

IMPACTS OF INVASIVE MUSSELS @ USACE PROJECTS

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WHY USACE CARES

- **Structural Impacts**
 - Navigation
 - Hydropower
 - Flood Risk Management
- **Environmental Impacts**
 - Water Quality
 - Negative impacts to native species
- **Recreation Impacts**
 - Swim Beaches
 - Boat Launches

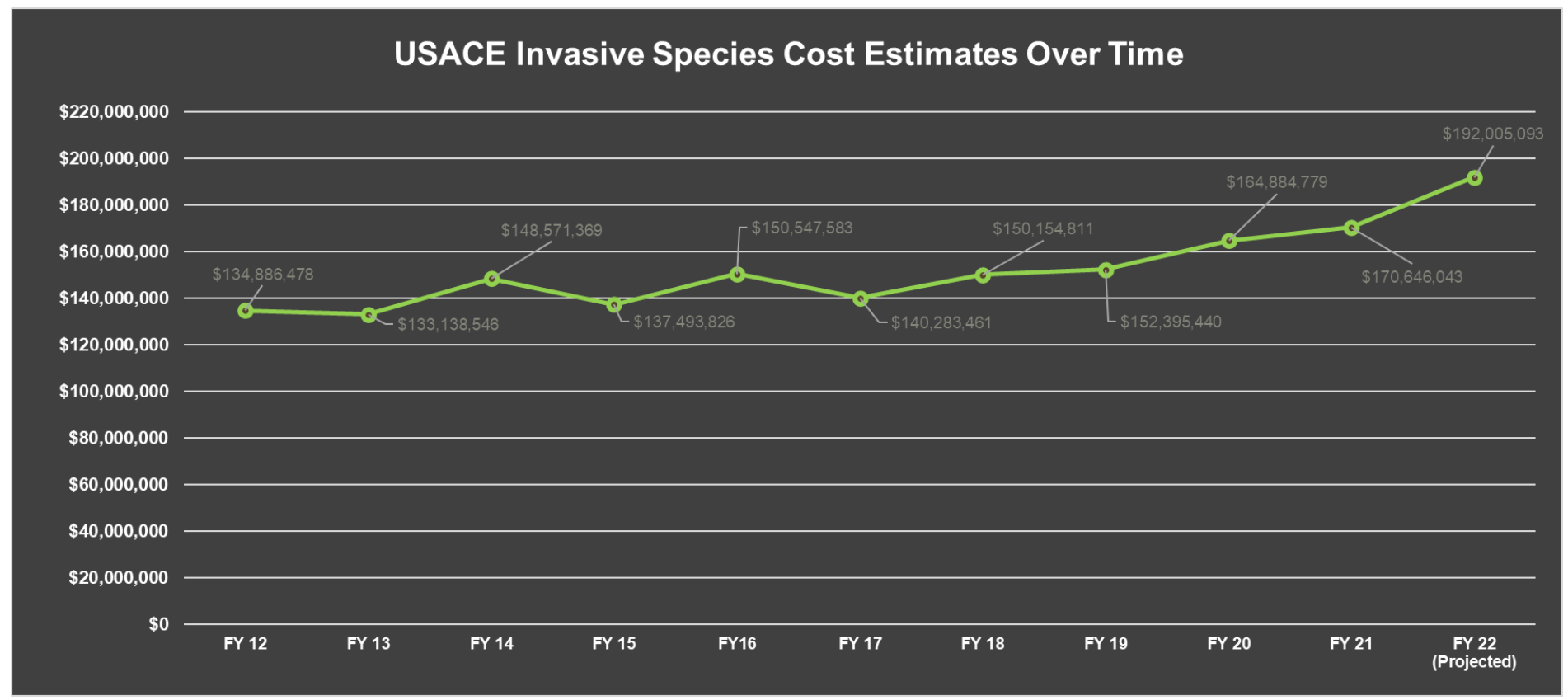


WHERE IS THIS HEADED

- **Invasive Species Costs**
 - Annual report to National Invasive Species Council
 - Collecting Data to Improve Budgeting
 - Assessing Impacts to Prioritize Future Funding & Research
- **FEM**
- **Asset Management**
- **Documentation**
- **Improve Understanding of Whats Happening**



INVASIVE SPECIES COST ESTIMATES OVER TIME



File Name



TODAY'S PURPOSE

- **Cooperative Ecosystem Studies Unit (CESU) with University of Florida**
- **Collect information from our projects to:
Document the impacts of Invasive Mussels on USACE projects.**
- **The goal is to use this documentation to inform future prevention and control strategies to reduce invasive mussel impacts at our projects**
- **What do we need from today's call**
 - **Volunteers to speak with UF team in detail about your mussel challenges**
 - **Fill out the form in the chat; there will also be a follow up email**
 - **Potentially collect/ship invasive mussels for future research**
 - **Future opportunities to use sites for field research, improve Asset Management, etc.**



SURVEY

<https://forms.osi.apps.mil/r/9PfY5K6pC2>

University of Florida (UF) Zebra Quagga Mussel Interview Sign Up

USACE is launching a coordinated effort with the University of Florida Center for Aquatic and Invasive Plants to improve documentation of zebra and quagga mussel (ZQM) impacts and develop actionable management strategies to reduce long-term O&M impacts, while strengthening preparedness for emerging threats such as golden mussel (GM).

Dr. Joe Bisesi and Shisbeth Tabora are seeking to interview USACE staff who have deal with impacts from ZQM in their AoR to gain a better understanding of the types and severity of impacts experienced within USACE missions.

Hi, Jeremy. When you submit this form, the owner will see your name and email address.

* Required

1. Please select the types of impacts you have experienced and would like to discuss with the UF team. *

Ecological & Food Web Disruption



QUESTIONS COMMENTS CONCERNS

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<https://apcrp.el.erdc.dren.mil>

<https://ansrp.el.erdc.dren.mil>

<https://emrrp.el.erdc.dren.mil/index.html>

[https://wiki.erdc.dren.mil/Wetlands_Regulatory_Assistance_Program_\(WRAP\)](https://wiki.erdc.dren.mil/Wetlands_Regulatory_Assistance_Program_(WRAP))

<https://gateway.erdc.dren.mil/son/index.cfm?Cop=Env&Option=Start>



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WHAT GIVES US THE AUTHORITY- OTHER FEDERAL LEGISLATION

- **1990 - Non-indigenous Aquatic Nuisance Prevention & Control Act**
- **1996 - National Invasive Species Act (NISA)**
- **1999 - Executive Order 13112**
- **2000 - National Invasive Species Management Plan**
- **2016 – Executive Order 13751 Safeguarding the Nation From the Impacts of Invasive Species**
- **2019 - John D. Dingell, Jr. Conservation, Management, and Recreation Act (Dingell Act)**



USACE POLICIES

- **Stewardship Program**
 - No organic act; justified via several environmental acts until ER 1130-2-400 in 1971
 - ER 1130-2-540 in 1996 (Revised in 2008)
 - EP 1130-2-540
 - Chapter 2: Natural Resources Stewardship
- **ER1130-2-500**
 - Chapter 14: Aquatic Plant Control Program
- **EP200-2-3**
 - Environmental Compliance Guidance and Procedures
- **USACE Invasive Species Leadership Team (ISLT)- Established 2005**
 - **USACE Invasive Species Policy (2009 Memo) Applicable to:**
 - Operations
 - Operating projects will include strategies for invasive species management in their project Operations and Maintenance responsibilities.
 - These strategies will be coordinated with other Federal, State, and local agencies.
 - Regulatory Actions
 - Civil Works Planning Activities
 - **ISLT Program Management Plan published in 2014**