

Asian Carp Threat in Ohio: Actions Being Taken to Minimize Their Risk

To Conserve and improve Fish and Wildlife resources and their Habitats for sustainable use and appreciation by all



John Navarro
Aquatic Invasive Species Program Administrator

“Asian carp reproducing in Sandusky River and still nothing done”

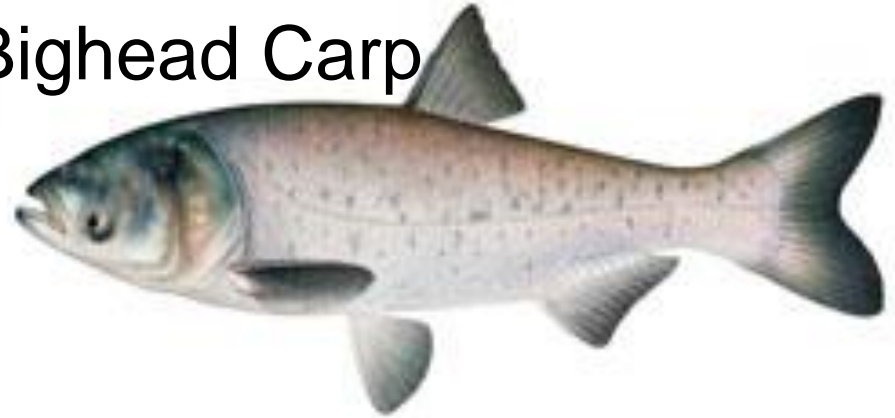


Invasive Carps

Silver Carp



Bighead Carp



