CHEMICAL USE IN BOAT DECONTAMINATION

Leah Elwell – Invasive Species Action Network

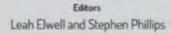




Uniform Minimum Protocols and Standards for Watercraft Inspection and Decontamination Programs for Dreissenid Mussels in the Western United States

UMPS III



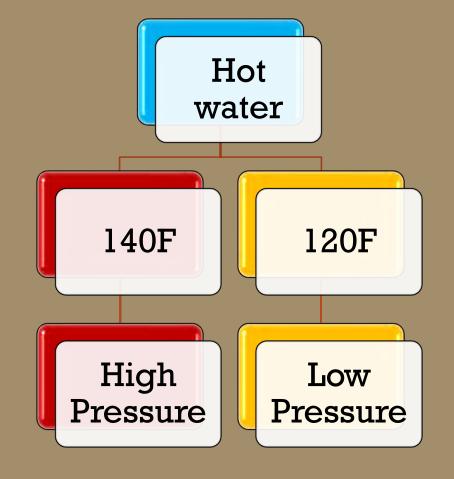




UMPS III 2016





















PLANTS - ANIMALS - MICROBES









PHOSPHATE FREE!

PROFESSIONAL FORMULA

Convenient powerful bleach cleaning action in a concentrated tablet

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RESEARCH .

A Product of King Research Milwaukee, WI 53223 www.barbicide.com 800-222-8160



Questions/Comments? Call 1-800-222-8160.

MADE IN FRANCE



HOW AND WHERE TO USE.

CAP INSTRUCTIONS: TO REMOVE CAP: Place bottle on a firm surface. Push cap down and turn counter-clockwise. TO REPLACE CAP: Push cap down and turn clockwise.

CAUTION: Wash hands after use with soap & water.

FLOORS, TILES, BATHTUBS, SHOWERS, KITCHEN SINKS, GARBAGE CANS. To clean, deodorize and remove mildew stains: Add 1 TABLET to 1 gallon of water. For heavily soiled areas use 2 TABLETS. Mop or wipe with bleach solution. Allow solution to contact surface for 5-10 minutes. Rinse well and air dry. Use gloves for prolonged use.

TOILETS: To clean & deodorize, Add 1 TABLET into the toilet bowl. Allow to dissolve, then use brush to clean. Flush toilet before use.

Do not use on any metals or metal surfaces, enamel bathtubs, fine wood surfaces, wool and silk fabrics, man-made, colored or any fabric with a special finish. Test on inconspicuous area prior to use.

LAUNDRY: White and Colorfast Bleaching.

Use a detergent. Then add tablets.

HE Machines. Regular Load: Add 1 TABLET into the washer then add clothes, or add 1 TABLET to washing machine dispenser, then add 3/4 cup of water to submerge tablet to start dissolving process. Close dispenser and start wash cycle.

Standard Machines: Regular Load: Begin filling the washer with water, Add 1 TABLET into the water, Allow to dissolve for 1-2 minutes. Place clothes in washer and start wash cycle.

For extra whitening power use 2 Tablets per regular load. For Extra large loads or heavily soiled stained clothing use 3 Tablets.

STORAGE/DISPOSAL: Keep container closed tightly and store in a cool dry place. Keep at temperature not exceeding 120°F. Do not reuse empty bottle. Discard in trash or offer for recycling.

ALWAYS KEEP CHEMICALS AND BLEACH TABLETS OUT OF THE REACH OF CHILDREN.

AVOID CONTACT WITH EYES. Keep away from food, drink and animal feeding areas. AVOID BREATHING VAPORS. Use in well-ventilated areas.

FIRST AID. IF SWALLOWED: Do not induce vomiting. Drink 2 glassfuls of water. Do not give anything by mouth to an unconscious person. Call a Poison Control Center or doctor immediately for treatment advice. Have product container or label available when seeking medical advice.

IRRITATING TO EYES AND RESPIRATORY SYSTEM.

DANGER: Corrosive to eyes if not flushed immediately with water. If irritation occurs or persists contact a doctor for immediate attention. Contact with skin. Wash hands thoroughly after each use. If irritation occurs seek medical advice.

In case of respiratory concerns, remove to fresh air. If breathing is affected seek prompt medical attention.

WARNING: OXIDIZER. Do not use or mix this product with other household chemicals such as ammonia, toilet bowl cleaners, rust removers or acid, as this releases hazardous gases.

Contains: organic chlorinated bleaching agents, sodium bicarbonate, inert fillers, chlorine stabilizers.



GOAL

- improve knowledge on chemical use in boat decontamination
 - Compile information about the efficacy of chemicals
 - Determine legal or appropriate use
 - Suggestions
 - Correct misinformation in a methodical fashion















FEDERAL LAWS GUIDE USE

 Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) -Requires all pesticides sold or distributed in the United States to be registered by EPA. The Pesticide Registration
Improvement Act of 2003/2007
(PRIA) (amended FIFRA) Under PRIA
Companies must pay service fees
according to the category of the
registration action.



