

New Hampshire
*Department of Agriculture,
Markets, and Food*

Shawn N. Jasper, Commissioner



September 8, 2026

Her Excellency, Governor Kelly A. Ayotte
and the Honorable Council
State House
Concord, New Hampshire 03301

REQUESTED ACTION

Authorize the Department of Agriculture, Markets and Food, Division of Plant Industry (DAMF) to accept and expend additional Federal Funds from the United States Department of Agriculture (USDA) in the amount of \$24,620 and further authorize the allocation of these funds in the accounts below for the New Hampshire Spotted Lanternfly Emergency Response, effective upon Governor and Council approval through August 31, 2027. 100% Federal Funds.

Funds are to be budgeted in the following accounts:

02-18-18-184010-60440000 Forest Pest Outreach

Class	Class Desc	FY 27 Current Modified Budget	Requested Action	FY 27 Revised Budget
Revenue				
000-406484-16	Federal Funds	\$31,237	\$24,620	\$55,857
020-500200	Current Expenses	\$2,291	\$0	\$2,291
040-500800	Indirect Costs	\$2,840	\$4,450	\$7,290
041-500801	Audit Fund Set Aside	\$25	\$0	\$25
042-500620	Additional Fringe Benefits	\$270	\$2,130	\$2,400
050-500109	Personal Service Temp Appoint	\$15,129	\$14,871	\$30,000
060-500601	Benefits	\$265	\$1,885	\$2,150
069-500568	Promotional Marketing Exp	\$1,000	\$1,284	\$2,284
070-500705	Instate Travel Reimbursement	\$1,414	\$0	\$1,414
072-502627	Grants Federal	\$1	\$0	\$1
102-500733	Contracts For Program Servi	\$8,002	\$0	\$8,002
	Total Expense	\$31,237	\$24,620	\$55,857

EXPLANATION

The Department requests authorization to accept and expend federal funds to address the newly detected spotted lanternfly (SLF) population in Salem, Rockingham County. This detection is the first in New Hampshire not linked to human-assisted movement and may indicate an establishing infestation near major transportation corridors, increasing the risk of spread to other northern New England states and Canada. SLF poses significant economic and nuisance risks to New Hampshire's agriculture, nurseries, vineyards, and forest resources. Although SLF is generally not a tree-killing pest, it feeds on many forest and landscape trees, making it a forest pest that warrants immediate response.

The approved federal grant supports essential activities including delimitation surveys, cultural control, statewide risk-based surveys, public reporting improvements, stakeholder coordination, and substantial public outreach. These activities exceed the capacity of the current Forest Pest Outreach budget, which is the appropriate accounting unit because the response relies heavily on public education and involves a forest-associated invasive insect.

Funds are to be budgeted as follows:

Class 040 – Indirect Cost - to recover central services cost

Class 042 – Additional Fringe Benefits – to cover post-retirement expenses

Class 050 – Personal Service Temp Appoint – to cover the cost allocation of existing employees work in the program

Class 060 – Benefits – to cover the benefits of existing employees work in the program

Class 069 – Promotional Marketing Exp – to create reference materials pertaining to the Spotted Lanternfly

In the event that federal funds become no longer available, general funds will not be requested to support this program.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Shawn N. Jasper". The signature is fluid and cursive, with the first name "Shawn" and last name "Jasper" clearly distinguishable.

Shawn N. Jasper
Commissioner

FISCAL SITUATION –
02-18-18-183500-60440000 – Forest Pest Outreach

Balance Forward – July 1, 2026	\$3,281
Estimated Revenue - FY 2027	\$52,576
Total Funds Available – FY 2027	\$55,857
Current Budget - FY 2027	\$31,237
Additional Appropriation Request	\$24,620
Amount Available if Appropriation Request is Approved	<u>\$55,857</u>

Electronic Signature **(ESIG-72029)**

FAIN: AP26PPQFO000C556	Project Title: NH FY26 Spotted Lanternfly Program	Application ID: APP-138293	Funding Opportunity Title: NH FY26 Spotted Lanternfly Program
Funding Opportunity Number: ——	Programmatic Contact: Christopher Rallis	Administrative Contact: Piera Siegert	Period of Performance Start Date: 9/1/26
Period of Performance End Date: 8/31/27	CFDA Number: 10.031	Case Status Recipient Approved	

Your Agreement AP26PPQFO000C556 is now executed. It may take up to 5 business days before you are able to view the fully signed document in the "My Agreements" section.

Work Plan – Fiscal Year 2026

Cooperator:	NH Dept. Agriculture, Markets and Food	
State:	New Hampshire	
Project:	New Hampshire Spotted Lanternfly Emergency Response	
Project funding source:	Spotted Lanternfly Program	
Total Agreement Amount:	\$55,857.39	
Start Date:	2026-09-1	
End Date:	2027-08-31	
Project Coordinator:	Chris Rallis	
Contact Information:	Address:	State Labs Building 29 Hazen Drive Concord, NH 03301
	Phone:	603-271-3691
	Email Address:	christopher.p.rallis@agr.nh.gov

This Work Plan reflects a cooperative relationship between the Department of Agriculture, Markets, and Food (the Cooperator) and the United States Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ). It outlines the mission-related goals, objectives, and anticipated accomplishments as well as the approach for conducting a Forest Pest Survey and the related roles and responsibilities of the parties [e.g., APHIS role(s) and Cooperator role(s)] as negotiated.

I) OBJECTIVES AND NEED FOR ASSISTANCE

What relevant need or problem within the cooperator's mission area requires a solution in carrying out a public purpose of support or stimulation authorized by a law of the United States? How does the need or problem align with the mission area and strategic goals of APHIS?

This proposal seeks funding to support emergency response to spotted lanternfly in New Hampshire.

On 8/21/2026, New Hampshire Department of Agriculture, Markets, and Food confirmed the presence of *Lycorma delicatula*, spotted lanternfly (SLF), in Salem, which borders Massachusetts and is in Rockingham County. Several newly emerged adult SLF were identified in a neighborhood with both residential and industrial areas. This is the first confirmed detection in New Hampshire that is not directly linked to human-assisted movement. It could signal an established or establishing population in New Hampshire. All previous detections in the state have been directly related to movement of trade goods or conveyances. This is a population-dense area near the I-93 and I-95 corridors, both of which serve as major conduits to states not yet known to be infested, such as Maine and Vermont. In addition, I-93 provides a direct route to Canada, which is not known to be infested with SLF and has regulatory restrictions in place, underscoring the importance of preventing further spread.

This area is also rich in agriculture, with a market value of crops—including nursery and greenhouse—of \$15,308,000 (2022 Census of Agriculture, USDA NASS) and 214 licensed plant dealers within Rockingham County. Hillsborough County, which is directly adjacent to Salem, is equally rich in agriculture, with \$20,137,000 in market value of crops—including nursery and greenhouse—(2022 Census of Agriculture,

USDA NASS) and 210 licensed plant dealers.

SLF poses a serious risk to grape, orchard, and hops production in New Hampshire. New Hampshire's agricultural economy relies heavily on direct-to-consumer sales through CSAs, farm stands, and pick-your-own operations. Agrotourism and repeat farm visits are essential for competitiveness. The state has significant acreage in apples and berries, and grape production value doubled between 2019 and 2023 (NASS, 2024). As a public nuisance pest, SLF threatens both production agriculture and agritourism. It is a deterrent to visitor appreciation of scenic rural landscapes and agricultural event centers.

SLF establishment will also impact local forest woodlot owners and enjoyment of forest-based tourism and recreation. New Hampshire is a densely forested state with significant hardwood and conifer forest resources—much of it privately owned. Forests cover approximately 84% of the state's lands and define the culture of the state, are critical components of environmental resources, and contribute significantly to the state's economy—from forest-based recreation, to manufacturing, to sales of fir Christmas trees and maple syrup. The forest industry in New Hampshire has an approximate value of \$3 billion per year.

While previous survey efforts had found no established populations in New Hampshire, infestations exist in neighboring Massachusetts, Connecticut, Rhode Island, and New York, and egg masses have repeatedly arrived on nursery stock since 2020. The New Hampshire Department of Agriculture, Markets, and Food, and partner agencies and organizations have been surveying for SLF and conducting outreach about this pest since its initial detection in Pennsylvania in 2014. While these past efforts identified pathways for SLF spread into the state, field surveys have consistently found no evidence of established populations. This potentially established population of SLF in Salem represents a change to the status quo of the SLF response in New Hampshire. Accordingly, shifting to increased survey and response requires funding support.

New Hampshire is a small state that relies on cooperation between agencies and partners to accomplish goals. There are strong relationships between the Department of Agriculture, Markets, and Food, UNH Cooperative Extension, Department of Natural and Cultural Resources, USDA APHIS PPQ, USDA Forest Service, and other conservation groups. The framework for a response is strong; however, funding from existing state resources would be strained without additional support. Without funding, New Hampshire would have limited capacity to delimit the newly detected population or conduct the risk-based surveys essential for reducing establishment. With funding, the state can effectively respond to this initial detection, reduce the likelihood of spread to uninfested states and Canada, maintain compliance integrity for nurseries and growers, and mitigate potential impacts to the state's agriculture.

This proposal seeks funding to:

- Conduct delimitation surveys and treatment at locations where SLF has been confirmed.
- Conduct risk surveys for high-risk areas and industries in New Hampshire not yet known to have established SLF populations.
- Conduct outreach to potentially impacted industries and communities.
- Explore options for enhancing New Hampshire's existing statewide reporting tool to improve report triage and staff response workflows, recognizing that the final form and scope of enhancements will depend on technical feasibility and available UNH Extension resources.
- Identify and work with industries to assist with compliance agreements.

This project directly supports APHIS PPQ's National Spotted Lanternfly priorities by providing early detection, rapid response, containment, and improved reporting and compliance oversight.

II) RESULTS OR BENEFITS EXPECTED

The Cooperator seeks to conduct a program which is expected to result in:

- Delimiting identified populations of SLF and reducing population pressure at the initial detection site to reduce further spread.
- Conducting adult and egg mass surveys in areas with known SLF and high-risk areas without known

SLF.

