

Kudzu covering native forest



Cuban tree frog eating native frog

Invasive Species

jon lane

US Army Corps of Engineers



Lygodium overtaking Cypress



Sailfin Catfish damage levees



Zebra Mussels covering a structure



Purple Swamp Hen eating native duckling

USACE Invasive Species Policy (June 2009)

- ‘This policy memorandum is applicable to the **entire spectrum of Civil Works** programs and projects and meets the spirit of the National Invasive Species Management Plan’
 - ‘Measures to either prevent or reduce establishment of invasive and non-native species will be a component of all Corps Operations and Maintenance (O&M) at project sites as well as a part of implementation of a Civil Works project’
 - ‘Civil Works planning documents will address invasive species concerns in their analysis of project impacts’

Policy Goals & Objective

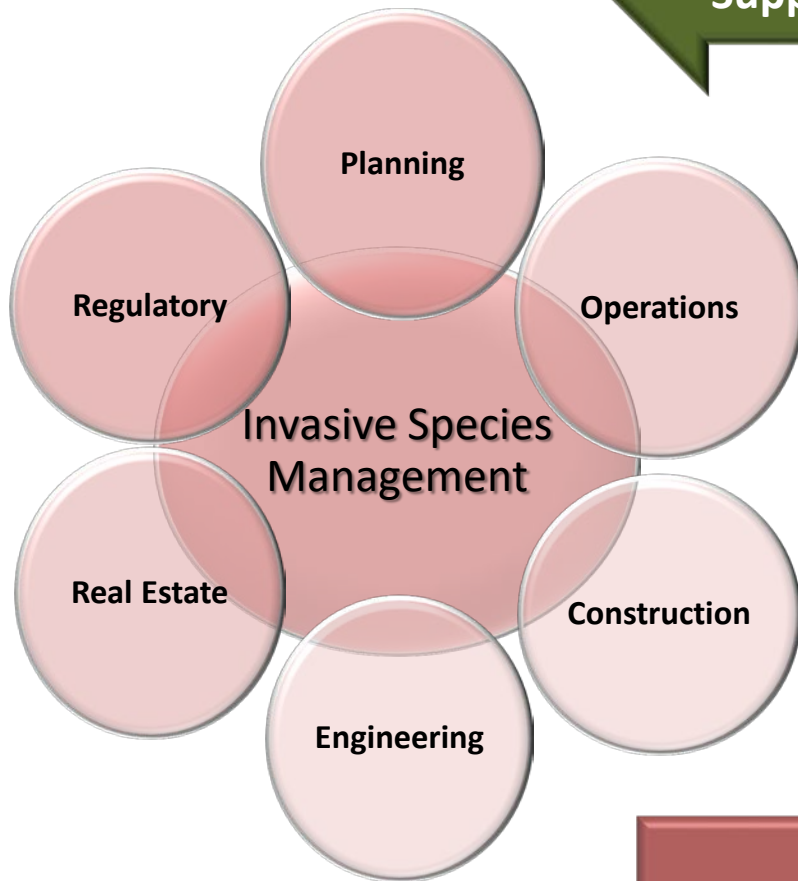
- a. **Leadership and Coordination** : Work strategically, using all Corps scientific, management, and partnership resources in unison to manage invasive species.
- b. **Prevention** : Prevent introduction and establishment of invasive species to reduce their impact on the environment, economy, and health of the United States.
- c. **Early Detection and Rapid Response** : Develop and enhance the capacity to identify, report, and effectively respond to newly discovered localized invasive species.
- d. **Control and Management** : Contain and reduce the spread and populations of established invasive species to minimize their harmful impacts.

Policy Goals & Objective

- e. **Restoration** : Restore native species and habitat conditions and rehabilitate high-value ecosystems and key ecological processes that have been impacted by invasive species to meet desired future conditions.
- f. **Research** : Conduct appropriate research and development activities to ensure management programs are effective and science based. Sound scientific information is critical in guiding management activities, determining the magnitude of invasive species problems, planning future research and management programs, and improving intervention efforts.
- g. **Information Management** : Implement management actions to track invasive species data.
- h. **Education and Public Awareness** : Education, communication, and interpretation programs can convey how the public can help prevent, identify, detect, and control invasive species and gather public input into program plans and promote partnerships in their implementation.

