The Mutual Benefits of Collaborative IPM Data Sharing Among International Agricultural Trade Partners

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Why Share Information?

On pests of agricultural, natural resources and animal health?
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## Selected OPIS Target Pests

### Plant Diseases
- Brown Stripe Downy Mildew
- Citrus black spot
- Citrus greening (2)
- Citrus tristeza virus
- Downy mildew of corn (2)
- Geminiviruses
- Mal secco disease of citrus
- Pierce’s disease
- Potato wart
- Rice Bacterial Leaf Streak
- Southern bacterial wilt
- Sudden oak death
- Sweet orange scab
- Tospoviruses

### Animal Diseases
- African horse sickness virus
- African swine fever virus
- Akabane virus
- Classical swine fever virus
- Exotic newcastle disease
- Foot and mouth disease virus
- Hendra virus
- Highly pathogenic avian influenza
- Japanese encephalitis virus
- Malignant catarrhal fever virus
- Menagle virus
- Nipah virus
- Rift Valley fever
- Rinderpest virus
- Swine vesicular disease virus
- Venezuelan Equine Encephalitis
Why Share Information

- USDA/APHIS has over 8,000 species that it considers “of concern” in port interceptions.
- USDA/APHIS Offshore Pest Information System has entered over 1,000 biosecurity reports in less than 2 years.
- Current serious concerns with avian influenza, mad cow disease globally.
Why Share Information: Global Trade
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Why Share Information?

Information IS NOT Power,
The SHARING of Information IS
Why Share Information

• Sharing is the law
• Sharing stops pests at home
• Sharing creates trust and partnerships
• Sharing opens other doorways
• Sharing helps at home
• Sharing doesn’t mean total openness
• Sharing provides early warnings
• Sharing provides new expertise
Sharing Is The Law

- World Trade Organization's Agreement on the Application of Sanitary and Phytosanitary Measures (SPS)

- IPPC mandates that contracting parties provide information regarding pest status to trading partners
Sharing Stops Pests at Home

- No country has enough port inspectors
- Once a pest has moved...
- But pre-clearance activities can prevent, and
- Can open trade via mitigation at origin
Sharing creates trust and partnerships

Working together, globally or regionally

- Provides safety among trade partners
- Reduces development, maintenance costs of sharing systems
- Allows early warnings against shared potential pests
- Provides for regional planning and management of mobile pests
Sharing opens other doorways

• Cooperation on
  – Targeting invasive spp
  – Environmental Protection
  – Health Issues
  – Endangered species/biodiversity
  – Understanding regional pest dynamics
  – Developing and using new technologies
Sharing helps at home

• Same databases can be the basis for internal management systems
  – soybean rust system in US is now the basis for a planned federal IPM monitoring platform
  – DFI/Senegal database will include pesticide registration, historical crop yields, etc
  – GIS needed for crops at home as well as exports
  – CISWG has developed a proposal for a regional pest reporting system
Sharing doesn’t mean total openness

- Economic costs: Need to be sure of problem
- Sometimes diplomacy is needed: help establish management plans
- Sometimes sharing regionally is more appropriate (e.g., CISWG)
- Is pest there? Are treatments in place?
- Some data, because of uncertainty or sensitivities may never be shared
Sharing provides early warnings

Avian Flu
Sharing provides early warnings

Asian Soybean Rust
Mexico to US
Southern US states to north
Sharing provides new expertise

• In a global community, we share because it is the right thing to do (e.g., CISWG)
• The Digital Freedom Initiative (USAID) has provided expertise in Senegal for the Senegalese government to establish their own pest and commodity online databases
• USDA/APHIS is providing training in PRAs and CRAs, for all partners’ benefit
• Other countries have similar programs
Why Share Information?

• Because we can
  – Computer technology
  – Communication technology
  – Standardized software platforms

• Because it can’t be stopped
  – Email
  – Web Services
  – Aggregated News Feeds
  – Blogs
  – Instant Messaging
  – Search Engines