- Removing SLF life stages through cultural controls, including egg mass scraping, use of lampshade and circle traps, and vacuum removal, consistent with USDA APHIS guidance.
- Using established tools to identify tree-of-heaven for survey and potential use as circle trap trees.
- Developing a statewide, risk-based tree-of-heaven distribution model to strengthen detection and future survey planning.
- Conducting vineyard surveys and implementing appropriate traps to support early detection in high-risk commodities.
- Working with UNH Extension to provide recommendations to homeowners, vineyards, and nurseries.
- Distributing existing outreach materials and identifying additional outreach needs.
- Working with affected industries to support compliance.
- Potential improvements in public reporting efficiency and accuracy through exploratory enhancements to the statewide reporting tool, contingent on feasibility and final design.

III) APPROACH

What is the plan of action or approach to the work?

Background

The NHDAMF and its partners have already developed several tools that will be important factors in the initial response to SLF. These include:

- **NHGRANIT/MOSAIC**, New Hampshire's statewide GIS clearinghouse provides access to a comprehensive geographic database including parcel ownership information. NH's SSC uses this system regularly to identify property owners and contact information for state survey efforts.
- **NHBugs.org**, a multi-agency website run by UNH Cooperative Extension and supported annually by PPA 7721 funding. Developed in 2012 and launched in 2013 during the detection of emerald ash borer, the site focuses on forest pests but also includes SLF. The five cooperating partners—NHDAMF, NH Dept. of Natural and Cultural Resources, USDA APHIS PPQ, USDA Forest Service, and UNH Cooperative Extension—have directed the public to NHBugs for more than a decade. The site serves as a known, centralized location for invasive pest information in New Hampshire and includes an online reporting tool and social media presence. NHDAMF uses NHBugs as its primary avenue for SLF education.
- **Invasive Species Rules (Agr 3800)**, in place since 2004, which prohibit transport, import, export, purchase, sale, distribution, and release of SLF and tree-of-heaven, with exemptions for disposal. These rules:
 1. provide regulatory tools to respond to SLF independent of a formal quarantine, and
 2. prohibit planting or shipping tree-of-heaven into New Hampshire.
- A **full-time Upland Invasive Species Coordinator**, whose responsibilities include producing publicly available maps of invasive species in New Hampshire using EDDMaps. Tree-of-heaven has been reported on EDDMaps since 2018, with 473 positive New Hampshire reports primarily along the I-93 and I-95 corridors. The Coordinator regularly works with DOT on invasive species management along roadways and has coordinated invasive plant management in rail corridors.
- The **Invasive Species Herbicide Cost Share Reimbursement Program** was established to help New Hampshire municipalities offset the cost of purchasing herbicides. It provides reimbursement for a portion of the purchase price of herbicides used specifically to manage prohibited upland invasive plants and restricted invasive plants listed by the Department of Agriculture, Markets, and Food (DAMF). Tree-of-heaven is one such prohibited upland invasive plant.

This reimbursement program is funded through the **Upland Invasive Species Remediation Fund**, a one-time, non-lapsing allocation from the New Hampshire Legislature to support invasive plant management efforts. As the fund is depleted, additional appropriations will need to be requested from the

Legislature to continue the program.

- A **collaboration with the USDA Forest Service** to develop ArcGIS maps overlaying population density, road density, railroads, vineyards, and known tree-of-heaven occurrences to facilitate risk-based survey efforts across the state.
- **Multiple outreach materials** aimed at nurseries and the general public designed to remain relevant even after SLF detection within the state. Materials include weather-resistant posters, nursery best-management-practice documents, tree-of-heaven identification and management guides, coasters, scraper cards, table runners, and displays for public meetings and expos. Sufficient materials exist for immediate deployment.
- A **modernized cloud-based database** used for identifying and mapping plant dealers, issuing and monitoring compliance agreements, and supporting survey and trap management.

Initial Response in Areas with Confirmed Spotted SLF:

In Salem—and any future locations with confirmed SLF—the Division will work with USDA APHIS to delimit, conduct cultural controls, and provide outreach to the community and affected industries. Specifically, activities will include:

- Identifying and contacting landowners for survey access.
- Conducting delimitation surveys using FieldMaps to collect data following SLF program guidelines.
- Deploying backpack vacuums and conducting egg mass scraping to reduce populations.
- Deploying lampshade traps in high-density areas.
- Conducting winter surveys and removing egg masses.
- Identifying potential tree-of-heaven circle trap trees.
- Coordinating with local nurseries regarding SLF risks and compliance for those shipping intrastate.
- Working with UNH Cooperative Extension personnel on outreach to vineyards and agricultural producers in affected areas.
- Working with UNH Cooperative Extension on public outreach in affected areas.

Scientific Name	Common Name	Survey Method	Trap	Lure
<i>Lycorma delicatula</i>	Spotted lanternfly (SLF)	Visual	NA	NA

Identification and Surveillance of High-Risk Areas Without Confirmed SLF:

To complement actions at the detection site, the Division will conduct proactive surveillance in areas with elevated SLF risk. This includes vineyard surveys and statewide tree-of-heaven risk modeling.

Tree of Heaven Risk Model Development and Survey

Background:

In 2023, the Division collaborated with USDA Forest Service, Forest Health Protection staff to develop GIS maps identifying high-risk areas for tree-of-heaven establishment. These maps include population density and road density categories (low to high) (Fig. 1), reflecting the understanding that areas with both high population density and high road density are most likely to host tree-of-heaven due to disturbance, making them high risk for SLF establishment with nuisance pest impacts to the greatest number of the state's residents. The risk-based tree-of-heaven model will support more efficient future SLF survey planning by identifying the areas most likely to harbor host plants and potential nuisance impacts.

Additional overlays include railroads, vineyards, and known tree-of-heaven records. These maps have already been used for vineyard outreach and for identifying survey sites in the 2026 PPA 7721-funded Orchard Commodity Survey. However, one key use of the maps was not fully implemented: developing a risk model for statewide tree-of-heaven prevalence.

The population-density-by-road-density framework divides towns into nine possible categories. Approximately 30 towns (just over 10% of the state) fall into the highest-risk category: high population density and high road density.

Tree of Heaven Survey:

Survey for tree-of-heaven—and concurrent SLF life stage survey—will occur in high-risk towns lacking prior tree-of-heaven survey.

Tree of Heaven Risk Probability Model:

For each population-density × road-density category (except where logically no towns exist, such as low/medium population density with high road density), twelve roads will be randomly selected in each of five towns randomly selected per category. If a category contains fewer than five towns, all towns will be included.

Each road will be surveyed for five miles by trained 2-person crews. For each detected tree-of-heaven, staff will record the road class, number and size of plants, and GPS coordinates. Each tree-of-heaven will be surveyed for SLF life stages. Results will be extrapolated to estimate statewide likelihood of tree-of-heaven presence and inform future SLF survey efforts.

Vineyard Survey: (Five Vineyards)

Five vineyards will be surveyed based on proximity to high-risk transportation corridors, known concentrations of tree-of-heaven, and vulnerability of grape production to SLF. Vineyard selections will be cross-checked against the tree-of-heaven risk model outputs to ensure coverage of the highest-risk production sites.

Activities include:

- Surveying and recording tree-of-heaven adjacent to vineyards.
- Conducting early-season egg mass surveys on vineyard posts, adjacent trees, building exteriors, parking areas, and decorative structures; removing and documenting egg masses.
- Deploying circle traps within vineyards and adjacent parking areas; monitoring traps.
- Deploying lampshade traps where spotted lanternfly is detected.
- Working with UNH Extension to provide guidance to any vineyard where SLF is detected.

Reporting

NHDAMF will respond to public SLF reports through NHBugs, the SLF reporting tool, and any credible reports from uninfested areas.

Enhancing the Existing Reporting Tool

NHBugs currently receives public reports that are triaged by an Extension Forester. Although the system is well-established and effective, periods of high reporting volume—particularly for pests with common look-alikes, or those which have received media attention—can strain capacity and slow response times. As spotted lanternfly activity increases, additional tools or functionality may be needed to support efficient triage and routing of reports.

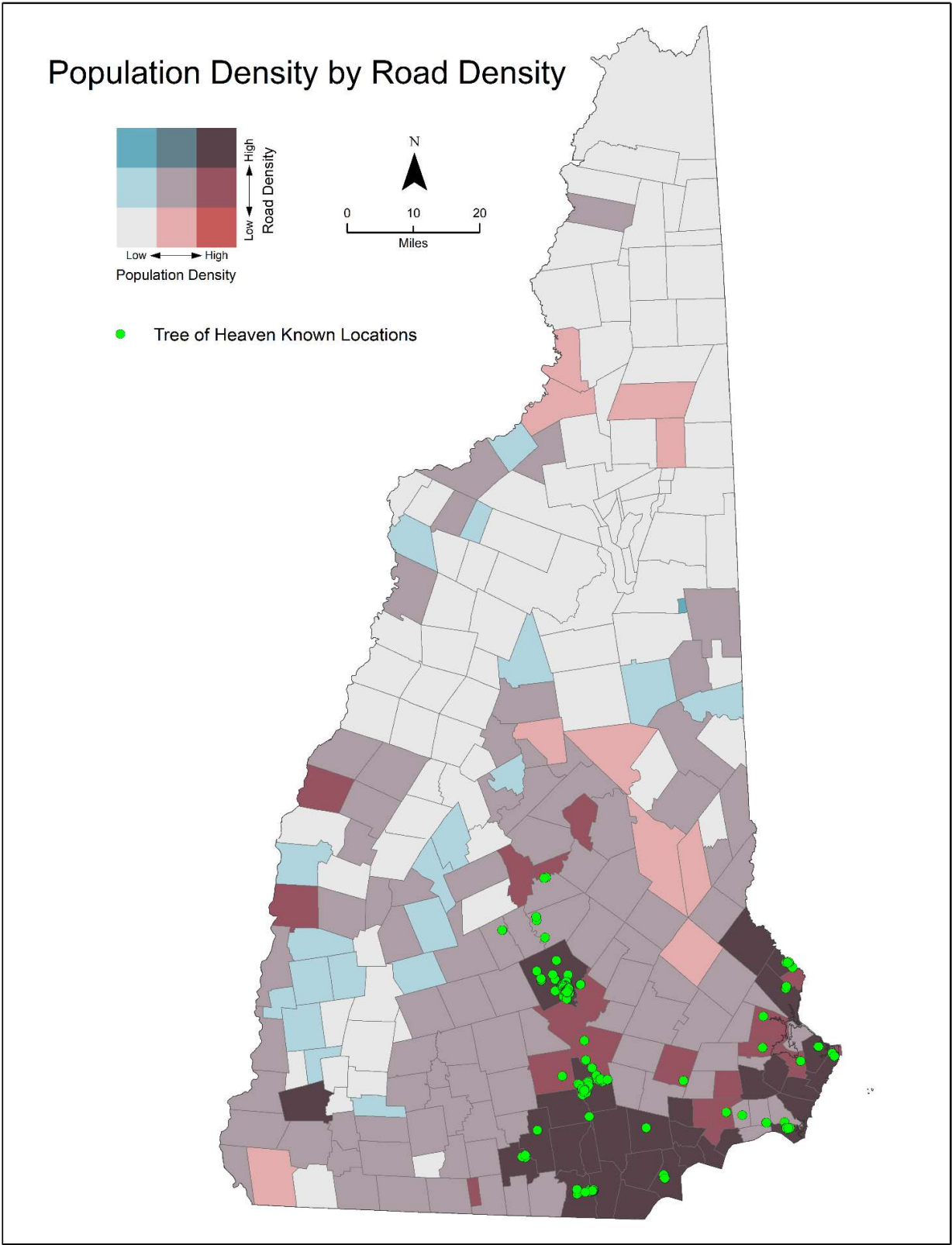
The Cooperator proposes **exploring enhancements** to NHBugs, focusing on options that could streamline the response process without requiring major platform redevelopment. UNH Cooperative Extension will evaluate available technologies, existing institutional tools, and feasibility of integrating new features within the existing NHBugs framework.