Invasive Species Program

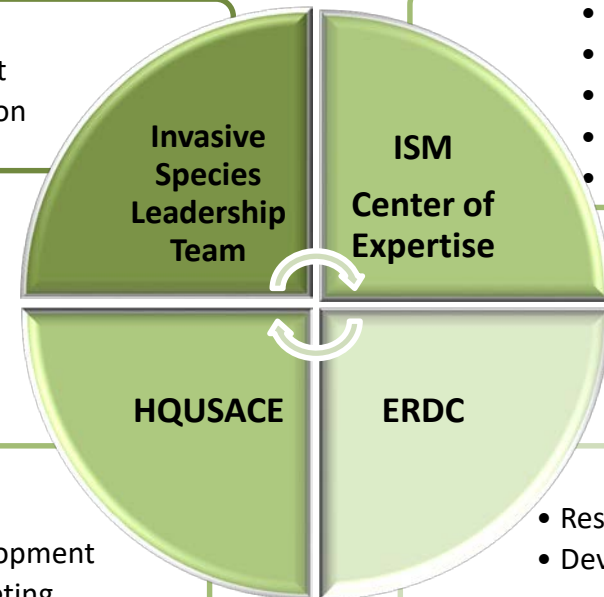
Functional Elements



Support Elements



- ER/EP
- Oversight
- Integration



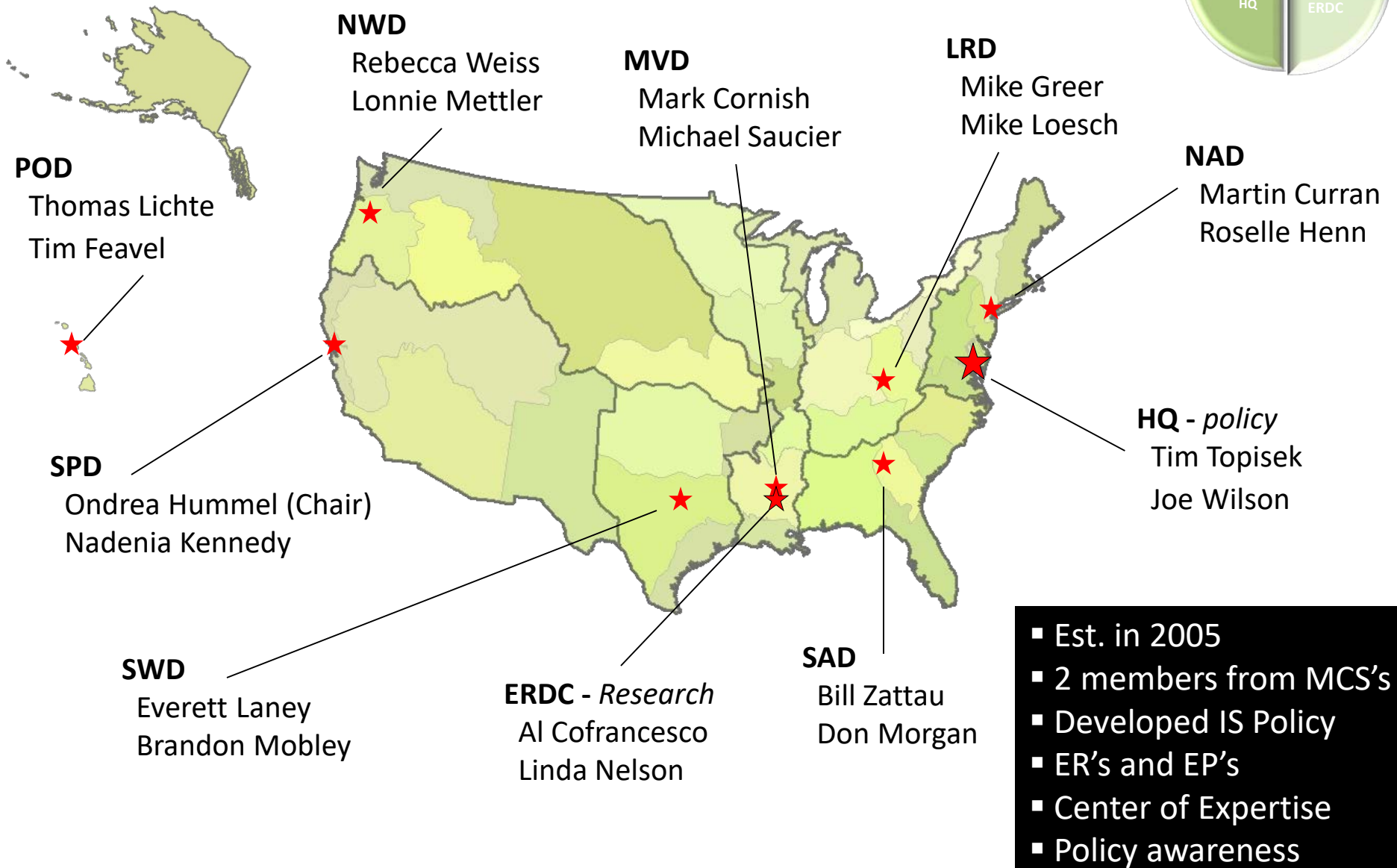
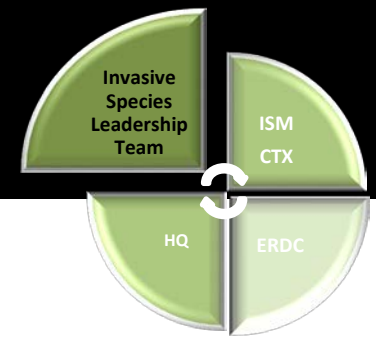
- Implementation
- Awareness
- Standardization
- Communication
- Training

