

North Dakota's Aquatic Nuisance Species Program

Water Topics Overview Committee

North Dakota Game and Fish Department
September 22, 2016



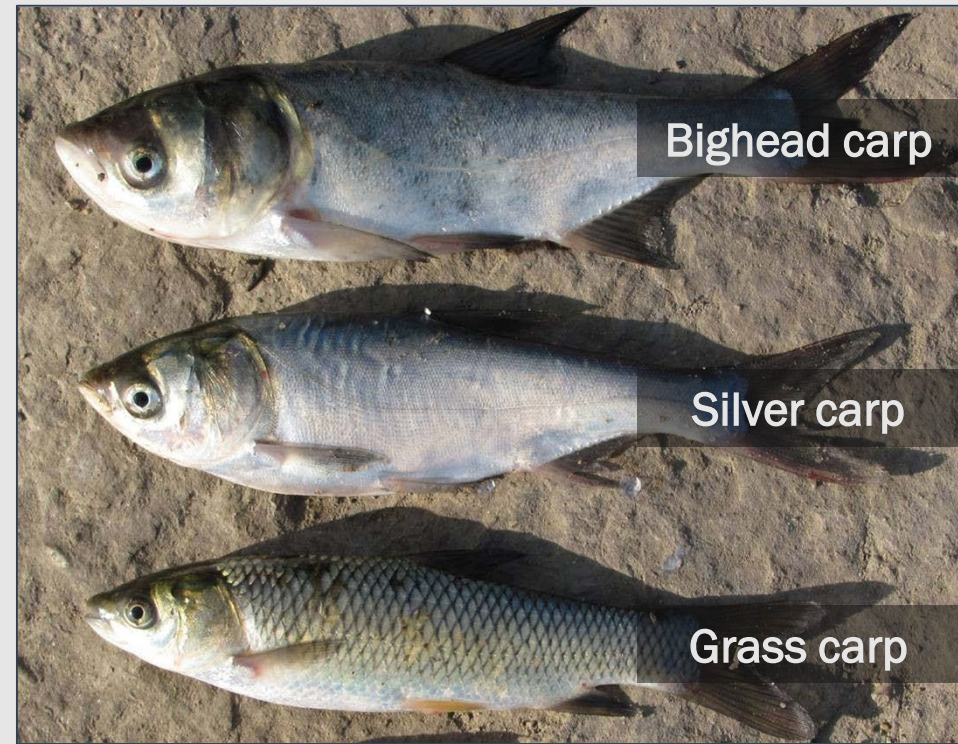
Background

❖ Aquatic nuisance species (ANS)

- Non-native species
- Spread rapidly
- Outcompete native species
- Cause harm (ecological, economic, or social)

❖ Pathways for spread

- Natural – downstream drift, upstream migrations
- Human – movement of organisms or water
 - Accidental – as contaminants (shipping, recreation, etc.)
 - Intentional – aquaculture, pets, horticulture, etc.



Background

- ❖ North Dakota Statewide ANS Management Plan (2005)
 - Outlined potential harm to North Dakota
 - Identified strategies to address pathways and issues
- ❖ Aquatic Invasive Species Committee (2005)
 - Multiple interests represented
 - Led by the ANS Coordinator (NDGF)
 - Works to implement ANS Management Plan
- ❖ NDGF administrative rules
 - In place since 2008
 - 2016 drain plug regulation



Goal: to protect ND's resources for the future

ANS in North Dakota

- ❖ Limited populations of four species:
 - **Curlyleaf pondweed (2002)**
 - Missouri River and a few lakes around state
 - **Eurasian watermilfoil (2009)**
 - Sheyenne River, eradicated from Dead Colt Creek
 - **Silver carp (2011)**
 - James River up to Jamestown Reservoir Dam
 - **Zebra mussels (2010)**
 - Established population in Red River since 2015
 - Larvae detected in very low numbers since 2010



