

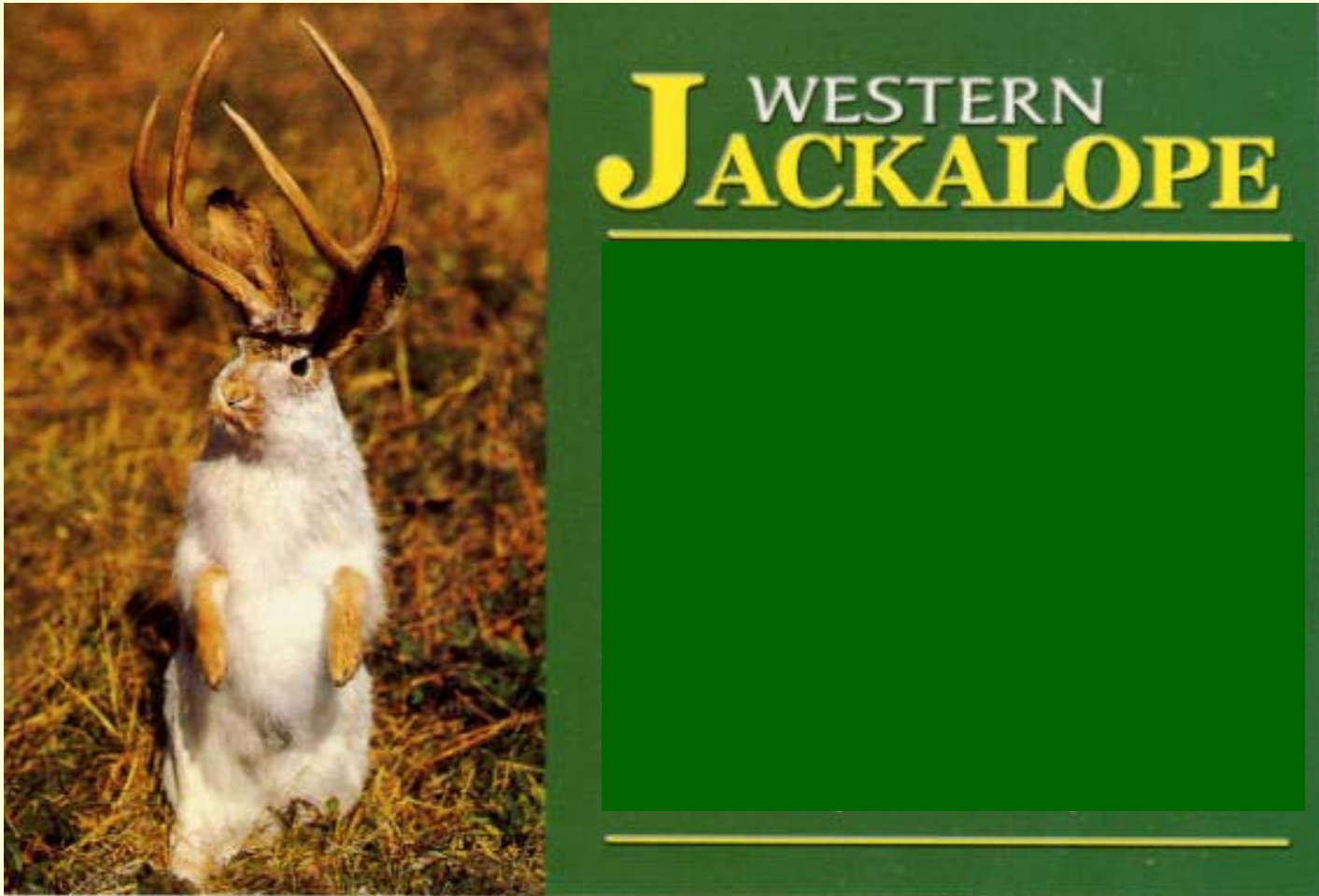
# Coordination of Federal Invasive Species Efforts

