Welcome to the Traveling Trunk of Invasive Species Program

A resource available to you thru the Invasive Species Leadership Team

March 1st 2017

Mark Cornish, Dr. Linda Nelson, Jeremy Crossland, Deanie Kennedy, John Pribilla Education and Outreach Sub Group





Prevention thru Education is our Goal





WHAT IS AN INVASIVE SPECIES?

Alien Invaders...Nature's Hitchhikers

An invasive species is an organism that is non-native to an ecosystem and whose introduction causes or is likely to cause economic or environmental harm or harm to human, animal, or plant health.



Introduced Air Potato Vine

James H. Miller, USDA Forest Service, Bugwood.org

An invasive species can be a plant, animal, or other organism such as a microbe.

Released Pet: Burmese Python

Kevin Enge, Florida Fish and Wildlife

Florida Everglades

William Silver/Shutterstock.com

Layer 1





Educator's Guide

- Ideas for Organizing Your Presentation
- Talking Points
 - Key Characteristics of Invasive Species
 - Invasives and Threats to Biodiversity
 - Sources of Invasive Species
 - ▶ Preventing Invasive Species
 - Controlling Invasive Species



Hands-On Specimens





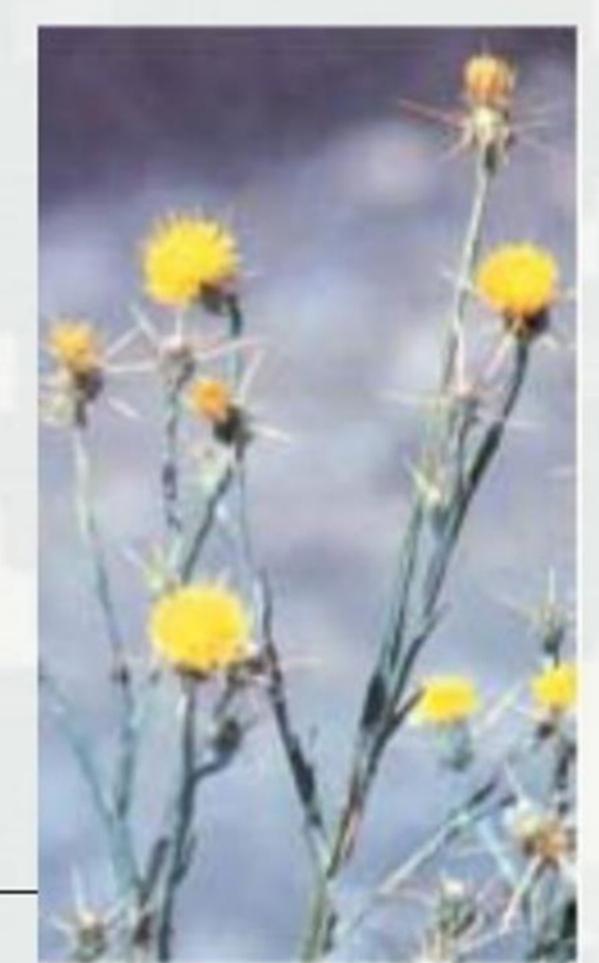






















Display Items

Accompanying profile cards detail the threats posed by these species.

Emerald Ash Borer

Emerald ash borers are beetles whose larvae feed under the bark of ash trees. They burrow back and forth between the bark and outer sapwood when they feed, creating S-shaped patterns in the wood. They survive for several years in living trees and can survive in firewood and other products.

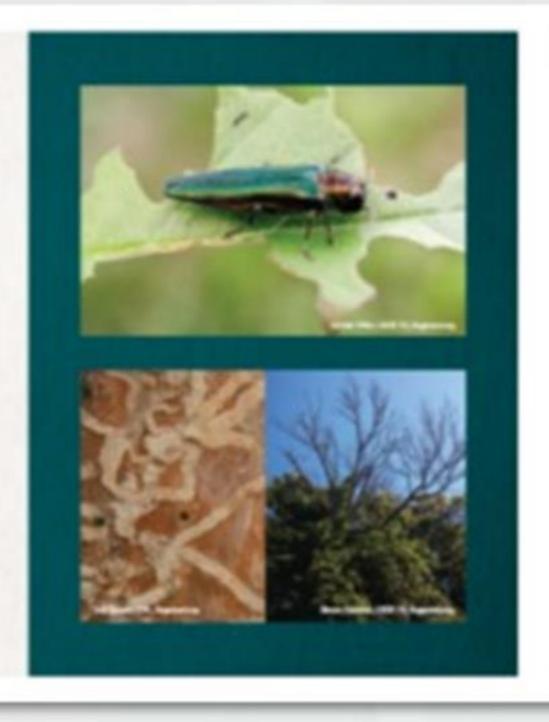
Native region: Asia and Eastern Russia

Introduction: 1990s; accidently introduced in Michigan in a shipment of wood packing material

Spread: Spreads with the movement of forestry products such as firewood, wood chips, and lumber

Range: Prevalent in the Midwest





Nutria

Nutria are large, semi-aquatic rodents that damage wetland habitats by burrowing and feeding on aquatic vegetation. They contribute to erosion and disturb agricultural areas, causing damage to rice and sugarcane crops.

Native region: South America.

