USFWS Fisheries Program Southeast Region 2010 Update on *Aquatic Invasive Species Program*









Florida Fish and Wildlife Conservation Commission Archive, , Bugwood.org

Presented to GSARP October 27-28, 2010

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USFWS Region 4, Southeast Region



http://www.fws.gov

OBJECTIVES

Issue Background

 Communication, Cooperation, and Collaboration

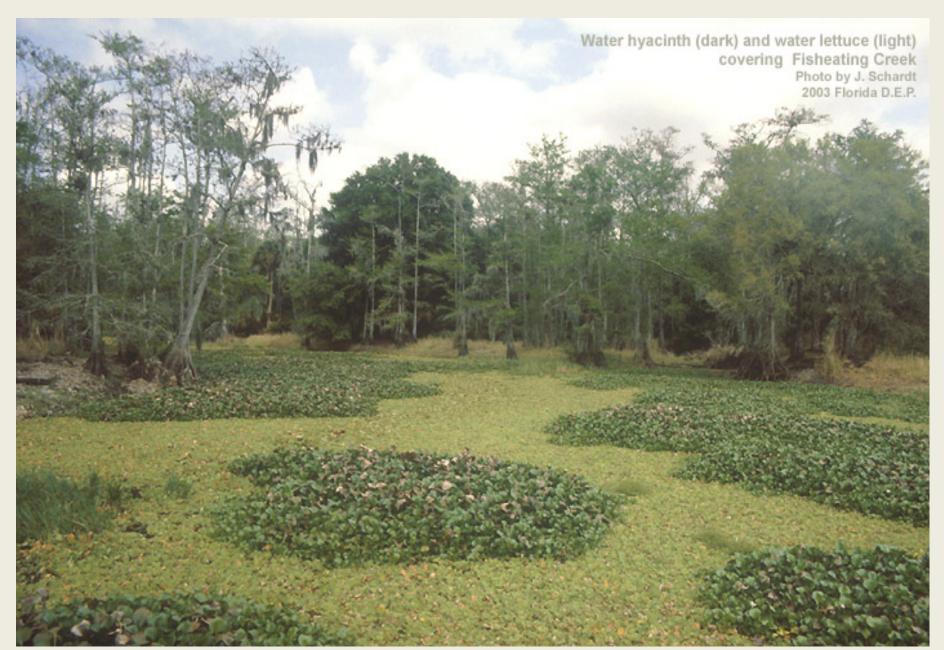
 Opportunities and Partnerships (e.g., Lionfish)



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







http://plants.ifas.ufl.edu/guide/infest8js.jpg



 $http://www.csmonitor.com/var/ezflow_site/storage/images/media/images/1229-carp-asian/7164505-1-eng-US/1229-carp-asian_full_600.jpg$



 $http://www.agri.state.id.us/Categories/Environment/InvasiveSpeciesCouncil/Images/Quagga_Pipe_Small.JPG$

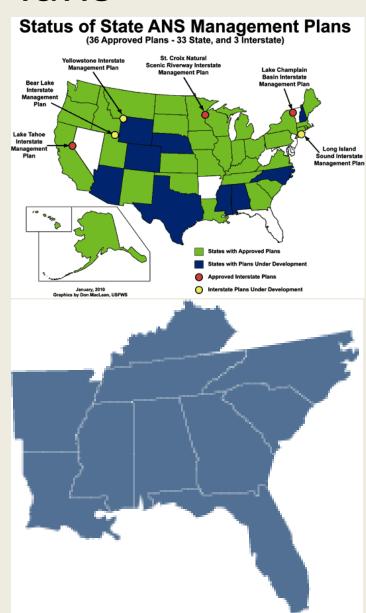


http://kenai.fws.gov/overview/notebook/images/northern_pike_lobby_adfg.jpg



State AIS Plans

- Kentucky
- Tennessee
- Louisiana
- South Carolina
- Georgia
- Florida
- Alabama, Mississippi
- North Carolina, Arkansas