Chris Dionigi, Assistant Director, Domestic  
Policy National Invasive Species Council



| Report Documentation Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |                                     |                                            | Form Approved<br>OMB No. 0704-0188          |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------|
| Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. |                                    |                                     |                                            |                                             |                                    |
| 1. REPORT DATE<br><b>01 AUG 2004</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    | 2. REPORT TYPE<br><b>N/A</b>        |                                            | 3. DATES COVERED<br><b>-</b>                |                                    |
| 4. TITLE AND SUBTITLE<br><b>CouncilCoordination of Federal Invasive Species Efforts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                                     |                                            | 5a. CONTRACT NUMBER                         |                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                                     |                                            | 5b. GRANT NUMBER                            |                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                                     |                                            | 5c. PROGRAM ELEMENT NUMBER                  |                                    |
| 6. AUTHOR(S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                                     |                                            | 5d. PROJECT NUMBER                          |                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                                     |                                            | 5e. TASK NUMBER                             |                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                                     |                                            | 5f. WORK UNIT NUMBER                        |                                    |
| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)<br><b>National Invasive Species Council (NISC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                     |                                            | 8. PERFORMING ORGANIZATION<br>REPORT NUMBER |                                    |
| 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                                     |                                            | 10. SPONSOR/MONITOR'S ACRONYM(S)            |                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                                     |                                            | 11. SPONSOR/MONITOR'S REPORT<br>NUMBER(S)   |                                    |
| 12. DISTRIBUTION/AVAILABILITY STATEMENT<br><b>Approved for public release, distribution unlimited</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                     |                                            |                                             |                                    |
| 13. SUPPLEMENTARY NOTES<br><b>See also ADM002111. Department of Defense Conservation Conference. Held in Savannah, Georgia on August 22-27, 2004, The original document contains color images.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |                                     |                                            |                                             |                                    |
| 14. ABSTRACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                                     |                                            |                                             |                                    |
| 15. SUBJECT TERMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |                                     |                                            |                                             |                                    |
| 16. SECURITY CLASSIFICATION OF:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                                     | 17. LIMITATION OF<br>ABSTRACT<br><b>UU</b> | 18. NUMBER<br>OF PAGES<br><b>31</b>         | 19a. NAME OF<br>RESPONSIBLE PERSON |
| a. REPORT<br><b>unclassified</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | b. ABSTRACT<br><b>unclassified</b> | c. THIS PAGE<br><b>unclassified</b> |                                            |                                             |                                    |

# Jackalopes are not Invasive Species



# Invasive species can be plants, animals, or microorganisms.

1. species that are not native to the ecosystem under consideration.
2. whose introduction causes or is likely to cause economic or environmental harm or harm to human health. (E.O. 13112)

Plants



Microbes



Animals



People often have a distinct & predicable reaction to invasive species.





However, less is known about invasive species reactions to humans.

Invasive species have a major impact on  
The environment e.g., endangered native  
species.



Invasive species have a major impact on the economy and in some cases human health.