Depending on what is technically feasible, these exploratory enhancements **may include:**

- The ability to categorize reports based on GPS coordinates or reporter-submitted location information.
- Automated messages directing reporters in known SLF areas to established educational resources.
- Workflow improvements that facilitate more efficient routing of reports from uninfested areas to NHDAMF.
- Tools that help NHDAMF provide timely follow-up messages to reporters.

Final functionality will be determined after technical exploration and collaboration with UNH Cooperative Extension. The cost included in this proposal represents a **placeholder estimate** for feasible enhancements. Actual development needs may be higher or lower depending on the results of Extension’s evaluation of available technologies and the scope of enhancements that can be supported within existing systems.

Figure 1: Population density × road-density map of New Hampshire.



A. The Cooperator Will:

1. By function, what work is to be accomplished?

NHDAMF staff, contractors, and cooperators will conduct surveys, compliance visits, outreach, and cultural controls for SLF and its preferred host, tree-of-heaven. Work will be conducted in accordance with USDA APHIS program guidance and state invasive species regulations.

Visual survey activities will include inspection of tree-of-heaven, grapes, maples, and other SLF host species. Surveyors will also inspect structures and conveyances in areas with high likelihood of SLF presence, including locations where egg masses and adults commonly occur. Survey teams will attempt to inspect all accessible tree surfaces and remove egg masses and adult SLF life stages when possible, using approved cultural control techniques.

NHDAMF will conduct compliance visits to affected or at-risk businesses, educate stakeholders, respond to public reports, and document all response activities. Public-facing activities will include coordination with UNH Cooperative Extension, distribution of outreach materials, and guidance to industries engaged in interstate or intrastate plant movement.

When required, samples will be maintained under regulatory custody, identified by the State Survey Coordinator, and forwarded to USDA APHIS PPQ for confirmation of new county detections or other regulatory determinations.

2. What is the quantitative projection of accomplishments to be achieved?

- a. By activity or function, what are the anticipated accomplishments by month, quarter, or other specified intervals?*

Activities will occur throughout the project period based on the seasonal biology of SLF, accessibility of survey sites, and operational needs for compliance and outreach. Work will be organized into three primary seasonal phases: Fall Delimitation, Winter Survey and Analysis, and Spring–Summer Response and Outreach.

Fall Delimitation Phase (September – October)

During the fall, NHDAMF will focus on delimiting the identified SLF population in Salem and preparing for statewide survey expansion. Staff will conduct visual delimitation surveys of the Salem site, deploy lampshade traps in high-risk areas, remove premature adults using backpack vacuums or sweep nets, and scrape any identified egg masses. NHDAMF will respond to public reports submitted through NHBugs and other channels.

Coordination with UNH Extension will occur to identify participating vineyards and prepare for outreach to agricultural producers and communities. Staff will identify plant dealers in affected areas, determine their shipping activities, and implement or oversee compliance agreements as appropriate.

NHDAMF will collaborate with UNH Extension to define technical parameters for an enhanced reporting tool that will streamline triage and response. The Division will also coordinate with the New Hampshire Department of Transportation (DOT) and municipalities to secure access for roadside tree-of-heaven surveys. Seasonal updates summarizing current SLF status and fall activity will be released through NHBugs and associated social media channels.

Winter Survey and Analysis Phase (November – March)

During the winter months, NHDAMF will conduct tree-of-heaven surveys in high-risk areas and complete field surveys necessary for development of a statewide tree-of-heaven risk-probability model. Staff will use model results to identify high-priority areas for future SLF survey work. Egg mass surveys will be conducted in Salem, any newly detected locations, high-risk nurseries, and vineyards.

The Division will attend professional training events and partner meetings to support best-practice exchange. Collaboration with UNH Extension on evaluating and developing feasible enhancements to the reporting tool will continue.

NHDAMF will identify and contact vineyards selected for spring surveys and monitor compliance agreements throughout the winter.

NHDAMF and UNH Extension will jointly coordinate winter grower meetings to provide SLF information to affected communities and agricultural producers. Winter seasonal updates will be released through NHBugs and social media to maintain public awareness.

Spring – Summer Response and Outreach Phase (April – August)

As SLF becomes active, NHDAMF will conduct follow-up surveys targeting nymphs and adults, focusing on areas near known populations, high-risk nurseries, and locations prioritized by the tree-of-heaven risk model. Staff will initiate vineyard surveys and deploy appropriate traps throughout the growing season.

NHDAMF will identify if additional funding is needed to develop the enhanced reporting tool to finalize implementation. If the enhanced reporting tool is available on obligated funding, NHDAMF will assist Extension in testing any feasible enhancements to the reporting tool and participate in refining functions that prove viable. Public reports will continue to be reviewed and addressed. Outreach to stakeholders and communities will be ongoing.

Compliance agreements will be reviewed and updated prior to the spring shipping season to ensure alignment with receiving-state requirements. Vineyard-specific outreach materials will be developed prior to May surveys. Monthly coordination calls with USDA APHIS PPQ will occur during peak SLF activity to ensure active alignment with national SLF guidance and timely coordination on survey and regulatory issues. During this phase, the State Survey Coordinator will also attend the Eastern CAPS session at the Eastern Plant Board annual meeting to receive updated national program guidance, strengthen interstate coordination, and incorporate best practices from partner states.

b. *What criteria will be used to evaluate the project? What are the anticipated results and successes?*

Project progress will be evaluated using practical, achievable criteria focused on survey completion, outreach effectiveness, reporting improvements, and coordinated response activities. Because SLF establishment can be unpredictable, evaluation will emphasize realistic accomplishments rather than absolute outcomes.

Evaluation Criteria

- Completion of delimitation surveys and cultural control activities in the initial detection area.
- Completion of priority surveys in selected high-risk towns, vineyards, and nurseries.
- Development and use of the risk-based tree-of-heaven model to guide future survey planning.
- Distribution of outreach materials and delivery of outreach events in partnership with UNH Extension.
- Implementation and initial testing of the enhanced reporting tool to improve public report triage.
- Review and update of compliance agreements prior to the spring shipping season.
- Regular coordination with USDA APHIS PPQ and relevant partners during peak SLF activity.

Anticipated Results and Successes

- A clearer understanding of the extent of SLF activity in and around Salem.
- Improved ability to identify and prioritize areas for SLF detection statewide.
- Increased stakeholder awareness and improved accuracy in public reporting.
- Strengthened compliance with receiving-state SLF requirements.
- Enhanced collaboration between NHDAMF, UNH Extension, USDA APHIS, DOT, and municipal partners.

Success will be measured by the execution of planned activities, improvement of coordination and reporting systems, and the state's strengthened capacity to detect and respond to SLF.

3. What numbers and types of personnel will be needed and what will they be doing?

- **Chris Rallis – State Survey Coordinator**
Chris will supervise the project, submit claims and reports, and lead SLF delimitation, trapping, cultural controls, and tree-of-heaven survey integration. He will coordinate with UNH Extension and partners on high-risk site identification, oversee vineyard selections, and test feasible enhancements to the reporting tool. Chris will lead monthly coordination calls with USDA APHIS PPQ and attend the Eastern CAPS session. He will assist with vineyard-specific outreach materials, homeowner FAQs, and seasonal NHBugs updates.
- **Piera Siegert – State Plant Regulatory Official (SPRO)**
Piera will oversee project activities, support coordination with UNH Extension on exploration and possible development of reporting-tool enhancements and assist with regulatory review of compliance agreements before the shipping season. She will participate in winter grower meetings and contribute regulatory content to outreach materials and seasonal NHBugs updates.
- **Doug Cygan – Upland Invasive Species Coordinator**
Doug will conduct tree-of-heaven surveys in high-risk areas and ensure all locations are reported in EDDMaps and integrated into FieldMaps. He will coordinate access with DOT and municipalities for roadside SLF and tree-of-heaven surveys, assist with trap-tree identification, and contribute data to survey prioritization and seasonal updates.
- **Morgan Dube – Entomologist II / Senior Nursery Inspector**
Morgan will lead outreach to communities and nurseries, develop vineyard-specific outreach materials, and initiate and update compliance agreements. She will participate in SLF delimitation, trapping, and survey activities, help produce homeowner FAQs, assist with winter grower meetings, and support testing of feasible reporting-tool enhancements.
- **Alec Tasi – Entomologist I**

Alec will assist with compliance monitoring, SLF surveys, tree-of-heaven surveys, and cultural controls. He will support data management (FieldMaps integration and survey QC), help test any automated functions developed through exploratory reporting-tool enhancement work, and contribute to outreach materials and seasonal updates.

- **UNH Cooperative Extension**

Extension will assist in coordinating vineyard access as needed, lead technical exploration, feasibility assessment, and potential development of enhancements to the existing reporting tool, and will assist in communication with growers, homeowners, and stakeholders.

