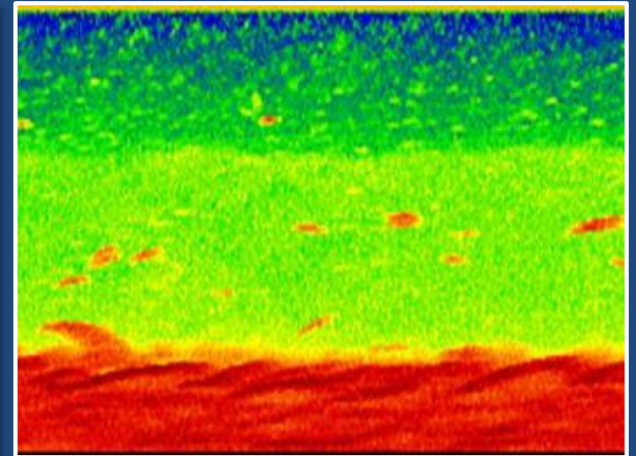




Asian Carp Regional Coordinating Committee

2018 Asian Carp Action Plan Update

May 21, 2018



Mission: Prevent the introduction, spread and establishment of Asian carp in the Great Lakes

**Asian Carp Regional
Coordinating Committee**



Federal
Executive
Committee



Monitoring &
Response
Work Group

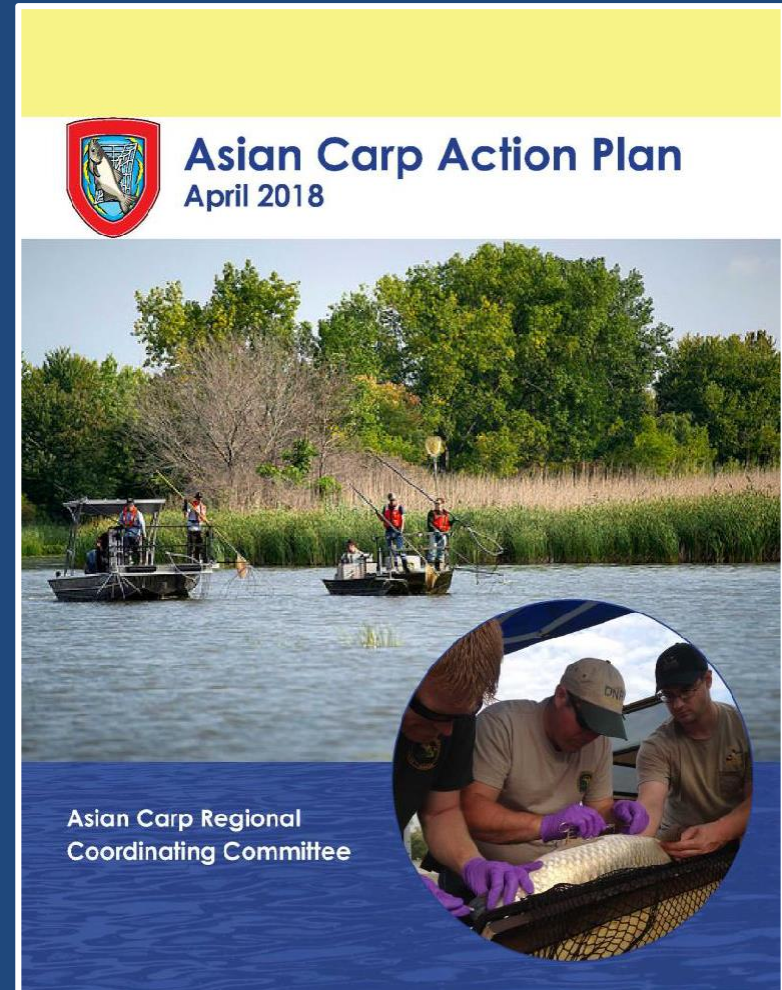


Communications
Work Group

Partnership Planning

2018 Action Plan

- Comprehensive approach to Great Lakes defense
 - *Detection*
 - *Management (Prevention and Control)*
 - *Response*
- Supports annual Monitoring and Response Plan (tactical)
- Supports goals of the National Asian Carp Plan



2018 Action Plan Key Initiatives

Prevention Actions

- New Electric Dispersal Barrier
- Potential Future AIS Control Actions at Brandon Road L&D
- Addressing Secondary Interbasin Pathways