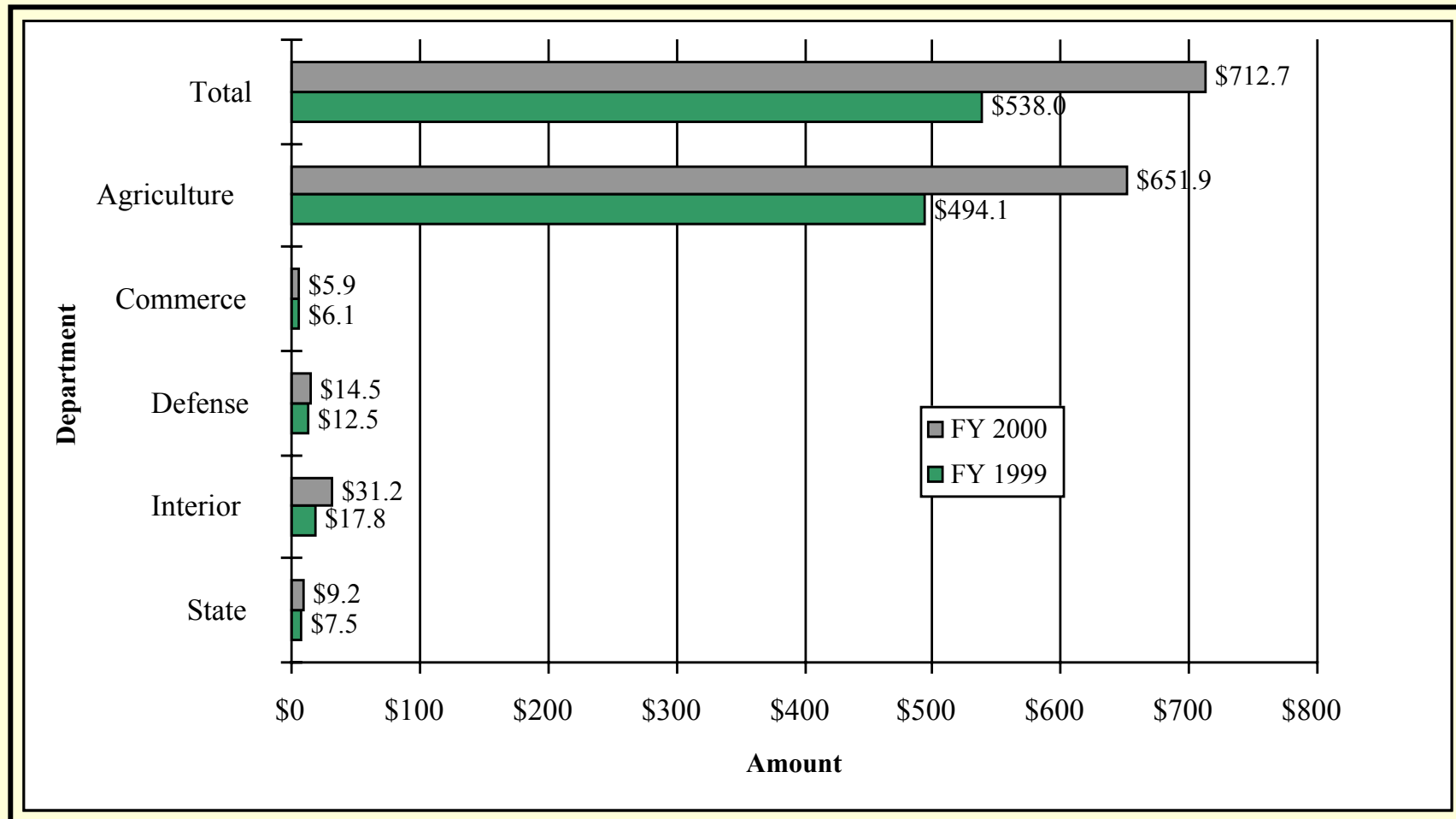


However, our native species are not defenseless and they can recover.



**Invasive Species are estimated to cost the U.S. ca. \$100Billion/year.**

**Total Federal Expenditures on Invasive Species is ca. \$1.0Billion/FY.**



# **Executive Order 13112 On Invasive Species**

## **Established the National Invasive Species Council (Council)**

**to ensure that Federal agency activities are coordinated, complementary, cost-efficient & effective.**

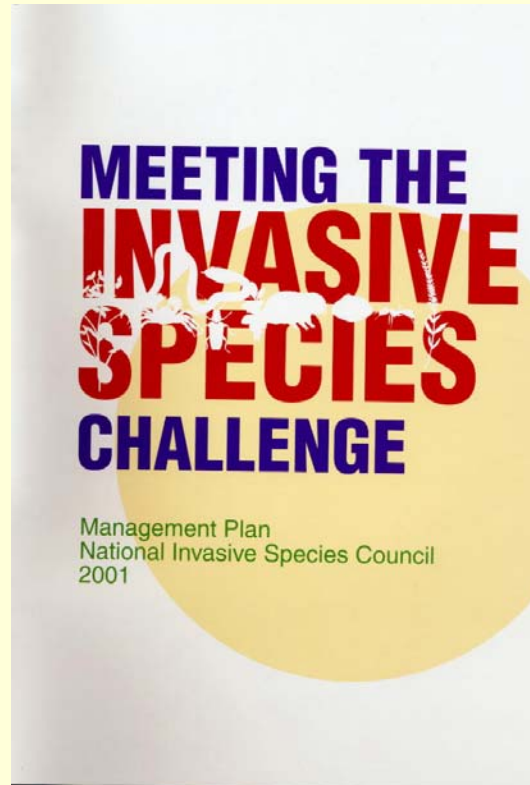
**Council's Co-chairs are the Secretary of: Interior, Agriculture & Commerce.**