Introduction: 1930s; introduced for fur production and likely escaped or were intentionally released when the fur industry declined

Spread: Mating season lasts all year; gestation is about 4 months and 1 – 11 pups may be born; can adapt to a wide range of environmental conditions

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Range: Coastal Gulf states, Atlantic coast and the Pacific Northwest



Japanese Honeysuckle

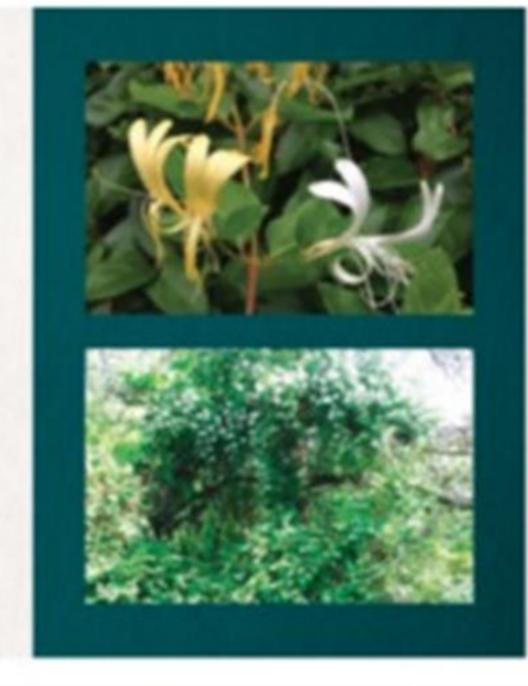
Japanese honeysuckle is a climbing, woody vine that crowds out native plant species. Reaching lengths of up to 80 feet, it can twist around trunks and stems of native plants, effectively killing them by cutting off their water supply.

Native region: East Asia

Introduction: Early 1800s; introduced as an ornamental plant, and as deer browse and erosion control

Spread: Spreads widely through long root runners and long distances by birds

Range: Widespread throughout the South, New England, and the Great Lakes regions



Sea Lamprey

Sea lamprey are parasites that prey on other fish species by sucking their blood and body fluids. They resemble eels, but are fish that lack jaws and bony structures.

Native region: Atlantic Ocean

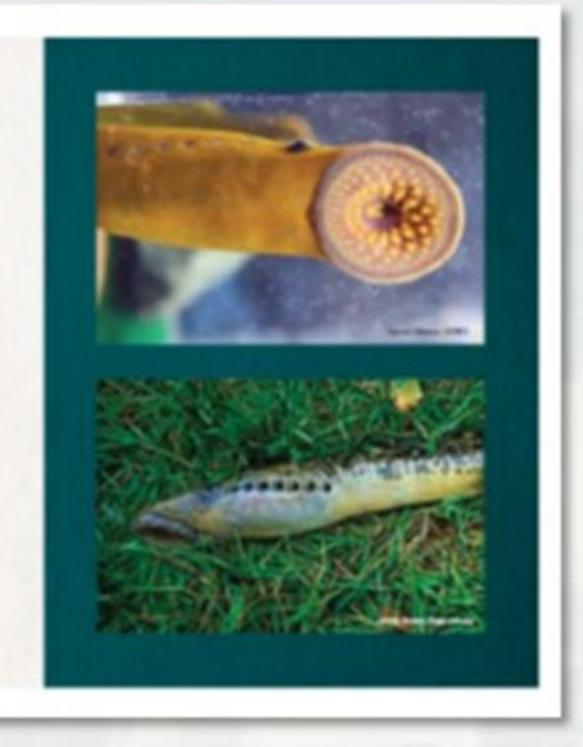
Introduction: 1835; first discovered in Lake Ontario, and

