

Offshore Pest Information Program (OPIP) and Preparedness Planning



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United States Department of Agriculture
Animal and Plant Health Inspection Service
Plant Protection and Quarantine

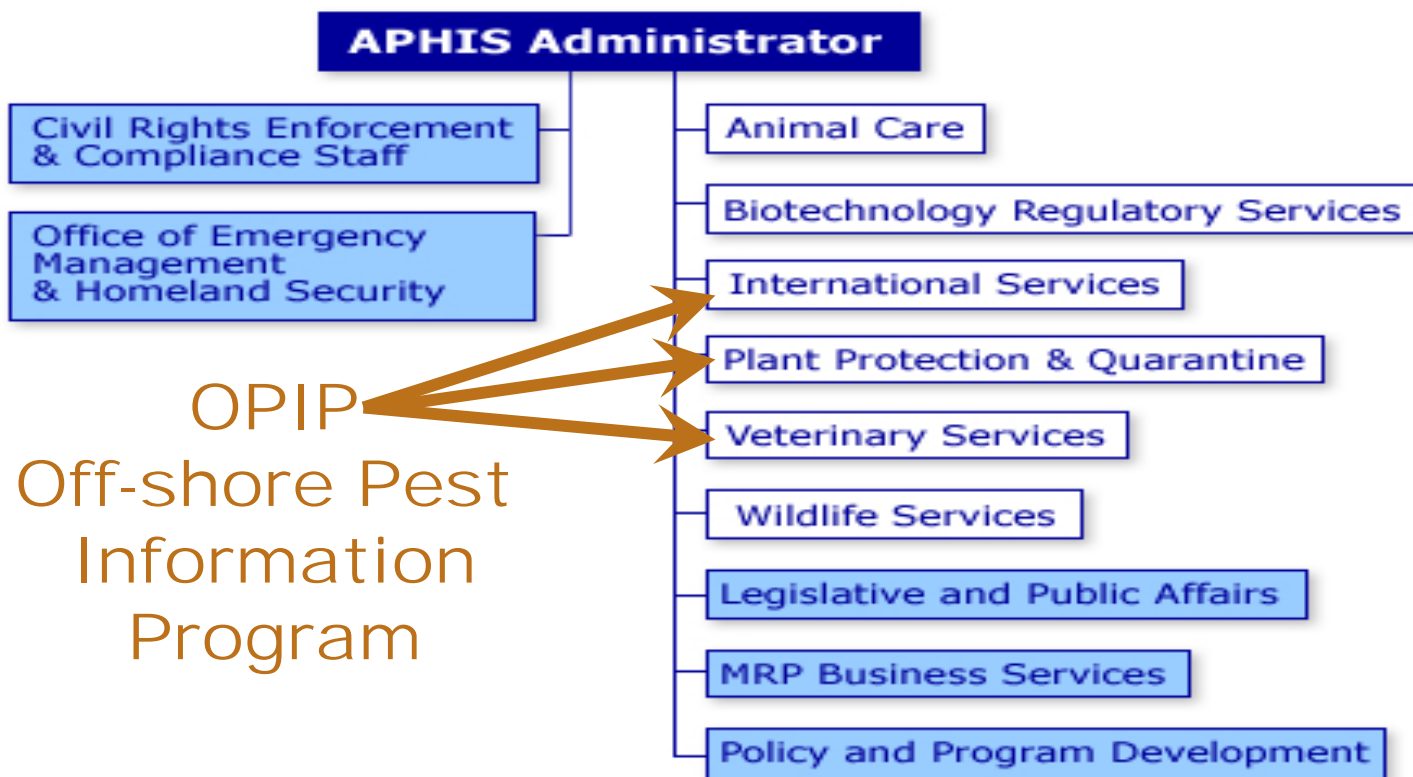


The Crisis of





USDA, Animal and Plant Health Inspection Service (APHIS)



OPIP Genesis and Purpose



- Outcome of stakeholder reviews
 - Animal Health Safeguarding Review (NASDA - 2001)
 - Plant Health Safeguarding Review (NPB - 1999)