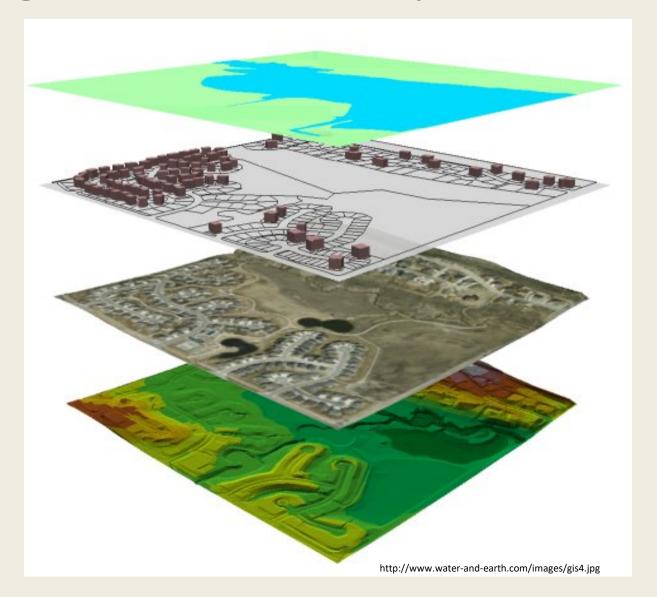
Summary of Partnerships

- 4 state ANS plans received support
- 8 states in SE US received project support
- Universities, Federal Partners and States working on projects...
 - Specific species/ Risk Assessments/ Physiological Tolerances
 - Prevention and Detection
 - Economics
 - Control strategies
 - Outreach/ Education



Opportunities and Partnerships Think Regionally... @ALEX KANG, WWW.REDANG.ORG http://www.redang.org/gallery3k 06.htm

A Regional Biosecurity Framework





Prevention

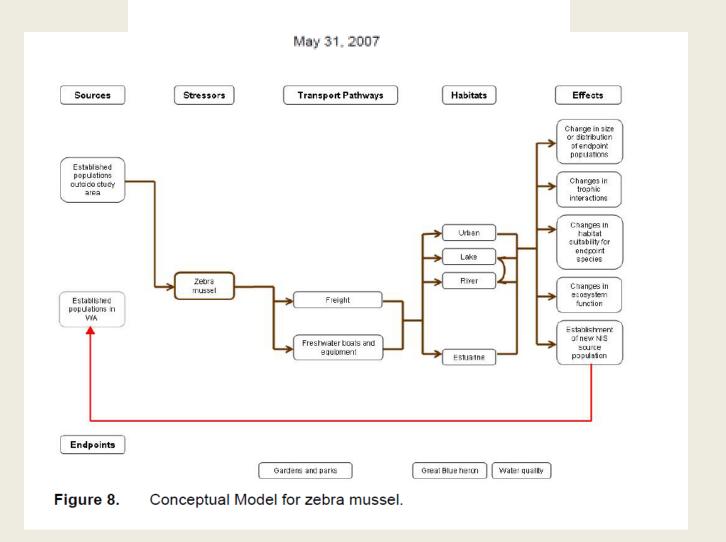
- Species Tolerances/ Risk Assessment
- Pathway/ Vector Risk Assessment
- Safeguard Priority Pathways through Risk Management (e.g., HACCP)



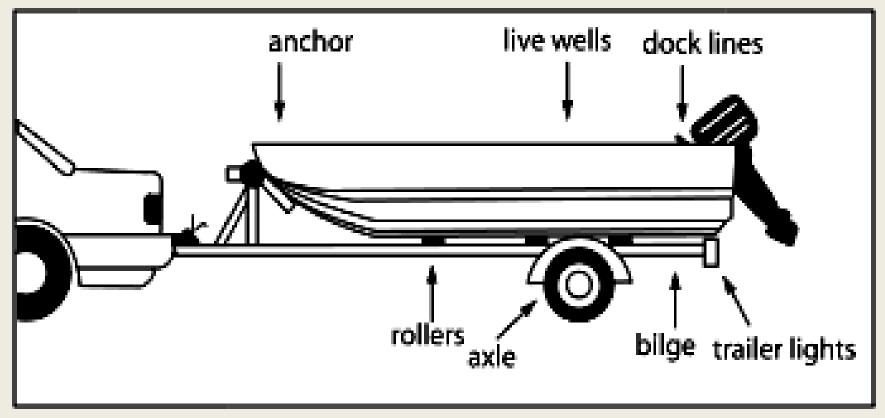


Risk Evaluation of Invasive Species Transport Across the U.S. – Canada Border in Washington State

