FY 2012 USFWS R4 AIS Program: Collaboration, Coordination, and Cooperation on AIS Issues







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courtesy Florida Caribbean Science Center/U.S. Geological Survey

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OBJECTIVES

- Communication, Cooperation, and Collaboration
- * Opportunities and Partnerships (e.g., Asian Carp)
- * Future Directions



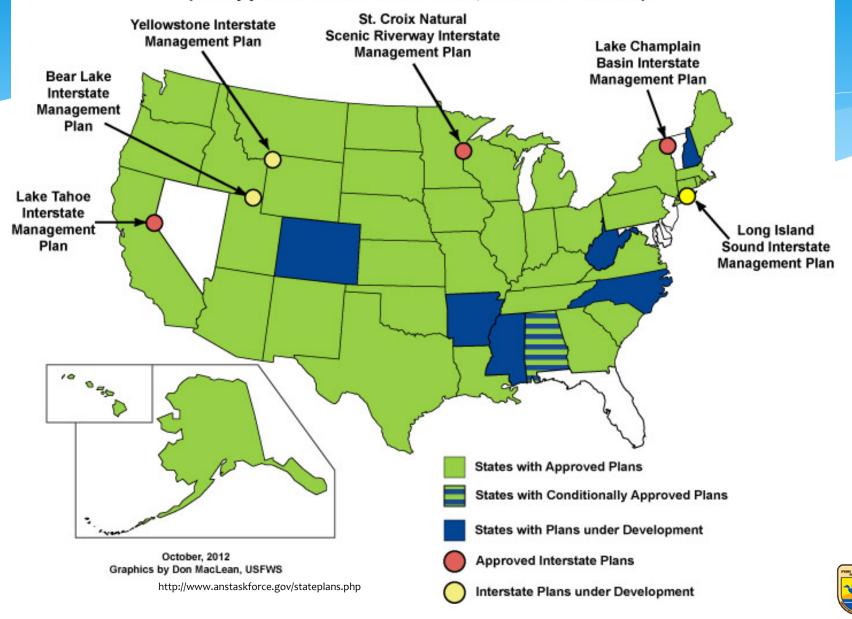
Eric Engbretson, US Fish and Wildlife Service, Bugwood.org





Status of State ANS Management Plans

(41 Approved Plans - 38 State, and 3 Interstate)



SARP Science and Data Committee



Aquatic Nuisance Species Work Group

Summary of Partnerships

- * 5 state ANS plans received support
- * Total of 12 projects in FY12: Universities, Federal Partners and States working on projects...
 - * Specific species/ Risk Assessments/ Physiological Tolerances
 - * Prevention and Detection
 - * Trainings
 - Control strategies
 - Outreach/ Education



NAS Database Report

New to Region 4 Since 2000

*	Category	new species	established
*	FW fish	19	7
*	Marine fish	19	1
*	Crustaceans	9	1
*	Mollusks	6	2
*	Amphibians	7	0
*	Reptiles	11	0

- * Many species have unknown as the status, meaning we don't know yet if they are established or failed. So the number of new established species is a minimum.
- * Overview of Region 4 Introductions Since 2000
- * Forty-nine new species were introduced to Region 4 since 2000. These are species that had never been collected from any of the states in Region 4. One hundred and sixty species were recorded as new to a particular state since 2000. These are species that have been present somewhere in the southeast region, but were recorded in a state where they had not been previously documented indicating either spread of an established population, or new introductions. Two territories experienced the largest proportional increases, Puerto Rico (69%) and Virgin Islands (60%). In terms of total numbers of species, the two highest were Florida (47) and Puerto Rico (36).

