calif. Boat inspections seek to keep out invasive species \(5/25/13\)](#)

Watercraft inspections and boater education on aquatic invasive species will take place in Truckee at Donner Lake and three reservoirs – Boca, Prosser and Stampede – from late May through early September....

11. [MT setting checkpoints on aquatic invasive species \(5/22/2013\)](#)

Checkpoints for hitchhiking aquatic invasive species are setting up shop across Montana again this year. By law, boaters must stop at watercraft inspection stations, which are located at key border crossing sites, along major highways and on heavily used water bodies. At one of the checkpoints near Hardin, two boats being towed through Montana were carrying zebra mussels already this month.

12. [Iowa Campaign aims to stop invasive species \(6/4/13\)](#)

CLINTON — Summer is quickly approaching and Mississippi River activity is on the rise. This year the Iowa DNR is urging boaters to “Clean, Drain, and Dry” all aquatic equipment.

13. [Dog Sniffs Out Tiny Pests \(6/6/13\)](#)

For the past several years, inspectors at the boat launch ramp at the Lake Arrowhead [CA] marina have checked boats for any evidence of quagga mussels, a tiny invasive pest that can clog water intake structures, such as pipes. At the summer kick-off celebration sponsored by the Arrowhead Lake Association, a special guest made an appearance and impressed those who watched him at work.....

14. [Prevent invasive species from gaining a toehold in BC \(6/12/13\)](#)

Instead of plants poised to invade the Okanagan, this year during Invasive Species Week, the biggest concern regards a couple of aquatic molluscs which could cost the valley millions a year if they are allowed in.

WEEDS

1. [Michigan Boater's Guide provides on-board help with invasive aquatic plant identification](#)

MSU Extension publication E3189, A Michigan Boater's Guide to Selected Invasive Aquatic Plants, is available through the [MSU Extension Bookstore](#). Cost is \$10 per copy with reduced prices for bulk orders.

MARINE

1. [Shipping Faces Half Trillion Dollar Environment Costs \(06/04/13\)](#)

Speaking to delegates at the opening of the Nor-Shipping event in Oslo today, the Chairman of the International Chamber of Shipping (ICS), Masamichi Morooka, said that impending new legislation to protect the environment potentially presented an additional industry-wide cost of more than half a trillion US dollars between 2015 and 2025. This is around 50 billion dollars of additional capital and operating cost in every single year for a 10 year period and beyond.....

OTHER

[1. Study: Climate Change Threatens Extinction In Next 100 Years For 82 Percent California Native Fish \(5/31/31\)](#)

.....“If present trends continue, much of the unique California fish fauna will disappear and be replaced by alien fishes, such as carp, largemouth bass, fathead minnows and green sunfish,” said Peter Moyle, a professor of fish biology at UC Davis who has been documenting the biology and status of California fish for the past 40 years.....

2. 18th International Conference on Aquatic Invasive Species presentations on-line

The PowerPoint presentations are now posted on the ICAIS website. Go to www.icaais.org and in the top right-hand corner of the Home Page click on “Previous Conferences” then click on the last link to “18th International Conference on Aquatic Invasive Species”. The presentations are by Session and in the order that they were presented. Click on the title of presentations in red to access the presentation as a .pdf file. Titles that are in blue are not available.

[3. Illinois governor right: Close the Chicago canal \(6/10/13\)](#)

The fight by Michigan, Wisconsin and other Great Lakes states to close a big hole that allows the [Asian carp](#) and other invasive species to enter Lake Michigan from the Mississippi River system may have turned a corner. "Ultimately, I think we have to separate the basins," Illinois Gov. Pat Quinn told his fellow Great Lakes governors at a meeting of the [Council of Great Lakes Governors](#) this month, the Journal Sentinel's Dan Egan reported.

4. Presentations Online from the Federal Regulatory Framework for Controlling the Movement of Invasive Species and Updates on National Coordination Efforts

On May 16, 2013, the National Sea Grant Law Center and partners hosted a workshop to explore the legal and regulatory efforts to minimize the movement of aquatic invasive species in the U.S. Go [here](#) for presentations from that meeting.

5. AIS Educational Resources from UW

[Dr. Julian Olden](#) (Freshwater Ecology & Conservation Lab, University of Washington) writes: “I teach a course at UW called Aquatic Invasion Ecology and research efforts of graduate and undergraduate students in the class have resulted in many educational resources related to invasive species in the Pacific Northwest. One of these includes final research reports on non-native species researched and written by students each year. As regional information on non-native species can be difficult to obtain, I hope these reports are useful to agencies and researchers in the Pacific Northwest working in invasive species management. The list of species will continue to increase each year.” All reports available as PDFs at:

<http://depts.washington.edu/oldenlab/outreach-and-resources/pacific-northwest-invasive-species/>

FISH

[Electric Fish Barrier to Prevent Invasive Species in Iowa Great Lakes](#)

(IOWA GREAT LAKES) - Those high-jumping fish that slap boaters in the face just hit a roadblock at the Iowa Great Lakes. The Iowa Department of Natural Resources installed a new electric fish barrier to prevent Asian Silver Carp from invading the lakes.