Extension will incorporate SLF and DAMF participation in scheduled grower meetings, assist in development and review of vineyard-specific outreach and FAQs, and assist in development of seasonal NHBugs updates and social media content.

- **Kathryn Aroian – State Plant Health Director (USDA APHIS PPQ)**

Kathryn will oversee PPQ personnel contributions, participate in monthly coordination calls, provide federal program guidance, support compliance and regulatory evaluation, and assist in interpreting survey results and risk-model outputs.

4. What equipment will be needed to perform the work?

a. What equipment will be provided by the cooperator?

All equipment necessary to complete the work plan will be provided by the Cooperator, including state vehicles, microscopes, computers, tablets, entomological equipment, etc.

b. What equipment will be requested from APHIS on loan?

No equipment with value of \$5,000 or more will be provided by APHIS to complete the work plan.

c. What equipment will be purchased in whole or in part with APHIS funds?

No equipment with value of \$5,000 or more will be purchased with APHIS funds to complete the work plan.

d. How will the equipment be used?

The state only has a few items of equipment that have a value of over \$5,000. These items would include state vehicles that would be available for travel and microscopes used for taxonomic purposes.

e. What is the proposed method of disposition of the equipment upon termination of the agreement/project?

No equipment will be disposed of following the termination of the project.

5. Identify information technology equipment, e.g., computers, and their ancillary components.

All staff have laptops with high-speed internet connections, state-issued smartphones, and most have state-issued iPads capable of running FieldMaps. In addition, the SSC has access to a computer that is dedicated for use with microscopes and image capturing software.

6. What supplies will be needed to perform the work?

a. *What supplies will be provided by the Cooperator?*

Hardware, tools, desks, tables, chairs, binoculars, digital camera, microscopes, hand lenses, and sweep nets.

b. *What supplies will be requested from APHIS (list supplies)?*

Should approved traps and lures become available during the agreement period, these items may be requested.

c. *What supplies will be purchased in whole or in part with APHIS funds?*

- Survey sample collection and preservation supplies, such as a mylar heat sealer, vials, alcohol, forceps, nitrile gloves, sample containers, trap container bins, and other field supplies.
- Circle traps, limb traps, and materials for lampshade traps.
- Cordless backpack vacuum, battery charger, and 3 batteries.
- Entomological collection and curation materials, insect storage and display items, including Cornell drawers, storage trays, pins and labels.
- Office supplies.
- Outreach supplies.

d. *How will the supplies be used?*

All supplies will be used to facilitate and or conduct the spotted lanternfly response.

e. *What is the proposed method of disposition of the supplies with a cumulative value over \$5,000 upon termination of the agreement/project?*

No supplies of this nature will be disposed of following the completion of this project.

7. What procurements will be made in support of the funded project and what is the method of procurement (e.g., lease, purchase)?

All supplies and equipment not provided by APHIS will be purchased or leased through NHDAMF.

8. What are the travel needs for the project?

a. *Is there any local travel to daily work sites?*

Yes

b. *What extended or overnight travel will be performed (number of trips, their purpose, and approximate dates)?*

None anticipated.

9. Reports:

All Reports will be completed in ezFedGrants. Reports include:

- a. Narrative accomplishment reports in the frequency and time frame specified on the Agreement Award Face Sheet.
- b. Federal Financial Reports, SF-425, in the frequency and time frame specified on the Agreement Award Face Sheet.

10. Are there any other contributing parties who will be working on the project?

a. *If so, list other participating institutions/agencies who will work on the project.*

- University of NH Cooperative Extension Service (UNHCES)

b. *Describe the nature of their effort.*

B. UNHCES personnel will assist in providing recommendations and coordination with access to vineyards, assist in the development of outreach materials, are the primary responsible party for the enhanced public reporting tool, and run the NHBugs website. APHIS Will:

1. Outline the Agency's (USDA APHIS PPQ) substantial involvement.

a. *Include any significant Agency collaboration and participation*

- Provide any new information that becomes available on the SLF. Provide approved traps and lures should they become available for use.
- Provide funds to the Cooperator to cover costs outlined in the Financial Plan. In addition, specific appropriate funding, at the level authorized by APHIS will be dedicated to the delivery of the objectives listed above.

b. *Project oversight and performance management*

- Monitor the cooperator's progress in meeting project objectives
- Provide new guidelines during the project as needed

c. *Provide the equipment requested by the cooperator in 4.b. & c.*

N/A

d. *Provide the supplies requested by the cooperator in 6.b. & c.*

N/A

IV) GEOGRAPHIC LOCATION OF PROJECT

A. *Is the project statewide or in specific counties?*

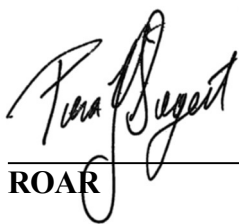
Focused work on the project will occur in Rockingham County, where Salem is located. Other counties adjacent to the Massachusetts border will also be included. The reporting tool, compliance work, and risk surveys will be conducted statewide.

V) DATA COLLECTION AND MAINTENANCE

The ADODR and ROAR are responsible for working with the program Cross Functional Working Group (CFWG) to ensure that the correct data are collected and that additional operational data collection requirements for surveys are met. The cooperator is responsible for making available or entering complete, accurate, and timely data into an APHIS approved electronic database, using APHIS approved protocols and methodology as determined by program staff. Survey-related data collected by federal personnel in conjunction with this agreement, likewise, will be made available or provided to the cooperator in an agreed upon manner.

This project enhances New Hampshire's capacity to detect and respond to an emerging SLF infestation and aligns directly with APHIS PPQ's goals for early detection, rapid response, containment, and improved compliance oversight.

VI) SIGNATURES



ROAR

26 August 2026

Date

ADODR

Date

FY2026 Financial Plan

COOPERATOR NAME

New Hampshire Department of Agriculture Markets and Food

TIME PERIOD

September 1, 2026 – August 31, 2027

Item	APHIS	Cooperator	Total
Personnel			
FTE 270 hours (delimitation, survey, cultural control, administration) at \$42.60/hour (<i>Sep. 1, 2026-Feb. 8, 2027</i>)	\$11,502.00	\$0.00	\$11,502.00
FTE 380 hours (delimitation, survey, cultural control, administration) at \$44.52/hour (<i>Feb. 9, 2027-Aug. 31, 2027</i>)	\$16,917.60	\$0.00	\$16,917.60
Subtotal	\$28,419.60	\$0.00	\$28,419.60
Fringe Benefits			
37% of FTE salary at 270 hours x \$42.60/hr	\$4,255.74	\$0.00	\$4,255.74
3.28% of FTE salary at 270 hours x \$42.60/hr - retirement benefits	\$377.27	\$0.00	\$377.27
37% of FTE salary at 380 hours x \$44.52/hr	\$6,259.51	\$0.00	\$6,259.51
3.28% of FTE salary at 380 hours x \$44.52/hr - retirement benefits	\$554.90	\$0	\$554.90
Subtotal	\$11,447.42	\$0.00	\$11,447.42
Travel			
Total of 1,860 miles @ \$0.76/miles for Tree of Heaven Risk Survey. All other travel will occur within normal daily travel patterns and is supported by cooperator resources.	\$1,413.60	\$0.00	\$1,413.60
Subtotal	\$1,413.60	\$0.00	\$1,413.60
Equipment			
Subtotal	\$0.00	\$0.00	\$0.00
Supplies			
Backpack vacuum, charger, and 3 batteries	\$686.00	\$0.00	\$686.00
Trapping supplies – circle traps, limb traps, lampshade traps	\$605.02	\$0.00	\$605.02
Outreach supplies	\$1,000.00	\$0.00	\$1,000.00
Subtotal	\$2,291.02	\$0.00	\$2,291.02
Contractual			
UNH Cooperative Extension – exploratory development, feasibility assessment, and potential enhancement of public reporting tool; outreach. This amount represents a preliminary placeholder estimate; final costs may change following assessment of feasible enhancements and available UNH technologies.	\$5,000.00	\$0.00	\$5,000.00
Subtotal	\$5,000.00	\$0.00	\$5,000.00
Other			
Subtotal	\$0.00	\$0.00	\$0.00
Total Direct Costs	\$48,571.64	\$0	\$48,571.64
Indirect Costs: 15.000% of Direct	\$7,285.75	\$0	\$7,285.75
Total	\$55,857.39	\$0	\$55,857.39
Cost Share Information	100.00%	0.00%	100.00%

Addendum 1

Spotted Lanternfly Core Program Data -Treatment Efficacy Plots SKP

Program: Spotted Lanternfly

Survey Type: Treatment Efficacy Plots and Surveys -
States with Known Populations

Survey Situation: Treatment Plots and Survey

State(s): Multi-state

Office(s): USDA/APHIS and State Cooperators

Target(s): *Lycorma delicatula*

Data Sharing System: APHIS GIS Portal

Data Sharing Frequency: Weekly*

Timelines: Current Day

**or within a reasonable
time negotiated with
theADODR*

Parcel Data: Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities			
Data Field Name	Req.	Value(s)	Description
SITE_NAME	*	Text	Site Name or Locality Parcel ID (autogenerated)
AGENCY	*	USDA APHIS State Cooperator Private Cooperator Academic Institution Extension Office Joint Cooperator	Affiliation of surveyor entering data. Select from drop-down. <i>Default= "USDA APHIS"</i>
SURVEYOR	*	Text	Name of person who created the assessment plan
PROPERTY_TYPE	*	<i>See Table 1</i>	Single select site type from drop-down menu.
PROPERTY_TYPE_OTHER		Text	Required if "Other" is selected for PROPERTY_TYPE
ESTABLISHMENT_DATE		MM/DD/YYYY	Date plot was created
PLOT_LENGTH	*	Numeric	Length of plot in meters. Must be between 3 and 20.
PLOT_WIDTH	*	Numeric	Width of plot in meters. Must be between 3 and 20.
STATE_CODE	*	2 char text	State code
COUNTY_NAME	*	Text	Office post-processing after field collection
GRID		Office post-processing after field collection	Based on state's grid allocation and office requirements; Post-processing in office after field operations. <i>Keeping?</i>
GEOGRAPHY	*	Parcel polygon or point	County polygon data or other data as available; Post-processing in office after field operations, as needed. <i>Keeping?</i>
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE	*		
SITE_COMMENTS		Text	General comment on area

One-to-Many
Relationship

POINT DATA - Attributes associated with a specific ground point where activities are conducted.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Addendum 1

Spotted Lanternfly Core Program Data -Treatment Efficacy Plots SKP

PARCEL DATA - Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities.