LABELING AND ENFORCEMENT

- provide clear directions for effective product performance while minimizing risks to human health and the environment.
- It is a violation of federal law to use a pesticide in a manner inconsistent with its labeling.
- states have primary authority for compliance monitoring and enforcing against illegal pesticide use.





ENVIRONMENTAL PROTECTION ACENCY GUIDANCE

• The use of chemicals by private individuals is legal; however there may be nuance in a management agency making a recommendation to the public



A METHOD TO ADDRESS CHENICAL

RECOMENDATIONS

Chemical Treatment

Many chemical agents are available to prevent the potential movement of invasive species. However, the use of

To prevent the spread of invasive species, all equipment should be inspected and cleaning after exiting the water body.

chemical treatments sometimes poses disposal and wastewater concerns. If chemical treatments are used, loc standards of waste disposal must be followed. Since local regulations for chemical disposal may vary, always contact a local chemical waste management facility, the Environmental Protection Agency, or refer to the Mater Safety Data Sheet for recommendations on proper disposal prior to use of any chemical. Some state states ma also require certification or licensing for personnel who use chemical treatments. Finally, some solutions may corrosion on metal surfaces and electrical connections; thus be sure to follow all label restrictions and manufac guidelines. Following treatment, rinse all surfaces with clean water and dry thoroughly.

Diluted household bleach solution provides an inexpensive, effective way to control invasive species. Soak or sequipment for at least one minute with a two percent bleach solution (three ounces of household bleach mixed one gallon of water). If invasive pathogens or diseases are suspected, a 10 percent solution should be used (13 ounces of household bleach mixed with one gallon of water). Bleach is an extremely effective disinfection agent it is a caustic substance that can be corrosive to aluminum and other sensitive fishing and boating equipment.

Of the materials traditionally used to disinfect for human or animal health purposes, quaternary ammonium compounds have been found to be effective in controlling viruses and pathogens. Commercial formulations, sur Parvasol® and Kennelsol®, are available through laboratory or veterinary supply companies. Household cleansers/disinfectants, such as Formula 409® and Fantastic® that contain the quaternary ammonium compou alkyl dimethyl benzyl ammonium chloride can also be used to disinfect equipment. These solutions can be used strength as a spray, or diluted for soaking with two parts water to one part disinfectant. For all materials, follow instructions and be sure to soak equipment for a minimum of 10 minutes. Be sure to dispose of naterials away surface waters in accordance with label restrictions.

Other common chemical decontamination methods are:

- Undiluted white vinegar for 20 minutes.
- 1% potassium permanganate solution at 24-hour exposure.
- 5% quaternary ammonium solution for 10 minutes.
- 250 mg/L ROCCAL (benzalkonium chloride) for 15 minutes
- 500 mg/L hydrogen peroxide for 60 minutes
- 167 mg/L formalin for 60 minutes



