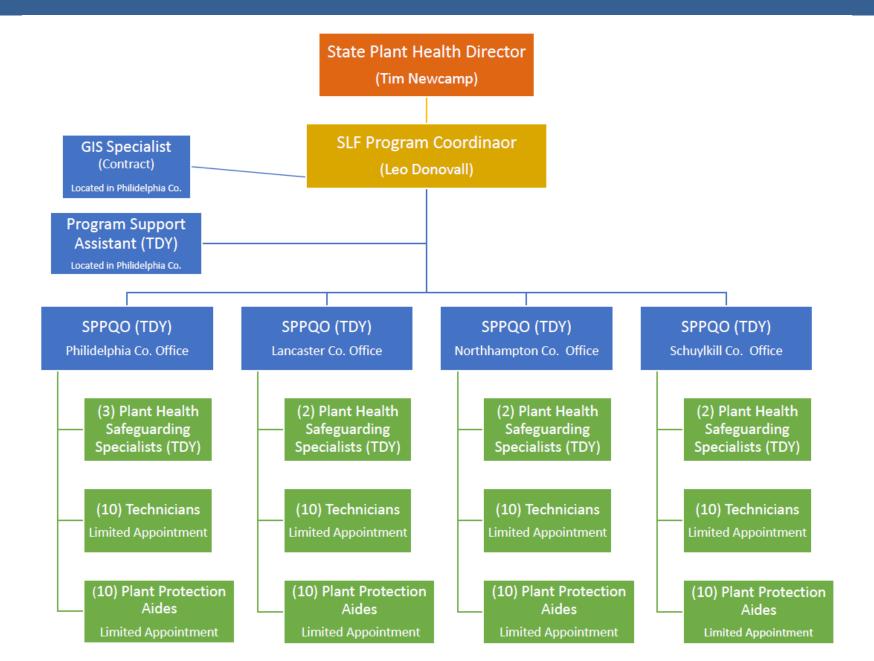


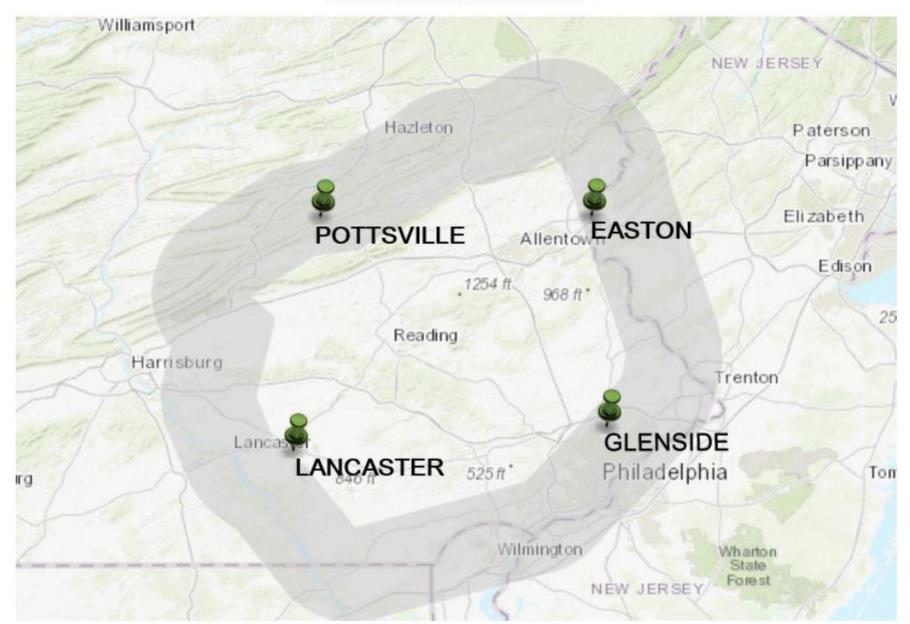
The USDA-PDA-PSU Cooperative Response to Spotted Lanternfly (*Lycorma delicatula* (White)) in Pennsylvania

Operational Plan

- PDA will focus on continuing suppression efforts in the core along high risk pathways as well as monitoring outside of the quarantine area
- USDA APHIS PPQ is concentrating efforts on 18-mile (30-km) band at the perimeter of the infested area
 - Staffing 96 program support personnel: 1 Program
 Director, 1 PSA, 1 GIS Specialist, 4 SPPQO, 9 PHSS, 80 PP
 Technicians and Aides
 - 2018 goal is treatment at all positive sites within the perimeter band



