

Nebraska Zebra Mussel Management

ALLISON ZACH, COORDINATOR





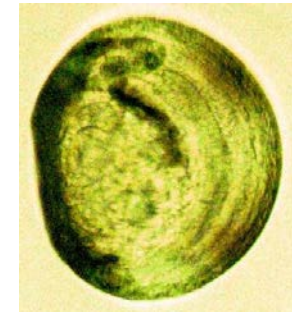


Lake Zorinsky (Omaha)

- 2009 beer can found by boy scout
- USACE drew down 255 acre lake 17 feet in winter 2010
- Refilled in 2011 & reopened in 2012



- Public report in May 2016-found one on a fishing line
- Took water samples the next day
- Veliger was identified by NISP on 5/25
- On 6/22 MT lab confirmed veligers (3 life stages observed)
- USACE and NGPC technicians surveyed for adult mussels
- eDNA confirmed week before July 4th
- Was then considered a suspect waterbody

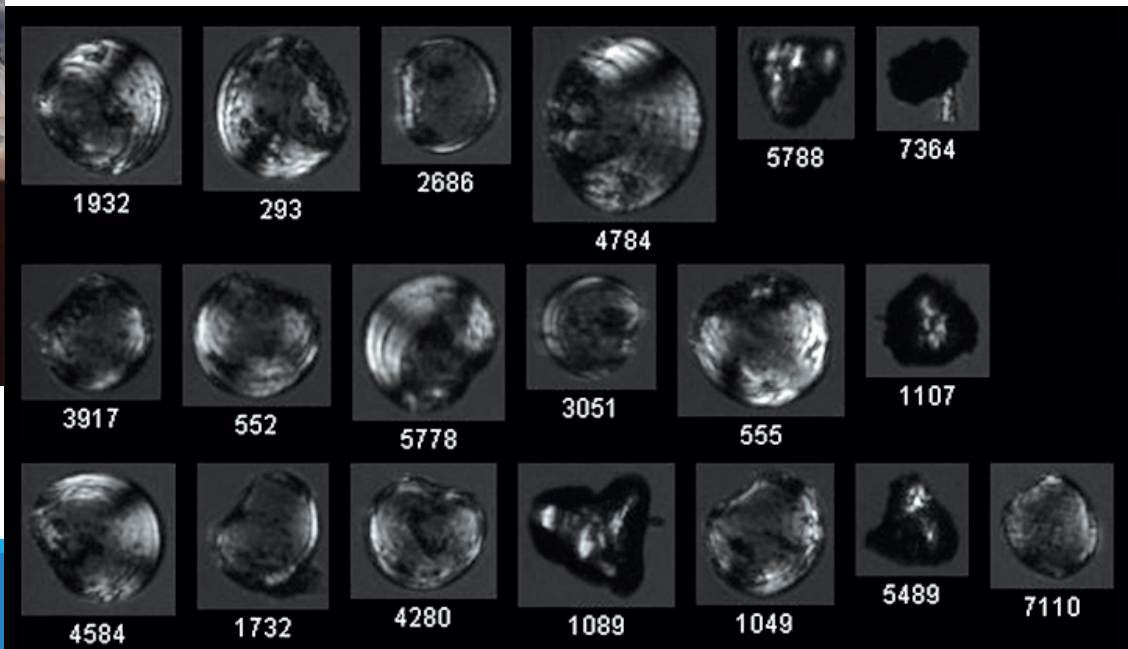
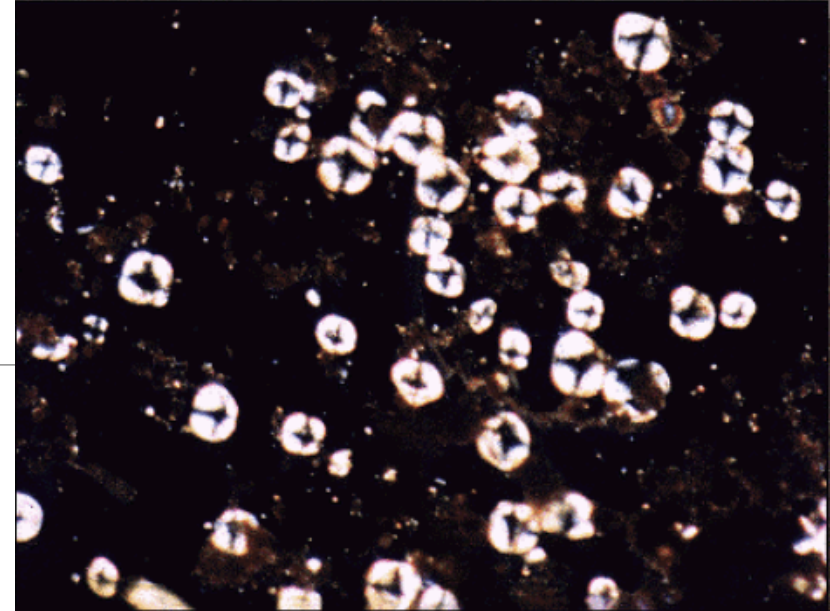
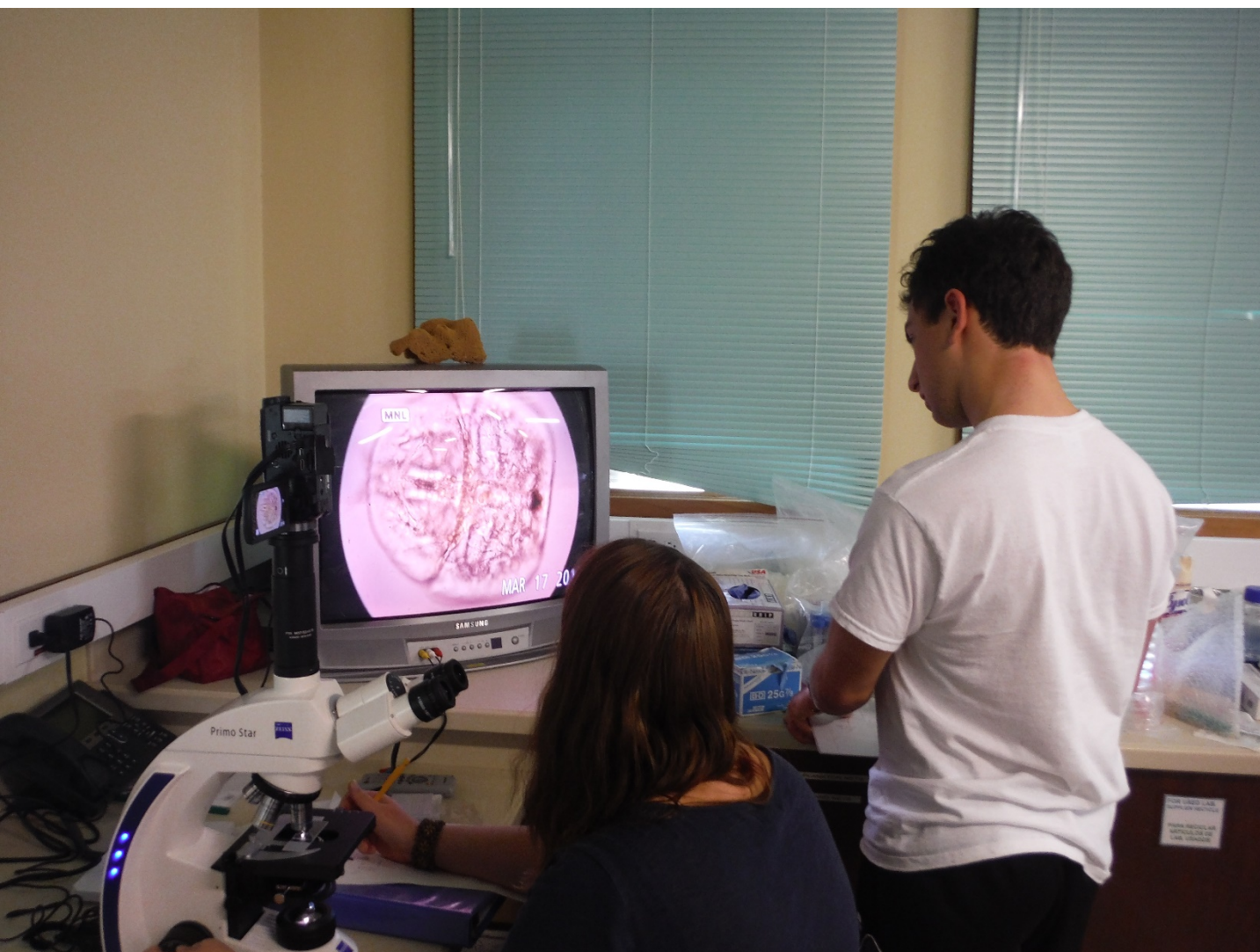