**Other members the Secretaries: DOT, DOD, Treasury, State, EPA, HHS, DHS, & USAID.**

## **Established Invasive Species Advisory Committee (ISAC)**

**Non-Federal FACA chartered group that advises the Council.**

# The first comprehensive national invasive species action plan



**The Council – Secretaries of the Departments**

N<sub>11</sub>

**Co-chair Principals – Ag, Commerce, & Interior**

N<sub>3</sub>

**Policy Liaisons** 1/Council Dept.

N<sub>11</sub>

Agency Reps  
in each agency

Agency Reps  
in each agency

Agency Reps  
in each agency

Agency Reps  
in each agency

Agency Reps  
in each agency

N<sub>23+</sub>

**ISAC**  
Non-Federal  
FACA

**Work Groups**  
Can be fed & non Fed

“Taxa Teams”,  
e.g., ANSTF & FICMNEW

Non-Council  
Feds, e.g. SI, NSF

**Other non-ISAC**  
non-federal,  
representatives

**Council Staff**  
Executive Director, Domestic,  
International, Outreach, Support  
& Detailees

■ Non-Federal

■ Federal

■ Administration – Political Appointees

## ISAC FACA Chartered Teams/Subcommittees:

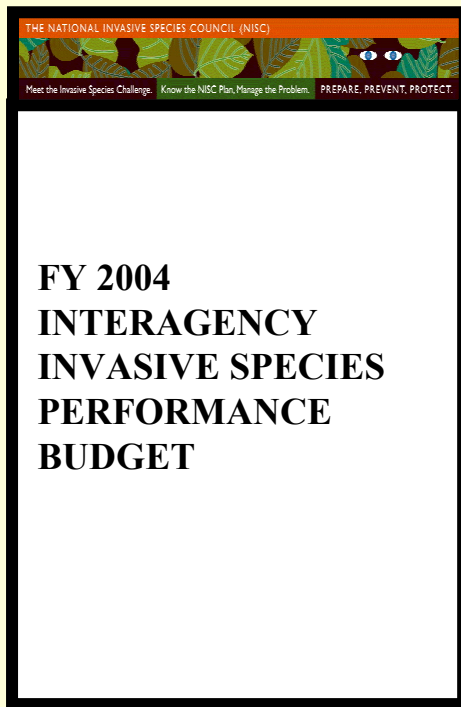
|                                  | ISAC Co-Chair | Fed Co-Chair                    |
|----------------------------------|---------------|---------------------------------|
| Leadership & Coordination        |               | L. Williams                     |
| Research:                        |               | J. Lydon                        |
| ED&RR:                           |               | T. Bewick                       |
| Information Management:          |               | S. McCarthy                     |
| Control & Management:            |               | R. Noweirski                    |
| Prevention (Screening/Pathways): |               | J. Smith = P. Kriesch<br>R. Orr |
| Communication & Outreach:        |               | A. Cherrie                      |
| International Cooperation:       |               | D. Roth                         |

