Plant Health Regulatory Perspective: Brown Marmorated Stink Bug

Alan K. Dowdy, PhD
APHIS, PPQ, Emergency & Domestic Programs
Invertebrate & Biological Programs
Riverdale, Maryland
How did it get to the US?

a. Auto parts
b. Fruits and vegetables
c. Manufacturing equipment
d. Office supplies
e. Textiles
f. All of the above
g. None of the above
Brown Marmorated Stink Bug Detections in the United States

(reported but not necessarily established)

Information provided by NAPIS, APHIS State Plant Health Directors, or State Plant Regulatory Officials, current as of February 24, 2011
Who does what?

• Federal roles
  – Agricultural Research Service (ARS)
  – Office of Pest Management Policy
  – National institute of Food and Agriculture (NIFA)
  – APHIS, PPQ

• State roles
  – Research and Extension
  – Regulatory

• Industry
  – Producers
  – Allied
Farm Bill Section 10201 Funding

• Biological Control
  – ARS-Newark, DE
  – Florida DACS Division of Plant Industry
  – Michigan State University
  – Oregon Department of Agriculture

• Monitoring Tools
  – ARS-Kerneysville, WV
  – Virginia Tech
South Pacific Regional Environment Programme: http://www.sprep.org.ws/
How does APHIS deal with new pests?

What is the regulatory decision making process?
PPQ Decisions Framework

Trigger (Initiating Event)

No

• Does review identify new information or issues?

Yes

• Analyze the issue
  • Define objectives
  • Prioritize the issue
  • Develop and prioritize options
  • Consult with stakeholders and affected parties
  • Assess options

Identify the issue
  • Describe the issue
  • Define PPQ’s role/role of others
  • Identify and consult with stakeholders and affected parties

Make the Decision
  • Decide on an option
  • Develop a communication strategy

Implement Decision
  • Develop an implementation plan
  • Implement actions

Decision Process Coordination

Monitor and review outcomes

Decision Principles

Gathering information and consultation may occur at any step
Biocontrol Before Release

Authority: Plant Protection Act of 2000

- Permit to import into containment
- Scientist conducts research on proposed agent
- Scientist submits petition to TAG or NAPPO
- APHIS review of petition and recommendations
- Endangered Species Act
- National Environmental Policy Act (NEPA)
- Tribal Consultations
- Final APHIS review and permit decision
Environmental release

- Biocontrol agent released into the environment
- Follow up monitoring of target pest and agent
What does it mean when PPQ provides funding for research?

What does it NOT mean?
Natural enemies used in PPQ biocontrol projects are not exempt from the regulatory process.
Safeguarding American agriculture and natural resources

Alan K. Dowdy, PhD
USDA, APHIS, PPQ
Alan.K.Dowdy@aphis.usda.gov
http://www.aphis.usda.gov/plant_health