Laura J. Sellens, April J. Markiewicz, and Wayne G. Landis Institute of Environmental Toxicology Western Washington University ES 518, MS-9180



Prevention Capacity: Watercraft Inspection Training



http://www.dnr.sc.gov/regs/images/boattrailer.gif



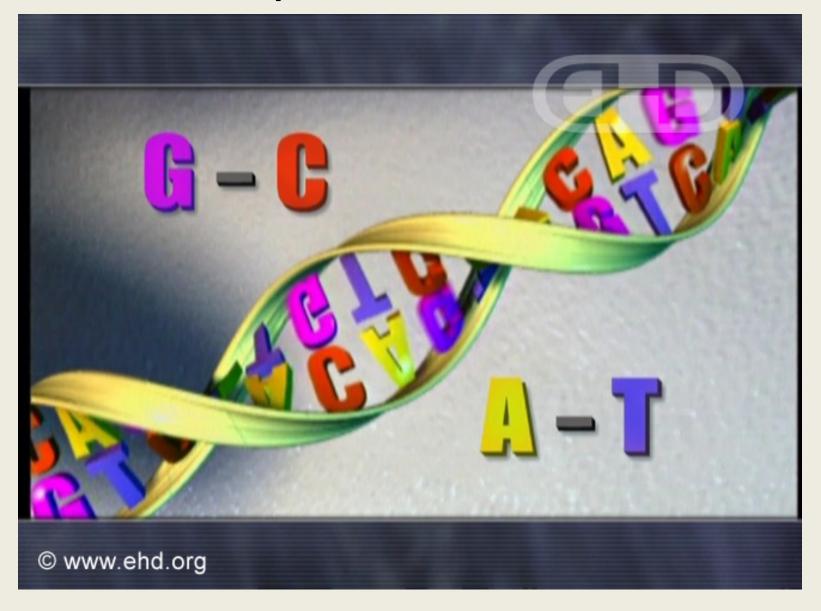
Detection

- Monitoring Priority
 Waterbodies (e.g., risky)
- Informed Surveillance
- Communicate Detections (e.g., ANS Hotline)





Early Detection: edna





Aquatic Invasive Species Baselines: ROVs







Response

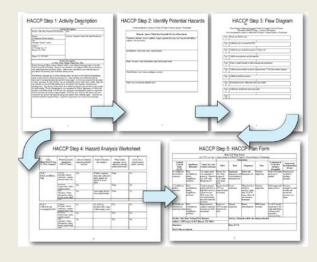
- Integrated Pest Management
- Safeguard High Priority Species or Habitats
- Managing a Response (e.g., Incident Command System)





Value of HACCP

- HACCP is a tool that can help reduce the risk of moving invasive species unintentionally
- HACCP is pathway focus
- HACCP process can be useful for many activities (e.g., field sampling, site visits, road and trail maintenance)
- Future opportunities for implementing HACCP within Natural Resource Agency programs





National Hotline 877 STOPANS

Topic: Lionfish Reports ANS Hotline

- Lobster mini-season Florida
- 877 STOP-ANS
- N=22 Lionfish calls (total time was 29 July-20 Aug)
- Information passed along within 24 hrs.
- Many thanks to REEF (esp. Lad) for face-2-face discussions with callers and lionfish pick up
- Resulted in Lionfish collection for studies
- Distributional data provided to FL FWCC and USGS
- What if others promoted hotline during strategic media events?

Lessons Learned

What level of support

Follow up on reports

Specimen deposition/ verification

Conclusion

- Invasive Species, and specifically Aquatic Invasive Species, continue to impact economies, ecology, and human health
- The Region has partnerships to deal with aspects of invasive species
- 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 (e.g., Lionfish)