## Key Plan Areas

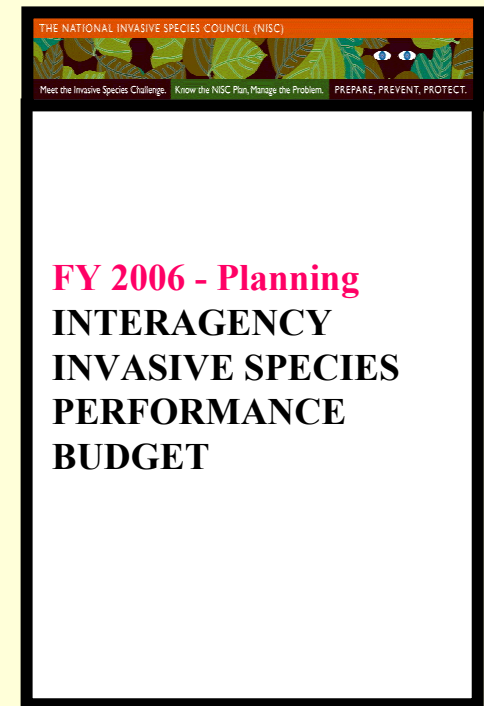
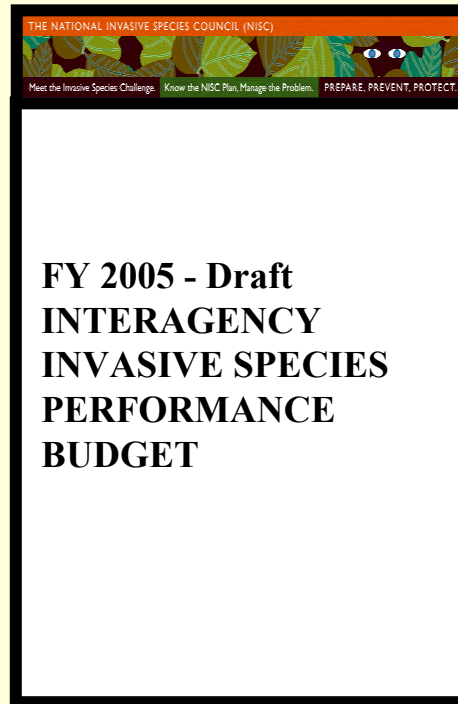
### *Coordination and leadership.*

#### *Actions:*

- ensure EO is followed
- NEPA Guidance – **initial draft completed.**
- put together a **cross-cut budget** to highlight cooperative efforts for use as a planning tool



## Cross-cut Budgets



**Phil Andreozzi**  
**Program Specialist**  
**National Invasive Species**  
**Council**  
**Phone: 202 - 354 - 1884**

# Prevention – the first line of defense.

## *Actions*

- screening for intentionally introduced species.
- Id, find & address pathways for unintentional introduction.



**Highly Successful – Smuggled Fruit Detection Dog**

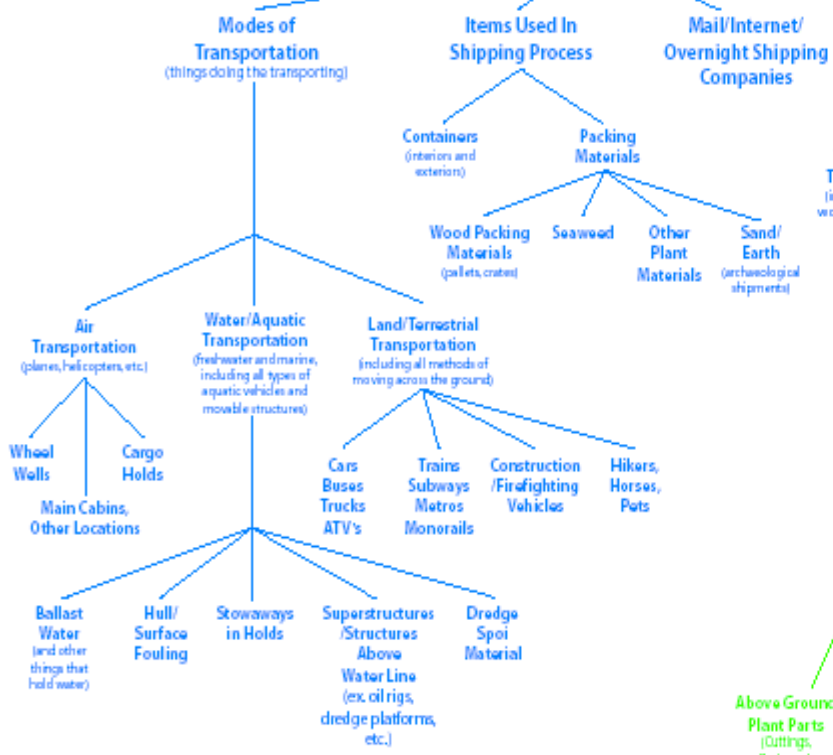


**Less Than Successful – Smuggled Fruit Detection Cat**

DRAFT

# Transportation Related Pathways

(incl. military travel)