[How to Make Bony, Invasive Shad Fish Taste Delicious \(6/7/13\)](#)

.....American shad fish are invasive species in the Columbia River. They came over from the East Coast by train in 1871, and the state of California deliberately planted them in the Sacramento River. The fish quickly spread out across the West Coast and now spawn in such abundance in the Columbia that they're not likely to be eradicated.....

JOBS

OREGON: [Fish and Wildlife Technician \(Aquatic Invasive Species Technician\)](#) 4 limited duration positions. 2 in Central Point and 2 in Gold Beach. Please contact Human Resources at 503-947-6051 with any questions. **Closing Date/Time: Mon. 06/24/13 11:59 PM Pacific Time**

LEGISLATION

[1. Senator Gillibrand Announces Bill to Prevent Future Invasive Species \(6/7/13\)](#)

WASHINGTON (June, 7, 2013)—Acting in the interest of the nation’s environment and economy, Senator Kirsten Gillibrand (D-NY) took a major step forward today to stop the import of invasive, non-native animals by introducing “The Invasive Fish and Wildlife Prevention Act of 2013.” This bill [([S. 1153](#)), introduced 6/12/13], will allow the U.S. Fish and Wildlife Service to prevent new, harmful fish and wildlife from being imported into the country and to more quickly act to prevent the spread of those that are already here. This Senate bill is a companion bill of [H.R. 996](#), which was introduced by Rep. Louise Slaughter (D-NY) earlier this year.....

[2. House Earmarks Ban May Be Tested in Writing Water Bill \(6/6/13\)](#)

The House’s 3-year-old ban on earmarks may be put to the test in the coming weeks, as the House Transportation and Infrastructure Committee writes its authorization of flood control, navigation and environmental restoration programs. Chairman Bill Shuster R-Pa., said the Senate-passed water bill ([S 601](#)*, the Water Resources Development Act) already gives the Army Corps of Engineers too much power to select the projects that will be funded, and he has vowed to surrender no additional legislative authority.....

[* NOTE: See SEC. 5007 “Aquatic Invasive Species Prevention and Management; Columbia River Basin” AND Sec. 5018. “Multiagency effort to slow the spread of Asian carp in the Upper\ Mississippi River and Ohio River basins and tributaries.”]

[3. Guarding state waters: Bill beefs up Montana's aquatic invasive species law \(5/25/13\)](#)

Mike Cuffe doesn’t hesitate when he spots Steve Riggan and his son, Patrick, preparing to launch a boat at Broadwater Bay on the Missouri River in Great Falls. Holding a pipe covered and plugged with an invasive species of mussel, he walks over and asks if they’ve ever seen anything like it.

[4. Bill waives fees for Arizona, California boaters \(5/27/13\)](#)

LAUGHLIN — Arizona and California boaters enjoying the cool waters of Lakes Mead and Mohave and the Colorado River may no longer be required to purchase an Aquatic Invasive Species decal from the Nevada Department of Wildlife. On Friday, the Nevada State Legislature sent Assembly Bill 128 to Gov. Brian Sandoval for his signature. Language in that bill specifically exempts watercraft registered in Arizona and California from the AIS decal requirement, if the NDOW determines to its satisfaction that those states have an AIS management program in effect. The bill also includes an exemption for Lake Tahoe and Topaz Lake. **[UPDATE:** Governor signed 5/24/13, for bill text go to <http://legiscan.com/NV/bill/AB128>]

For more on this new regulation (from NDOW) go to [scroll down]
http://www.ndow.org/Boat/Aquatic_Invasive_Species/Decal_Information/

MEETINGS

JUNE

1. Aquatic Nuisance Species (ANS) Task Force Webinar: Monday June 17 from 1:00 - 4:00 Eastern time. Details will be posted on <http://www.anstaskforce.gov/default.php>

JULY

1. Aquatic Plant Management Society Annual Meeting: July 14-17, 2013; The Westin River walk San Antonio, TX. Make your reservations now at <http://apms.org/>

[2. Registration is now open for the PNWER 3rd Annual Invasive Species Conference!](#)

July 17, 2013; Anchorage, Alaska, Deanna Conference Center: Join federal, state, tribal and local government agencies; academic institutions; non-profit organizations; industry leaders; legislators; and others in developing regional strategies to address the threat of invasive species to our natural resources, economy, and quality of life.

AUGUST

[1. 8th International Conference on Marine Bio invasions: August 20-22, 2013, Vancouver, Canada](#)

SEPTEMBER

1. Save the Date - the [WRP](#) will hold their Annual Meeting in Portland, Oregon on September 11 - 13, 2013. The first two days of the conference will be information sharing, presentations and the business meeting. The last day of the conference will be a field trip. More information on the agenda and other details will available in the coming months.

NOVEMBER

[1. Save the Date : Washington State Weed Association WEED conference; November 6 - 8, 2013; Location: The Coast Wenatchee Center Hotel.](#)

2014

FEBRUARY

[Marine Invasive Species - Management of Ballast Water and Other Vectors](#), Muscat, Oman,
February 17-19, 2014.

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