3 separate plankton tows on 5/24







Confirmed veligers found from
sample collected here



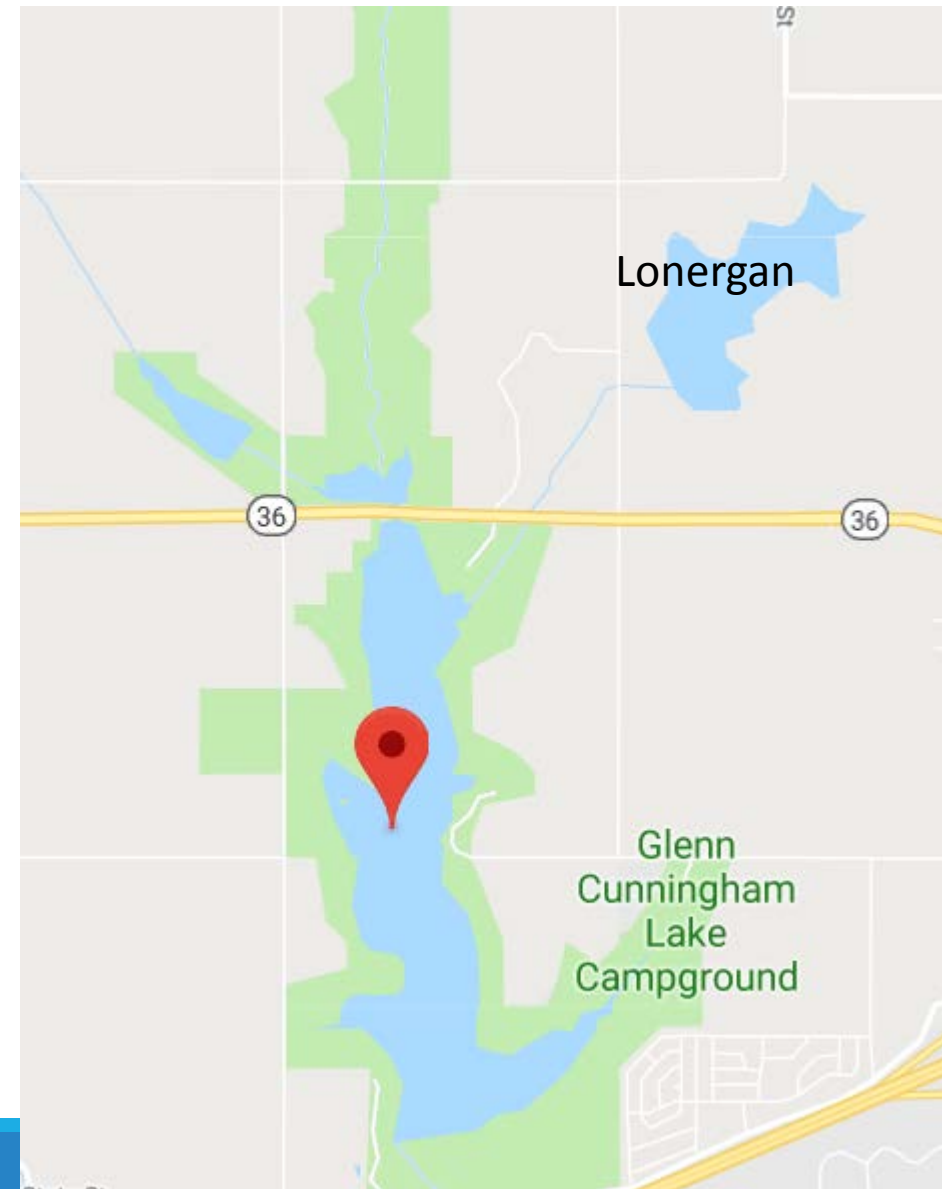


NGPC Technician searched for adult ZM in these areas 6/25

- Suspect waterbody signage was posted
- Intensive sampling in 2017 and 2018
- Will be considered suspect until June 2019 if no adult or veliger is confirmed