Control Measures

- Increased Use of Targeted Contract Commercial Harvest
- Use of an Asian Carp Population Model for Management Decision Support



2018 Action Plan Key Initiatives

New Control Technology Development

- Pilot Trials for Underwater Sound Deterrents
- Development of CO2 as an Asian Carp Barrier



Early Detection, Monitoring, and Assessment

- Monitoring Upstream/Downstream of Electric Dispersal Barrier
- Comprehensive eDNA Monitoring



Key USFWS Partnership Actions

Monitoring IWW and CAWS

- Monitoring with Remote Sensing at the Barrier
- Fixed, Random Site and Seasonal Intensive Monitoring
- Distribution and Movement of Small Asian Carp
- Des Plaines River Monitoring



USFWS Hydroacoustic transducers ready for deployment



USFWS Paupier Sampling Boat

2018 Action Plan Key Initiatives

Rapid Response Actions

- Interagency Contingency Response Planning

Emerging Threats - Black and Grass Carp

- Development of New Prevention and Control Strategies

Interbasin Collaboration

- Coordination and Leveraging Across Basinwide Partnerships



2018 Action Plan Funding

Agency	Total GLRI Funding	Total Agency Funding
USACE	\$2,465,000	\$18,550,000
USCG	\$50,000	\$5,000
USEPA	\$421,220	\$0
USFWS	\$5,772,000	\$5,600,000
USGS	\$4,706,680	\$4,417,810
NOAA	\$203,100	\$0
NPS	\$75,000	\$0
ILDNR	\$6,032,000	\$0
MDNR	\$325,000	\$350,000
ODNR	\$1,050,000	\$0
TOTAL	\$21,100,000	\$28,922,810

MRWG

Working Groups

2018 Work Group	Lead Agency
Contingency Planning	USACE
Removal	Illinois DNR
Hydroacoustic Assessments	Southern Illinois University
Telemetry	USGS
Modeling	USFWS
Behavioral Deterrent Technologies	USGS

DETECTION PROJECTS (12)

- Seasonal intensive Monitoring of the CAWS
- Strategy for eDNA Sampling in the CAWS
- Larval Fish Monitoring in the Illinois Waterway
- Distribution and Movement of Small Asian Carp in the Illinois Waterway
- Distribution and Movement of Small Asian Carp in the Illinois Waterway Using Telemetry
- Fixed Site Monitoring Downstream of the Dispersal Barrier
- Telemetry Monitoring Plan
- Monitoring Fish Abundance, Behavior, and Species Composition Near the Chicago Sanitary and Ship Canal Electric Dispersal Barrier
- Alternative Pathway Surveillance – Urban Pond Monitoring
- Young-of-year and Juvenile Asian Carp Monitoring
- Des Plaines River and Overflow Monitoring
- USGS Support for Implementation of MRP

MANAGE AND CONTROL PROJECTS (13)

