## Sandusky River Grass Carp Planned Action

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



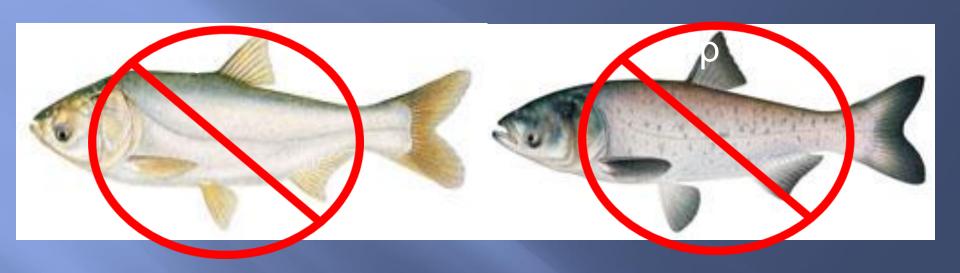
## "Asian carp reproducing in Sandusky River and still nothing done"

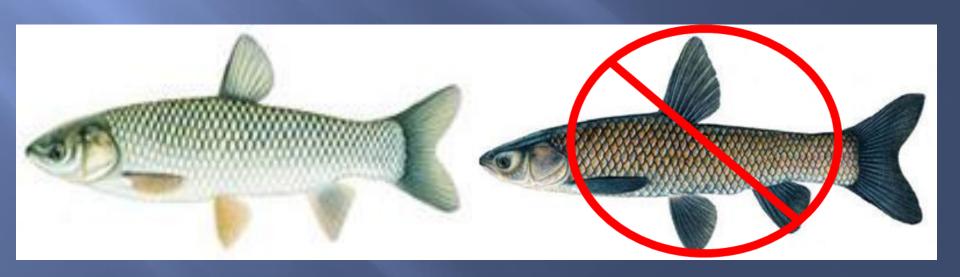
"Asian Grass carp reproducing in Sandusky River and a unified effort underway to address the problem still nothing done"

#### **Need to Communicate the Three E's**

- Established
- Eradication
- Expectations

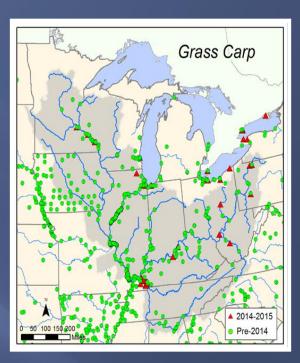
## **Invasive Carps**





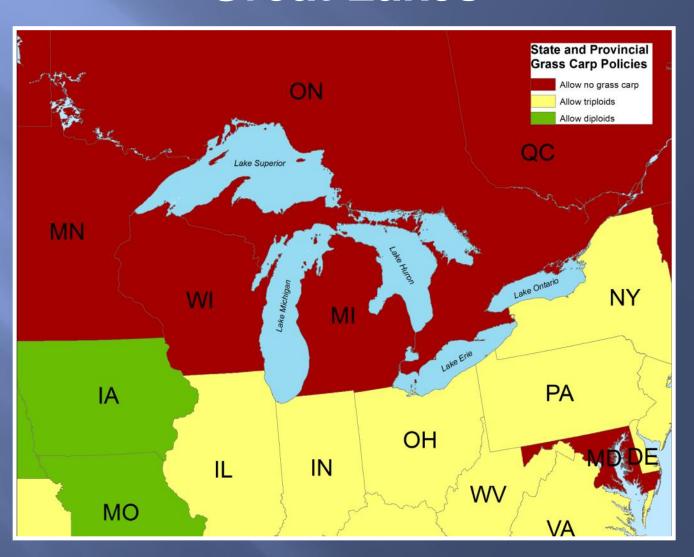
### **Grass Carp in the Great Lakes**

- Originally brought to U.S. in 1963 for biocontrol
- First detected in Lake Erie in 1980s
- Regulations in place to mitigate risk of spread
  - State regulations vary
  - Active enforcement





