IDNR: Asian Carp Update



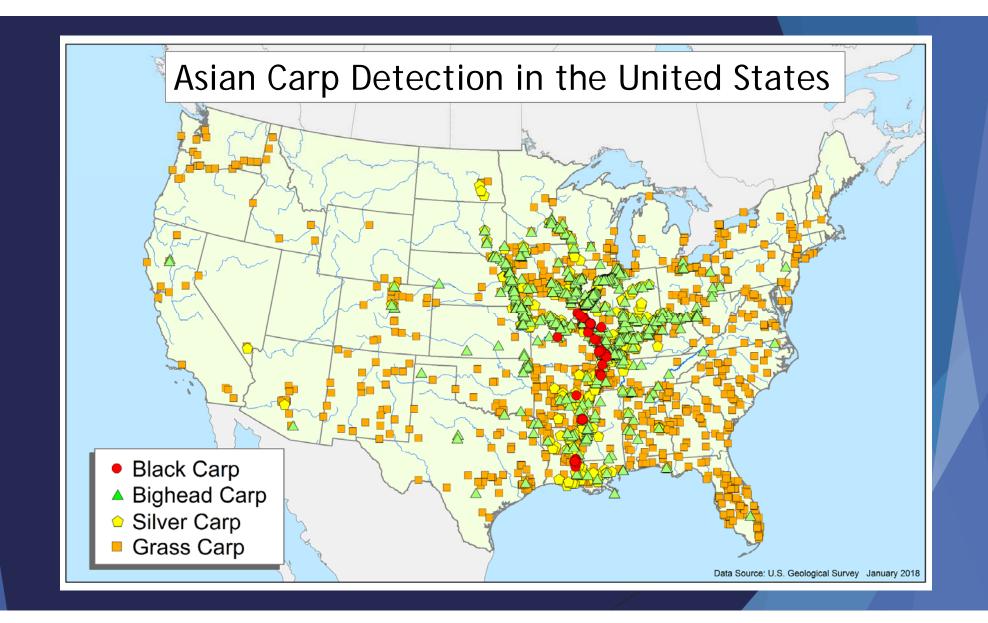
Leaving Nothing to Chance: Monitoring and Control Actions Asian Carp Monitoring, Management, and Contingency Actions

Monitor and assess Asian carp movement Manage and control Asian carp to reduce their impact Use aggressive measures for all contingency actions

December 2018

Kevin S. Irons Illinois Department of Natural Resources Co-chair ACRCC Monitoring and Response Workgroup





2018 MRP (Currently developing 2019 plan)

1) Detection:

Determine the distribution and abundance of Asian carp to guide response and control actions

2) Management and Control:

Prevent upstream passage of Asian carp towards Lake Michigan via use of barriers, mass removal, and understanding best methods for preventing passage

3) Response:

Establish comprehensive procedures for responding to changes in Asian carp population status, test these procedures through exercises, and implement if necessary

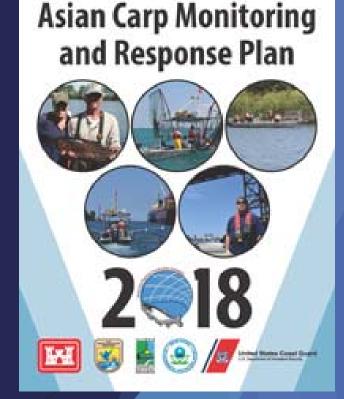
Asian Carp Monitoring and Response Plan



Status of the Monitoring and Response Plan

- updated annually (on-line)

- adaptive, integrating new information and <u>multiple</u> <u>agencies</u> annually
- Current and archived sampling results (*www.asiancarp.us*)



Over 20 projects to meet goals - - science driven

MRP builds upon the Comprehensive Illinois Statewide ANS Plan 1991 and is updated annually

Multi-Jurisdictional Issue (ACRCC; 2010+)