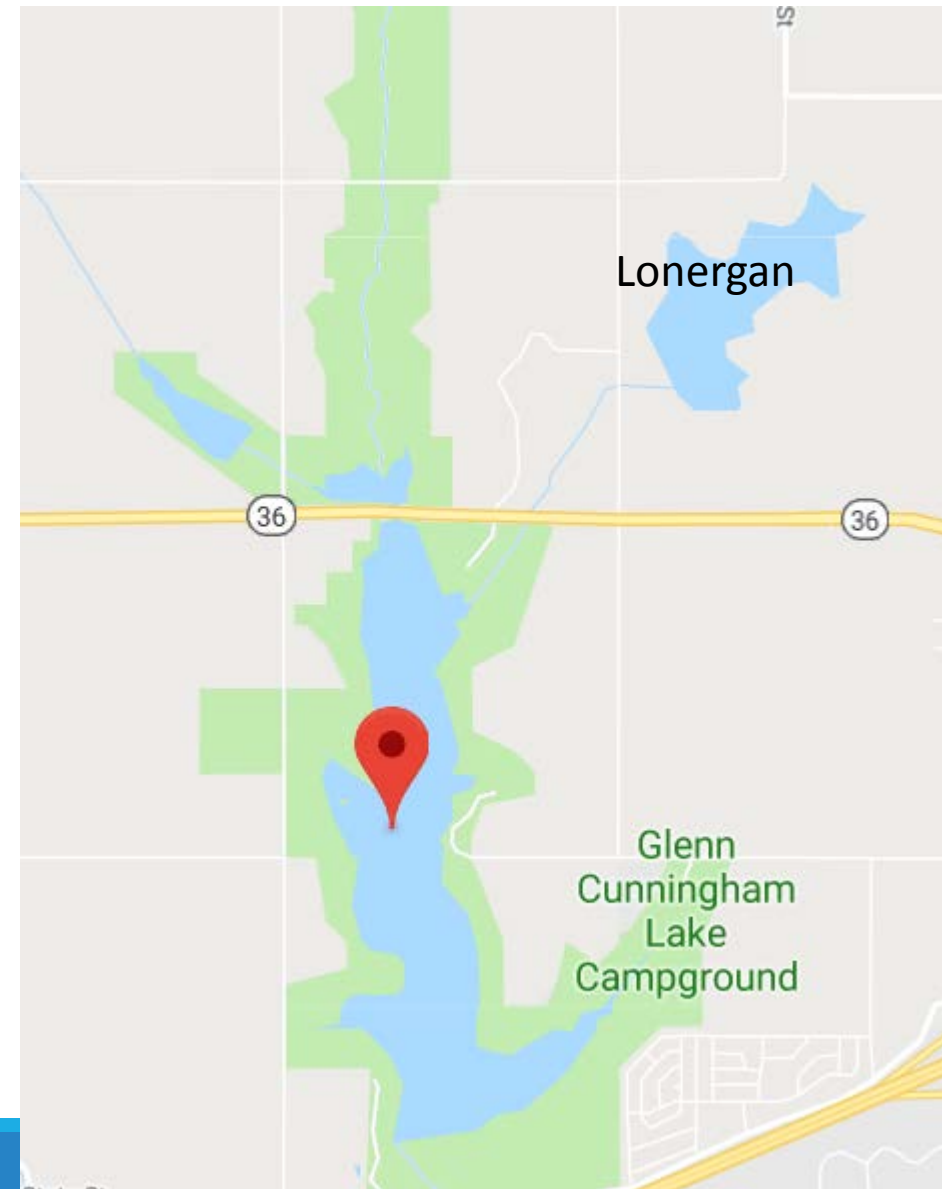
Glenn Cunningham Lake

- 337 acres in Omaha, NE
- Many frequently used waterbodies in the area
- 300 boat slips and 20 stay year round
- May 24th veliger sample came back positive in July
- Juvenile zebra mussels found on a sampler in July
- In July NGP, USACE, City of Lincoln and NRD met
- Decided to August to write an EA to draw down the lake
- Letter went to slip owners
- Boat launches were closed
- Signage was put up at lake and surrounding lakes
- October-December draw down