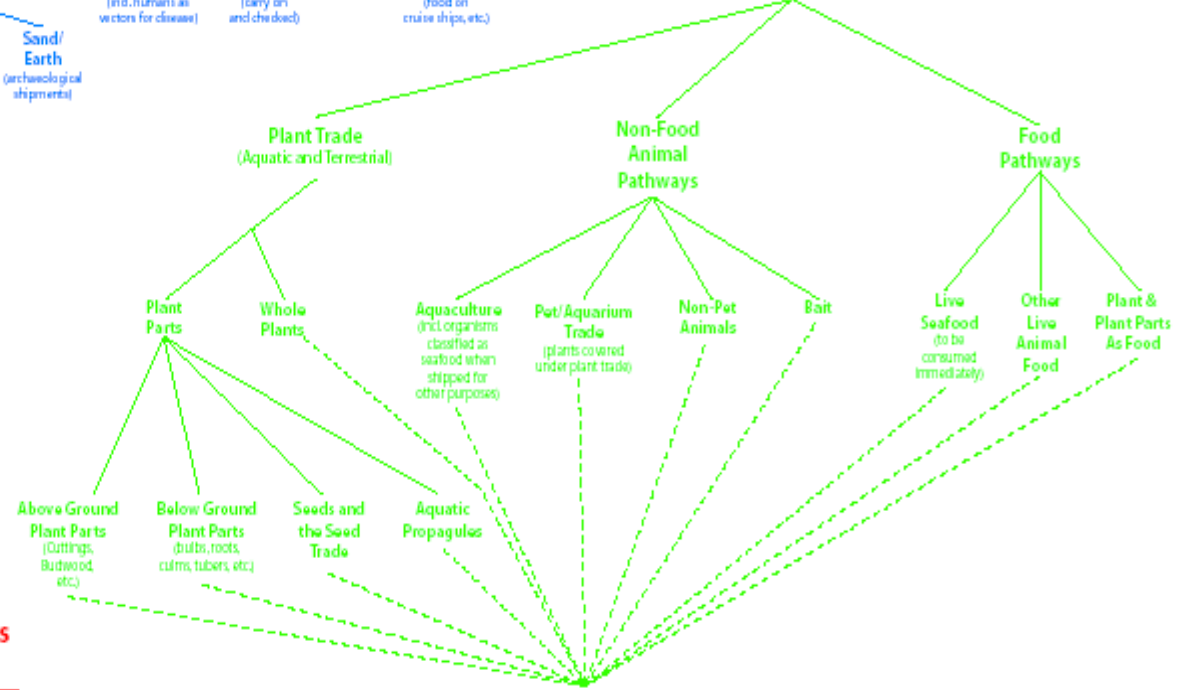


DRAFT

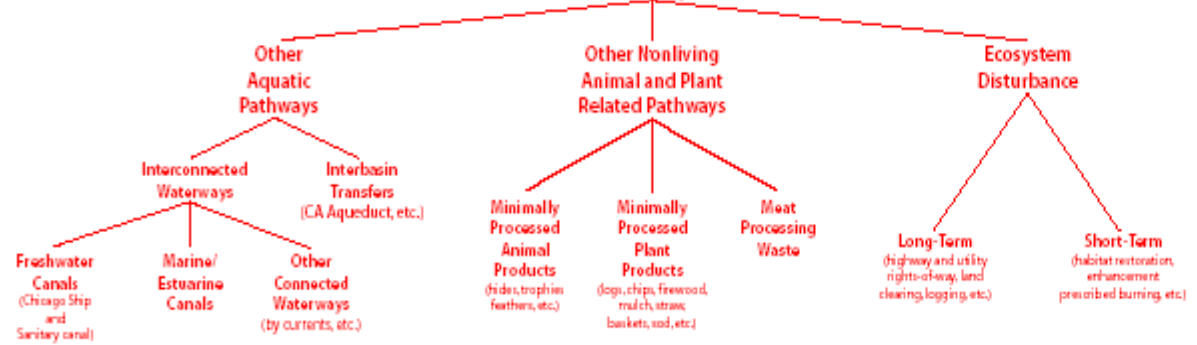
## COMPOSITE DIAGRAM

### Categorization of Pathways for the Pathways Team of the National Invasive Species Council

## Living Industry Pathways



## Miscellaneous Pathways



DRAFT



**Early Detection and Rapid Response:**  
may be the only opportunity to eradicate or contain.

**Actions:**

- improve detection methods to speed up the process
- seek a flexible funding source for rapid response contingencies
- establish rapid response teams with local/state organizations

“Proactive species” information, before the introduction,  
rapid assessment.

Improved control technologies



# **General Guidelines for the Establishment & Evaluation of Invasive Species Early Detection & Rapid Response Systems**

# Control and Management:

Reducing established IS & limiting their spread can dramatically decrease negative impacts.

## *Actions:*

- increase funding for control and management on Federal lands
- matching grants to assist state, local, & regional control efforts



Improved information re: impacts of species.

Improved monitoring to understand effectiveness of control efforts.