2017 PAPER COMPLETION

2017 - 2018
Online/Publication Correction



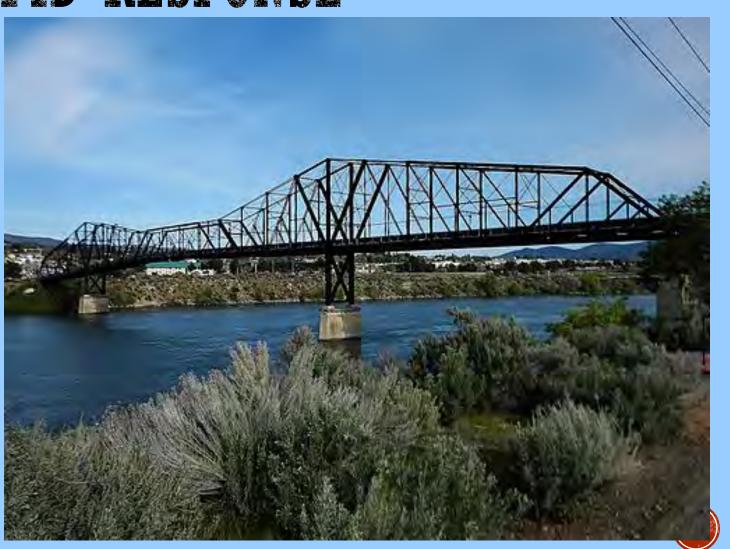


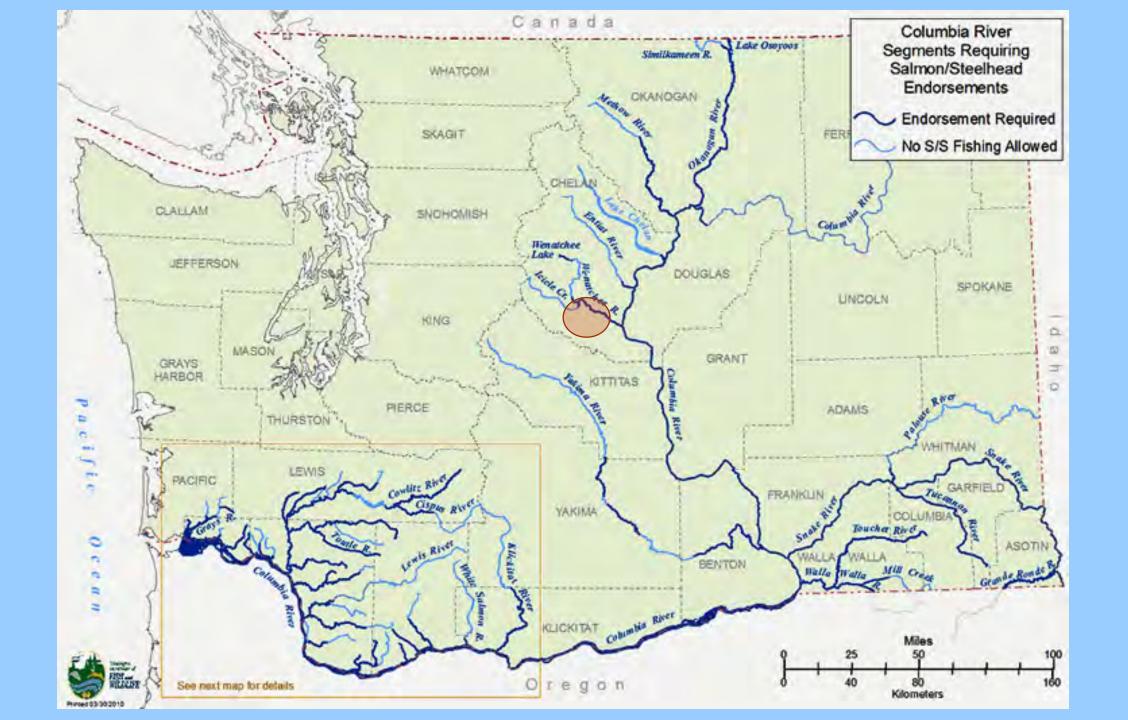




WASHINGTON RAPID RESPONSE

- Wenatchee, WA
- October 3-5, 2017

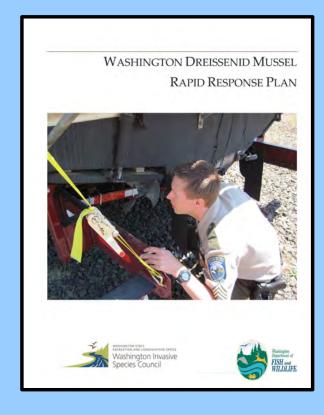






RAPID RESPONSE PLANNING

Rapid Response Planning Document

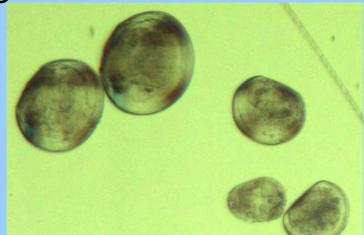


- Exercise Participation
 - Vancouver, WA 2007
 - Lake Roosevelt/Spokane,
 WA 2010



PLANNING TEAM AND SCENARIO

- WA Dept of Fish and Wildlife
- WA Invasive Species Council
- Chelan Public Utility District
- Region 1 USFWS
- PSMFC



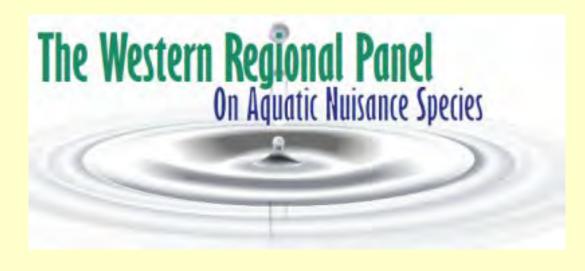
- Site for exercise: Columbia River
- Adults or veligers TBD





WRP ANNUAL MEETING

- San Diego
- September 13-15, 2017
- Horton Hotel
- <u>www.fws.gov/answest/</u>







SAN DIEGO AGENDA

- California Focused Session
- Coastal Focused Session
- Dreissenid Focused Session
- Field Trip to San Diego Port and Tijuana River National Estuarine Research Reserve







WRP WEBSITE -MECHANICS AND MAINTENANCE



Annual Meeting 2017

San Diego, CA September 13-15, 2017

Brochure

Threats to the West Brochure is now available.

OZAP

The Quagga/Zebra Mussel Action Plan (QZAP) summarizes current strategies to address the invasion of zebra and quagga mussels in the West.

are one of the leading threats to the ecological integrity of forests, grasslands, and waterways. Recognizing the threat to western aquatic ecosystems and water delivery systems caused by nuisance exotics has raised concerns with representatives from State, Provincial, and Federal agencies as well as Private



Western Region Area Covered by WRP

water interests. The purpose of these pages is to provide an information network for the various interests involved with management of aquatic nuisance species as well as to educate the public.

The public and private sectors working together to protect western water resources from aquatic nuisance species.

Have you seen anything unusual?

If so, we want to hear from you.

An Aquatic Nuisance Species reporting system sponsored by the U.S. Geological Survey is available to report ANS online, or may call your state wildlife agency directly for questions and