later in Lake Erie in 1921

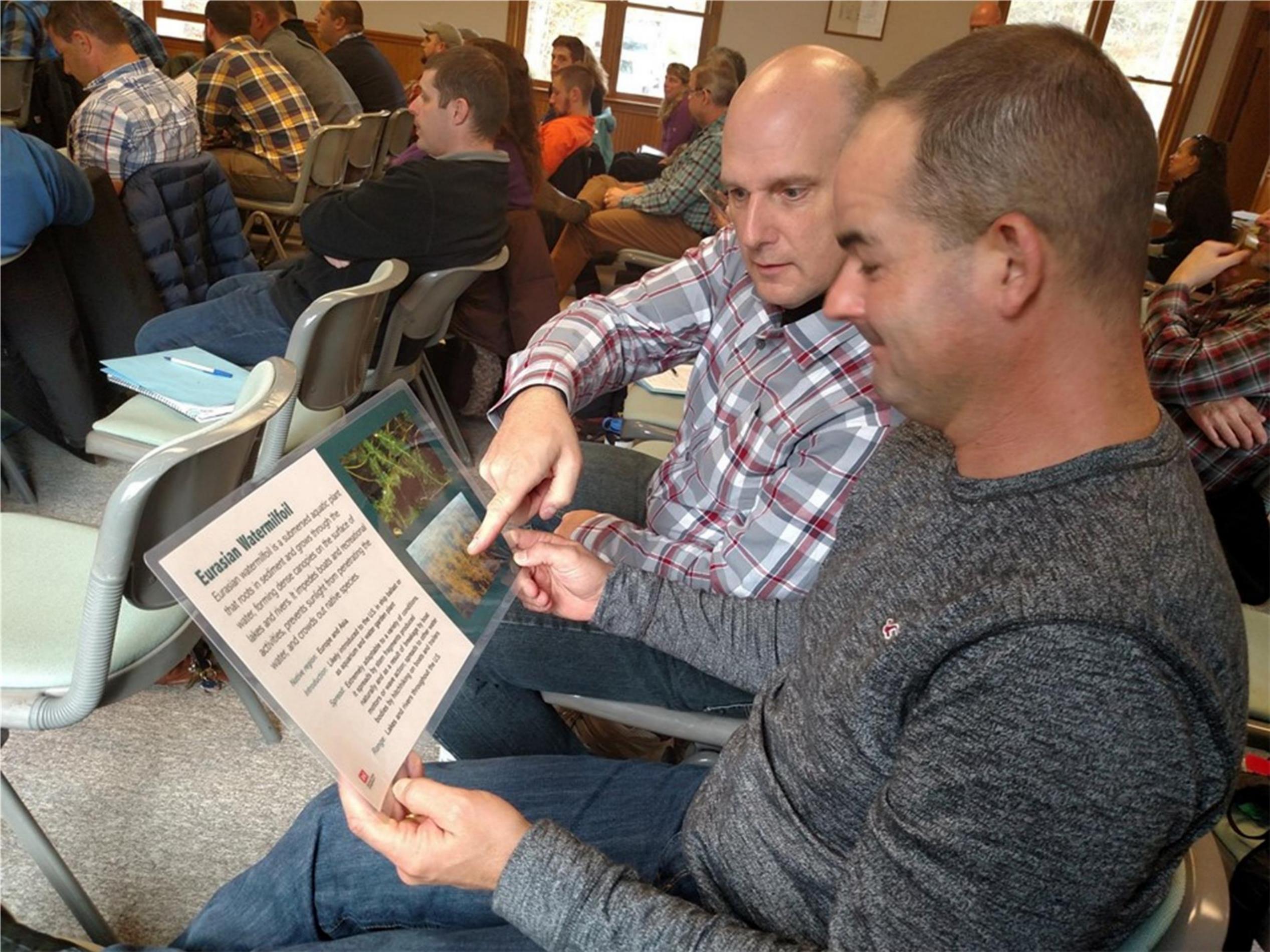
Spread: Spread originally through the Welland Canal, and quickly through the Great Lakes

Ronge: Widespread throughout the Great Lakes













Games - Meet the Invaders

Geared to the youngest of visitors, the memory game helps children get acquainted with invasive species.





GIANT SALVINIA

- Escaped aquarium and water garden plant
- Invades lakes and ponds
- Populations can double in size in 14 days!



FERAL PIG

- Intentionally released or escaped fugitive from farms
- Roam in aggressive packs
- Destroys crops & lawns through digging

Front of all cards

Games - Hitchhikers From Another Ecosystem



Geared to older children, the game helps visitors recognize how we can have an impact in stopping the threat and spread of invasive species. Props for game play are included.