Glenn Cunningham Lake

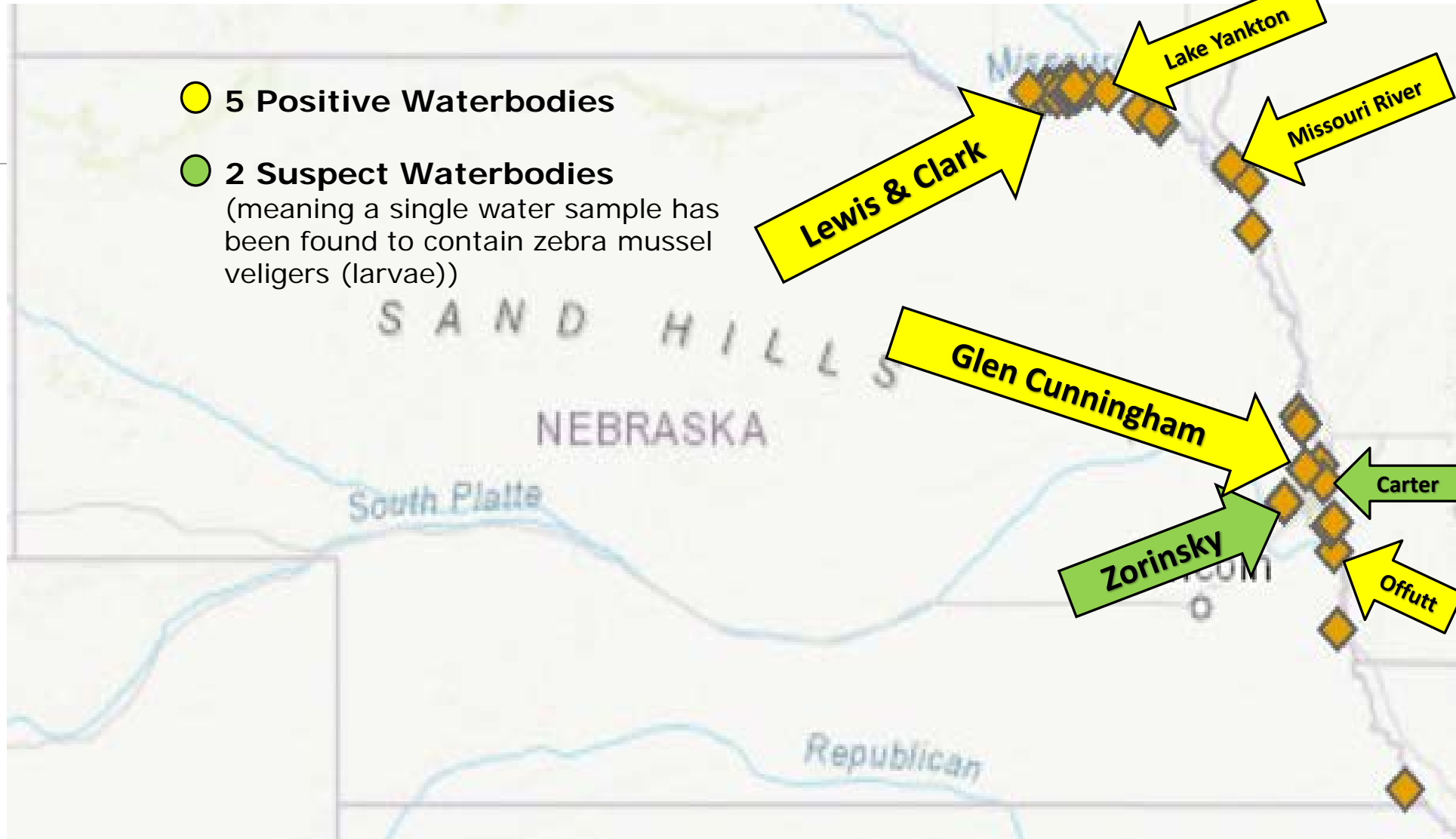
- Lake restoration including rotenone to remove Asian Carp
- Allow lake to refill after complete drawdown
- Determine access allowed after lake is refilled