- Policy development
- Budgeting

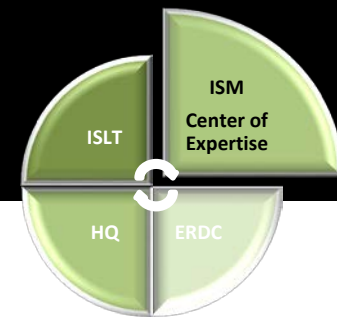
- Research
- Develop tools



Invasive Species Leadership Team



Invasive Species Center of Expertise



NWW

Lonnie Mettler
Bio-fouling /Ballast

MVR

Mark Cornish
Asian Carp

LRD

Mike Loesch
Emerald Ash Borer

LRB

Mike Greer
Sea Lamprey

NAE

Martin Curran
Variable Milfoil

NAD

Roselle Henn
Integrated ISM

SAJ

Bill Zattau
Aquatic Plants

SAM

Don Morgan
ED/RR

MVN

Michael Saucier
IPM

SWF

Brandon Mobley
Feral Hogs

SWT

Everett Laney
Zebra mussels

POD

Thomas Lichte
Brown Tree snake

NWD

Rebecca Weiss
IS Coordinator

SPA

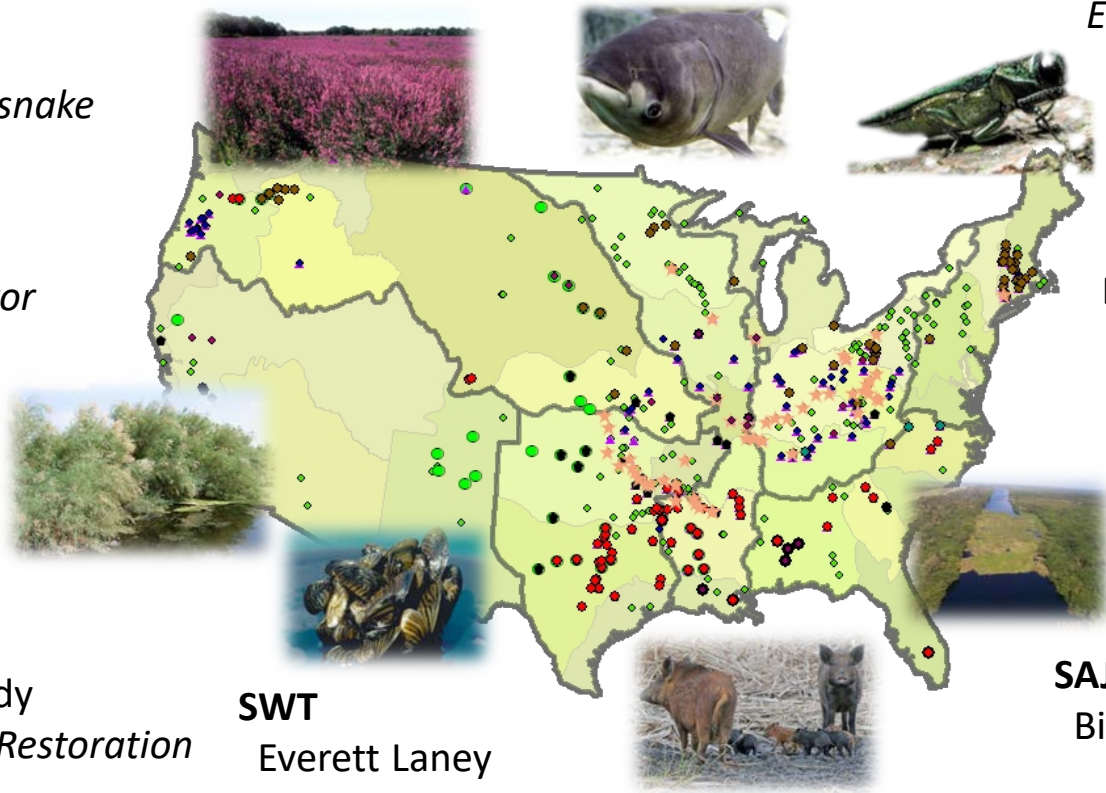
Ondrea Hummel
Salt Cedar

SDP

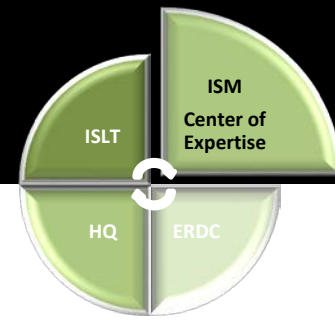
Nadenia Kennedy
Ecosystem Restoration

ERDC - Research
Al Cofrancesco
Linda Nelson

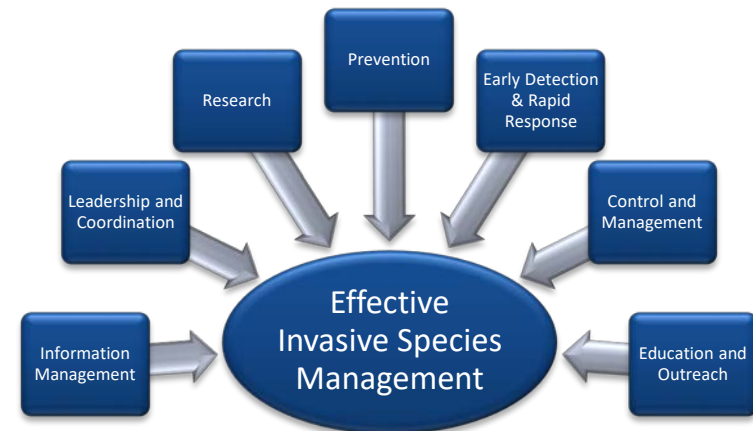
HQ - policy
Tim Topisek
Joe Wilson



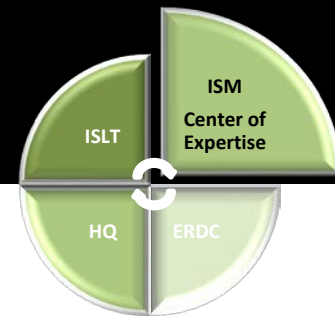