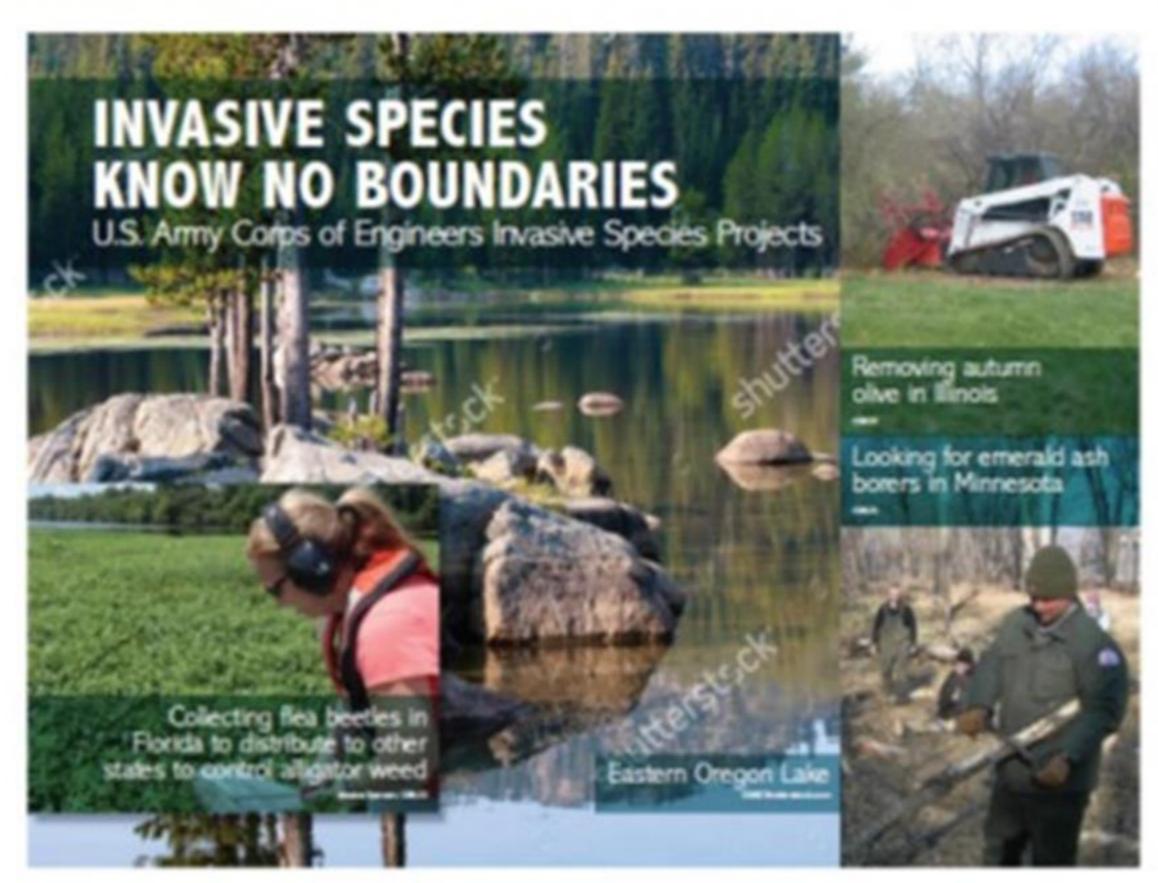








Electronic Materials

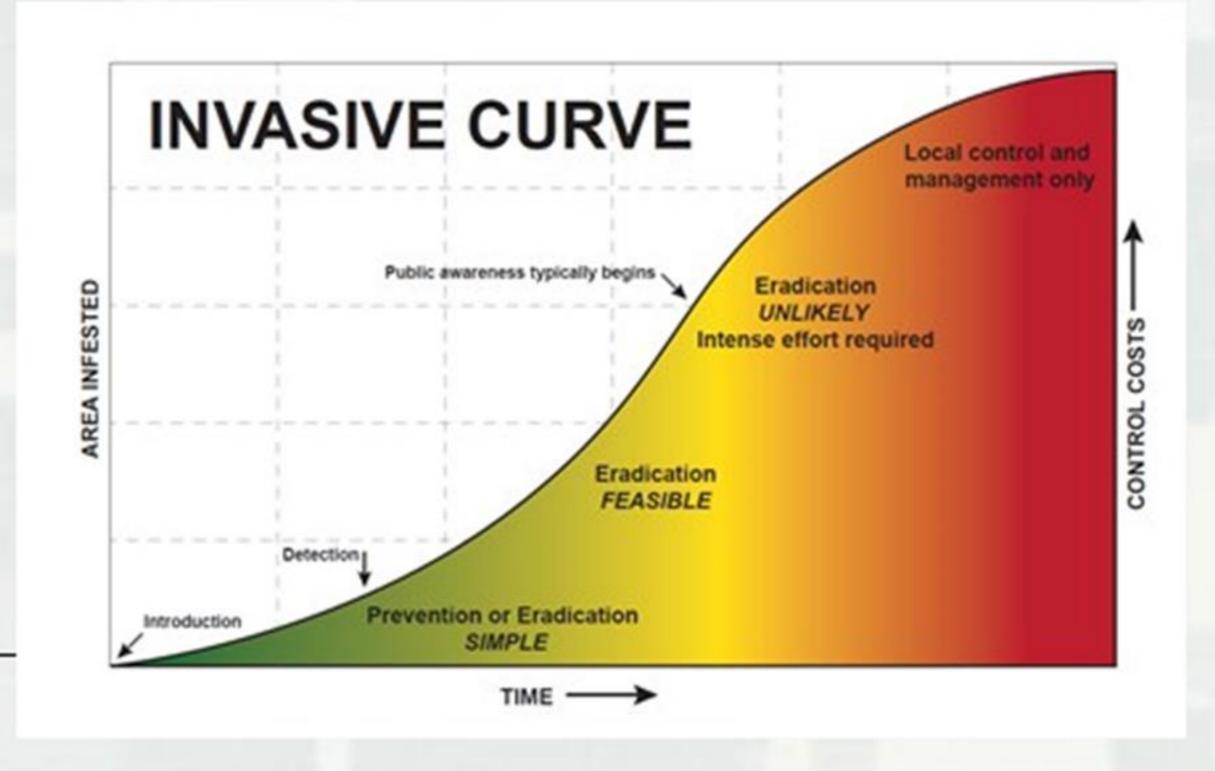


Slide 11



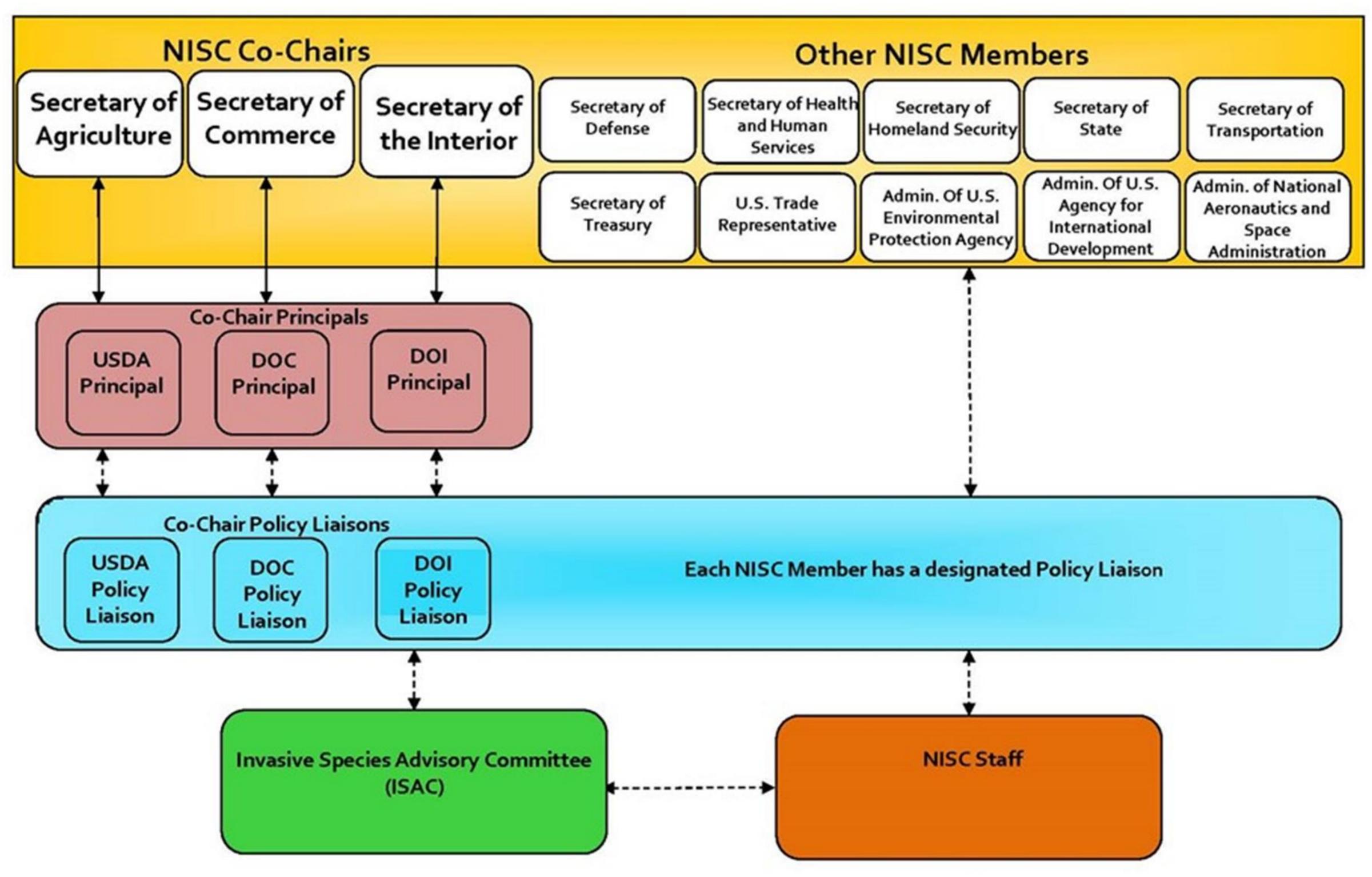


- PowerPoint presentation
- Printable informational handouts