Early Detection and Planning

- * Development and Enhancement of Molecular Detection and Surveillance Tools for Invasive Fishes in Freshwater Habitats in the Southeast
- * "Quantifying detection sensitivity of eDNA for northern snakehead"
- * Refinement of NAS data for SARP use
- Expanding USFWS eDNA monitoring capabilities for aquatic invasive species in Region 4
- * Movement and Habitat Selection by Invasive Asian Carps in the St. Catherine Creek National Wildlife Refuge
- * Distribution of the Invasive Crayfish ORCONECTES PALMERI CREOLANUS in the Flint River Basin



Control and Research

- * Baseline Life History of Native Bowfin and Comparative Feeding Ecology with Non-Native Bullseye Snakehead in South Florida
- * Mississippi Bight Lionfish Response Unit: A joint taskforce to combat Lionfish populations in the Gulf of Mexico
- * Phylogeographic analyses to identify dispersing, reproducing and founding populations of Asian tiger shrimp
- Non-native and Invasive Murdannia keisak Control Techniques Experiment
- * Investigating management of invasive apple snail Pomacea insularum using chemical and biological control methods
- * Biology and ecology of non-native aquatic species in Florida





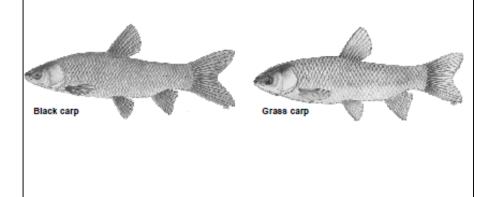
National Management Plan



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

October 2007



National Asian Carp Surveillance Plan



Asian Carp Surveillance and Response Plan for Areas Outside of the Great Lakes





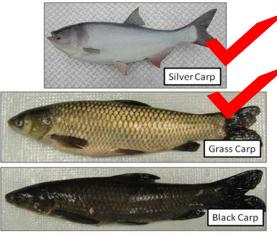
Early Detection: edna

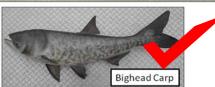






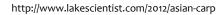
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A Regional Biosecurity Framework

- * EDRR plan
- * ICS Training
- * Regional perspective on National issues (i.e., ANSTF species specific plans)
- * Surveys (i.e., traditional and new technologies)
- * Control plans and pilot projects (e.g., Lionfish)
- * Species specific risk assessments/ management (e.g., ERSS)
- * Pathway risk assessments/ management
- * GSARP priority species and science needs

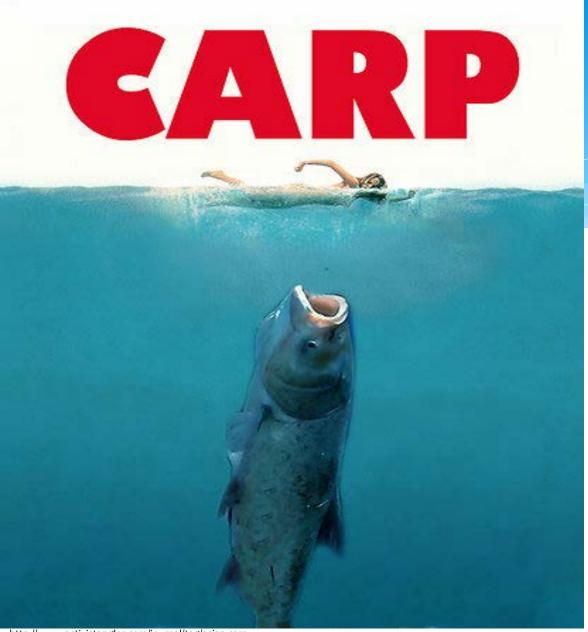




FY13-14: capacity in Southeast

- * WIT Training
 - VOLUNTEERS: request 4 States interested in hosting Spring
 2014
- Lionfish workshops
- * Asian Carp impacts and potential spread
- * eDNA
- * National Invasive Lionfish PMP
- * Snakehead NMP
- National Asian Carp Surveillance plan





http://www.activistangler.com/journal/tag/asian-carp

Conclusion

- * There is a need for continued support of these strategies:
 - State ANS Coordinators and Invasive Species Plans/ Strategies
 - Prevention of AIS introductions Regionally through RA/RM focused on pathways
 - * Providing resources and education to develop capacity in the Region for prevention, detection, and control
 - * Test all Biosecurity elements on a suite of species
 - Capacity building for ED (eDNA and WIT)
 - Complete EDRR plan and find resources to run drills