***Draft* GUIDELINES FOR**

**RANKING INVASIVE  
SPECIES PROJECTS IN  
NATURAL AREAS**

**Version I  
(August 2004)**

# Restoration:

Restoring native species in conjunction with controlling IS can reduce risk of future invasions and improve control effectiveness.

## *Actions:*

- develop federal restoration materials
- propose legislation to provide incentives guidelines

### Restoration guidelines

At what points is the damage so great that natural systems cannot recover?



# International Cooperation:

IS are a global problem. Our actions can create problems other nations, & we need their help combating IS.

## *Actions:*

- develop standards and codes of conduct within context current international agreements and programs
- improve technical assistance and information sharing

CBD Invasive Species.



**Research:** is critical to all aspects of the plan.

*Action:*

- propose additional research funding for core capacities  
– integrated capacity.
- identify fundamental to applied research needs.

Economic Research – ERS \$2M.



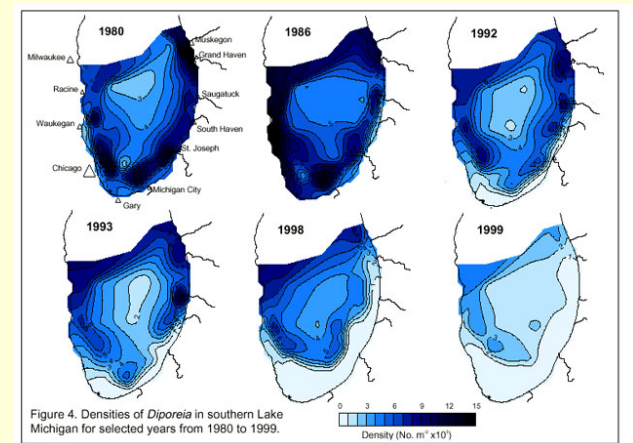
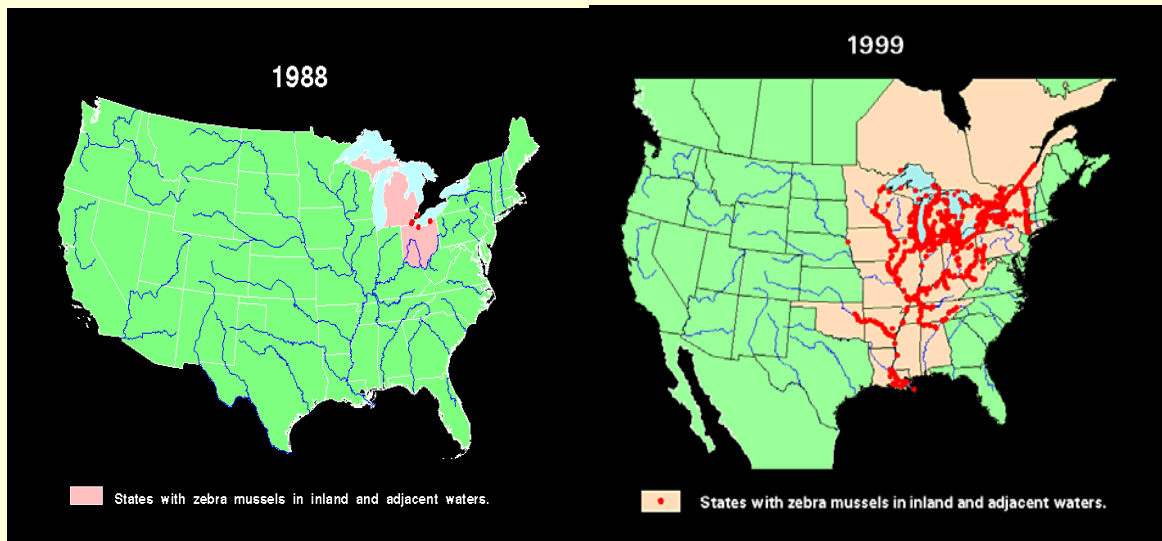
# Information management:

