

Aquatic Invasive Species

Addressing AIS in New Mexico



Stop Aquatic Hitchhikers!™



Invasive mussels will devastate boats, fisheries and recreation areas!

After boating, conduct these essential decontamination steps:

1. **CLEAN** all plants, fish, mussels and mud from boat.
2. **DRAIN** all ballast, motor, bilge and livewells.
3. **DRY** (7 days summer, 18 days spring/fall or 30 days winter) or freeze (3 days) your equipment.

OR

If your boat has been in infested waters for an extended period of time, or if you cannot perform the required steps above, you should have your boat professionally cleaned with high-pressure scalding hot water (>140 °F) before transporting to any body of water.



If you see these mussels,
call 1-877-STOP-ANS (1-877-786-7267)

Dreissenid mussels

Zebra Mussels



Quagga mussel



Ballast Water Exchange – Great Lakes zebra/quagga invasion begins in the 1980's

Ballast Water

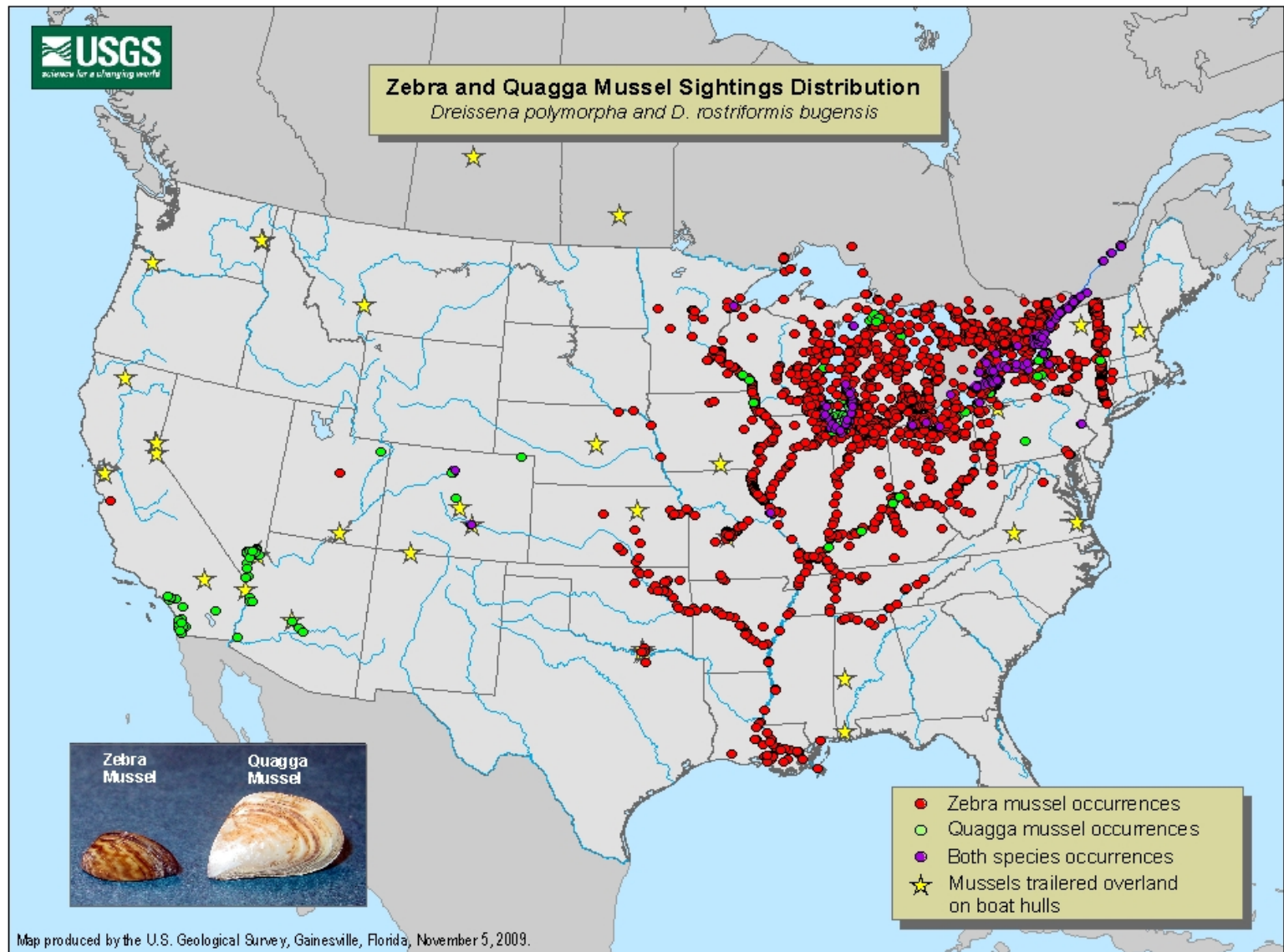
Native to Caspian Sea



Mussel Distribution 1988



Mussel Distribution 2009



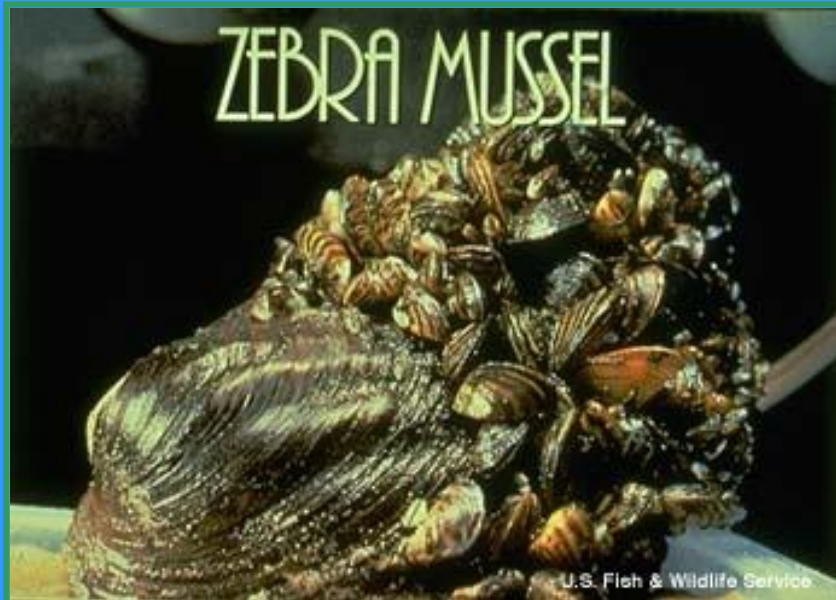
Impacts to Native Wildlife



Habitat loss: zm covered substrate



Zebra mussels on a crayfish



Zebra mussels attached to freshwater mussels



Damage: Water-based Recreation



Damage: Obstruction of Water Control & Delivery Systems



Trash Rack



Penstock Gate

What's at Risk in NM?

- **Storage reservoirs**
- **Surface water delivery systems**
- **Municipal water supplies**
- **Irrigated agriculture & ranching**
- **Hydroelectric power generation**
- **Water-based industry**
- **Water-based recreation- fishing, boating, swimming**

AIS Control Act

HB 467 Unanimously Passed March 2009

AN ACT

RELATING TO GAME AND FISH; PROVIDING FOR AUTHORITY FOR THE
CONTROL AND PREVENTION OF THE SPREAD OF AQUATIC INVASIVE
SPECIES IN NEW MEXICO; DECLARING AN EMERGENCY.

AIS Control Act

- **Director NMDGF with Concurrence of NMDA and in Consultation with EMNRD:**