Illinois River

Independent Commercial Harvest as Control

Model based insights into risk management USFWS

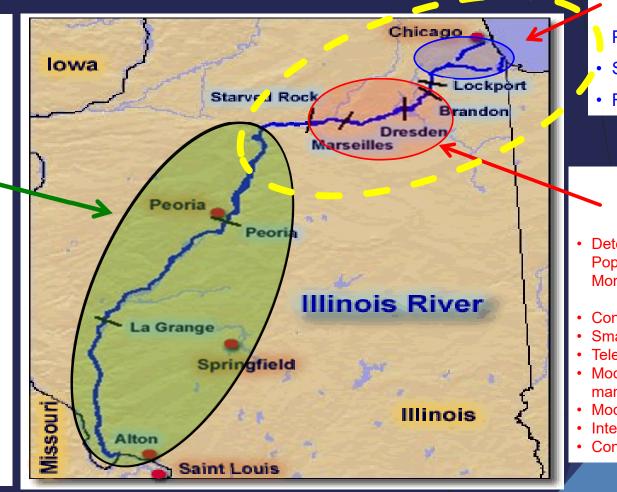
Business Process Analysis

To enhance:

- Business development
- Market driven
- · Research support

Continued Assessing Population Demographics and Response

Content/contaminant

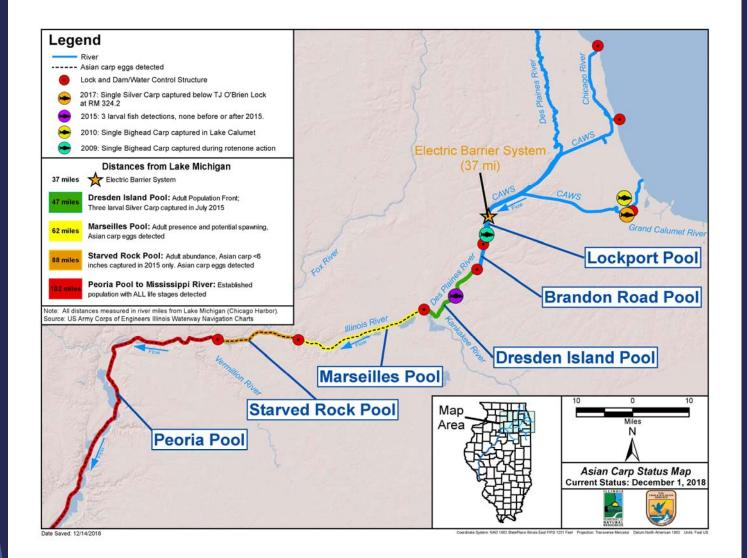


CAWS & Upper **Des Plaines**

- **Physical Barriers**
- Seasonal Monitoring
- Response actions

Upper Illinois Waterway

- Detectable **Population Front** Monitoring (Dresden Island Pool)
- Contracted removal
- Small fish monitoring
- Telemetry
- Model based insights into risk management
- Modeling
- Integrated Pest Management
- **Contingency Plan**



Monitor and assess Asian carp movement

Manage and control Asian carp to reduce their impact

Use aggressive measures for all contingency actions

Removal (Upper Illinois Waterway)

- Contract commercial fishers for fish removal
- Expect nearly <u>7.5 M lbs by end of year (> 1.3 M 2018)</u>
- Use gill/trammel nets, hoop nets, Great Lakes pound nets, and commercial seine hauls, Unified
- Little impact to native fishes (< 1% of total catch is game fish, mostly catfishes and put back into waters immediately)

GOOD NEWS: Leading edge has not moved since 2006 active monitoring began (10 years) OR 1990 (28 years) since first documented in vicinity (Dresden Island Pool)

Analyses document high oxidative stress in genes of fish at the leading edge

Harvest ended last week: the last 2 having > 200k lbs removed

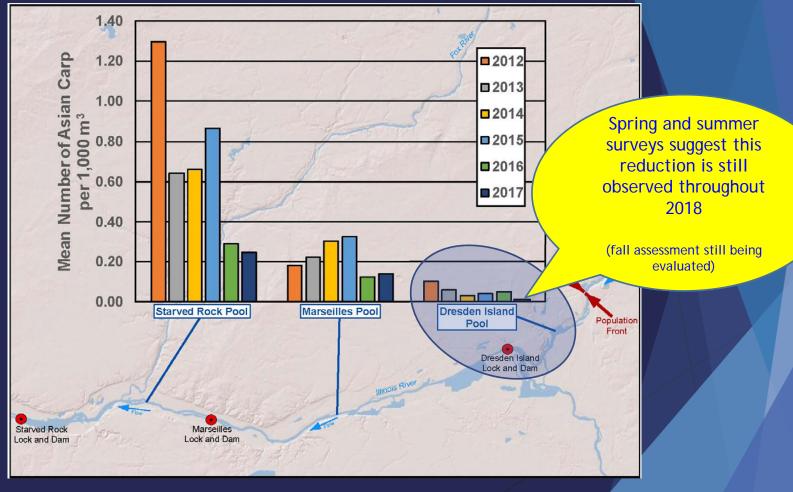
~ 1.3M lbs removed 2018

Removal (Upper Illinois Waterway)

44,000 lbs removed last tuesday alone......