- Meets APHIS strategic goals and objectives

Safeguarding Continuum

Foreign site → Port of Entry → Surveillance → Detection → Response

Framework of National Response Plan

- Prevention – **OPIP**
- Preparedness - **OPIP**
- Response
- Recovery





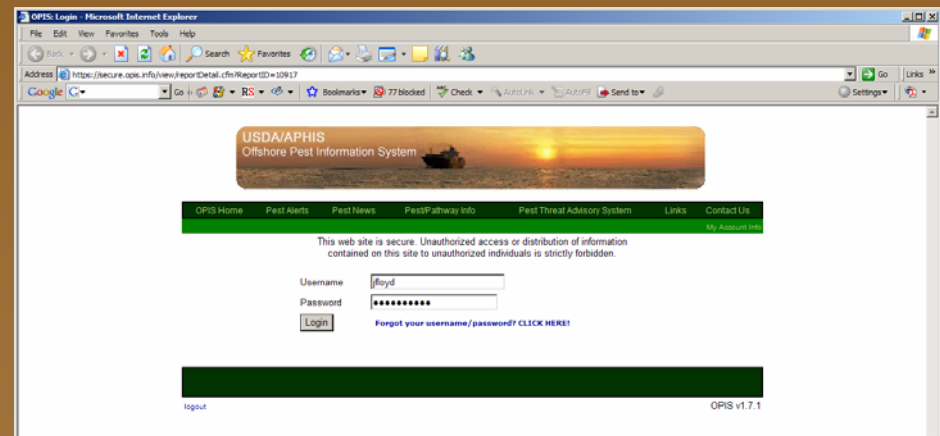
OPIP Mission Statement

To systematically collect, report, assess, and communicate information regarding pests and diseases in other countries to enhance APHIS' preparedness and ability to reduce the risk of introducing exotic species into the United States

Offshore Pest Information System (OPIS)

Systematic, structured, web-based process

- Collect
- Analyze
- Communicate
- Utilize



OPIP Coverage by APHIS International Services Personnel

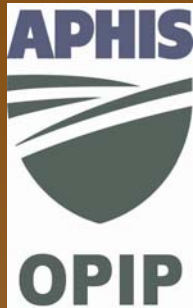


Location: Taiwan
Covers: Asia

Location: Dominican Republic
Covers: Caribbean, Central America

Location: Brazil
Covers: South America

Location: South Africa
Covers: Europe and Africa



Reports and Statistics

- FAO (OIE, IPPC)
- Official NPPO websites
- Scientific literature
- Newsprint
- Other (e.g. ProMed, Carib-Net)





Reports and Statistics: OPIP Users

- **USDA-APHIS (PPQ, VS, IS, OEMHS)**
- **Port of Entry Officials (DHS/CBP/AI, PHIS)**
- **Pest Detection and Monitoring (State, Federal)**
- **Emergency Programs (PPQ, VS)**
- **Domestic (PPQ Officers, VMOs, AVICs)**
- **QPAS, SITC, VRS**
- **APHIS Foreign Service (APHS, FSO, FSN)**
- **Pest Risk Analysts (CPHST, CEAH)**
- **Trade (PIM, SIM, NCIE)**
- **CIAO Import and Permit**
- **Others (State Dept. of Ag., FSIS, ARS, DHS NBIS)**

OPIS Reports and Outcomes



- **Notify officials at U.S. ports of entry**
- **Enact emergency measures, changes to regulations.**
- **Modify domestic survey pest targets**
- **Develop New Pest Response Guidelines**
- **Promote collaboration, coordination – domestic, foreign (pesticide research, survey methodology, identification trng.)**
- **Add to pest risk assessments (input, monitoring)**
- **Verify information**



USDA APHIS Offshore Pest Information System



Weekly Update Summary
Pest and Disease Updates For Week Ending January 12, 2007

*Those with authorized access to the secure OPIS web site
may click on the highlighted Alert/News/Report title for more detailed information*

Current Alerts - There are no alerts at this time

News This Week:

Plant Related News: None

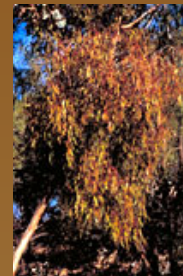


Examples: OPIS Reports and Outcomes

- *Bactrocera invadens* fruit fly



- Eucalyptus pests and diseases



- South African Ragwort
Senecio inaequidens



- Lime swallowtail
Papilio demoleus



- Red palm mite
Raoiella indica



**For more information about OPIP,
contact:**

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Framework from National Response Plan

- Prevention
- Preparedness
- Response
- Recovery



Preparedness Planning

“The range of deliberate, critical tasks and activities necessary to build, sustain, and improve operational capability to protect against, respond to, and recover from domestic plant pest and disease incidents”.

- Prioritization of Pests
- Development of Response Plans
- Addressing Research Needs for Preparedness
- Strengthening Diagnostic Networks and Communications
- Training for Responses



Prioritizing Preparedness for Which Pest Threats ?