One-to-Many
Relationship

Point Data: Attributes associated with a specific ground point where activities are conducted			
Data Field Name	Req.	Ivalue(s)	Description
ESTABLISHMENT_DATE	*	MM/DD/YYYY	Date treatment polygon is established
QUAD_ID	*	A B C D	Single select from drop down
QUAD_LENGTH	*	Numeric	Length of quadrant in meters. Must be between 3 and 5.
QUAD_WIDTH	*	Numeric	Length of quadrant in meters. Must be between 3 and 5.
GROUND_COVER_TYPE		Text	Type of ground cover in quadrant
%_GROUND_COVER		Numeric	Percent of quadrant with ground cover
PRIMARY_HOST	*	Tree of Heaven Maple Walnut Grape Other	Select primary host from drop down
PRIMARY_HOST_OTHER		Text	Required if "Other" is selected for PRIMARY_HOST
PRIMARY_HOST_TREE_COUNT	*	Numeric	Number of primary host plants in quadrant.
PRIMARY_HOST_TOTAL_DBH	*	Numeric	Total DBH of primary host plants in inches.
SECONDARY_HOST		Text	What is the second most prominent host at site?
SECONDARY_HOST_TREE_COUNT		Text	Number of secondary host plants in quadrant
SECONDARY_HOST_TOTAL_DBH	*	Text	Total DBH of secondary host plants
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE			
SUBSITE_COMMENTS		Text	General comments on survey or assessment

One-to-Many
Relationship

ACTIVITY DATA - Attributes associated with the work performed at the point.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data -Treatment Efficacy Plots SKP

POINT DATA - Attributes associated with a specific ground point where activities are conducted.

One-to-Many
Relationship

Activity Data: Attributes associated with the work performed at the point			
Data Field Name	Req.	Value(s)	Description
ACTIVITY_ACTION	*	Assessment	Service Activity. <i>Default= Assessment</i>
AGENCY	*	USDAAPHIS State Cooperator Private Cooperator Academic Institution Extension Office Joint Cooperator	Affiliation performing activity from drop-down menu. <i>Default= USDA APH/5</i>
TREATMENT_BY	*	Text	Name of person who performed treatment.
TREATMENT_DATE	*	MM/DD/YYYY	Date treatment was performed.
BROADCAST_METHOD	*	Backpack Sprayer Mister/Fogger Hydraulic/Spray Gun Vaccum	Single select method from drop-down menu
CHEMICAL_APPLIED	*	Bifenthrin Dinotefuran 3% Golden Pest Spray Oil Beauveria bassiana Other	Single select from drop-down menu. Visible and required if BROADCAST_METHOD is "Backpack Sprayer", "Mister/Fogger", or "Hydraulic/Spray Gun".
CHEMICAL_OTHER		Text	Required if "Other" is selected for CHEMICAL_APPLIED.
CHEMICAL_FORMULATION		Text	Formulation of chemical applied. Visible and required if BROADCAST_METHOD is "Backpack
GALLONS_APPLIED		Numeric	Amount of chemical applied in gallons. Required if BROADCAST_METHOD is "Backpack Sprayer", "Mister/Fogger", or "Hydraulic/Spray Gun"
VACUUM_MODEL		Milwaukee Tool M18 FUEL 3-in-1 Backpack vacuum Other	Model of vacuum used for treatment. Required if BROADCAST_METHOD is "Vacuum".
VACUUM_MODEL_OTHER		Text	List model of vacuum. Required if "Other" selected
VACUUM_CANISTER_SIZE		Numeric	Size of vacuum canister in gallons. Required if BROADCAST_METHOD is "Vacuum"
TREATMENTS_OTHER	*	No Yes	Select from drop-down menu if other treatment treatments were used at this plot. <i>Default= No</i>
ACTIVITY_COMMENTS		Text	General comments on treatment activity

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data -Treatment Efficacy Plots SKP

Table 1

PROPERTY_TYPE

Agricultural	Municipal (City) Park
Airport/Runways	Nature Center
Ball Field	Nursery- General
Botanical Gardens	Railroad Yard/Siding
Business/Office Park	Reforestation Prog./Tree Farm
Campground/RV Park	Residential - High Risk
Cemetery	Residential - Low Risk
Community Garden	Residential - Medium Risk
County Park	Restaurant
Farmers Market	Roadside
Forest	Sawmill/Finishing Operation(s)
Golf Course	State Forest/Park
Highway Rest Area	SWPM (Solid Wood Packing Material) Site
Industrial Property/Perimeter	Tree Disposal/Green Waste Recycling
International Border	US National Forest or Park
Landfill	Warehouse
Logs - Unseasoned Wood	Wooded Residential Area
Maritime Port	Woodlot
Military/National Guard Base	Other

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Addendum 1

Spotted Lanternfly Core Program Data -Treatment Efficacy Quad Center Points SKP

Program: Spotted Lanternfly

Survey Type: Treatment Efficacy Plots and Surveys -
States with Known Populations

Survey Situation: Treatment Plots and Survey

State(s): Multi-state

Office(s): USDA/APHIS and State Cooperators

Target(s): *Lycorma delicatula*

Data Sharing System: APHIS GIS Portal

Data Sharing Frequency: Weekly*

Timelines: Current Day

**or within a reasonable
time negotiated with
the ADODR*

Point Data: Attributes associated with a specific ground point where activities are conducted

Data Field Name	IReq.	Ivalue(s)	Description
SITE_NAME	*	Text	Site Name or Locality Parcel ID (autogenerated)
AGENCY	*	USDA APHIS State Cooperator Private Cooperator Academic Institution Extension Office Joint Cooperator	Affiliation of surveyor entering data. Select from drop-down. Default= "USDA APHIS"
SURVEYOR	*	Text	Name of person who created the assessment plan.
ESTABLISHMENT_DATE	*	MM/DD/YYYY	Date quad center point was created
QUAD_ID	*	A B C D	Single select from drop down
QUAD_LENGTH	*	Numeric	Length of quadrant in meters. Must be between 3 and 5.
QUAD_WIDTH	*	Numeric	Width of quadrant in meters. Must be between 3 and 5.
GROUND_COVER_TYPE		Text	Type of ground cover in quadrant
%_GROUND_COVER		Numeric	Percent of quadrant with ground cover
PRIMARY_HOST	*	Tree of Heaven Maple Walnut Grape Other	Select primary host from drop down. <i>Default= Tree of Heaven</i>
PRIMARY_HOST_OTHER		Text	Required if "Other" is selected for PRIMARY_HOST
PRIMARY_HOST_TREE_COUNT		Numeric	Number of primary host plants in quadrant.
PRIMARY_HOST_TOTAL_DBH	*	Numeric	Total DBH of primary host plants in inches.
SECONDARY_HOST		Text	What is the second most prominent host at site? Prompt stating "Format Answer Ailanthus, Red Maple"
SECONDARY_HOST_TREE_COUNT		Text	Number of secondary host plants in quadrant
SECONDARY_HOST_TOTAL_DBH		Text	Total DBH of secondary host plants in inches.
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE	*		
SUBSITE_COMMENTS		Text	Comments about quad point or stem survey

One-to-Many
Relationship

ACTIVITY DATA - Attributes associated with the work performed at the point.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data -Treatment Efficacy Quad Center Points

SKP

POINT DATA - Attributes associated with a specific ground point where activities are conducted.

One-to-Many
Relationship

Activity Data: Attributes associated with the work performed at the point			
Data Field Name	Req.	Value(s)	Description
ACTIVITY_ACTION	*	Survey	Service Activity. Default= Survey
SURVEY_DATE	*	MM/DD/YYYY	Date survey was performed.
SURVEYOR	*	Text	Name of person who performed survey.
TREATMENT_STAGE	*	Pre-treatment Post-treatment	Select from drop-down menu.
POST_TREATMENT_STAGE	*	1 Day 1 Week 2 Weeks 3 Weeks 4 Weeks 5 Weeks 6 Weeks 7 Weeks 8 Weeks 9 Weeks 10 Weeks 11 Weeks 12 Weeks 13 Weeks 14 Weeks 15 Weeks Other Stage	Select from drop-down menu. Required if TREATMENT_STAGE is "Post-treatment".
POST_TREATMENT_STAGE_OTHER		Test	Required if "Other Stage" is selected for POST_TREATMENT_STAGE.
LIVE_NYMPH_COUNT	*	Numeric	Number of live SLF nymphs counted in quadrant.
LIVE_ADULT_COUNT	*	Numeric	Number of live SLF adults counted in quadrant.
DEAD_NYMPH_COUNT	*	Numeric	Number of dead/moribund SLF nymphs counted in quadrant.
DEAD_ADULT_COUNT	*	Numeric	Number of dead/moribund SLF adults counted in quadrant.
VACUUM_TREATMENT	*	No Yes	Select from drop-down menu whether or not vacuum treatment was performed. Default= No
CANISTER_%_FILLED		Numeric	Percent of overall vacuum canister filled with SLF. Required if VACUUM_TREATMENT is "Yes".
DOMINANT_LIFE_STAGE		Early Nymph 3rd-4th Instar Adult Gravid Adult	Dominant stage of SLF vacuumed. Required if VACUUM_TREATMENT is "Yes".
ACTIVITY_COMMENTS		Text	General comments on treatment activity

Note: Items with * are required for the program. Items that are not listed as required are highly recommended.