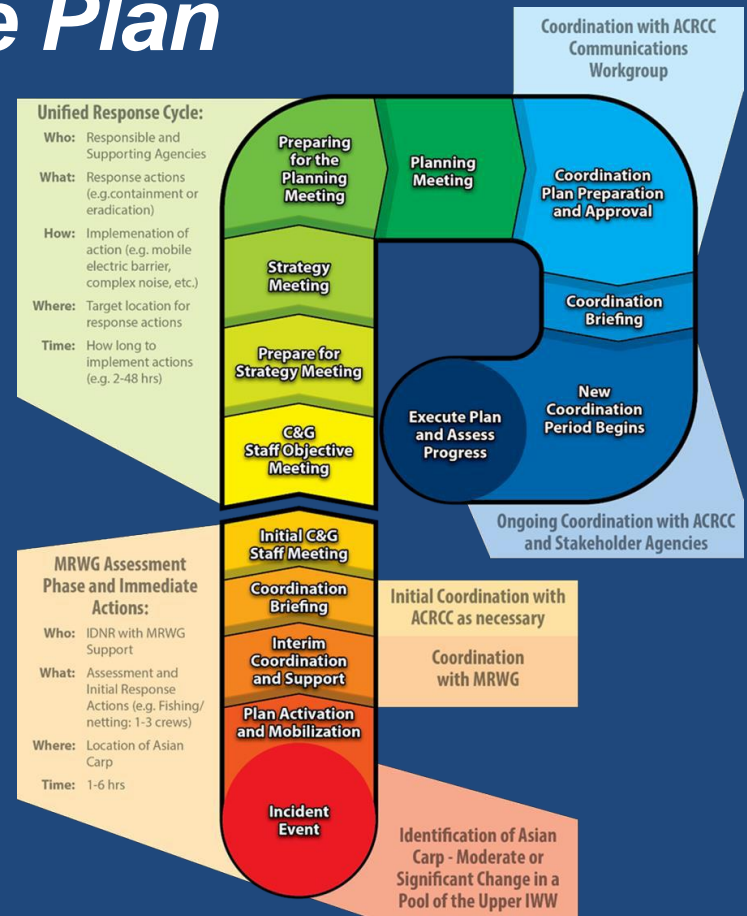
- Barrier Maintenance Fish Suppression
- Barrier Defense Asian Carp Removal Project
- Enhanced Contract Removal
- Barrier Defense Using Novel Gear
- Optimization of Mass Removal Techniques
- Using Long-term Asian Carp Abundance and Movement Data to Reduce Uncertainty of Management Decisions
- Evaluation of Gear Efficiency and Asian Carp Detectability
- Unconventional Gear Development
- Barge Entrainment and Asian Carp Interaction Study and Monitoring Barge Entrainment Dynamics and Assessment of Mitigation Protocols
- Asian Carp Population Modeling to Support an Adaptive Management Framework