- Corps Video
- Printable invasive species photographs and posters





The National Invasive Species Council



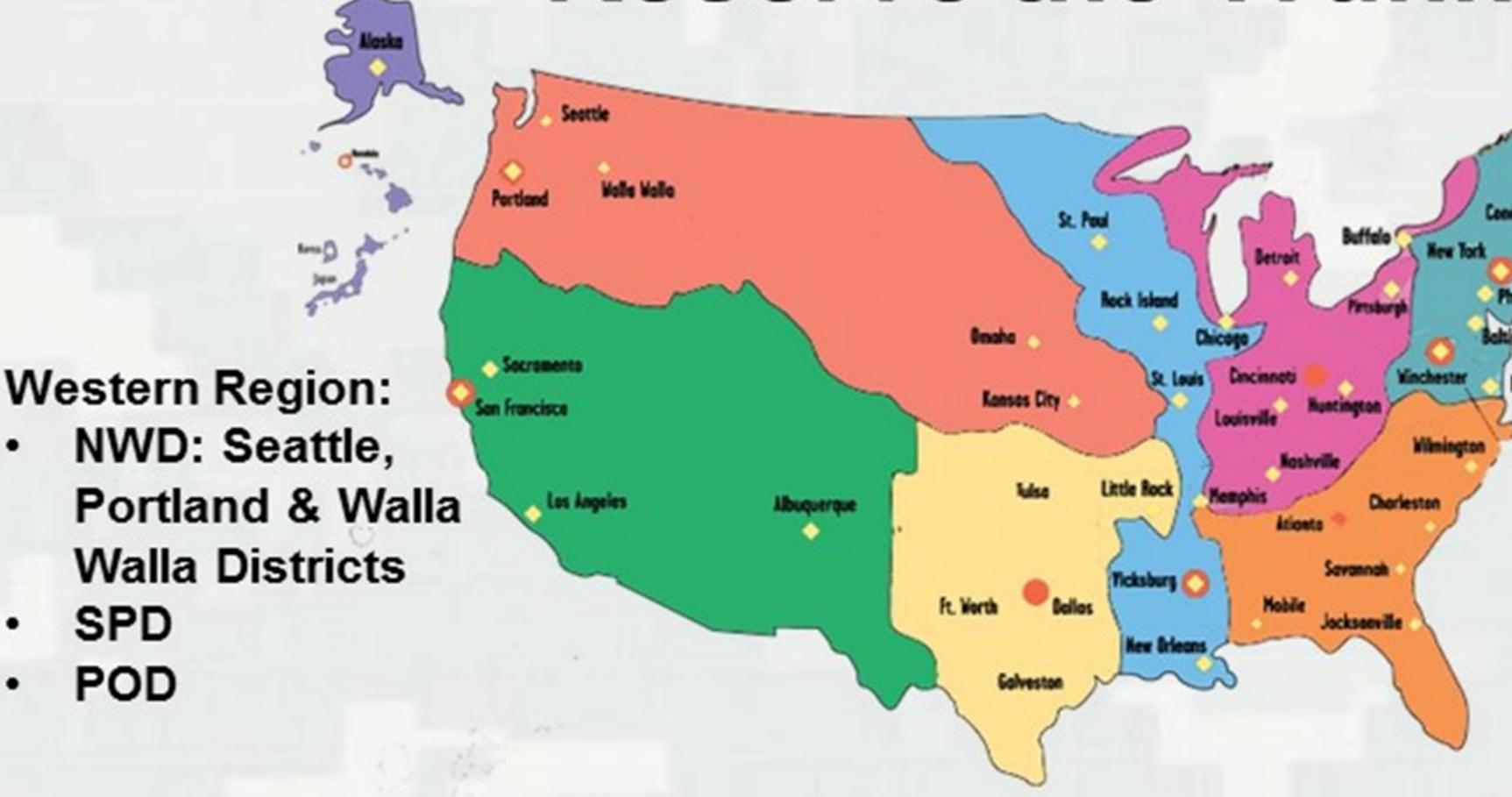
Solid lines indicate authority and supervision. Dotted lines indicate information flow.