## Grass Carp Regulations in the Great Lakes



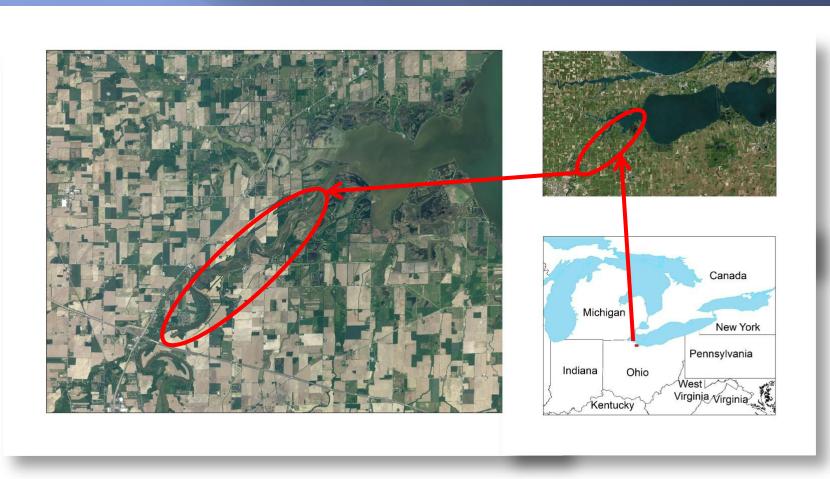
### Addressing the Knowledge Gaps





- 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

## Sandusky River and Sandusky Bay



#### **Planned Action**

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



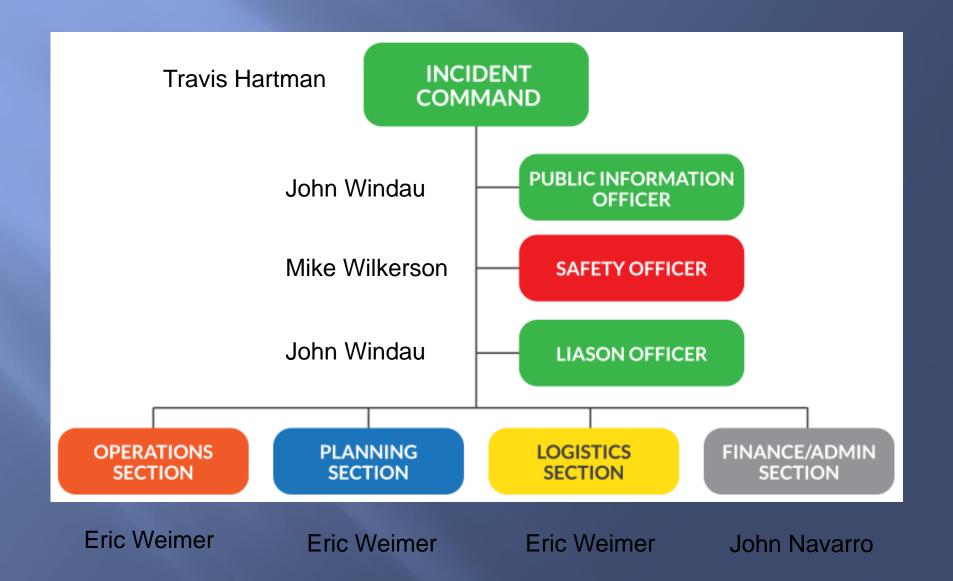
- Evaluate various gears
- Increase proficiency
- Work collaboratively
- Determine demographics

### **Mutual Aid Agreement**

Basis for Action: The parties shall consider actions when there are opportunities to prevent or address serious threats from AIS



## **Incident Command System - Light**



# The Partnership



- Forty-three individuals from 7 organizations
- Field effort was on August 29-30
- Coincided with USFWS netting Sandusky Bay
- USGS provided ploidy testing support
- Six mini fyke nets set in the Sandusky River
- Six electrofishing and 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
- 26 hours of electrofishing effort
- 20 hours of gill net effort
- 14 hours of trammel net effort
- 96 hours of mini fyke net effort

#### The Results

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



### Field Lessons Learned

- ICS structure worked well
- Coordination among crews was great
- Crews learned about the river system and what gears and techniques worked best
- Important when considering the buy-in from staff



#### **Future Actions**

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

- This action will inform the nature of the 2018 action.
- Finalize goal/vision for the 2018 action.
- Link the 2018 action into the SDM process.





## Lake Erie Fisheries Management

## A Joint Strategic Plan for Management of Great Lakes Fisheries

#### **Lake Erie Committee**

- Michigan
- Ontario
- Ohio
- Pennsylvania
- New York



#### What We Will Do in the Future

- We will continue to gain knowledge
- We will evaluate potential to control
  Grass Carp at specific locations using
  sound science



Ensure that the Incident Command Center is Well Hydrated