Grass Carp

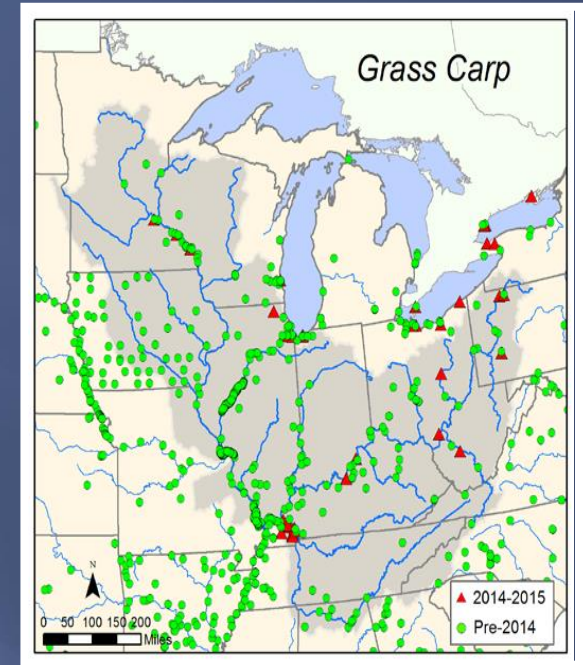


Black Carp



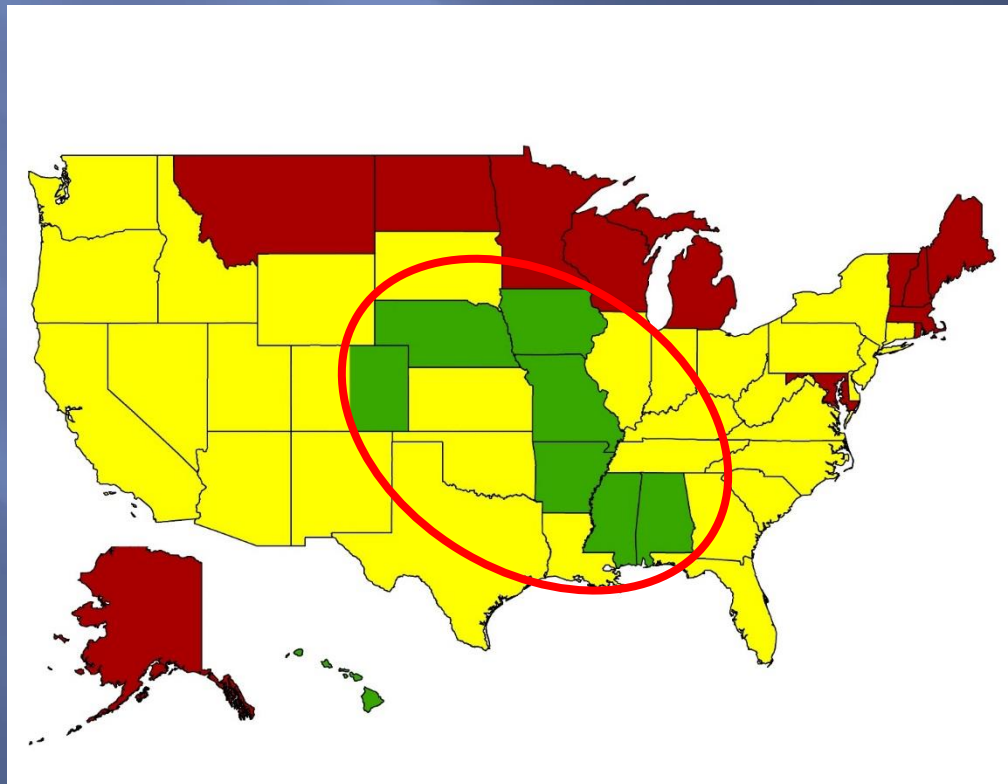
Grass Carp in the Great Lakes

- Brought to U.S. in 1963
- Sterile fish required in 1980's
- Detected in LE in 1980's
- Regulations/Enforcement
 1. State regulations
 2. Active enforcement
- Impact on habitat

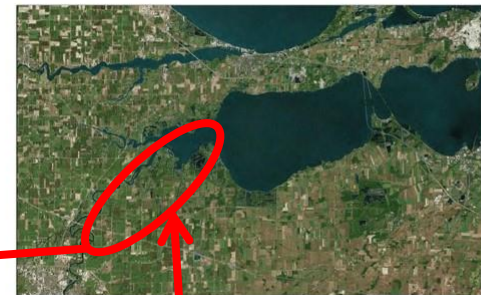
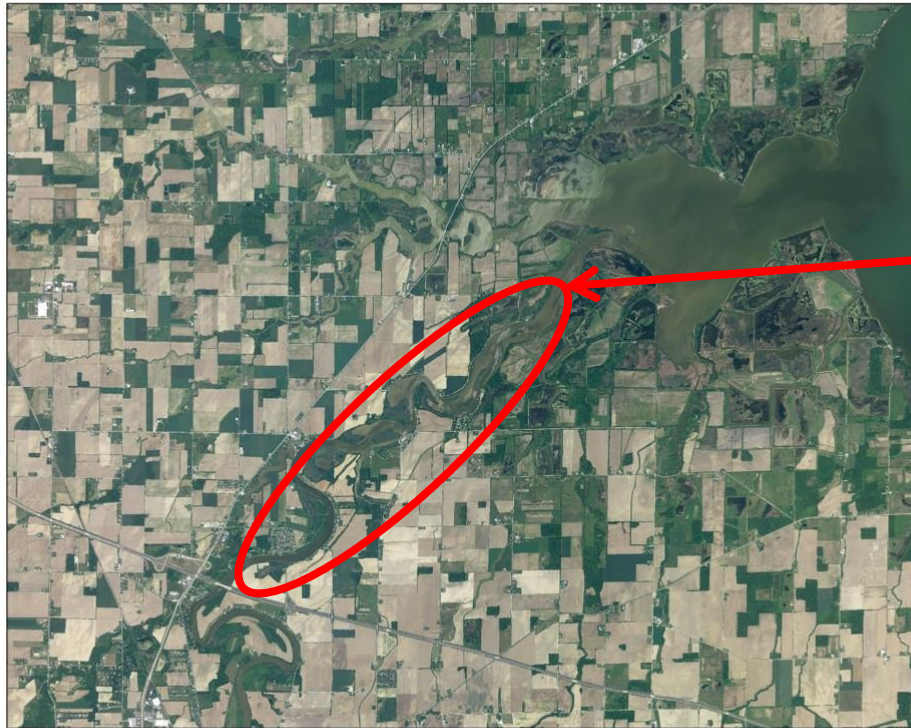


