



350 N. Redwood Road P.O. Box 146500

Salt Lake City, UT 84114-6500

(801) 538-7046 Information (801) 538-7169 FAX

AQUATIC INVASIVE SPECIES POLICY STATEMENT

Date: 26 June 2008

To: Growers of Aquatic Animals to be Imported to Utah for Aquaculture

From: Earl Rogers, DVM, Utah State Veterinarian

Kent Hauck, Fish Pathologist

Subject: Requirements for Shipments from Areas Endemic to Aquatic Invasive Species

Introduction: Recent reports on the spread of aquatic invasive species or AIS (zebra mussel, quagga mussel, Conrad's false mussel, New Zealand mud snail, etc.) and the passage of Senate Bill 238 in 2008 have prompted the update of this policy as part of an effort by the Utah Division of Wildlife Resources (DWR) to prevent introduction of AIS. This policy addresses requirements for obtaining an entry permit to import aquatic animals into Utah from areas endemic to AIS or from states east of or intersected by the 100th Meridian. At the present time the endemic states west of the 100th are California, Nevada, Arizona, and Colorado.

Dreissena (zebra mussel, quagga mussel, Conrad's false mussel) Treatment or Testing Protocols

To satisfy import requirements, all importers of aquatic animals to be shipped into Utah shall either treat or test for *Dreissena* mussels prior to shipment. All import states intersected by or east of the 100th Meridian and endemic states west of the 100th Meridian shall use the following **treatment** protocol or they may be considered exempt from treatment by completing the variance request.

TREATMENT^{1,2} protocol and verification notice: The owner/operator of the source facility shall verify completion of the following treatment requirements and complete sections A, B & D of the *Notice of Treatment or Testing, Variance, and Distribution of AIS* form:

- One hour pretreatment of the fish and water with 750 mg/L potassium chloride (KCl) (0.63 lb of KCl per 100 gallons of water) followed by 2 hour treatment of the fish in the same water with 25 mg/L formalin (9.5 ml or 0.33 fluid oz of 37% formaldehyde per 100 gallons of water);
- 2. Place treated fish in pretreated fish transport tanks or unused plastic bags containing mussel-free well water;
- Complete, sign, and FAX (801-538-7169) the attached Notice of Treatment or Testing, Variance, and Distribution of AIS form to UDAF at PO Box 146500, SLC, UT 84114;

All states west of the 100th Meridian and <u>not</u> endemic to *Dreissena* mussels are exempt from treatment and shall meet the following testing protocol.

TESTING protocol and verification notice: The owner/operator of the source facility shall complete sections A, C & D of the *Notice of Treatment or Testing, Variance, and Distribution of AIS* form to verify:

- 1. All aquatic animals in the shipment have been reared and transported in well water that is verified free of *Dreissena* mussels and AIS and the transport tank has been disinfected prior to loading;
- 2. The source farm is inspected annually for AIS by a competent authority, is certified clean, and the last inspection report is attached;
- 3. I have examined the export facility waters, aquatic animals, and transport tank for AIS listed on the UDAF *List of Aquatic Invasive Species* and did not detect the listed AIS. The New Zealand mud snail and other species on the UDAF *List of Aquatic Invasive Species* are not found within 100 miles of my facility.

Following the review of this notice, UDAF will contact the import applicant, transport and/or hatchery manager regarding the entry permit.

¹Reference for treatment protocol: Edwards, WJ, Babcock-Jackson, L, DA Culver. 2002. Field testing of protocols to prevent the spread of zebra mussels *Dreissena polymorpha* during fish hatchery and aquaculture activities. NA Journal of Aquaculture 64:220-223.

²Reference for survival of fish treated with the above protocol: Edwards, WJ, Babcock-Jackson, L, DA Culver. 2000. Prevention of the spread of zebra mussels during fish hatchery and aquaculture activities. NA Journal of Aquaculture 62:229-236.



UTAH DEPARTMENT OF AGRICULTURE AND FOOD

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Notice of Treatment or Testing, Variance and Verification

Log #	
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Instructions: Complete EITHER sections A, B, and D OR sections A, C, and D, then sign, date, and forward to UDAF.			
A.	Owner or Exporter		
	Address		
	Phone/FAX Email		
	Current Utah Fish Health Approval Number		
	Name of export facility (if other than above)		
	Species, size/age, and number of aquatic animals proposed for export to Utah		
(;	the undersigned, verify that the TREATMENT of the above-listed animals and/or transport vehicle for <i>Dreissena</i> mussels zebra mussel, quagga mussel, Conrad's false mussel) was conducted by me on the below date according to Utah policy rescribed in this policy. I further verify that I have inspected the transport vehicle and that no adult mussels are in the ransport vehicle or in the transport water used for shipment. If another treatment was used, please specify here:		
	the undersigned, verify that I have completed all the below TEST requirements or I request that a VARIANCE from TREATMEN or <i>Dreissena</i> mussels and/or other AIS be granted by UDAF based on the following information (check all applicable boxes):		
	I request a variance from treatment and specify the reasons by checking all appropriate boxes below:		
	I do not request a variance from treatment and specify the test information by checking all appropriate boxes below:		
	I have examined the export facility waters, aquatic animals, transport vehicle and transport water for AIS listed on the UDAF <i>List of Aquatic Invasive Species</i> and did not detect AIS		
	My state is west of or not intersected by the 100th Meridian		
	None of the species of <i>Dreissena</i> mussels as defined under section B above is found within my state		
	None of the species of <i>Dreissena</i> mussels as defined under section B above is found on my farm		
	The New Zealand mud snail is not found at or within 100 miles of my facility		
	The fish/eggs to be exported to Utah were reared for all life stages in well water free of <i>Dreissena</i> mussels and other AIS		
	The fish/eggs will be shipped to Utah in well water free of <i>Dreissena</i> mussels and other AIS		
	The transport tank has been disinfected prior to this shipment to Utah, is always disinfected following each shipment and does not harbor AIS. Disinfection method used:		
	My farm is inspected annually for AIS by a competent authority, is certified clean, and the last inspection report is attached		
	Specify date of most recent AIS training, inspector's name		
	and name and phone number of training organization.		
	Other reasons (specify)		
	Name of the watershed infested with <i>Dreissena</i> mussels, which is closest to my farm:		
	Name of other watersheds harboring AIS, and distance from my farm:		
	Other pertinent AIS control information:		
	VERIFICATION OF DISTRIBUTION OF AIS		
	l, the undersigned, verify to the best of my knowledge that the species listed on the UDAF <i>List of Aquatic Invasive Species</i> are not found at or within 100 miles of my facility. If other than stated above, the name(s) of the watershed(s)and of the aquatic invasivespecies closest to my facility are as follows: Name(s) of AIS:		
	Watershed name and distance of AIS infested watershed from my facility:		
	I further verify the statements made here are true and correct.		