Spotted Lanternfly Core Program Data -Treatment Efficacy Quad Center Points

SKP

Table 1

PROPERTY_TYPE	
Agricultural	Municipal (City) Park
Airport/Runways	Nature Center
Ball Field	Nursery- General
Botanical Gardens	Railroad Yard/Siding
Business/Office Park	Reforestation Prog./Tree Farm
Campground/RV Park	Residential - High Risk
Cemetery	Residential - Low Risk
Community Garden	Residential - Medium Risk
County Park	Restaurant
Farmers Market	Roadside
Forest	Sawmill/Finishing Operation(s)
Golf Course	State Forest/Park
Highway Rest Area	SWPM (Solid Wood Packing Material) Site
Industrial Property/Perimeter	Tree Disposal/Green Waste Recycling
International Border	US National Forest or Park
Landfill	Warehouse
Logs - Unseasoned Wood	Wooded Residential Area
Maritime Port	Woodlot
Military/National Guard Base	Other

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Addendum 1

Spotted Lanternfly Core Program Data - Egg Mass Treatment Areas SKP

Program: Spotted Lanternfly
Survey Type: Egg Mass Treatment Areas - States with Known Populations
Survey Situation: Treatment
State(s): Multi-state
Office(s): USDA/APHIS and State Cooperators
Target(s): *Lycorma de/icatula*

Data Sharing System: APHIS GIS Portal
Data Sharing Frequency: Weekly*
Timelines: Current Day

**or within a reasonable time negotiated with the ADODR*

Parcel Data: Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities			
Data Field Name	Req.	Value(s)	Description
LOCALITY PARCEL ID	*	County Parcel ID value	County polygon data
PROPERTY TYPE	*	See List 1	Single select type of property from drop down menu
PROPERTY TYPE OTHER		Text	Enter property type if "Other" is selected from PROPERTY TYPE
CITY		Text	Site city
STATE	*	2 char text	Site 2 character state code
ZIP CODE		Numeric	Site zip code
COUNTY NAME	*	Text	Site County
SITE COMMENTS		Text	Additional comments on site

One-to-Many



Point Data: Attributes associated with a specific ground point where activities are conducted			
Data Field Name	Req.	Value(s)	Description
ESTABLISHMENT DATE	*	MM/DD/YYYY	Date treatment polygon is established
ACREAGE TREATED	*	Numeric	Acreage of polygon
CUSTOMER NAME		Text	Owner/contact for property
QC FIELD		Text	Initials of QC Reviewer
QC COMMENTS		Text	Additional QC Comments
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE	*		
SUBSITE COMMENTS		Text	General comments on subsite

One-to-Many Relationship



1 ACTIVITY DATA - Attributes associated with the work performed at the point.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data - Egg Mass Treatment Areas SKP

POINT DATA- Attributes associated with a specific ground point where activities are conducted.

One-to-Many

Relationship

Activity Data: Attributes associated with the work performed at the point			
Data Field Name	Req.	Value(s)	Description
NAME TEAM	*	Text	Name of person who created the assessment plan
TREATMENT_AGENCY	*	USDA APHIS State Cooperator Private Contractor Academic Institution Extension Office Joint Cooperator	Single select agency from drop-down Default= USDA APHIS
CERTIFIED APPLICATOR NAME	*	Text	Applicator Name
TREATMENT_START_TIME	*	MM/DD/YYYY, HH:MM AM/PM	Select time and date that treatment starts from calendar
TREATMENT_END_TIME	*	MM/DD/YYYY, HH:MM AM/PM	Select time and date that treatment ends from calendar
ACTIVE_INGREDIENT	*	Soybean Oil None (Scraped)	Single select active ingredient from drop-down
CHEMICAL_AMOUNT		Numeric	Amount of chemical applied
CHEMICAL_AMOUNT_UNITS		Gallons Grams Milliliters Ounces	Units of chemical used. Single select from drop-down menu. (Required if CHEMICAL_AMOUNT not null)
BRAND_NAME		Text	Brand name of chemical
EPA_REGISTRATION_NUMBER		Text	EPA Registration Number
DOSAGE_RATE		Numeric	Dosage or rate of chemical applied
APPLICATION_METHOD	*	Scraped Backpack Sprayer Handheld Sprayer Roller Scraped, Backpack Sprayer Scraped, Handheld Sprayer Scraped, Roller Scraped, Backpack Sprayer, Handheld Sprayer Scraped, Backpack Sprayer, Roller Scraped, Handheld Sprayer, Roller Scraped, Backpack Sprayer, Handheld Sprayer, Roller Untreated	Single select application method from drop-down menu
EGG_MASS_COUNT_SOYBEAN_OIL	*	Numeric	Count of egg masses sprayed with soybean oil
EGG_MASS_COUNT_SCRAPED	*	Numeric	Count of egg masses scraped
EGG_MASS_COUNT_UNTREATED	*	Numeric	Estimated count of egg masses left untreated
EGG_MASS_COUNT_BELOW_6_FEET	*	Numeric	Count of egg masses below 6 feet
COMMODITY_TREATED		Text	Name of crop or commodity treated
WIND_SPEED_DIRECTION		Numeric	Wind speed (mph) and direction
TEMPERATURE_FAHRENHEIT		Numeric	Temperature, in degrees Fahrenheit
RELATIVE_HUMIDITY		0-100	Relative humidity, as a percentage
QC_FIELD		Text	Initials of field reviewer
QC_COMMENTS		Text	Additional comments
ACTIVITY_COMMENTS		Text	General comments on treatment activity

Note: Items with * are required for the program. Items that are not listed as required are highly recommended.

Spotted Lanternfly Core Program Data - Egg Mass Treatment Areas SKP

Agricultural Airport/Runways Ball Field Botanical Gardens Business/Office Park Campground/RV Park Cemetery Community Garden County Park Farmers Market Forest Golf Course Highway Rest Area Industrial Property/Perimeter International Border Landfill Logs - Unseasoned Wood Maritime Port Military/National Guard Base Municipal (City) Park Nature Center Nursery- General Railroad Yard/Siding Reforestation Prog./Tree Farm Residential - High Risk Residential - Low Risk Residential - Medium Risk Restaurant Roadside Sawmill/Finishing Operation(s) State Forest/Park SWPM (Solid Wood Packing Material) Site Tree Disposal/Green Waste Recycling US National Forest or Park Warehouse Wooded Residential Area Woodlot Other

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Addendum 1

Spotted Lanternfly Core Program Data - Trapping

Program: Spotted Lanternfly
Survey Type: Trapping
Survey Situation: Detection and Delimitation
State(s): Multi-state
Office(s): USDA/APHIS and State Cooperators
Target(s): *Lycorma delicatula*

Data Sharing System: APHIS GIS Portal
Data Sharing Frequency: Weekly*
Timelines: Current Day

**or within a reasonable
time negotiated with
the ADODR*

Parcel Data: Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities			
Data Field Name	Req.	Value(s)	Description
SITE_NAME	*	Text	Site name
AGENCY	*	USDA APHIS State Cooperator Private Contractor Academic Institution Extension Office Joint Cooperator	Single select the agency entering data. <i>Default= "USDA APHIS"</i>
PROPERTY_TYPE	*	<i>See List 1</i>	Post-processing in office after field operations. Single select from drop down menu.
PROPERTY_TYPE_OTHER		Text	Required if "Other" is selected from PROPERTY_TYPE
ADDRESS		Text	Site address
CITY		Text	Site city
STATE_CODE	*	2 char text	State code
ZIP_CODE		Numeric	Zip code
COUNTY_NAME	*	Text	Office post-processing after field collection
GRID		Office post-processing after field collection	Based on state's grid allocation and office requirements. Post-processing in office after field operations.
GEOGRAPHY	*	Parcel polygon or point	County polygon data or other data as available. Post-processing in office after field operations, as needed.
SITE_COMMENTS		Text	General comment on site

— One-to-Many
Relationship

— POINT DATA-Attributes associated with a specific ground point where activities are conducted.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data - Trapping

PARCEL DATA-Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities.

One-to-Many
Relationship

Point Data: Attributes associated with a specific ground point where activities are conducted			
Data Field Name	Req.	Value(s)	Description
SUBSITE_NAME	*	Text	Same as Site Name unless subsite used
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE	*		
TRAP_TYPE	*	Sticky Band Bug Barrier Circle Trap Egg Mass Trap Hand Collected Sentinel Tree Tarps Survey Point Stake Pole Trap InthPr	Single select trap type from drop-down menu
TRAP_TYPE_OTHER		Text	Required if "Other" selected from TRAP_TYPE
LURE	*	No Lure Methyl Salicylate	Select from drop-down menu. <i>Default to "No Lure"</i> .
HOST	*	Tree of Heaven (<i>Ailanthus altissima</i>) Red Maple (<i>Acer rubrum</i>) Silver Maple (<i>Acer saccharinum</i>) Maple (<i>Acer spp.</i>) Black Walnut (<i>Juglans nigra</i>) River Birch (<i>Betula nigra</i>) Sweet Birch (<i>Betula lenta</i>) Birch (<i>Betula spp.</i>) Willow (<i>Salix spp.</i>) Sumac (<i>Rhus spp.</i>) Black Locust (<i>Robinia pseudoacacia</i>) Beech (<i>Fagus spp.</i>) Oak (<i>Quercus spp.</i>) Other	Single select trap host from drop-down menu. <i>Default= "Ailanthus altissima"</i>
HOST OTHER		Text	Required if "Other" selected from HOST
PEST STATUS			Post-processing from script
INSTALL DATE	*	MM/DD/YYYY	Date of trap installation
DBH	*	Numeric	Diameter Breast Height
SCHEDULE_STATUS	*	Current Due Inactive	Post-processing from Trap Activities and script.
QC FIELD		Text	Initials of QC Reviewer
QC COMMENTS		Text	Additional QC Comments
SUBSITE COMMENTS		Text	Additional comments on subsite

One-to-Many
Relationship

ACTIVITY DATA- Attributes associated with the work performed at the point.

Note: Items with * are required for the program. Items that are not listed as required are highly recommended.

Spotted Lanternfly Core Program Data - Trapping

POINT DATA- Attributes associated with a specific ground point where activities are conducted.