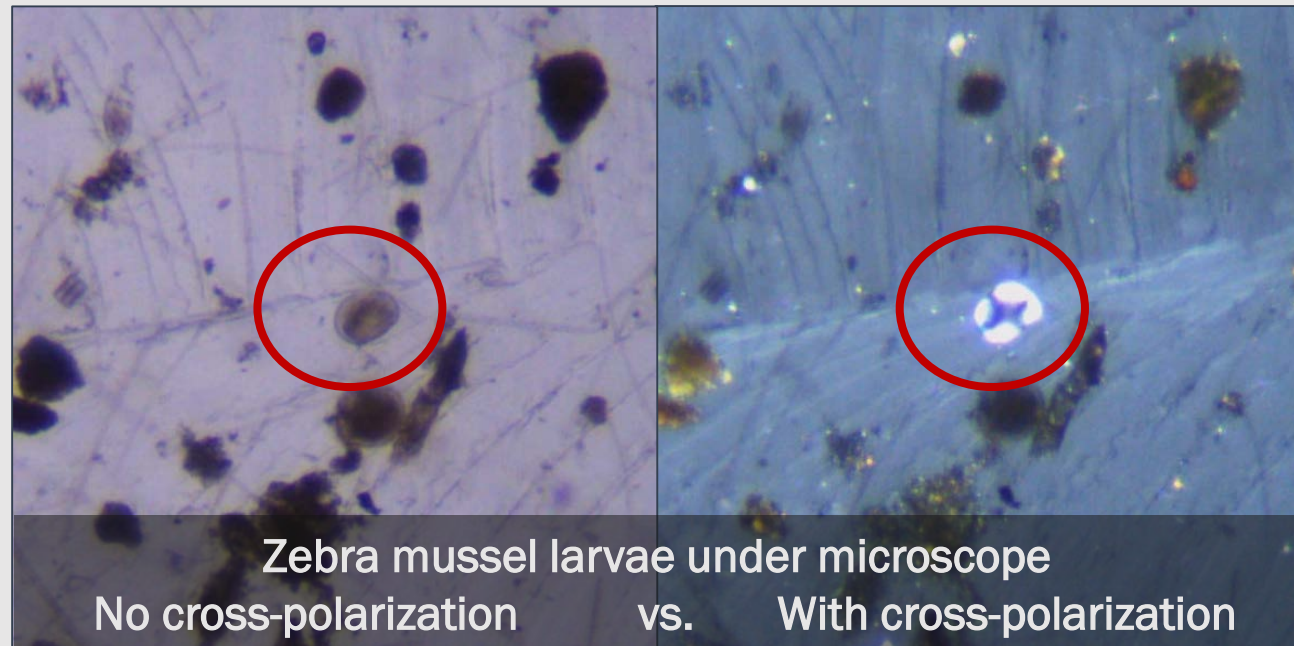
Red River Zebra Mussels

❖ Timeline

- First larvae found in 2010 (one individual)
- A few larvae found in 2011, then three in 2014
- 200-6,000 larvae found per sample in June 2015
- Adults were found in September and October 2015

