

The World's Largest Open Access Agricultural & Applied Economics Digital Library

### This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
<a href="http://ageconsearch.umn.edu">http://ageconsearch.umn.edu</a>
<a href="mailto:aesearch@umn.edu">aesearch@umn.edu</a>

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

Agricultural Outlook Forum U.S. Department of Agriculture

Protecting American Agriculture from Invasive Plant Pests:
Plant Health Emergency Framework

Presented: February 18-19, 2010

David Kaplan



## Protecting American Agriculture From Invasive Plant Pests:

### Plant Health Emergency Framework

David T. Kaplan, Ph.D.

APHIS PPQ

Emergency & Domestic Programs
Feb 19, 2010



### Plant Health Emergencies

- Potato Cyst Nematode (ID)
- Gladiolus Rust (FL, CA)
- Citrus Greening/Canker (FL)
- Asian Gypsy Moth (TX, CA)
- Red Palm Mite (PR, FL)
- Plum Pox Virus (NY, MI, PA)
- Emerald Ash Borer (MI, IN, IL, OH, PA)
- Fruit Fly Outbreaks (CA, FL, MX)
- Light Brown Apple Moth (CA)
- Panicle Rice Mite (TX, LA, AR, PR, NY)
- Orange Rust of Sugarcane (FL)
- Coconut Rhinoceros Beetle (Guam)





### Plant Health Emergencies

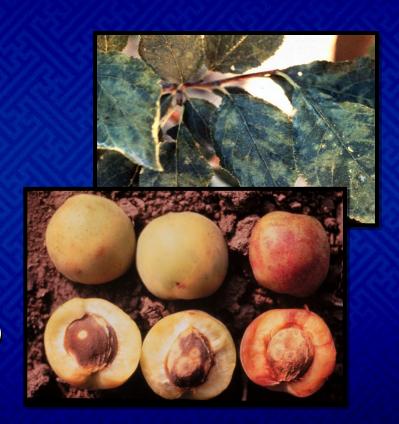
- Potato Cyst Nematode (ID)
- Gladiolus Rust (FL, CA)
- Citrus Greening / Citrus Canker (FL)
- Asian Gypsy Moth (TX, CA)
- Red Palm Mite (PR, FL)
- Plum Pox Virus (NY, MI, PA)
- Emerald Ash Borer (MI, IN, IL, OH, PA)
- Fruit Fly Outbreaks (CA, FL, MX)
- Light Brown Apple Moth (CA)
- Panicle Rice Mite (TX, LA, AR, PR, NY)
- Orange Rust of Sugarcane (FL)
- Coconut Rhinoceros Beetle (Guam)





### Plant Health Emergencies

- Potato Cyst Nematode (ID)
- Gladiolus Rust (FL, CA)
- Citrus Greening/Canker (FL)
- Asian Gypsy Moth (TX, CA)
- Red Palm Mite (PR, FL)
- Plum Pox Virus (NY, MI, PA)
- Emerald Ash Borer (MI, IN, IL, OH, PA)
- Fruit Fly Outbreaks (CA, FL, MX)
- Light Brown Apple Moth (CA)
- Panicle Rice Mite (TX, LA, AR, PR, NY)
- Orange Rust of Sugarcane (FL)
- Coconut Rhinoceros Beetle (Guam)



### What is a plant health emergency?

- Trigger: Detection of a plant pest of national significance
  - Insect, Nematode, Plant Pathogen, Noxious Weed
- Decision Making:
  - Science
  - Risk assessment → Importance
  - Economic & Environmental Assessments
  - Tools (Survey, Detection, Identification, Mitigation)
  - Situational Awareness

#### **PPQ Decisions Framework** Trigger (Initiating Event) Identify the issue Describe the issue Define PPQ's role/role of others Does review identify new Identify and consult with information stakeholders and affected parties or issues? **Decision Process** Coordination Monitor and review outcomes Analyze the issue Define objectives Prioritize the issue Develop and prioritize options Consult with stakeholders and Implement Decision affected parties Develop an implementation plan Assess options Implement actions Make the Decision Decide on an option Develop a communication strategy **Decisions Principles** Gathering information and consultation may occur at any step



### **Emergency Management Framework**

- 1. Prevention
- 2. Preparedness
- 3. Response
- 4. Recovery

A comprehensive, systematic approach to prevent, prepare, respond, and recover from plant health emergencies in the United States.