Solid lines represent direct supervisory relationships between the Secretaries and their Principals and among NISC staff members.





Your Region's Point of Contact to Reserve the Trunk



Contact:

NWP, Bonneville

Megan L. Iness

megan.l.iness@usace.army.mil

541-374-4547

Or

Mason A. Scharfe

mason.a.scharfe@usace.army.mil

541-374-2544

Central Region:

- MVD
- ERDC
- SWD
- NWD: Kansas City & Omaha Districts

Contact: MVD, Mississippi River Project Office Lauren McNeal, Lauren.j.Mcneal@usace.army.mil 309-794-4332

Eastern Region:

- LRD
- NAD
- HQ
- SAD

Contact:

NAE, Cape Cod Canal

John Pribilla

John.Pribilla@usace.army.mil

978-318-8622

-or-

Samantha Gray

Samantha.a.Gray@usace.army.mil

978-318-8622



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Kyle Slifka,

kyle.f.Slifka@usace.army.mil 309-794-4523

We are your support team!



Learn more about the Invasive Species Leadership Team Traveling Trunk on our Gateway site at:

https://corpslakes.erdc.dren.mil/employees/islt/islt.cfm

Join the Invasive Species Management Community of Practice at: https://eko.usace.army.mil/usacecop/environmental/subcops/invasive/

Learn more about Corps of Engineers invasive species management at: http://www.usace.army.mil/Missions/Environmental/InvasiveSpeciesManagement.aspx



How to Borrow the Trunk

Fill out a request form & send it to your region's point of contact

Invasive	Meet the Invaders	Order Information
Species Leadership Team PREPARE - PREVENT - PROTECT	Invasive Species Interpretive Trunk	The Interpretive Trunk is available to borrow for up to 10 days. If you are requesting the trunk for more than 10 days you must fill out the comments section
http://www.usaca.army.nd/Missions/Endrumental/ tressiveEpeciesManagement.asps		Arrival Date: (We will ship out trunk three business days before the date of your request)
REQUEST FORM		Return Date: (We will anticipate receiving the trunk by three business days after the date of your request):
anuactor Information	•	Intended Audience(s):
equester Information		
me		
rganization Symbol		Comments:
reet Address Line 1		
reet Address Line 2		
y	Tio Code	
ate	Zip Code	
sk Number		
Number		By checking the box below and submitting this request form you are
ail Address		acknowledging that the "Trunk" and it's contents are the property of the United States Federal Government, and you will return the "Trunk" and
ipping Address (if different from above	e)	all of its contents by the date listed above. Your Point of Contact can provide you vendor information should you need to purchase
ntact Name		replacement items. You also acknowledge that it is your project's
ject Name		responsibility to pay for shipping costs to return the "Trunk" to your P.O.C. Your P.O.C. will cover shipping costs to send it to you.
eet Address Line 1		
reet Address Line 2		Email the request to your Point of Contact listed on the next page. Requests are
у		accommodated on a first come first serve basis.
te	Zip Code	





Meet the Invaders

Invasive Species Interpretive Trunk

INVENTORY FORM

Instructions:

- If you are the receiver: complete, sign and date applicable portion of this form when you receive and unpack the trunk.
- If you are packing/shipping the trunk: complete, sign and date applicable portion of this form when you pack and prepare the trunk to ship.
- Keep all forms with the trunk. Make a copy for your records.

