

Asian Carp Threat to the Ohio Basin

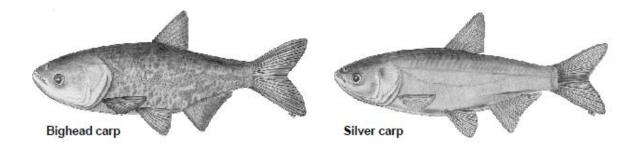
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Mission: To protect, conserve, and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities

Asian Carp: Bighead & Silver



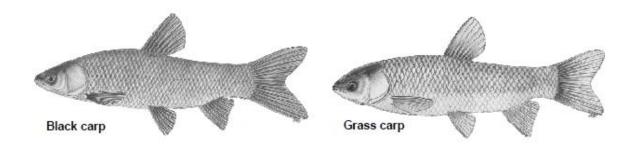
www.asiancarp.us



Management and Control Plan for Bighead, Black, Grass, and Silver Carps in the United States

Submitted to the Aquatic Nuisance Species Task Force Prepared by the Asian Carp Working Group

November 2007





Asian Carp Regional Coordinating Committee

The ACRCC, with support from Federal, state, and local agencies, and private stakeholders and citizens, are creating a sustainable Asian carp control program to prevent the establishment of an Asian carp population in the Great Lakes.





Asian Carp Threat in Illinois River

Adult Population Front

Starved Rock Lock & Dam

Distances from Lake Michigan

37 miles **★**Dispersal barriers

55 miles | Adult Population Front

62 miles Presence of Adults/Potential Spawning

152 miles Verified Spawning

Asian carp fronts have not advanced since 2007

Presence of Adults Potential Spawning

Lockport Lock & Dan

Marseilles Lock & Dam

Chicago Lock & Dam

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Brandon Road Lock & Dam

Dresden Island Lock & Clam

La Grange Pool Lock & Dam

Verified Spawning

ACRCC



USGS Asian Carp Science Exclusion-Detection-Attraction-Removal

Partner-Driven Science Strategy

- Developing new tools and methodologies
- Working to transfer these tools to managers
- Approach can be applied to other

Current and Future Research

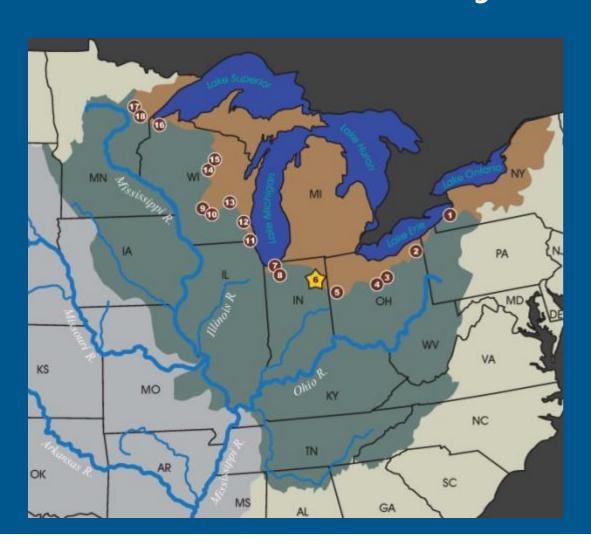
- ✓ Evaluating use of water guns (sound energy waves) to deter and repel Asian carp
- ✓ Developing genetic markers and supporting USACE and FWS on eDNA activities