One-to-Many
Relationship

Activity Data: Attributes associated with the work performed at the point			
Data Field Name	Req.	Value(s)	Description
ACTIVITY DATE	*	MM/DD/YYYY	Date of activity
ACTIVITY_ACTION	*	Replace Replace and Refresh Lure Refresh Lure Replace Trap (Damaged/Missing) Remove Empty Trap	Select from drop-down menu
NAME TEAM	*	Text	Name of trapper or field team
PEST_STATUS	*	Negative Positive Undetermined	Select from drop-down menu
STATUS_COMMENTS		Text	Required entry if PEST_STATUS = "Undetermined"
SAMPLE_COLLECTED	*	Yes No	Was a sample collected at time of activity. <i>Default= "No". DISCUSS</i>
ACTIVITY_COMMENTS		Text	General activity comments

One-to-Many
Relationship

Sample Data: Specimen collected and identified during an activity			
Data Field Name	Req.	Value(s)	Description
SAMPLE_ID	*	Identification tag on sample collected during activity for diagnostic routing	Cross-reference with AQAS 391 record, post-field work. Document Trap ID in 391 form. <i>Discuss lack of sample data section in Brianna's PDF updates. Also, Pest Count needed? 2024 pdf has counts included.</i>
SAMPLE TYPE	*	Text	Type of sample
PPQ391 SAMPLE NUMBER	*	Text	ID of the PPQ 391 collection, if submitted
SPECIMEN_STATUS	*	Negative No Determination Pending	Sample results from identifiers/NIS. Select from drop down menu. <i>Positive finds outside of quarantined areas may need internal program coordination and approval before reporting through an APHIS database.</i>

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data - Trapping

<i>List 1</i>	
HABITAT	
Agricultural	Municipal (City) Park
Airport/Runways	Nature Center
Ball Field	Nursery- General
Botanical Gardens	Orchard
Business/Office Park	Railroad Yard/Siding
Campground/RV Park	Reforestation Prog./Tree Farm
Cemetery	Residential - High Risk
Community Garden	Residential - Low Risk
County Park	Residential - Medium Risk
Farmers Market	Restaurant
Forest	Roadside
Golf Course	Sawmill/Finishing Operation(s)
Grove	State Forest/Park
Highway Rest Area	SWPM (Solid Wood Packing Material Site)
Industrial Property/Perimeter	Tree Disposal/Green Waste Recycling
International Border	US National Forest or Park
Landfill	Warehouse
Logs - Unseasoned Wood	Wooded Residential Area
Maritime Port	Woodlot
Military/National Guard Base	Other

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Example 1- Data Shared Using Relational Data Tables

Indicates required data field

SITE_NAME*	SITE_TYPE	ADDRESS	CITY	STATE_CODE*	ZIP_CODE	COUNTY_NAME*	GRID	GEOGRAPHY*	SITE_COMMENTS
River Road Park	Mixed Rural			XV		White	19T NG 9857	GIS polygon or coordinate point representation	
SLF-32	Developed			XV	1	Red	19T NG 9857	GIS polygon or coordinate point representation	

One-to-Many Relationship



SITE_NAME*	SUBSITE_NAME*	LATITUDE*	LONGITUDE*	TRAP_TYPE*	LURE_TYPE*	DBH*	SCHEDULE	STATUS*	SUBSITE_COMMENTS
River Road Park	SLF-12	42.123456	-65.654321	Circle Trap	Methyl salicylate	6	Current		public access some sumac also
River Road Park	SLF-13	42.654321	-65.123456	Bug Barrier	No lure		9	Current	

One-to-Many Relationship



SUBSITE_NAME*	ACTIVITY_DATE*	ACTIVITY_ACTION*	NAME_TEAM*	PEST_STATUS*	COUNT*	EGG_MASS	EARLY_INSTAR_*	FOURTH_INSTAR_*	ADULT_*	QC_FIELD	QC_COMMENTS	ACTIVITY_COMMENTS
SLF-12	4/1/2020	Install	Trapper 1	Positive		0	300	100	0			Checked with campsite host
SLF-12	5/12/2020	Replace Trap (Damaged/missing)	Trapper 1	Positive	J	0	200	0	0			

One-to-Many Relationship



SUBSITE_NAME*	ACTIVITY_DATE*	SAMPLE_NAME	SAMPLE_TYPE*	PPQ391_SAMPLE_NUMBER*	SPECIMEN_STATUS
SLF-12	5/12/2020	SLF-12-0512	Insect	I-q123	Pending

Note: Column heading in green represent linked fields to the table above the current table

Example 2 - Data Shared Using One Data Table

3:
0
et:

Indicates required data field

	SITE_NAME	SITE_TYPE	ADDRESS	CITY	STATE_CODE	ZIP_CODE	COUNTY_NAME	GRID	GEOGRAPHY	SITE_COMMENTS
1	River Road Park	Mixed Rural		XY			White	19T NG 9857	G/5 polygon or coordinate point representation	River Road Park
2	River Road Park	Mixed Rural		XY			White	19T NG 9857	G/5 polygon or coordinate point representation	River Road Park

3:
0
et:

	SUBSITE_NAME	LATITUDE	LONGITUDE	TRAP_TYPE	LURE_TYPE	DBH	SCHEDULE_STATUS	SUBSITE_COMMENTS
1	SLF-12	42.123456	-65.654321	Circle Trap	Methyl salicylate	6	Current	public access some sumac also
2	SLF-12	42.123456	-65.654321	Circle Trap	Methyl salicylate	6	Current	public access some sumac also

3:
0
et:

	ACTIVITY_DATE	ACTIVITY_ACTION	NAME	TEAM	PEST STATUS	EGG_MASS_COUNT	EARLY_INSTAR_POP_DENSITY	FOURTH_INSTAR_POP_DENSITY
1	4/1/2020	Install	Trapper	1	Positive	0	300	100
2	5/12/2020	Replace Trap (Damaged/missing)	Trapper	1	Positive	0	200	0

3:
0
et:

1
2

QC_COMMENTS	ACTIVITY_COMMENTS	SAMPLE_NAME	SAMPLE_TYPE	PPQ391_SAMPLE_NUMBER	SPECIMEN_STATUS
	Checked with campsite host	SLF-12-0512	Insect	ID-123	Pending

Note: The above represents a single table with four rows of data (table broken into three sections to ease readability)

Addendum 1

Spotted Lanternfly Core Program Data - Site Assessment

Program: Spotted Lanternfly
Survey Type: Visual
Survey Situation: Site Assessment
State(s): Multi-state
Office(s): USDA/APHIS and State Cooperators
Target(s): *Lycorma delicatula*

Data Sharing System: APHIS GIS Portal
Data Sharing Frequency: Weekly*
Timelines: Current Day
**as reasonable time
negotiated with ADODR*

Parcel Data: Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities			
Data Field Name	Req.	Value(s)	Description
LOCALITY_PARCEL_ID	*	Text	Site Name or Locality Parcel ID (<i>autogenerated</i>)
SITE_pLAN_STATUS	*	Full Access Granted Limited Access Access Pending Notification No Access Granted Access Rescinded Assessment Pending Assessment Required/ Access Granted Assessment Complete No Host Present Agreement Received Treatment Pending Treatment Completed Access/Treatment Declined Unassigned	Single select site plan status from drop-down menu
RISK_LEVEL	*	Risk Level 1 (Priority 1) Risk Level 2 (Priority 2) Risk Level 3 (Priority 3) Unassigned	Single select risk level from drop-down menu
PROPERTY_TYPE	*	Rail Yards and Intermodal Platforms Sea Ports Primary Airports Shippers and Mail Carriers Distribution Centers Regional Airports Moving Companies Truck Stops and Rest Areas Wineries and Vineyards Green Industry (Agriculture) Industrial Facilities Lumber Yards, Sawmills Solid Waste Management Railroad Lines Major Roads Popular Destinations Agricultural Properties Bottling Plants Boat Launches and Marinas Colleges/Universities Truck Garages and Auto Repairs Residential Properties Agricultural Markets	Single select survey priority from drop-down menu
OWNERSHIP		Private Public	Single select ownership from drop-down menu

One-to-Many
Relationship

PARCEL DATA Continued.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data - Site Assessment

PARCEL DATA-Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities.

One-to-Many
Relationship

CALCULATED_ACRES	*	Numeric	Pre-loaded
ACCESS_GRANTED	*	No Yes Yes, see notes Unassigned	Single select access status from drop-down menu
ACCESS_GRANTED_DATE	*	MM/DD/YYYY	Date that access was granted or denied
ACCESS_NOTES		Text	Comments about access that was granted
PPQ_PARCEL_ID	*	Text	Unique parcel ID assigned by PPQ (autogenerated)
PROPERTY_CONTACT_NAME		Text	Property contact name
CONTACT_METHOD		Phone, text, email, mail	Single select from drop down menu
PHONE_NUMBER		Numeric	Phone number for contact
TEXT_NUMBER		Numeric	Text number for contact
EMAIL		Text	Email for contact
ADDRESS		Text	Property address
CITY		Text	Property city
STATE_CODE	*	2 char text	State code
ZIP_CODE	*	Numeric	Zip code
COUNTY_NAME	*	Text	Post-processed after field collection
FIPS_CODE	*	Numeric	Post-processed after field collection
GRID		Office post-processing after field collection	Based on state's grid allocation and office requirements. Post-processing in office after field operations.
GEOGRAPHY	*	Parcel polygon or point	County polygon data or other data as available. Post- processing in office after field operations, as needed.
SITE_COMMENTS		Text	General comment on area

One-to-Many
Relationship

Point Data: Attributes associated with a specific ground point where activities are conducted			
Data Field Name	Req.	Value(s)	Description
SUBSITE_NAME	*	Text	Same as SiteName unless subsite used
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE	*		
SUBSITE_COMMENTS		Text	General comments on subsite

One-to-Many
Relationship

ACTIVITY DATA - Attributes associated with the work performed at the point.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data - Site Assessment

POINT DATA - Attributes associated with a specific ground point where activities are conducted.