Center of Expertise



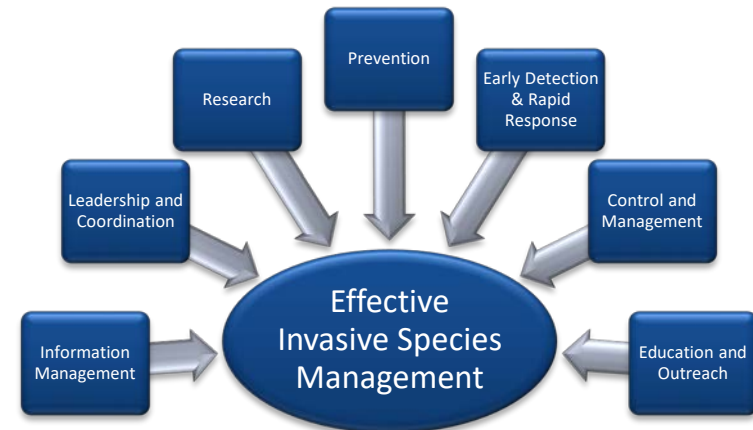
- Coordinate and Implement Prevention Strategies
- Coordinate, Standardize and Manage Monitoring and Mapping efforts
- Perform risk analysis for new species
- Manage and prioritize Rapid Response efforts (Strike Team) Interagency
- Participate and coordinate with the NISC and other Federal agencies
- Develop, integrate and implement national training program



Center of Expertise



- Assist the ISLT with updating ER's and EP's to be consistent with IS policy
- Collaborate with ERDC on research priorities and needs
- Facilitate tech transfer from ERDC to the field
- Facilitate local and regional cooperation between USACE and other agencies, NGOs
- Develop partnerships to leverage funding
- Coordinate with CCO or Public Affairs to execute public education and outreach



Dredge Material Management Area (Spoil Island)