Improved decision-making will rely upon shared information & mapping capabilities.

*You can't manage what you can't measure, and you can't control what you cannot find.*

**Actions:** Council website [www.invasivespecies.gov](http://www.invasivespecies.gov) .

Data to Information – modeling & mining.



# Invasivespecies.gov

*A gateway to Federal and State invasive species activities and programs*

[Home](#)[Council](#)[Management Plan](#)[Search](#)[Contact Us](#)

## Welcome to Invasivespecies.gov!

Invasivespecies.gov is the gateway to Federal efforts concerning invasive species. On this site you can learn about the [impacts](#) of invasive species and the Federal government's [response](#), as well as read select [species profiles](#) and find links to [agencies and organizations](#) dealing with invasive species issues.

Invasivespecies.gov is also the website for the [National Invasive Species Council](#), which coordinates Federal [responses](#) to the problem.

## What is an Invasive Species?

An "invasive species" is defined as a species that is 1) non-native (or alien) to the ecosystem under consideration **and** 2) whose introduction causes or is likely to cause economic or environmental harm or harm to human health. ([Executive Order 13112](#)).

Invasive species can be plants, animals, and other organisms (e.g., microbes). Human actions are the **primary** means of invasive species introductions.

### What's New

[Species Profiles](#)[Geographic Information](#)[News and Events](#)[Laws and Regulations](#)[Resources](#)[Manager's Tool Kit](#)[Databases](#)[Vectors and Pathways](#)[Databases](#)

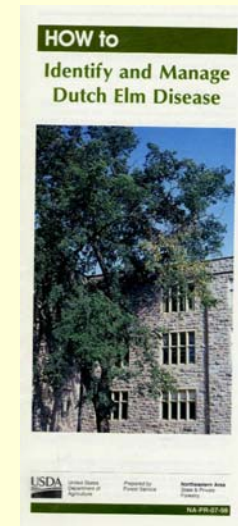
# Education and Public Awareness:

Scope of the IS problem, their impact, and how the public can help must be communicated to the general public.

## *Actions:*

National Invasive Species Awareness Campaign - a survey existing efforts, we will work to increase public cooperation in counter IS efforts.

Targeting and instrument development.



Key Resources: the Armed Forces Pest Management Board  
(AFPMB)

& the National Military Fish and Wildlife Association



We will be successful to the extent that our policies & actions reflect the biology & ecology of invasive species.

They exhibit multi-sector impacts & inter-jurisdictional distributions.

Therefore, the keys are:

Cooperation, Coordination & Communication.



The Rare Spotted Snakehead