Spotted Lanternfly Cross Functional Working Group

- Erin Otto, National Policy Manager, PM
- Matt Travis, Multi-State Coordinator for SLF, FO
- Greg Parra, Staff Scientist, S&T
Agenda

- Background
- Current population areas
- FY 21 Program Goals
- Program activities in FY 20
Background

• Spotted Lanternfly (SLF), *Lycorma delicatula*, was first detected in Berks County, Pennsylvania in 2014

• Population area has increased through natural and human-assisted spread to ten additional states in the Mid-Atlantic and Northeastern US

• Highly preferred host is Tree of Heaven, *Alianthus altissima*
Background

- Pest adversely affects grapes, hops, fruit trees, ornamental trees
- Potential threat to forest ecosystems
- Affected vineyards report increased labor and pesticide costs associated with SLF control
Yearly Population Growth (2018-2021)
FY 21 SLF Program Goals

• Focus primary control measures based on data that identifies key areas and established populations

• Focus primary control measures on high-risk transportation and commodity pathways to minimize long-distance dispersal

• Rapidly respond to SLF satellite populations as they are discovered
FY 21 SLF Program Goals (cont.)

• Promote the development, harmonization and implementation of best management practices (BMPs) for industries, businesses, and growers

• Promote the harmonization of state SLF regulatory and data collection activities across the SLF program

• Maximize SLF education, management recommendations, and citizen reporting by supporting robust outreach strategy
Program Focus: High-Risk Pathways

• High-Risk Pathways include:
  – High-traffic rail and transit pathways
  – High-volume shipping operations and cooperators
  – High-Risk industries
  – High-value agricultural commodities
Transportation Pathways – Air Cargo

- Japanese Beetle Program support
  - Developed new SLF data fields in Survey 123 app used by JB inspectors
  - Inspecting for both JB and SLF at arrival and departure airports

- SLF Program is working with S&T and U.S. Air Force to develop treatments for departure flights to the Westcoast
Detection and Survey Activities

• Primary Surveillance Tactics for SLF
  – Visual Survey
  – Circle Traps
  – Sentinel Trees
  – Public Reporting

• Employ multiple surveillance tactics

• Support the development of new survey tools
Treatments – Trap Tree

**Direct bark or foliar application** of herbicide or systemic insecticide to *Ailanthus altissima*

**Prioritized Properties:**
- Airports
- Marine Port Environs
- Commercial/Industrial Sites
- Transportation Corridors
- Rail Properties

Treatments – Broadcast Spray

- Applying contact insecticides (bifenthrin)
- Manual pump backpack sprayers or spray rigs using hydraulic guns
- Focused on rail properties and high priority areas
SLF Research Activities
Areas of Strategic Research for SLF
Survey and Trapping
Treatments
Biology and Rearing
Pathway and Predictive Modeling
Biological Control
SLF – FUTURE

• Canine Project – Use of canine for detection – multi-state region approach

• Alternatives to current pesticides / pesticides for maritime and air cargo

• Further development for EA and mist-applications

• New revisions to PPQ SLF website and outreach material

• Research to inform management recommendations for green industries
Questions?