Ohio's Grass Carp Response







Grass Carp Focus Area



Addressing the Knowledge Gaps





- Ploidy analysis: fertile vs. sterile
- Commercial fishermen: removal
- Egg/Larvae sampling: early life history
- Telemetry: seasonal movements
- Modeling: spawning and hatching locations
- Vegetation mapping: food availability/impact

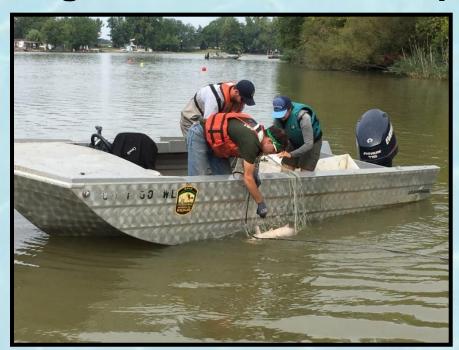
Grass Carp Detections in 2017

- 1. Identify tributary use
- 2. Aggregations
- 3. Inter-basin movements



2018 Targeted Response

- Locations were informed by telemetry
- Timing overlapped with suitable spawning conditions
- Increased capacity through Mutual Aid Agreement for AIS Response





2018 Targeted Response

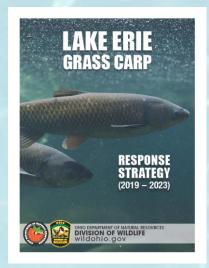
- High effort and participation
 - 63.7hrs TN; 70.5hrs EF
 - 71 people
- Tandem electrofishing best
- 30 Grass Carp captured
 - 27 Sandusky
 - 3 Maumee
- 75% of Grass Carp removed
- Future targeted removal





Ohio's 5-Year Response Strategy

Prevent diploid Grass Carp from becoming further established in the Lake Erie basin and as the science develops, eradicate them from Lake Erie.



Outcome 1: Prevent Further Introduction / Expansion

- Objective 1.1 Secure Supply Chain
- Objective 1.2 Insure Secure Bait Trade
- Objective 1.3 Close Knowledge Gaps / Understand Life History

Outcome 2: Manage Grass Carp Populations

- Objective 2.1 Removal & Prevention
- Objective 2.2 Engage Commercial Netters
- Objective 2.3 Evaluate Use of Innovative Control Technologies

Moving Forward

- Grass Carp Removal Program
- Ramp up real-time tracking
- University of Toledo and MSU
- Barrier Assessment