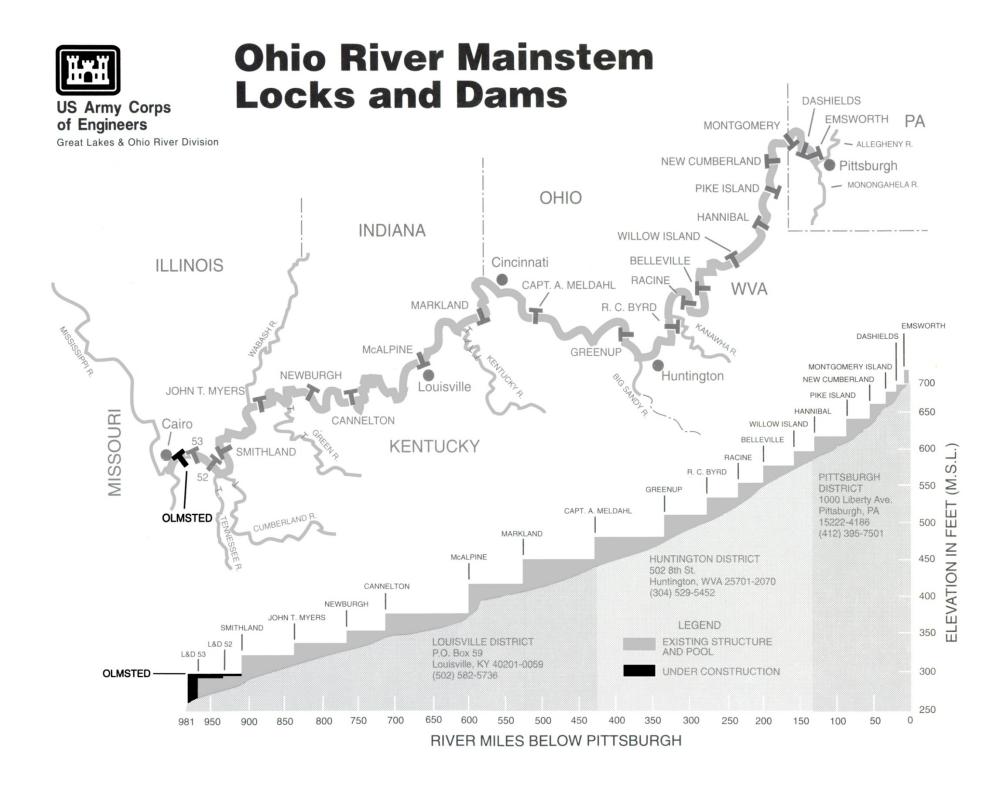
- ✓ Field testing *Tributary*Assessment *Tool* to identify potential river spawning locations
- ✓ Examining food availability in the Great Lakes
- ✓ Using pheromones to attract and "herd" Asian carp
- ✓ Expanding knowledge of Asian carp biology for control tool development and risk assessment
- ✓ Developing toxic microparticles to control Asian carp, minimizing effects on non-target species





Great Lakes and Mississippi River Interbasin Study



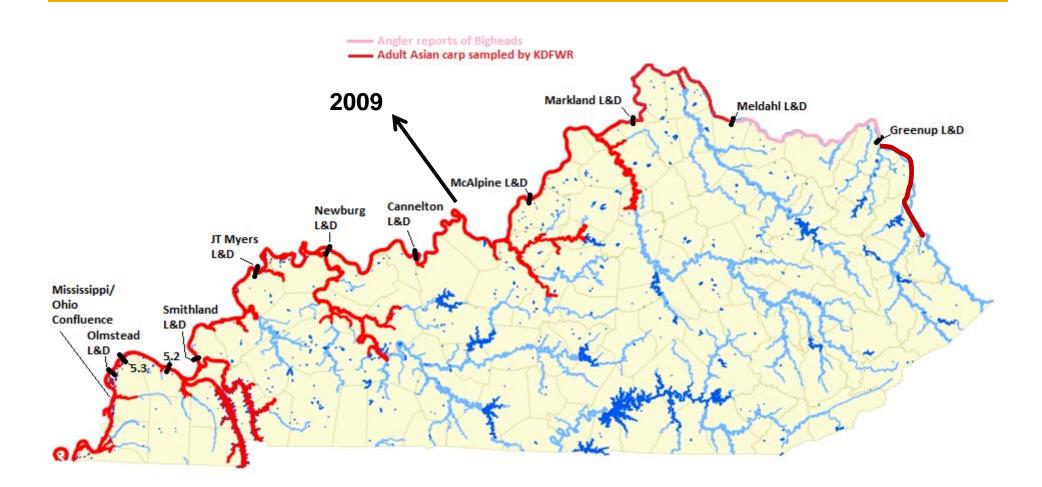


Lake Erie and Ohio Watershed Counties

- 247,000 resident and non-resident fishing licenses
 - ~\$5.6 million annually
 - 34% of total statewide sales
- 105,000 Lake Erie Permit/Combo permits
 - ~\$1.5 million annually
- 115,400 boat registrations
 - 35% of total statewide sales
- Ecological Impacts
 - French Creek