- Telemetry Support for the Spatially Explicit Asian Carp Population Model (SEACarP)
- Asian Carp Demographics
- Alternative Pathway Surveillance in Illinois – Law Enforcement

RESPONSE PROJECTS (1)

Upper Illinois Waterway Contingency Response Plan


- Provides guidance for rapid multi-agency response to emergency or unexpected needs
- Also appropriate to assist and guide multi-agency responses and actions that are not emergencies

Manages actions and communication of information



Enhanced Contracted Removal

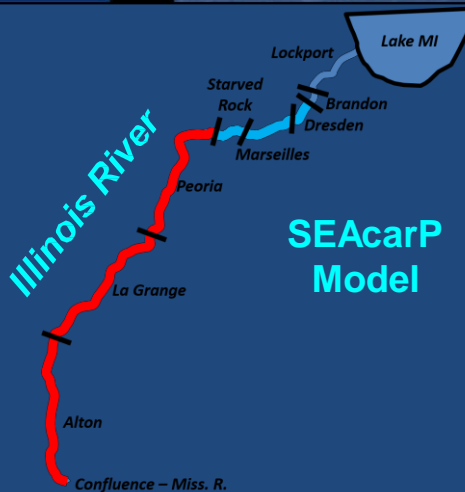
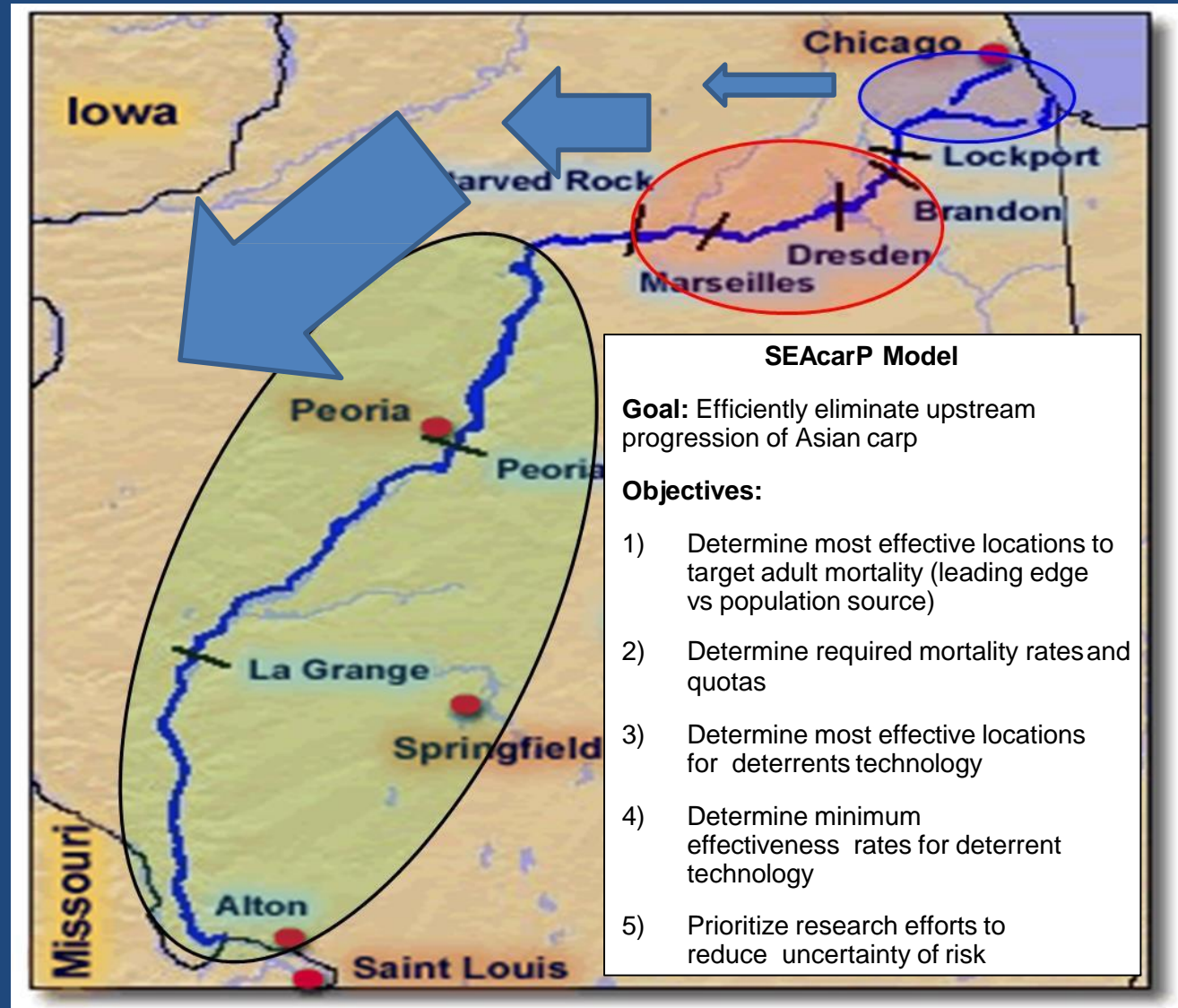
January 11, 2018