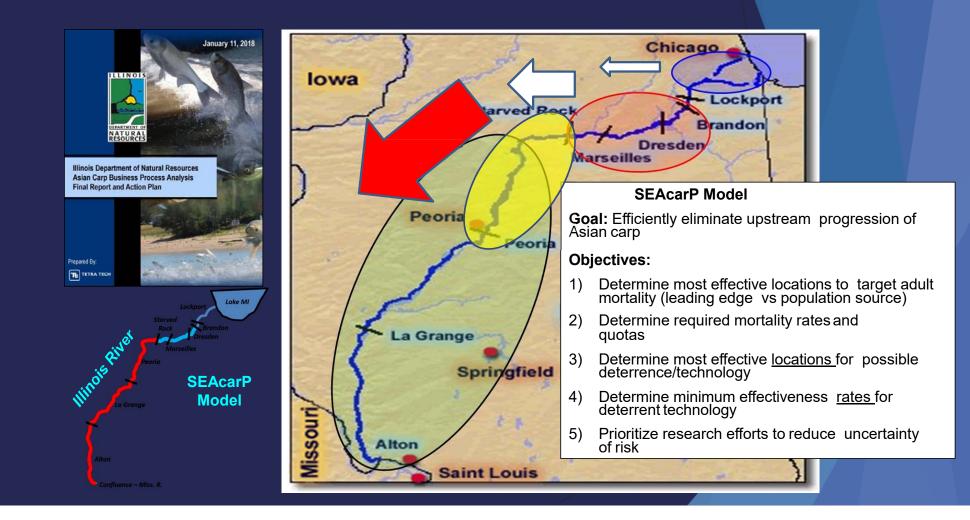


Population Observations through 2017



Contract removal in upper IWW likely has contributed to declines

Enhanced Contracted Fishing



Enhanced Contracted Fishing

- Extend multipronged management strategy downstream Informed by SeaCarp model
- Goal of removing 4.5M lbs from Peoria Pool alone Prior year ~ 4M lbs removed from Alton, La Grange, Peoria
- Contracting with all willing duly licensed commercial fishers 10 cents additional for fish they sell for a min. of 7 cents Reporting/GPS requirements
 - Assist with coordination and communication as needed (CO-OP)
 Any market, in-state, out-of-state, existing or new

Interesting development: Lobster season "dunking day" 2019 is quickly approaching (April) and Maine is concerned that there is not enough bait available. Potentially opens up a market that affords 50 cents/lb at high end for bait off the dock.

MVP Program (Market Value Program)

- 2016 Funding highlighted support for business development (\$96k)
- Technical support to connect questions and answers
- Develop protocols for local business to travel and or meet with technical experts, develop market support, or gather needed partnerships
- Application process, 25 % match, up to \$8k per year
- Reporting on info gathering
- Steering committee IDNR, IDCEO, USFWS, USEPA, KY, Consultant, City of Peoria Economic Development
- LAUNCHING THIS WEEK and targeting businesses

Marketing Development in 2019

Enable further expansion and receptivity
 Marketing consultant

Brand development: Illinois Fresh, WILD CAUGHT, SILVERFIN









Developing the best plan:

Invasive species unit

- Coordinate with other jurisdictions
- Enforce and investigate
- Leaving nothing to chance
- IDNR is matching 33% of effort in 2019 funding (\$\$)





Asian carp on the Mississippi River

UMR Plan relies upon information gathering

 Harvest 2018: 179,165 Ibs of Asian carp removed
 Evaluation/trend is still in infancy

USFWS funding



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Such a robust, adaptive, and aggressive plans requires close coordination between local and national, state-regional-federal partnerships, and close communication to reach common goals.