SPOTTED LANTERNFLY OFFICE LOCATIONS



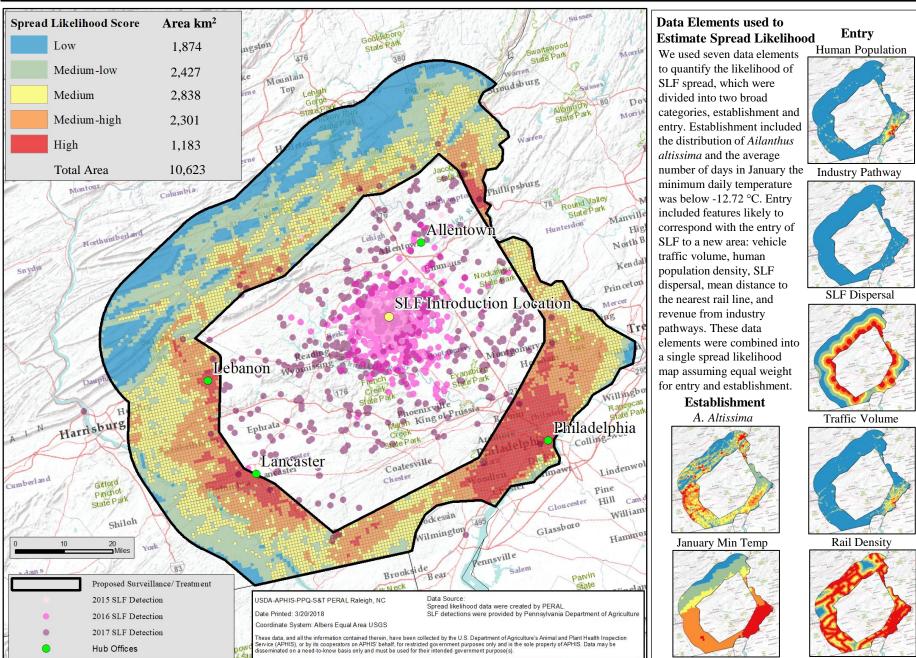
2018 Spotted Lanternfly **PPQ Tactics Timeline**

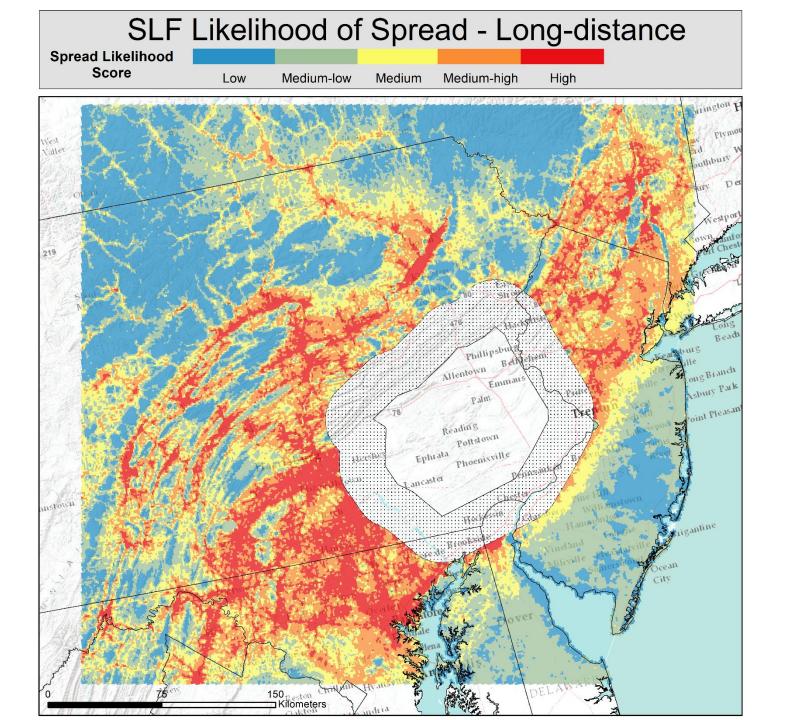
Date	Action	Carried out by
Year-round	Property assessment, mark trees for herbicide or insecticide treatment	PPQ Staff
April – October (Begin at leaf out, end at leaf fall)	Herbicide application in positive locations. Ailanthus trees may produce root suckers and/or herbicide may not be taken up in spring due to high phloem pressure, requiring additional applications throughout the year.	Applicator (w/ PPQ staff for QA/QC)
May – Aug	Establish trap trees (systemic insecticide application) in positive locations	Applicator (w/ PPQ staff for QA/QC)
May – Nov (replace bands and refresh lure every two weeks)	Population monitoring – tree bands and methyl salicylate lures in treated areas – band trap trees only.	PPQ Staff
June – Nov	Detection Survey — visual inspection for 4th instar and adults (egg masses as a low priority)	PPQ Staff
June – Nov	Delimitation survey – visual inspection for 4th instar and adults (egg masses as a low priority)	PPQ Staff
June – Nov (replace bands and refresh lure every two weeks)	Delimitation survey – Tree bands and methyl salicylate lures. Use in combination with visual inspection unless otherwise directed.	PPQ Staff