ILLINOIS
DEPARTMENT OF
NATURAL
RESOURCES

Illinois Department of Natural Resources
Asian Carp Business Process Analysis
Final Report and Action Plan

Prepared By:
TETRA TECH



USGS 2018 Actions

- Hydraulic and WQ data supporting partner efforts
- CO₂ as a deterrent
- Acoustic Deterrents
- Algae used to attract Asian carp and enhance microparticle delivery
- Acoustic telemetry database
- Toxic microparticles
- Microparticle and CO₂ registration
- Hot water/ozone/chlorine lock treatment testing
- Early detection molecular technologies
- Early detection eDNA: Hand held rapid detection tool
- Grass Carp detection/control
- FluEgg Simulation Model
- Black Carp – life history, toxic bait development
- Mass Removal / Unified Method Support

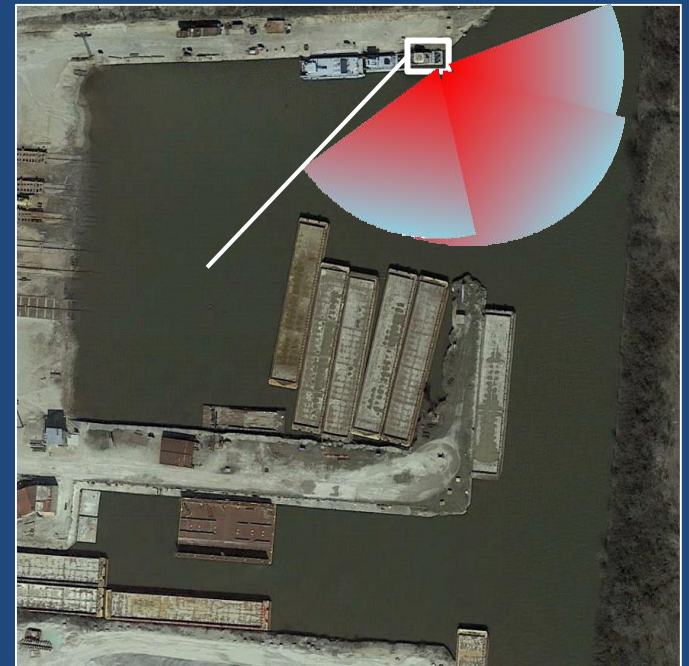
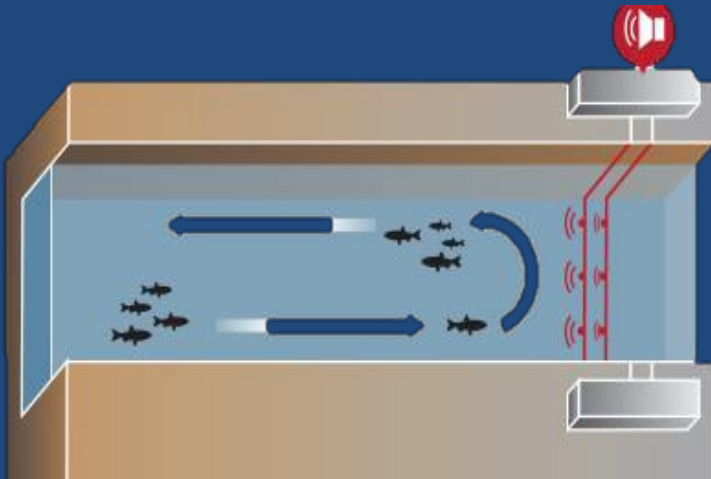
USGS 2018 Actions: Mass Removal

- Unified Method
 - Multi-agency -USGS, USFWS, MDC, STLCO, ILDNR
 - Drive fish to collecting point
 - Low bycatch
 - 240,000 lbs removed
- Novel capture gears
 - New trap nets
 - Fish driving methods
- Potential rapid response method

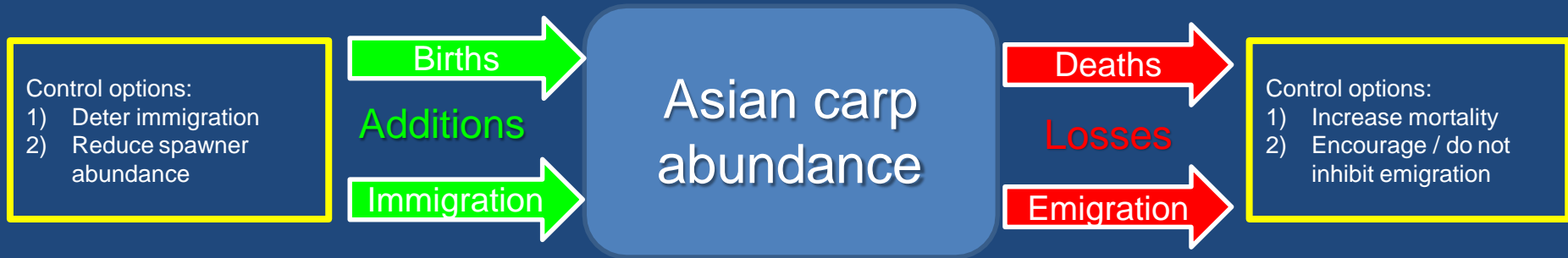


USGS 2018 Actions: Acoustic Deterrents

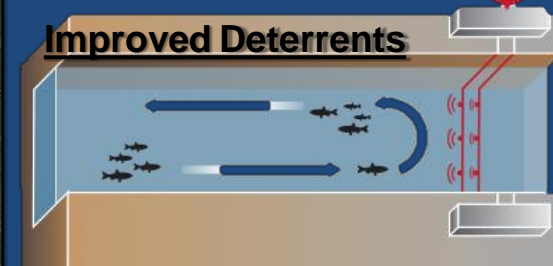
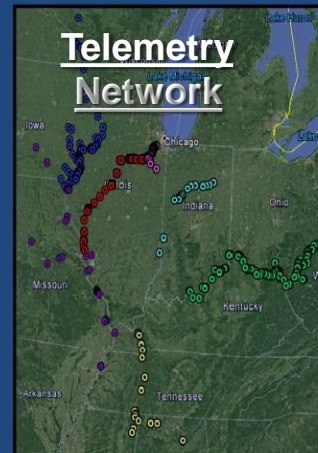
- Deployment of an Acoustic Deterrent System (ADS) in the CAWS
- Develop, refine, and test new acoustic stimuli in ponds and field
- Develop study plan for large scale ADS (Barkley Lock & LD 19)
- Compare effectiveness of several different sound stimuli and multiple techniques to herd or capture fish in tributaries