Asian Carp Movement

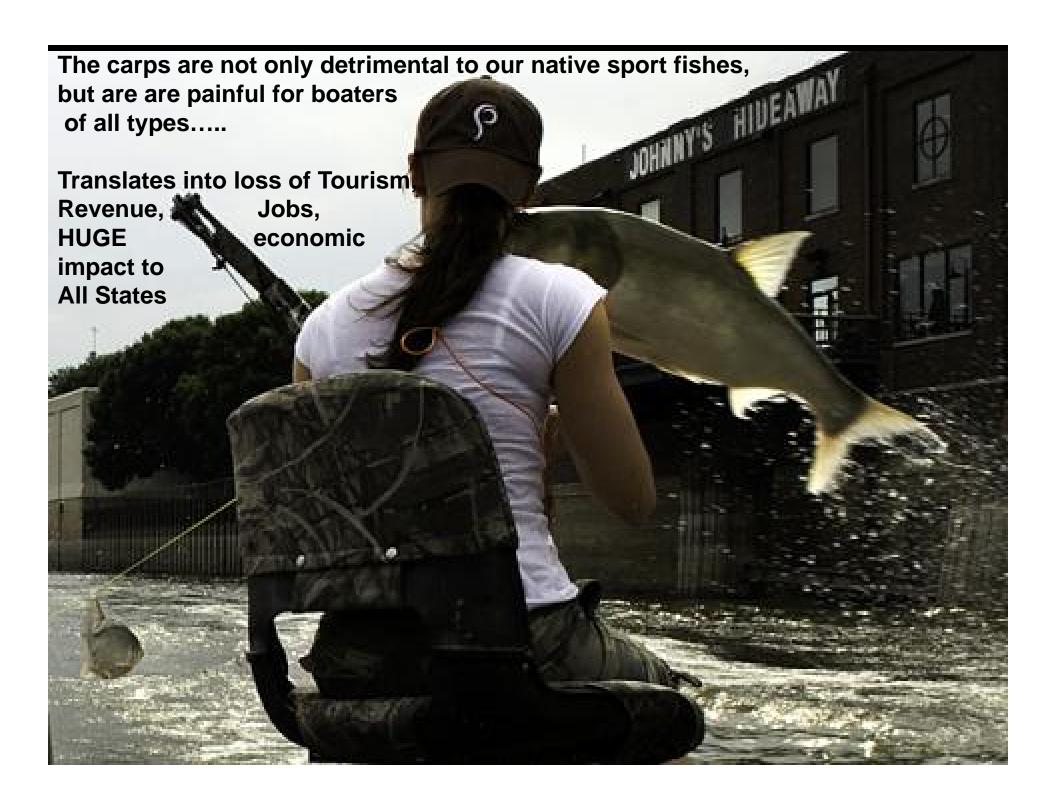


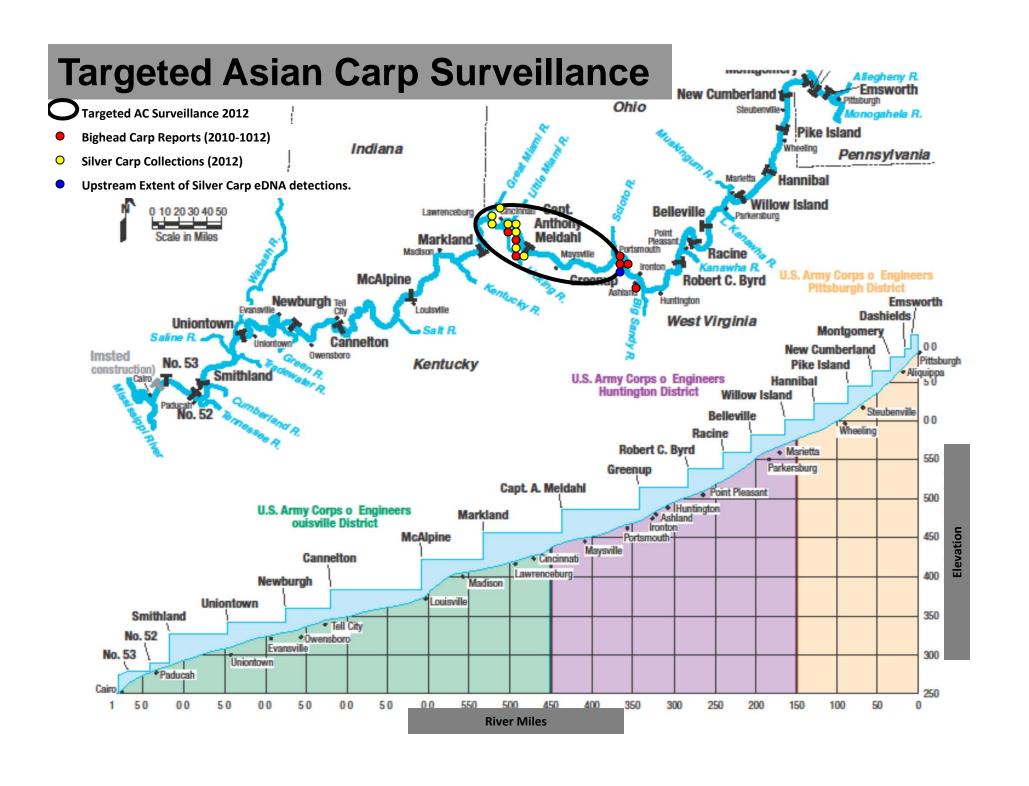




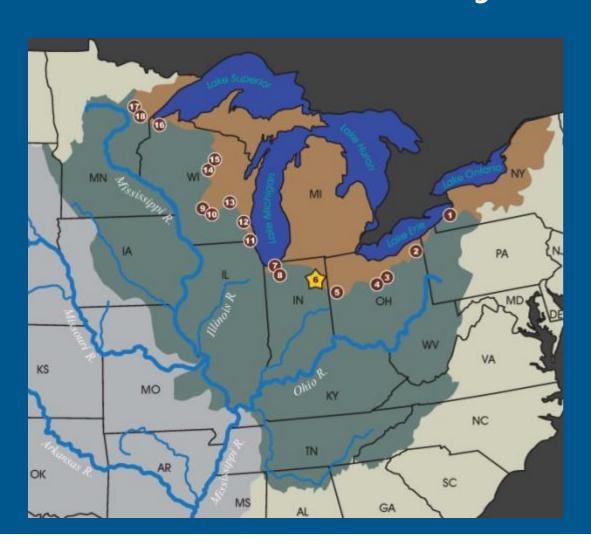
Emaciated Paddlefish In Mississippi River Backwater