Laye	r Item	Packed/Shipped	Received
1	Booklet: Photos of trunk contents by layer		
1	Tape Measure: 25'		
1	Educator's Guide		
1	In Educator's Guide: DVD of supporting electronic materials (video, PowerPoint, printable files of posters, etc)		
2	Sea lamprey model; acrylic encased		
2	Burmese python skin		
2	Hitchhikers from Another Ecosystem laminated group card		
2	Laminated Cards: Hitchhikers from Another Ecosystem, 19 Cards		



6	Game Piece: Fishing Bobber		
6	Game Piece: Hiking boot keychain		
6	Game Piece: Section of bike tire		
6	Game Piece: Tent stake		
6	Game Piece: Japanese honeysuckle seed packet		
6	Game Piece: Stuffed dog		
6	Game Piece: Toy boat		
6	Game Piece: Toy construction vehicle		
6	Game Piece: Piece of ash wood		
6	Dry erase markers		
6	Dry eraser (2)		
	Initial		Initial
	Date		Date
	items above have been accounted for a y exceptions are listed here:	nd are in good cond	dition.
Sei	nder Name (Print)		
Sei	nder Signature		
Sei	nder Phone Number		

	counted for a	and are in good	condition.	
All items above have been acc Any exceptions are listed here	:			
All items above have been acc Any exceptions are listed here);			
All items above have been acc Any exceptions are listed here);			
All items above have been acc Any exceptions are listed here Receiver Name (Print)); ————————————————————————————————————			
Any exceptions are listed here	•			





Meet the Invaders

Invasive Species Interpretive Trunk

Evaluation Form

Please take the time to fill out and return this evaluation form and return it with the trunk (or email it directly to your Point of Contact). It will help us make future improvements.

	Very Unsatisfied	Unsatisfied	Neutral	Satisfied	Very Satisfied
Overall satisfaction	0	0	0	0	0
Trunk request process	0	0	0	0	0
Shipping process	0	0	0	0	0
Trunk size (mobility)	0	0	0	0	0
Specimens - quality	0	0	0	0	0
Specimens - type/quantity	0	0	0	0	0
Educator's Guide - ease of use	0	0	0	0	0
Educator's Guide - content	0	0	0	0	0
Games	0	0	0	0	0
Connection with your audience	0	0	0	0	0

Most Useful Items in the Interpretive Trunk



Item or area that generated the most enthusiasm with your audience(s)	
Most relevant items or parts of presentation	
Least liked item or section	
Suggestions for improvement	
Additional comments	
	BUILDING STRONG®

Meet the Invaders: Invasive Species Interpretive Trunk -- Please record how the trunk was used

Event	event / program length	Location	Group/organization	# of Contacts
	Event	Event program	Event program Location	Event program Location Group/organization