Modeling and Decision Science: AC Control



- ✓ Improve USFWS & USGS collaborative SEACarP model
- ✓ Improve removal techniques
- ✓ Improve deterrent applications
- ✓ Improve decision support tools





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Asian Carp Response in the Midwest



No Silver or Bighead Carps Found as Sampling Concludes in Illinois Waterway

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Highlights

No Silver or Bighead Carps Found as Sampling Concludes in Illinois Waterway

No Silver or Bighead Carps Found as Sampling Continues in Illinois Waterway

Silver Carp Captured Nine Miles from Lake Michigan

Black Carp Bounty Leads to Discovery in Illinois River

Minnesota Discovers Silver Carp in St. Croix River

Recent Documents



2017 Asian Carp Action Plan (6.1 MB PDF)



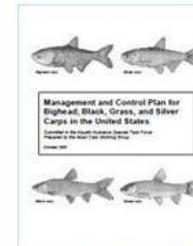
2017 Monitoring and Response Plan (8 MB PDF)



2016 Asian Carp Action Plan (6.4 MB PDF)
2016 Amendments (.78 MB PDF)

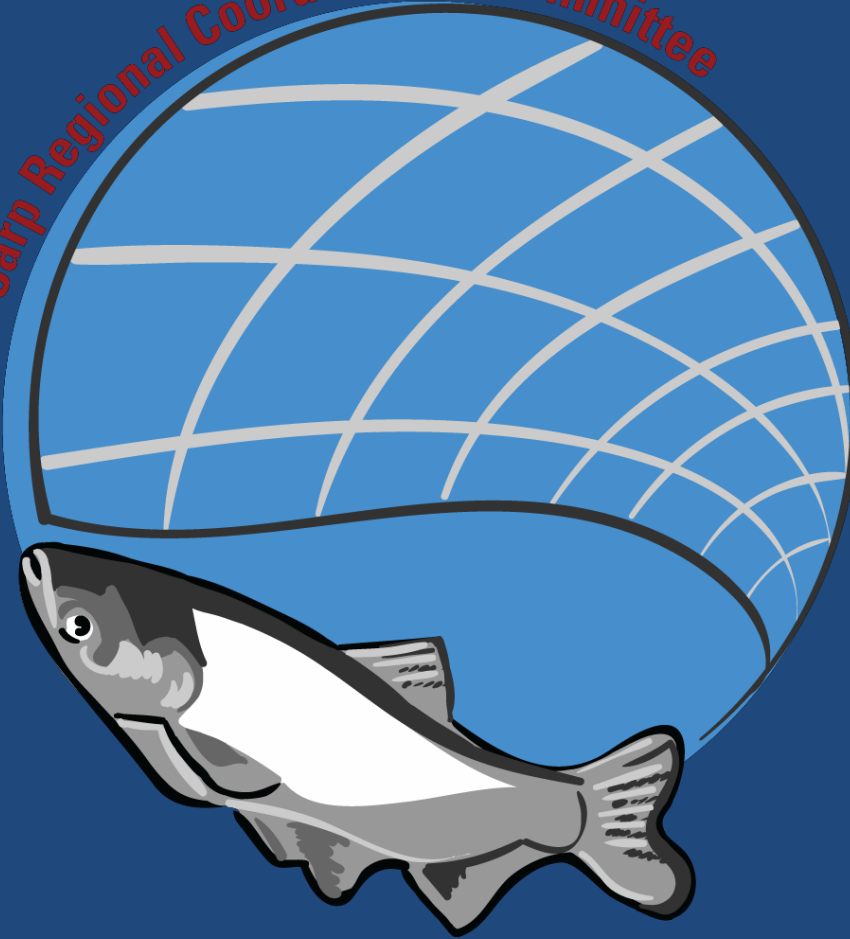


2015 Water Resources Reform & Development Act Report, Appendix 1, Appendix 2 (PDFs)



Asian Carp Control Plan (PDF)

Asian Carp Regional Coordinating Committee



Thank you!

Asian Carp Range from Lake Michigan