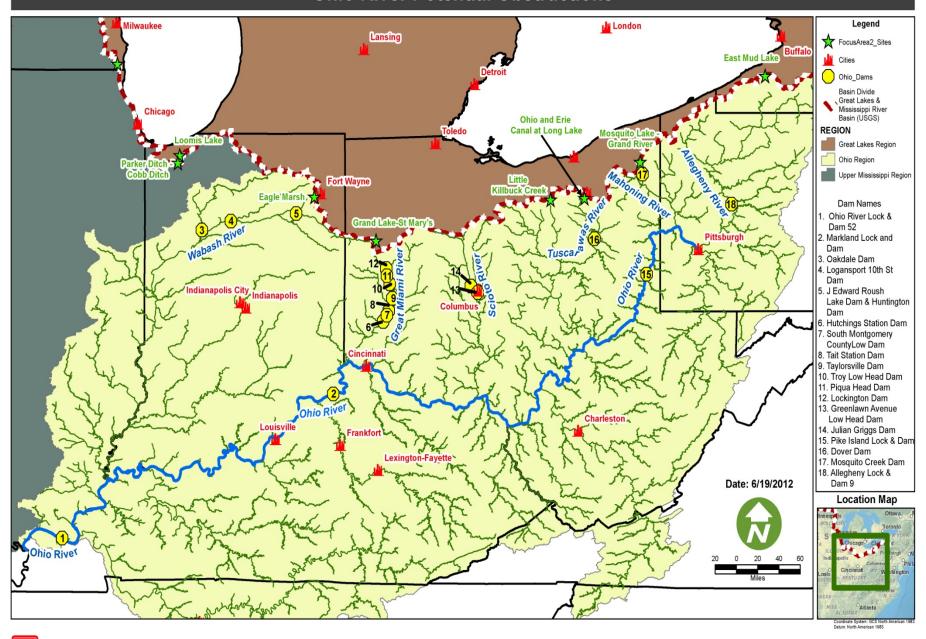


Great Lakes and Mississippi River Interbasin Study



Ohio River Potential Obstructions

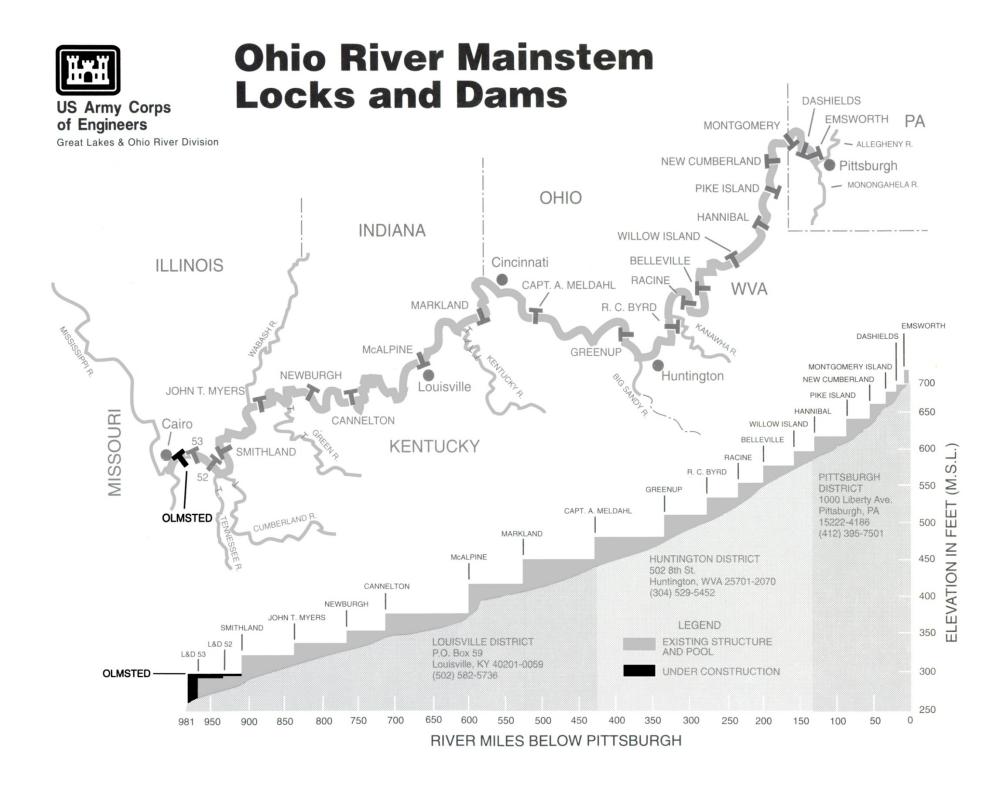
GLMRIS



Interstate Cooperation

- Communications
- Monitoring
 - eDNA (Lake Erie and Ohio Watershed)
- Ohio River Asian Carp Action Plan
 - Early Detection and Response
 - Prevention and Deterrence
 - Mitigation and Control
 - Communication and Outreach
 - *Able to build upon work of ACRCC







ACRCC Transferable Actions Outside of the Great Lakes basin

- eDNA Samping and Calibration
- Gear Development
- Telemetry and New Monitoring Techniques
- Waterguns
- Identifying Distribution of Asian carp
- Coordination and Technical Assistance
- Standardization of eDNA Testing

Ohio River Next Steps

- HR 6385
- Continue Intergovernmental Cooperation
- Complete Ohio River Asian Carp Action Plan
- Fund Implementation Projects
 - ACRCC Framework
 - National Action Plan
 - Base Budgets
- Attack the Leading Edge
 - Learn from Illinois



Discussion

