Plant Protection and Quarantine



National Crop Biosecurity

Prevention, Preparedness, Response, and Recovery

Animal & Plant Health Inspection Service Plant Protection & Quarantine Emergency and Domestic Programs

Plant Protection and Quarantine

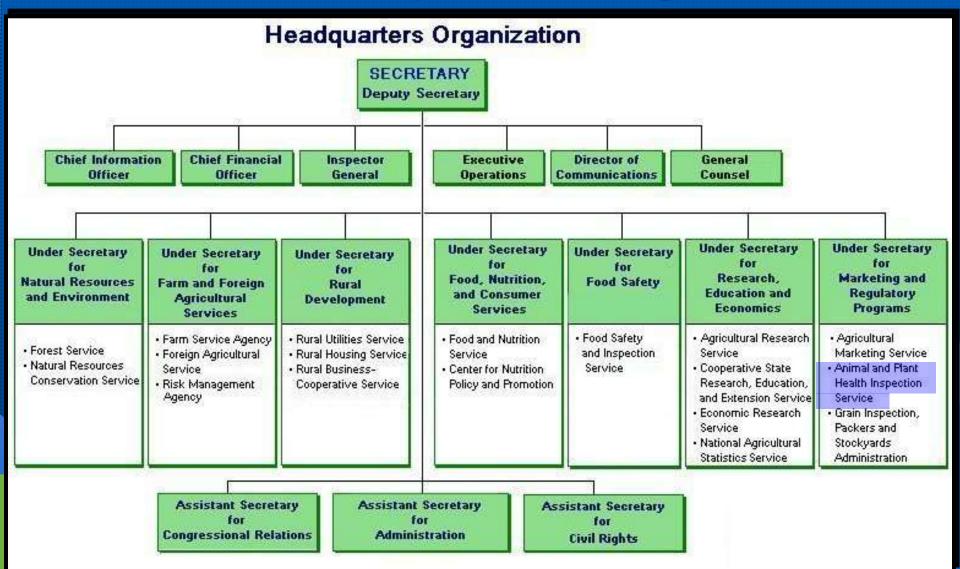




Background; USDA-APHIS-PPQ
 Pest & Disease Pathways
 PPQ – National Crop Biosecurity
 Case Study: Potato Cyst Nematode (PCN)

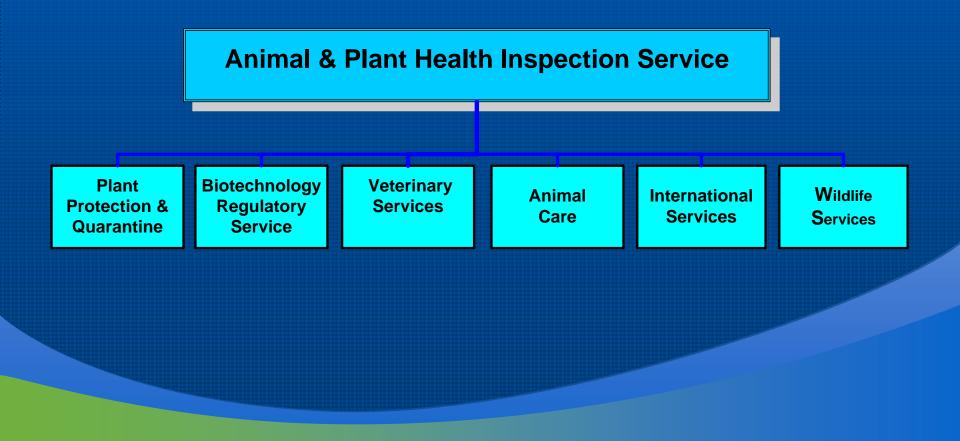


United States Department of Agriculture





United States Department of Agriculture





Plant Protection & Quarantine



Safeguard agriculture and natural resources from risks associated with the entry, establishment, or spread of plant pests and noxious weeds.

> Plant Protection Act, 2000 Ag. Bioterrorism Protection Act, 2002



Pest and Disease Pathways

Unintentional

- Natural Movement
- Accidental Introduction

- Intentional
- Smuggling
- Bioterrorism



Why Target Agriculture?

American Agriculture

~13% of the Gross Domestic Product
~17% of all U.S. employment
~25 million Americans are employed in agricultural-related industries

- Agricultural industries valued at \$230 billion
- Agricultural Exports account for \$140 billion & 860,000 jobs



Why Target Agriculture?