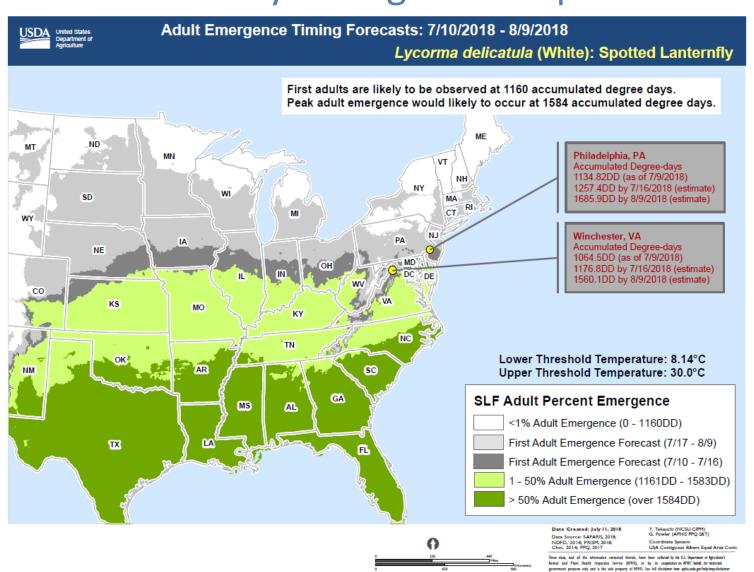
Lycorma delicatula (Spotted Lanternfly) Spread Likelihood in Southeastern, PA



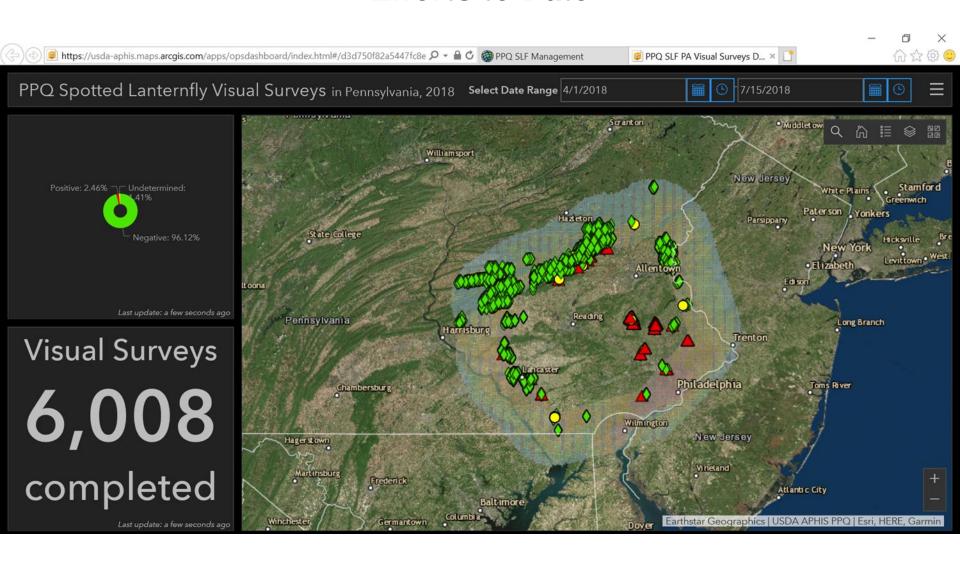




Weekly Emergence Maps



Efforts to Date



Funding

- CCC Funds:
 - \$17.5 million in existing funds to stop the spread of SLF in Pennsylvania
 - Allows for a three-pronged approach
 - APHIS will manage the outer perimeter of the infestation
 - PDA will focus on the core infested area and detection outside of the quarantine zone
 - PSU will coordinate research and outreach
- Omnibus Spending Bill:
 - \$5 million supporting research, outreach and response efforts throughout the affected region
- Farm Bill
 - \$1 million in Rapid Response funding for VA, NJ, NY, DE, MD and WV to conduct surveillance and respond to detections
- PA State Budget:
 - \$3 million to support PDA's efforts in the core and outside of the Quarantine Zone

Research Needs

New Trap and Lure Designs:

- Improved for use in detection
- Reduce non-target bycatch (e.g., vertebrates and pollinators)





Research Needs

Treatment Options:

- Non-neonicotinoid alternative for treatments
- Treatment options for organic farmers
- Homeowner recommendations

Impact Studies:

- Economic impact of SLF
- Impact on alternative hosts



Research Needs

Can SLF complete its lifecycle without *Ailanthus?*

THANK YOU



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