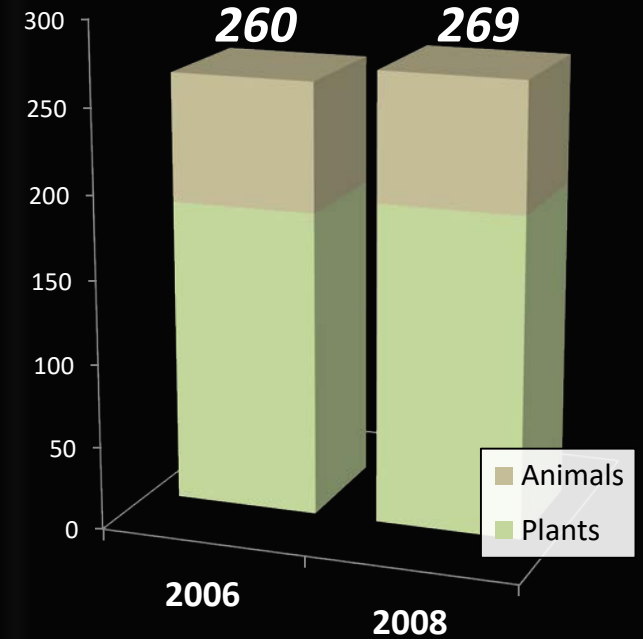
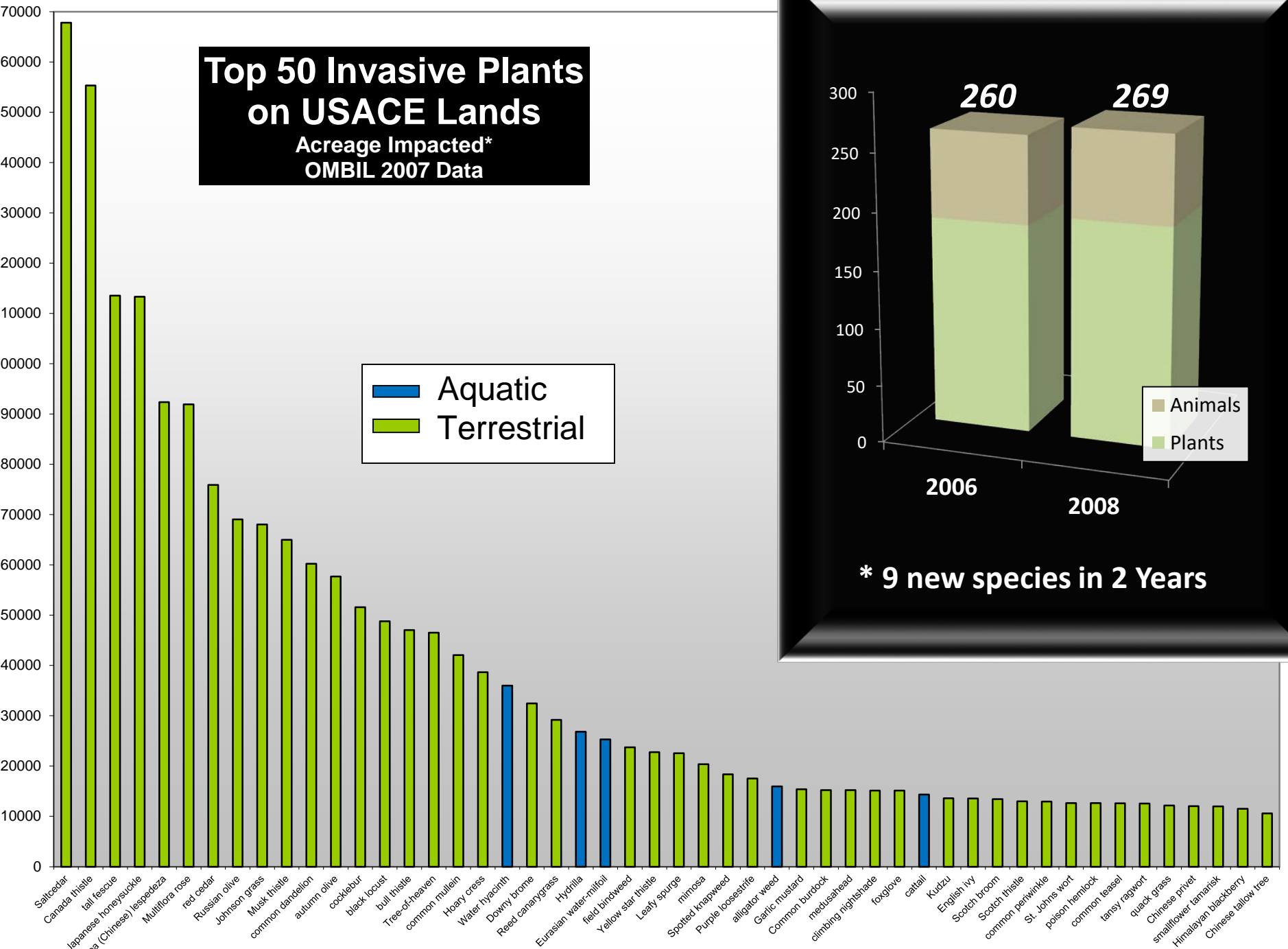
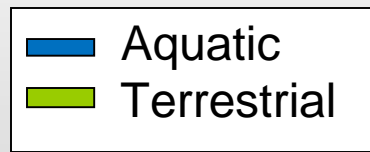
Buck Island

- NPS employee identified Tamarix (salt cedar)
- First occurrence in Florida
- Extremely aggressive
- Contaminated material removed from DMMA by DOT
- DOTs request for assistance



Top 50 Invasive Plants on USACE Lands

Acreage Impacted*
OMBIL 2007 Data



* 9 new species in 2 Years



Thanks