Ramifications & Consequences:

- Devastating impact on U.S. agriculture economy
- Loss of nation's supply of food & fiber
- Disruption of trade & commerce
- Increased dependency on imports
- Impact on environment / quality of life

Plant Protection and Quarantine





Asian Long-horned Beetle





Asian Long-horned Beetle





Plant Protection and Quarantine





Asian Long-horned Beetle





Emergency Response and Recovery Plant Health vs. All Hazards

	Plant Health	All Hazards
Lead Agency	APHIS-PPQ	FEMA
Authority	Plant Protection Act	Homeland Security Act
Policy	NIMS-ICS	National Response Framework NIMS-ICS
APHIS' Role	Primary	Lead – ESF11
Presidential Declaration	Not required	Required



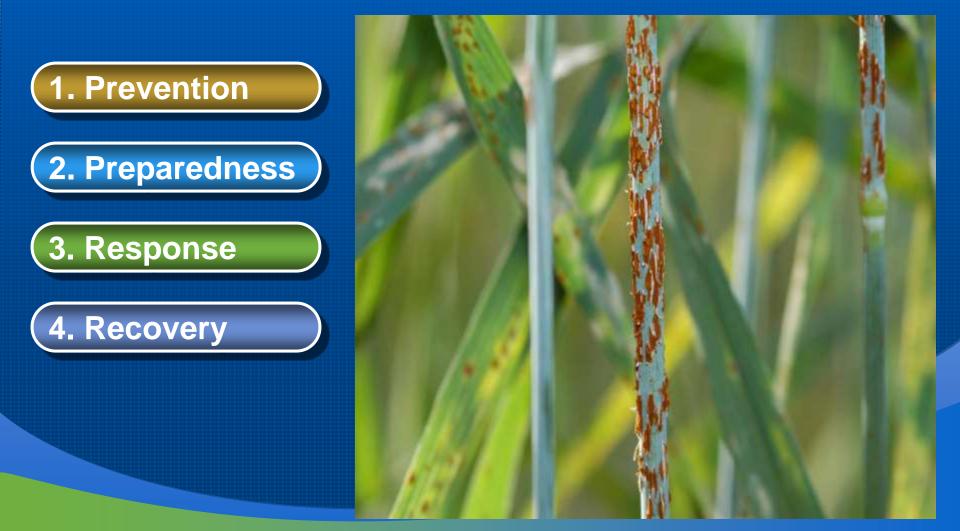
National Crop Biosecurity

PPQ Vision

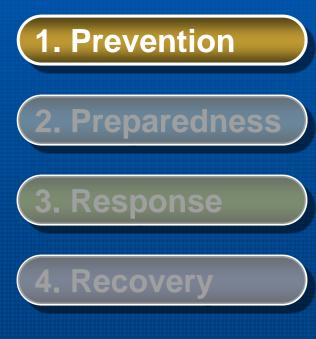
Highly Coordinated Systems:

- Science-based
- Maximum protection
- Minimum adverse impacts
- Inclusive









- Off-Shore Pre-Clearance Program
- Agricultural Quarantine Inspection
- Permits
- Surveillance
- Diagnostics
- Mitigations
- Critical Infrastructure
- Vulnerability Assessment



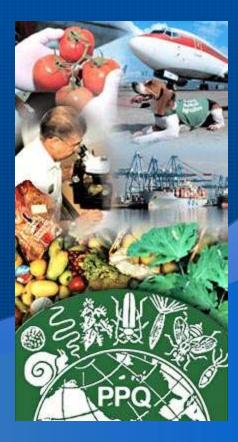
National Framework for Crop Biosecurity: Four Elements

Prevention

Agricultural Quarantine Inspection

Support to DHS Customs and Border Protection:

- Policies, Rules, and Regulations
- Pest identification at 25 ports-of-entry
- Technical training
- Inspect plant material
- Animal products (Veterinary Regulatory Services)





National Framework for Crop Biosecurity: Four Elements

Prevention

Agricultural Quarantine Inspection

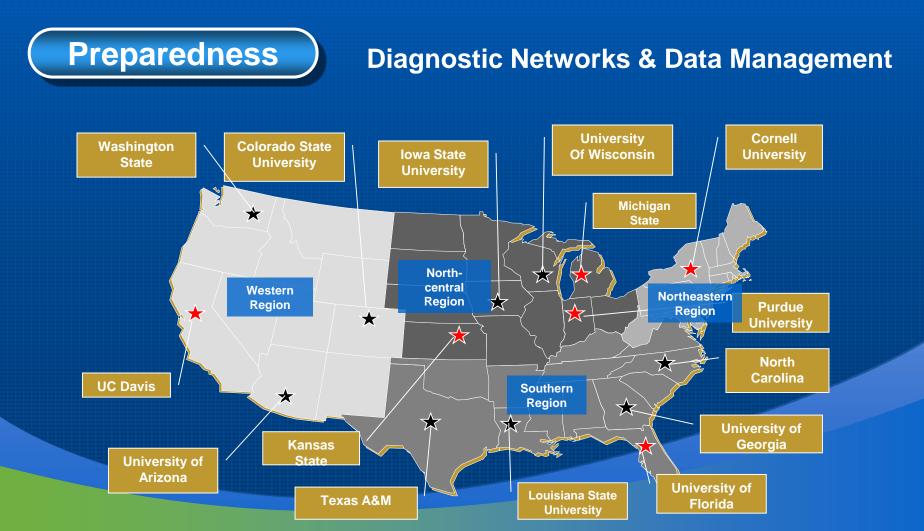






- Training (ICS, survey, diagnostics, data management, mitigation, exercises, etc.)
- Infrastructure