Grass Carp Regulations in the US

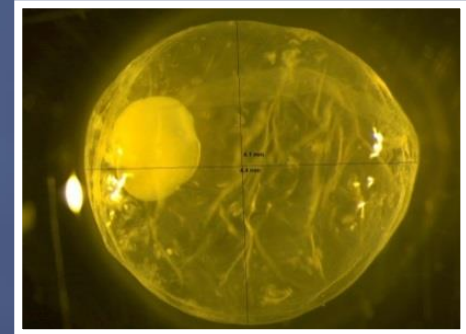
- Grass carp prohibited
- Diploid states
- Triploid states



Sandusky River and Sandusky Bay



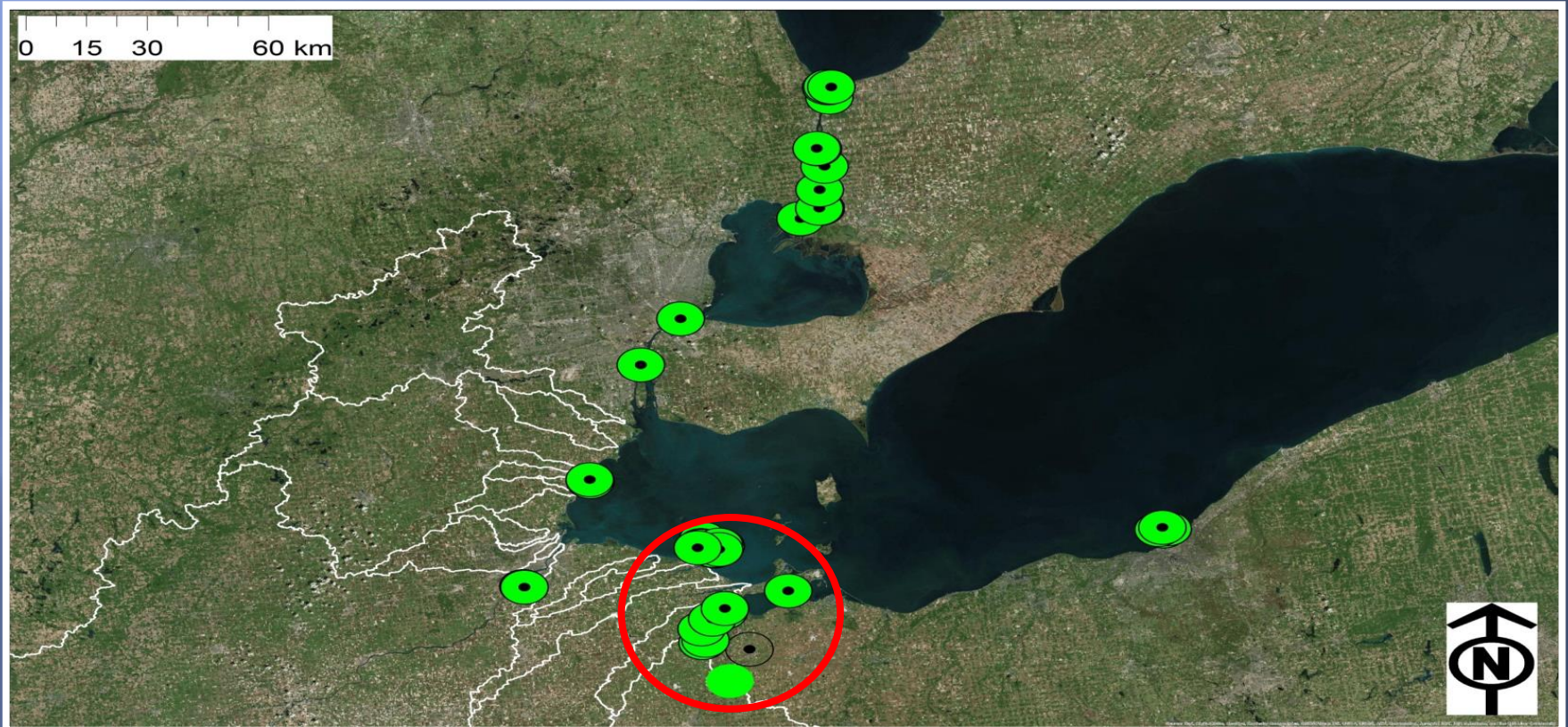
Addressing the Knowledge Gaps



- 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

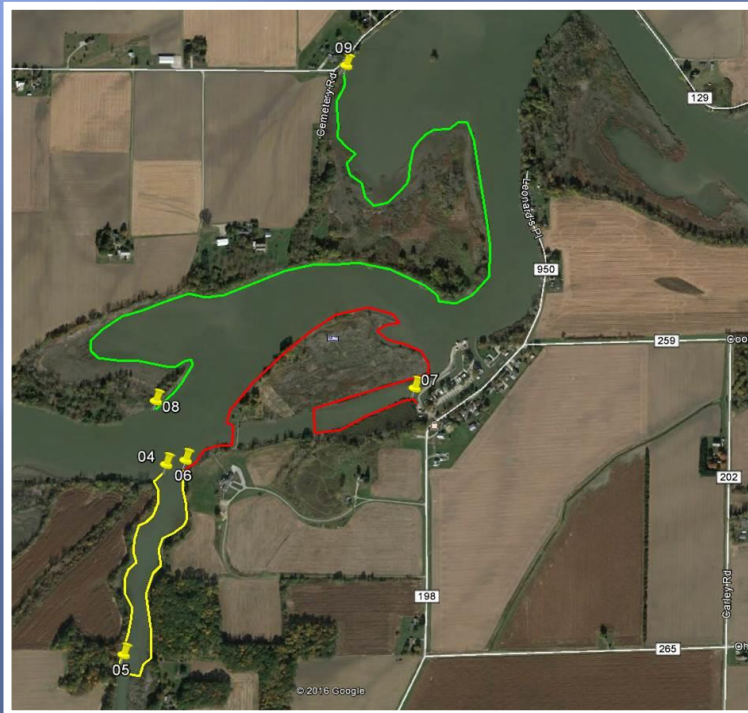
Grass Carp Detections in 2017

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



Planned Action

Goal: Use a collaborative multi-agency approach in 2017 to refine sampling methodologies in preparation for large-scale effort in 2018



- Evaluate various gears
- Increase proficiency
- Work collaboratively
- Determine demographics.

The Partnership



- 43 individuals from 7 organizations
- August 29-30, 2017
- Coincided with USFWS netting
- USGS - ploidy testing support
- Six mini fyke nets
- Six electrofishing & three netting vessels

The Effort



- **Three combined gear methods tested:**
 1. **Electrofishing - trammel net enclosures**
 2. **Electrofishing - gill net enclosure**
 3. **Electrofishing - gill nets as block nets**
- **156 hours of effort**

The Results

- DFO Methodology Best (EF/TN)
- Eight Grass Carp Collected
- All Diploid
- Length (672 mm – 1,043mm)



Their Habitats



2018 Planned Action (June 11 – 16)

Grass Carp numbers are low but at more than incidental levels which reinforces the importance of continued control/manage/eradicate efforts.