● 5 Positive Waterbodies

● 2 Suspect Waterbodies

(meaning a single water sample has been found to contain zebra mussel veligers (larvae))



Future Zebra Mussel Treatment Option

- Substantial research is being done to determine an open water solution
- Watercrafts are being designed with coatings, filters and seals designed for decontamination and non-attachment of mussels
- Research is underway to determine viability in ballast tanks and engines
- Early detection with eDNA could be a future tool

Nebraska's AIS Prevention Program



Nebraska's AIS Prevention Program

- **AIS Program funded by motorboat fee**
- **Regulations-** must drain watercraft, pull plug, allow inspections
- **Watercraft inspection & boater surveys**
- **Sampling waterbodies for AIS**
- **Decontamination equipment**
- **Outreach materials & messaging**

Watercraft Inspections & Surveys

- > 25,000 surveys between 2011 and 2018
- 98% drained & dried after last use
- 98% of inspections with no risk factors





LIGHTS

REACH TOOL

BRUSH

REMOTE CONNECTIVITY

BLOWER

VACUUM

CONCRETE BASE

STOP INVASIVE SPECIES

CD³
WATERCRAFT
CLEANING STATION
BY BOATERS FOR BOATERS

CLEAN. DRAIN. DRY.

EVERYONE LIKES A CLEAN BOAT
SILVER CARP
E. ASIAN WATERMILFOIL

Allison Zach

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NEBRASKA INVASIVE SPECIES PROGRAM

HOME ADVISORY COUNCIL ABOUT SPECIES EVENTS RESOURCES CONTACT US REPORT A SIGHTING

HELP TO STOP
AQUATIC HITCHHIKERS!

CLEAN DRAIN & DRY YOUR WATERCRAFTS

LEARN MORE

USEFUL FIELD GUIDES
GRAB THESE GUIDES TO HELP YOU IDENTIFY INVASIVES IN NEBRASKA

ALERT!
LOOK OUT FOR **Zebra & Quagga Mussels**

UPCOMING EVENTS
WATERFEST AT HOLMES LAKE PARK
JUNE 7 @ 5:00 PM - 7:00 PM
JUNE ADVISORY COUNCIL MEETING
JUNE 13 @ 10:00 AM - 12:00 PM
VIEW ALL EVENTS

SHOW ALL POTENTIAL THREAT PRIORITY FOR REPORTING ESTABLISHED IN NEBRASKA

POTENTIAL
ALGAE - DIDYMO
Didymosphenia geminata
Water algae that attaches to rocks, plants, or other stable underwater structures and can form large, unattractive "blooms."
LEARN MORE **REPORT SIGHTING**

PRIORITY
ASIAN CLAM
Corbicula fuminea
May compete with native clams; can infest and interfere with irrigation systems and canals, and block water flow through industrial water intake pipes.
LEARN MORE **REPORT SIGHTING**

ESTABLISHED
BULLFROG
Rana catesbeiana
Have an enormous appetite and can eat anything they can swallow, including birds, fish, crustaceans, bats, snakes, turtles, and other frogs.
LEARN MORE **REPORT SIGHTING**

PRIORITY
CARP
Various species: common carp, bighead carp, black carp, grass carp, silver carp
LEARN MORE **REPORT SIGHTING**

ESTABLISHED
CHINESE MYSTERYSNAIL
Cipangopaludina chinensis
Can compete with native snail species.
LEARN MORE **REPORT SIGHTING**

ESTABLISHED
Heterosporosis
HETEROSPOROSIS
Scientific Name
Heterosporosis description.
LEARN MORE **REPORT SIGHTING**

Learn More at: Neinvasives.com