National Framework for Crop Biosecurity: Four Elements

Preparedness

Preparedness and Response Training:

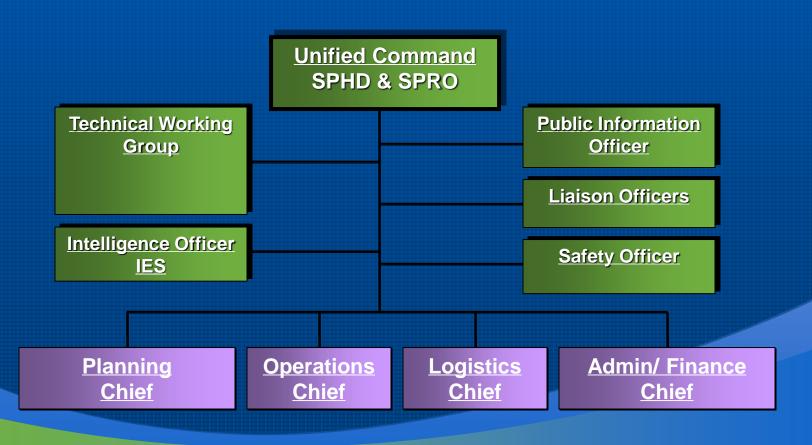


- ICS 100/200 (Mandatory APHIS Employee Training)
- ICS 300 (Mandatory for All State Plant Health Directors)
- Full-Scale Exercises
- Workshops/Seminars
- Table Top Exercises
- Functional Exercises

Plant Protection and Quarantine



ICS - Command Staff









National Framework for Crop Biosecurity



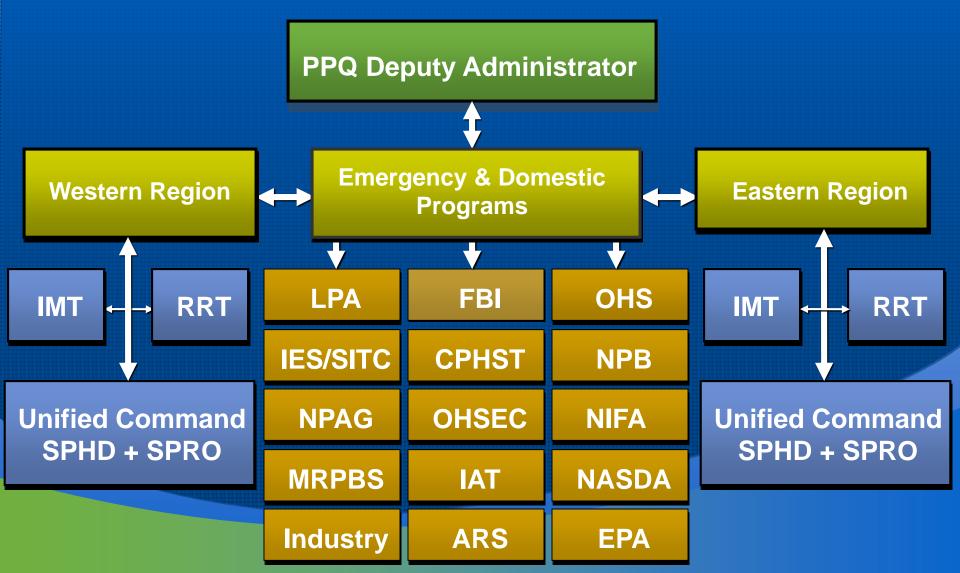


Incident Command System
 Federal and State Unified Command

- Emerald Ash Borer (MI, IN, IL, OH)
- Plum Pox Virus (NY, MI, PA)
- Citrus Greening & Canker (FL)
- Sirex noctilio (NY)
- Fruit Fly Outbreaks (CA, FL, MX)
 Potato Cyst Nematode (ID)



Communication and Coordination







- National Plant Disease Recovery System
- Prevention Elements
- Survey and Detection
- Long-Term Pest Control Systems



National Framework for Crop Biosecurity





Citrus Health Response Plan Asiatic Soybean Rust



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National Crop Biosecurity

Animal & Plant Health Inspection Service Plant Protection & Quarantine

http://www.aphis.usda.gov/subjects/plant_health/

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