5-Year Response Strategy

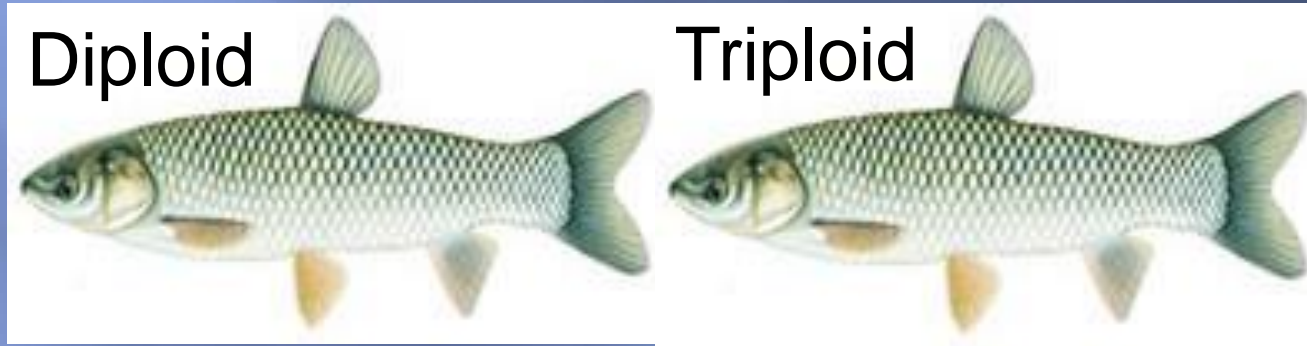
- Collaborate & Integrate with Partners Critical
- Utilizing Recommendations from SDM Process
- Science-Based Approach
- Inform & Develop Most Effective Removal Strategies





Operation “Laundering”

Grass Carp Supply Chain



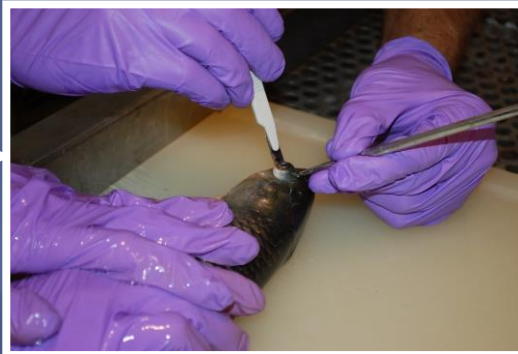
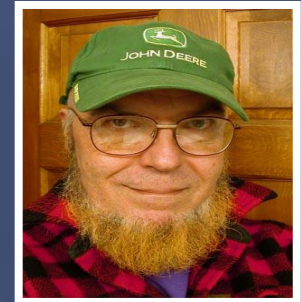
+



+



=



Live Bait and Angling Bait Shop Surveillance



Live Bait and Angling

Quick ID Guide for Bait

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

Quick ID Features for Baitfish

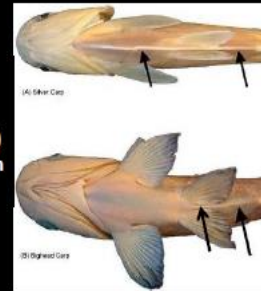
DEALER EDITION

PUB 5487-D



Silver Carp, Bighead Carp and Gizzard Shad

**Silver Carp
(Invasive)**
No scales on keel.



**Gizzard Shad
(Native)**

Rounded snout,
conspicuous
dark spot
behind head,
keel with saw-
like scales



Keel with saw-like scales

John Lyons

Live Bait and Angling Outreach

WHY do WE hunt?



For sustenance and pleasure

TRASH UNUSED BAIT.

HELP STOP INVASIVE SPECIES

Great Lakes RESTORATION

CLEAN DRAIN DRY

U.S. FOREST SERVICE

www.CleanDrainDry.org

DEALERS WANTED!

DOUBLE GRAVITY

RUGGED • DURABLE • M... THEY'RE RACCOON WILDERNESS

It's A BUCK M...

ORDER 1

407.620

SO SATISFIED THEY ORDER

Jo R. of FL: Bought 2, Now Owns 19
 Barry B. of GA: Bought 2, Now Owns 8
 Charlie D. of LA: Bought 2, Now Owns 6
 Richard H. of OH: Bought 2, Now Owns 7
 Arthur L. of LA: Bought 1, Now Owns 5

TRASH UNUSED BAIT.

MINNOWS & WORMS STOP INVASIVE SPECIES

www.CleanDrainDry.org

LAMAR

TRASH UNUSED BAIT.

HELP STOP INVASIVE SPECIES

OHIO DEPARTMENT OF WILDLIFE

CLEAN DRAIN DRY

U.S. FOREST SERVICE

www.CleanDrainDry.org

“~~Asian~~ Grass carp reproducing in Sandusky River and a unified effort underway to address the problem ~~still nothing done~~”



Questions