### **Emergency Management Framework**

- 1. Prevention
- 2. Preparedness
- 3. Response
- 4. Recovery

Applying the best available information to eliminate or mitigate the risk associated with emergency situations.



### **Emergency Management Framework**

- 1. Prevention
- 2. Preparedness
- 3. Response
- 4. Recovery



Asian Gypsy Moth (Russia)



### **Emergency Management Framework**

- 1. Prevention
- 2. Preparedness
- 3. Response
- 4. Recovery

Planning an effective response to an emergency, identifying the necessary resources, establishing the required infrastructure, and conducting training to ensure effective emergency response.



### **Emergency Management Framework**

- 1. Prevention
- 2. Preparedness
- 3. Response
- 4. Recovery

Activities that occur immediately after a plant health emergency has been declared.



### **Emergency Management Framework**

- 1. Prevention
- 2. Preparedness
- 3. Response
- 4. Recovery

Activities to develop and implement systems designed to provide long-term stability and protection from the pest that caused the emergency.

#### Prevention



### Preparedness



### Response



#### Recovery

- Offshore Preclearance
- Agriculture Quarantine Inspection
- Phytosanitary Management
- Smuggling Interdiction and Trade Compliance (SITC)
- Risk and Pathway Analysis

- Pest Detection
- Identification & Diagnostics
- New Pest Advisory Group
- New Pest Response Guidelines
- Incident Command System Training

- Communication & Outreach
- Rapid Detection
- TWG
- Emergency Funding
- Mobilization
- Unified Command
- Data Management
- Emergency Response Coordination
- Regulatory Framework
- Environmental Compliance
- Situation Report

- Long-term protection plan
- Demobilization
- National Plant Disease Recovery System
- Science based methods and technology
- Outreach

United States Department of Agriculture Animal and Plant Health Inspection Service

#### **Plant Protection and Quarantine**

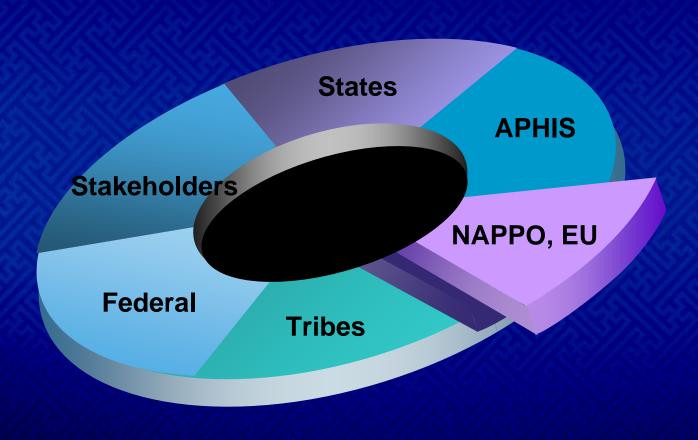
### **Our Mission:**

Safeguard Agriculture and Natural Resources

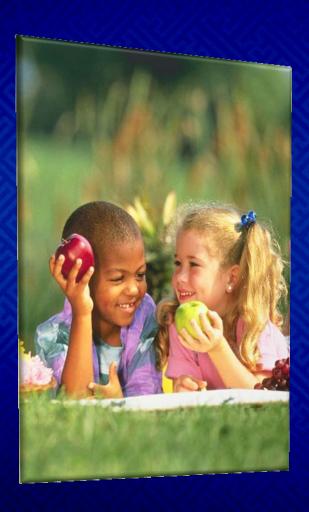
### Goal:

- Ensure Abundant, High-Quality Food Supply
- Maintain Economic Opportunities for America's Farms
- Ensure Safe Interstate Commerce & International Trade
- Protect North American Ecosystems
- Prevent entry, establishment, or spread of plant pests noxious weeds

# Partnerships are critical to protecting agricultural & natural resources







# Protecting American Agriculture & Natural Resources