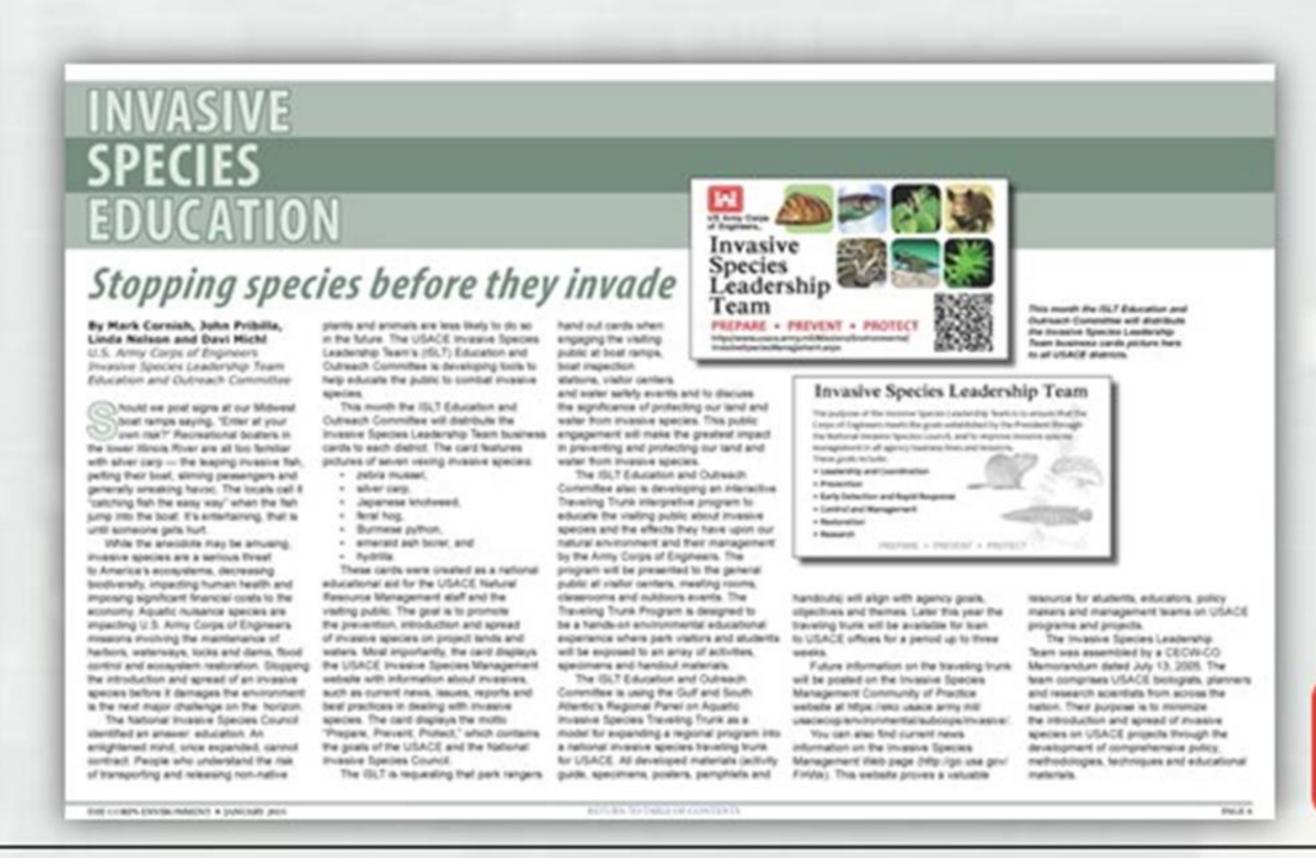


ISLT Information Cards

- November 2014
 - 100,000,000 information cards printed
- January, 2015
 - Corps Environment article on ISLT Education & Outreach activities
 http://www.usace.army.mil/Portals/2/docs/Environmental/Corps_Environment/The_Corps_Environment_January_2015.pdf
 - Cards shipped to 50 Districts/Divisions offices (1600 cards each)
 - E-mail sent to recipients prior shipping
 - Letter included with shipments describing purpose, how/where to distribute cards
 - 20,000 cards sent to HQ warehouse for future distribution







Prior to your Presentation:























Photos of **Trunk Contents by Layer**

Layer 6









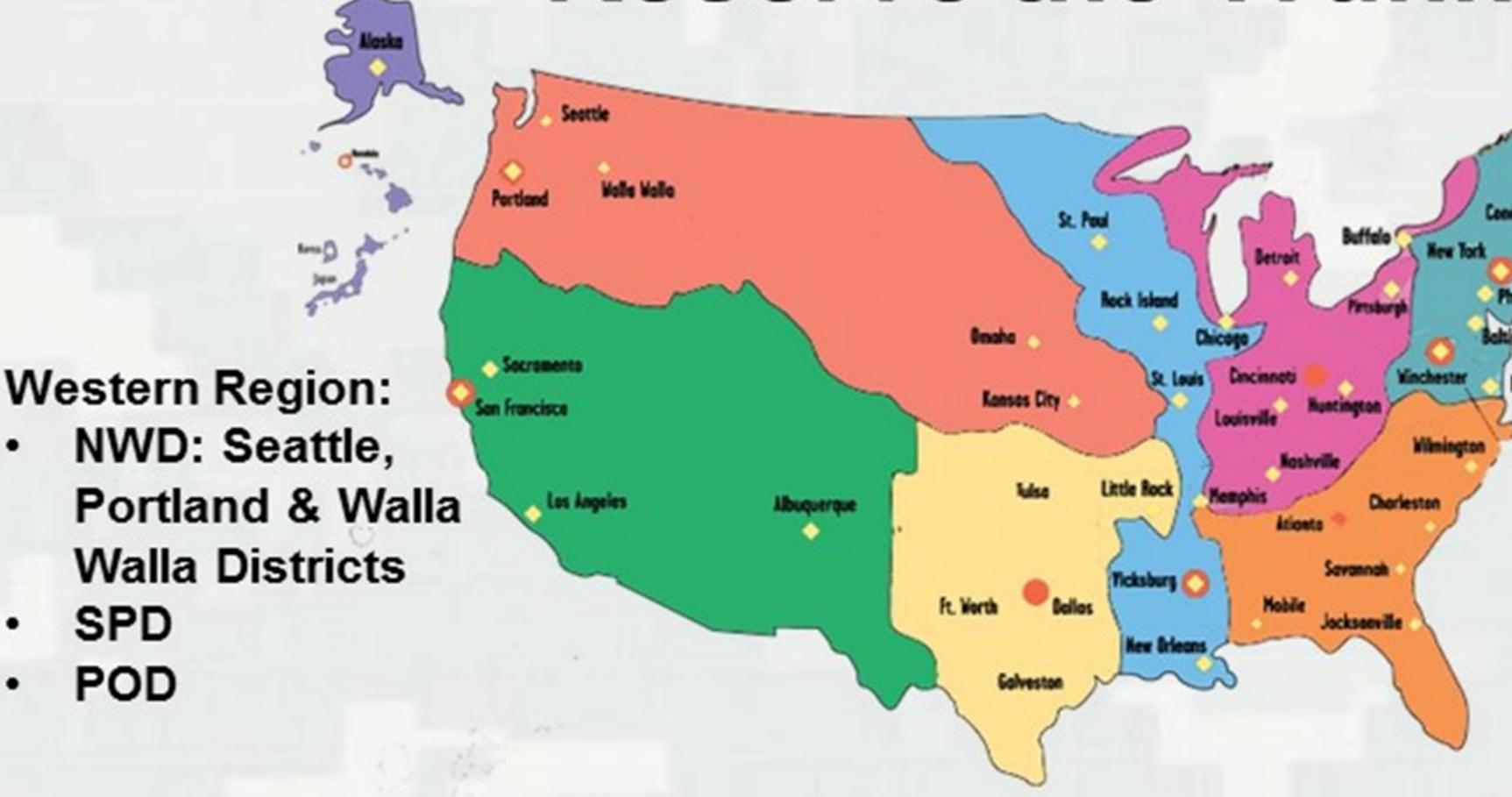








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Or

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Contact: MVD, Mississippi River Project Office Lauren McNeal, Lauren.j.Mcneal@usace.army.mil 309-794-4332

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Contact:

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-or-

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