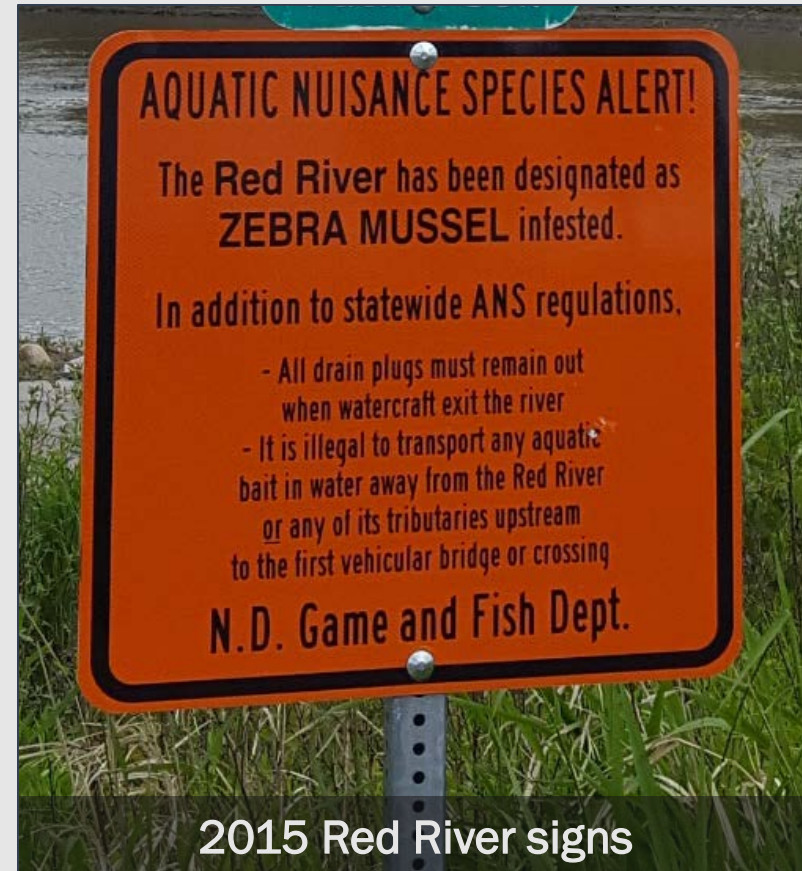
❖ Collaboration

- Manitoba shared results
- Basin meetings (MB, MN, ND)
- Red River Basin Commission



Response to Zebra Mussel Finding

- ❖ Emergency rules enacted in 2015
 - Drain plugs must be removed for transport
 - No bait water when leaving Red River
- ❖ Water permitting – State Water Commission
 - Specifications for water discharge
 - On dry land, no overland flow
 - Keep Red River water from infesting new areas
 - Equipment cleaning requirements
- ❖ Increased educational efforts
 - Focus on regulations and preventative steps
 - Utilize NGO partners to help promote message (FOLS)
 - Multi-media approach (signage, radio, webcasts, billboards, etc.)



2015 Red River signs

Statewide ANS Activities

❖ Prevention

- Education – best tool, heavy emphasis
- Regulation – allows enforcement

❖ Monitoring

- Routine work – ~200 waters per year last 3 years
- Targeted sampling – known populations or high-risk waters

❖ Control

- Education – prevent spread of existing populations
- Regulation – allows enforcement
- Management efforts – drawdowns, chemicals, etc.

❖ Coordination

- Involve interested parties and key authorities



2016 Highlights

- ❖ No new infestations detected
- ❖ Monitoring – results and analyses pending
 - 120 lake reports entered so far, likely around 200 (previous years)
 - 30 waterbodies, statewide, specifically sampled for zebra mussel larvae
 - Monthly zebra mussel larvae density samples from Red River
- ❖ Boater surveys and inspections – in-depth analyses pending
 - Goal was to get and provide information on ANS and regulations
 - Over 430 voluntary surveys and inspections conducted statewide
 - No ANS found on boats, positive feedback to inspectors
 - 71% of boaters were from North Dakota
 - 97% had heard of zebra mussels (only 5% had been impacted), 71% heard of other ANS
 - Support for our outreach efforts and those of neighbor states



Inspection training

Summary

- ❖ ANS threaten ND's natural resources
- ❖ Limited ANS populations and impacts currently in ND
- ❖ NDGF coordinates a strategic effort to address ANS issues
 - Incorporates interested parties and other authorities
 - Heavy emphasis on education with regulations for enforcement
 - 2016 allowed for expansion of ANS efforts
 - Goal is to protect ND's natural resources for the future



For more information, please
visit our website at gf.nd.gov/ans