 - **Designate AIS**
 - **Designate infested water bodies**
 - **Specify decontamination requirements**
- **Both NMDGF and NMSP are authorized to create regulations as necessary to implement and enforce the AIS Control Act.**

May 28, 2009

19.30.14 NMAC

Providing for the control and prevention of the spread of aquatic invasive species.

PROGRAM EMPHASES

- **Education**
- **Monitoring**
- **Interdiction**
- **Decontamination**



STOP Aquatic Hitchhikers!



✓ Clean ✓ Drain ✓ Dry



Monitoring & Early Detection

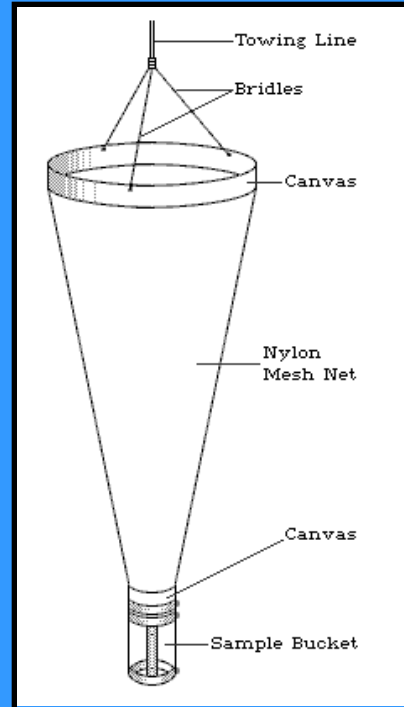
Plankton tow



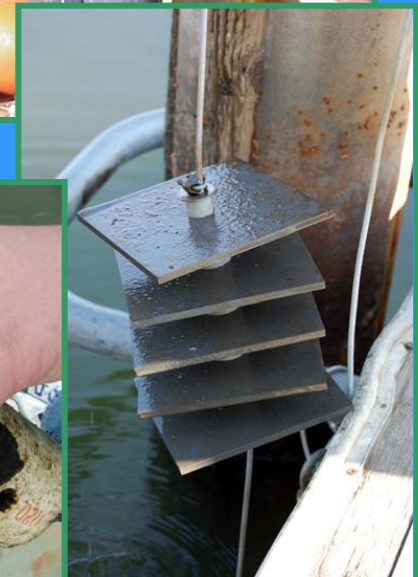
Genetic: PCR



Microscopic



Artificial Substrates



Interdiction

Front Line Defense

- Marina Owners/Managers
- NMSP Staff and Officers
- Corps Staff
- NMDGF Staff and Officers
- Volunteers
- Marina Support
- Public Support
- Watercraft User Support

Trained personnel: Individuals who have successfully completed the USFW's AIS watercraft inspection and decontamination training, level 1 or level 2.

Level 1- Inspection

MRGCD	1
BIA	2
USFWS	2
BOR	11
USCGA	12
USACE	33
NMSP	44
NMDGF	54
Total =	159

Level 2- Decontamination

NMDGF	1
BOR	1
USFWS	2
USACE	5
Total =	9



Photo Courtesy of Michael Porter, USACE

Amended Law, House Bill 113

- Clarify requirements of boat owners for demonstrating that a conveyance has met decontamination requirements.
- Expand who may be trained, and the sources of training for inspectors.
- Allow for the placement of a warning tag on a conveyance or equipment if an inspector has information that the conveyance is coming from an infested water.
- Allow those acting in an official capacity to possess AIS.
- Require the Director to immediately recommend to the entity in control of a water body that has been determined to be infested to limit access and take steps to prevent the potential spread of AIS.

Proposed Rule Changes

**To Align with the Amended Law
&
Provide Clarity**

Questions?

06/11/2009