Prioritization important for: Which to survey for?
Which to develop response plans for?
Which to mitigate off-shore or by regulation?
Which to develop tools for survey, diagnostics, control?



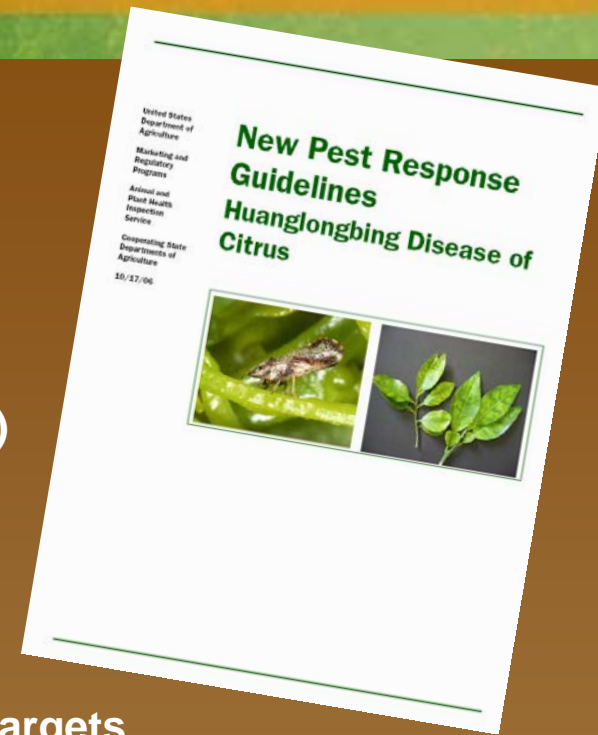
Preparedness Activities

The Development of Response Plans,

i.e., New Pest Response Guidelines

- Agricultural Bioterrorism Select Agents (plant diseases)
- Imminent Threats List – “on the horizon”
- Cooperative Agricultural Pest Survey (CAPS) Program targets
- OPIS – Off-Shore Pest Program (OPIP) System Target List
- Professional Society Lists:

*Entomological Society of America
American Phytopathological Society
Weed Science Society of America
Acarological Society of America
American Malacological Society
Society of Nematologists*



Developing Information for Response Plans, i.e., “*New Pest Response Guidelines*”

- Background Information
- Identification/Diagnostics
- Survey
- Regulatory
- Control
- Pathways Information
- Research Needs
- Bibliography
- List of Expert Consultants



Methods for gathering New Pest Response Guidelines information

- Literature searches
- Consultation with subject matter experts, including domestic or foreign scientists or regulatory officials
- Meetings, symposia
- Working groups
- Visits to foreign sites





Preparedness: Addressing Technical Methods & Research Needs

- Epidemiology
- Detection tools
 - Pheromones, Traps
 - Statistically valid survey sampling methods
 - Predictive modeling
- Identification/Diagnostics Tools
 - Molecular diagnostics – Sensitivity, Validation
 - Taxonomic keys/LUCID keys/ Digital imaging
- Control strategies
 - Eradication, suppression, or management
 - Pesticides, cultural methods, biological controls

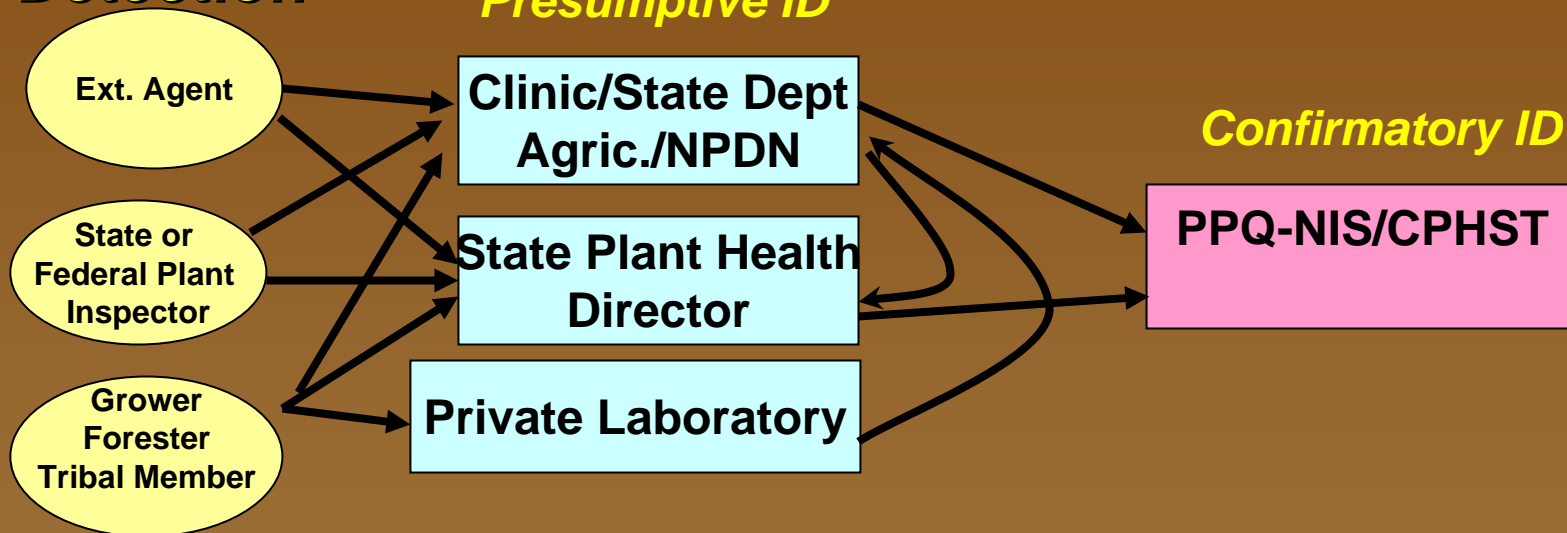


Strengthening Identification/Diagnostic Networks

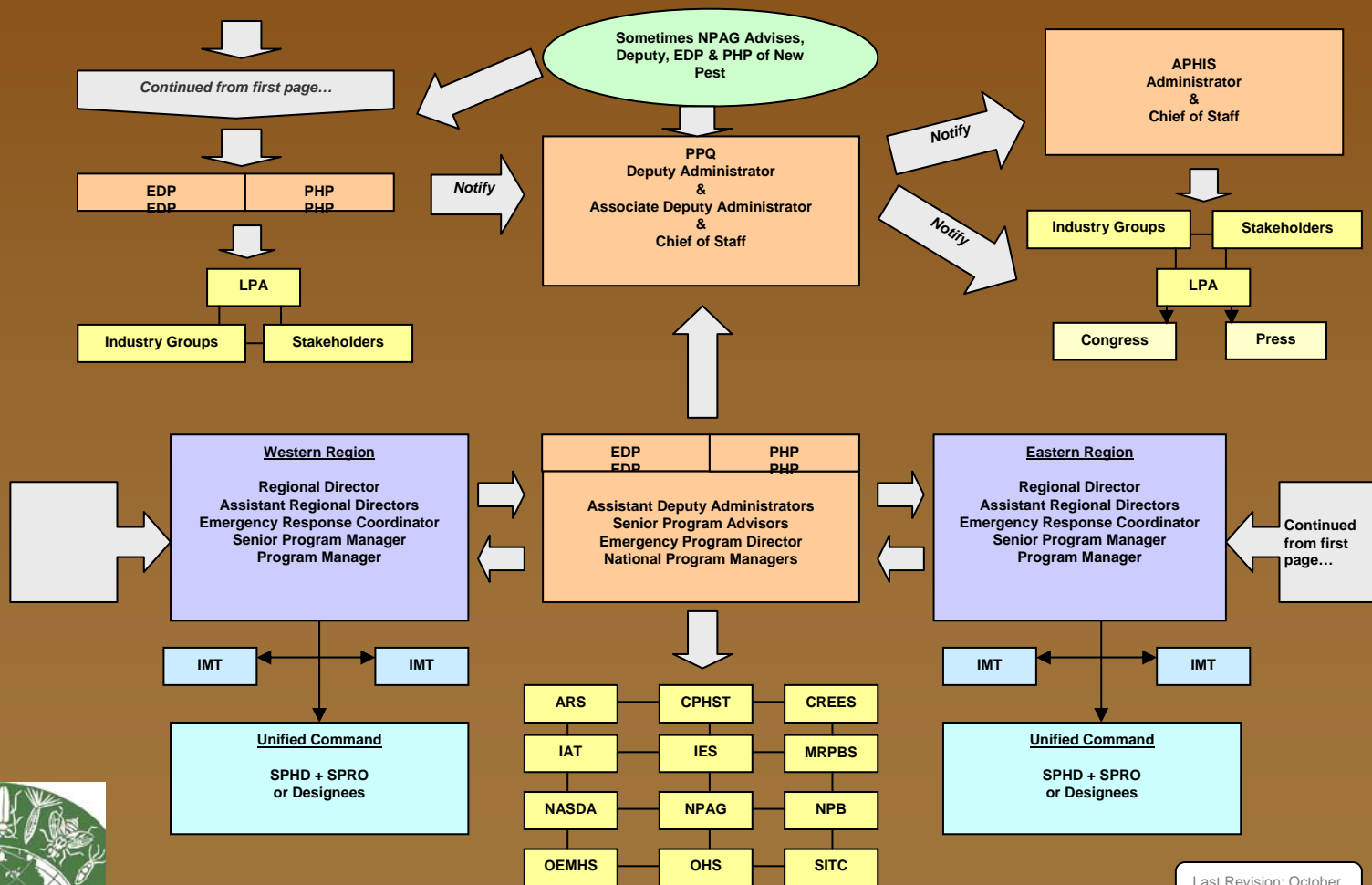
Detection

Presumptive ID

Confirmatory ID



Strengthening Communications of Diagnostic Networks

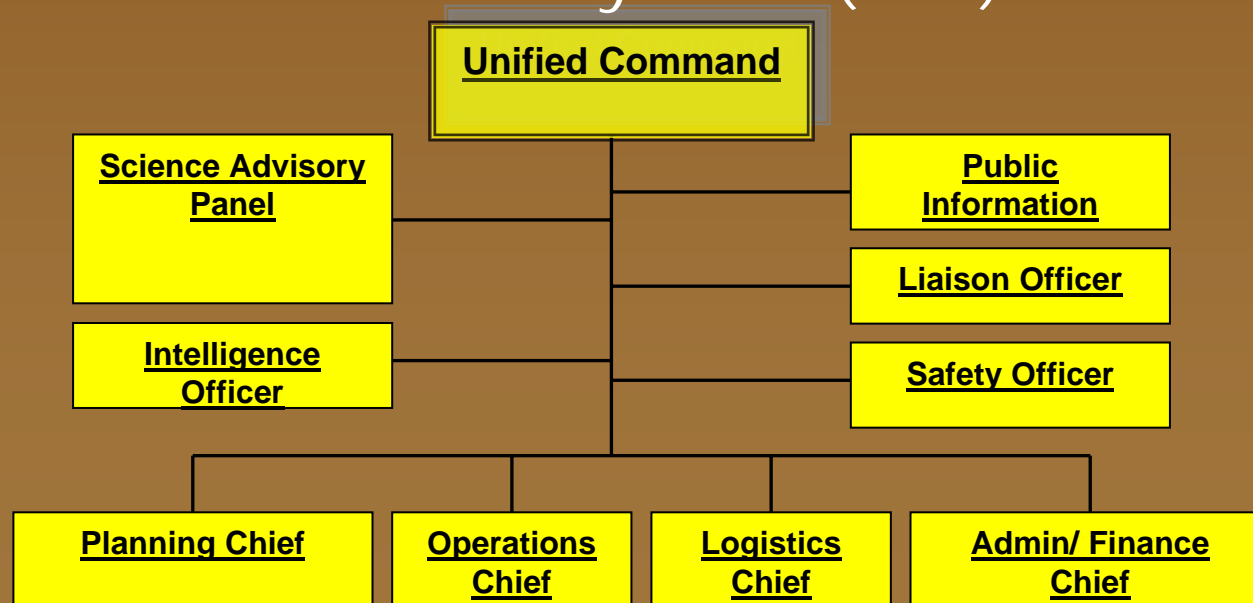


Preparedness: Training for response

- Homeland Security Directives
- National Incident Management System (NIMS)
- National Response Plan
- Emergency Support Function 11 (ESF-11)



Incident Command System (ICS)



Incident Command System Training

- ICS 100, 200, 300, 400, 700
- NPDN sample routing exercises
- Table top exercises
- Full-scale exercises



Preparedness Planning



- **Define Roles and Responsibilities**
 - Federal, State, Universities
- **Legal Authorities**
 - Plant Protection Act and State Laws
 - MOU's with State and Tribes on Cooperation
- **Personnel and Resources**
 - State, Federal, Other assistance



Partnerships for Preparedness:

National Plant Board
Tribes

Cooperative State Research,
Education, and Extension Service
Agriculture Research Service
US Forest Service

State Foresters
Department of Interior Agencies
Non-governmental organizations
Industry groups
Volunteers
Master gardeners



United States Department of Agriculture
Animal and Plant Health Inspection Service

Plant Protection and Quarantine



THANK YOU !

Questions ?



United States Department of Agriculture
Animal and Plant Health Inspection Service