One-to-Many
Relationship

Activity Data: Attributes associated with the work performed at the point			
Data Field Name	Req.	Value(s)	Description
ACTIVITY_DATE	*	MM/DD/YYYY	Date of Activity
ACTIVITY_ACTION	*	Full Access Granted Limited Access 1st Attempt 2nd Attempt 3rd Attempt No Access Granted Access Rescinded Assessment Pending Assessment Required/ Access Granted Assessment Complete No Host Present Agreement Received Treatment Pending Treatment Completed Access/Treatment Declined Unassigned	Single select activity performed from drop-down menu
SURVEYOR_NAME	*	Text	Surveyor name
AGENCY	*	see list	Agency for which the surveyor works
ACTIVITY_COMMENTS		Text	Activity notes/comments
QC_FIELD		Text	Initials of field reviewer
QC_COMMENTS		Text	General comments on activity

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Addendum 1

Spotted Lanternfly Core Program Data -Visual SKP

Program: Spotted Lanternfly
Survey Type: Visual - States with Known Populations
Survey Situation: Detection and Delimitation
State(s): Multi-state
Office(s): USDA/APHIS and State Cooperators
Target(s): *Lycorma delicatula*

Data Sharing System: APHIS GIS Portal
Data Sharing Frequency: Weekly*
Timelines: Current Day

**or within a reasonable
time negotiated with
the ADODR*

Parcel Data: Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities		
Data Field Name	Req. Value(s)	Description
SITE_NAME	* !Text	Site name
PROPERTY_TYPE	* !See Table 1	Post-processing in office after field operations. Single select from drop-down menu.
PROPERTY TYPE OTHER	iText	Enter PROPERTY TYPE if "Other" is selected.
STATE_CODE	* !2 char text	State code
COUNTY_NAME	* !Text	Office post-processing after field collection
GRID	iOffice post-processing !after field collection	Based on state's grid allocation and office requirements. Post-processing in office after field operations.
GEOGRAPHY	* jParcel polygon or point	County polygon data or other data as available. Post-processing in office after field operations, as needed.
SITE_COMMENTS	:Text	General comment on area

One-to-Many
Relationship

Point Data: Attributes associated with a specific ground point where activities are conducted			
Data Field Name	Req.	Value(s)	Description
SUBSITE_NAME		Text	Same as Site Name unless subsite used
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE	*		
HOST	*	Ailanthus altissima Non-Ailanthus tree Fruit Tree Grape Other Organic Transport Vehicle Inorganic Object	Select from drop-down menu. <i>Default= Ailanthus altissima</i>
DBH	*	Numeric	Diameter Breast Height
SUBSITE_COMMENTS		Text	General comments on subsite

One-to-Many
Relationship

ACTIVITY DATA - Attributes associated with the work performed at the point.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data -Visual SKP

POINT DATA- Attributes associated with a specific ground point where activities are conducted.

One-to-Many
Relationship

Activity Data: Attributes associated with the work performed at the point			
Data Field Name	Req.	Value(s)	Description
ACTIVITY DATE	*	MM/DD/YYYY	Date of activity
AGENCY	*	USDA APHIS State Cooperator Private Cooperator Academic Institution Extension Office Joint Cooperator	Affiliation performing activity from drop-down menu <i>Default= USDA APHIS</i>
PEST_STATUS	*	Negative Positive Undetermined	Select from drop-down menu
STATUS_ COMMENTS		Text	Required field if PEST_STATUS is Undetermined. <i>"Why is this undetermined?"</i>
OLD_EGG_MASS_COUNT		Numeric	Required field if PEST_STATUS is Positive or Undetermined
NEW_EGG_MASS_COUNT		Numeric	Required field if PEST_STATUS is Positive or Undetermined
EARLY_INSTAR_POP_DENSITY		Unpopulated 1 live or several dead 2-10 live 11-30 live 30-100 live 100+ live Generally Infested	10 meter radius around Tree of Heaven. Select from drop-down menu. Required field if PEST_STATUS is Positive or Undetermined.
FOURTH_INSTAR_POP_DENSITY		Unpopulated 1 live or several dead 2-10 live 11-30 live 30-100 live 100+ live Generally Infested	10 meter radius around Tree of Heaven. Select from drop-down menu. Required field if PEST_STATUS is Positive or Undetermined.
ADULT_POP_DENSITY		Unpopulated 1 live or several dead 2-10 live 11-30 live 30-100 live 100+ live Generally Infested	10 meter radius around Tree of Heaven. Select from drop-down menu. Required field if PEST_STATUS is Positive or Undetermined.
QC FIELD		Text	Initials of field reviewer
QC COMMENTS		Text	
ACTIVITY COMMENTS		Text	General comments on activity

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data -Visual SKP

Table 1
PROPERTY_TYPE
Agricultural
Airport/Runways
Ball Field
Botanical Gardens
Business/Office Park
Campground/RV Park
Cemetery
Community Garden
County Park
Farmers Market
Forest
Golf Course
Highway Rest Area
Industrial Property/Perimeter
International Border
Landfill
Logs - Unseasoned Wood
Maritime Port
Military/National Guard Base
Municipal (City) Park
Nature Center
Nursery- General
Railroad Yard/Siding
Reforestation Prog./Tree Farm
Residential - High Risk
Residential - Low Risk
Residential - Medium Risk
Restaurant
Roadside
Sawmill/Finishing Operation(s)
State Forest/Park
SWPM (Solid Wood Packing Material) Site
Tree Disposal/Green Waste Recycling
US National Forest or Park
Warehouse
Wooded Residential Area
Woodlot
Other

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Example 1- Data Shared Using Relational Data Tables

Indicates required data field

SITE_NAME	SITE_TYPE	STATE_CODE	COUNTY_NAME	GRID	GEOGRAPHY	SITE_COMMENTS
River Road Park	Mixed Rural	XV	White	19T NG 9857	G/5 polygon or coordinate point representation	
SLF-32	Developed	XV	Red	19T NG 9857	G/5 polygon or coordinate point representation	

one-to-Many
Relationship

SITE-NAME	SUBSITE_NAME	LATITUDE	LONGITUDE	SURVEY METHOD	HOST-STATUS	SUBSITE-COMMENTS
River Road Park	River Road Park	42.123456	-65.654321	Visual	Inorganic Object	public access, some sumac
SLF-32	SLF-32	42.654321	-65.123456	Visual	Ailanthus altissima	

One-to-Many
Relationship

SUBSITE NAME	ACTIVITY_ DATE	ACTIVITY_ ACTION	NAME TEAM	PEST STATUS	OLD_EGG_MASS COUNT	NEW_EGG_MASS COUNT	EARLY_INSTAR_ POP DENSITY	FOURTH_INSTAR_ POP DENSITY	ADULT POP DENSITY	QC FIELD	QC COMMENTS	ACTIVITY COMMENTS
River Road Park	4/1/2020	Visual	LC	Positive		0	12 2-10 live	11-30 live	1 live or several dead			Checked with campsite host
SLF-32	6/1/2020	Visual	Castillo	Negative		0	0 Unpopulated	Unpopulated	Unpopulated			

Note: Column heading in green represent linked fields to the table above the current table

Example 2 - Data Shared Using One Data Table

◆ indicates required data field

	SITE_NAME	SITE TYPE	STATE_CODE	COUNTY_NAME	GRID	GEOGRAPHY	SITE_COMMENTS	SUBSITE_NAME
1	River Road Park	Mixed Rural	XY	White	19T NG 9857	G/5 polygon or coordinate point representation		River Road Park
2	SLF-32	Developed	XY	Red	19T NG 9857	G/5 polygon or coordinate point representation		SLF-32

	LATITUDE	LONGITUDE	SURVEY METHOD	HOST STATUS	SUBSITE COMMENTS	ACTIVITY DATE	ACTIVITY ACTION	NAME TEAM	PEST STATUS
1	42.123456	-65.654321	Visual	Inorganic Object	public access, some sumac	4/1/2020	Visual	LC	Negative
2	42.654321	-65.123456	Visual	Ailanthus altissima		6/1/2020	Visual	Castillo	Negative

	OLD EGG MASS COUNT	NEW EGG MASS COUNT	EARLY INSTAR POP DENSITY	FOURTH INSTAR POP DENSITY	ADULT POP DENSITY
1	0		12 2-10 live	11-30 live	1 live or several dead
2	0		0 Unpopulated	Unpopulated	Unpopulated

	QC FIELD QC COMMENTS	ACTIVITY COMMENTS
1		Checked with campsite host
2		

Note: The above represents a single table with four rows of data (table broken into three sections to ease readability)

Addendum 1

Spotted Lanternfly Core Program Data - Treatment Areas SKP

Program: Spotted Lanternfly

Survey Type: Treatment Areas -States with Known Populations

Survey Situation: Treatment

State(s): Multi-state

Office(s): USDA/APHIS and State Cooperators

Target(s): *Lycorma delicatula*

Data Sharing System: APHIS GIS Portal

Data Sharing Frequency: Weekly*

Timelines: Current Day

**or within a reasonable time negotiated with the ADODR*

Parcel Data: Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities			
Data Field Name	Req.	Value(s)	Description
SITE_NAME	*	Text	Site Name or Locality Parcel ID (autogenerated)
TREATMENT_PLAN	*	Herbicide Insecticide Mechanical Removal Unassigned	Treatment plan that was defined for the parcel
ASSESSMENT_BY	*	Text	Name of person who created the assessment plan
ASSESSMENT_AGENCY	*	USDA APHIS State Cooperator Private Cooperator Academic Institution Extension Office Joint Cooperator	Affiliation of surveyor entering data. Select from drop-down. <i>Default= USDA APHIS</i>
PROPERTY_TYPE		<i>See Table 1</i>	Single select site type from drop-down menu. Required if TREATMENT_DATE is not NULL.
PROPERTY_TYPE_OTHER		Text	Required if "Other" is selected for PROPERTY_TYPE
TREATMENT_ACREAGE	*	Numeric	Area treated
ASSESSMENT_COMPLETION_DATE	*	MM/DD/YYYY	Date assessment was created
SAPLINGS		No Yes	Select from drop-down menu whether saplings are present or not? Is this description accurate?
WETLAND_SITE	*	No Yes	Select from drop-down menu whether the site is a wetlands site. <i>Default= No</i>
GRID		Office post-processing after field collection	Based on state's grid allocation and office requirements; Post-processing in office after field operations. <i>Keeping?</i>
GEOGRAPHY	*	Parcel polygon or point	County polygon data or other data as available; Post-processing in office after field operations, as needed. <i>Keeping?</i>
CUSTOMER_NAME		Text	First and last name
CUSTOMER_ADDRESS		Text	Address of customer
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE	*		
QC_FIELD		Text	Initials of QC Reviewer
QC_COMMENTS		Text	Additional QC Comments
TREATMENT_COMMENTS		Text	General comment on treatment

One-to-Many
Relationship

POINT DATA - Attributes associated with a specific ground point where activities are conducted.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data - Treatment Areas SKP

PARCEL DATA - Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities.

One-to-Many
Relationship

Activity Data: Attributes associated with the work performed at the point			
Data Field Name	Req.	Value(s)	Description
TREATMENT_DATE		MM/DD/YYYY	Date of treatment
TREATMENT_METHOD		Bark Spray Hack-and-Squirt Foliar Spray Soil Drench Trunk Injection Stump Treatment Broadcast Mechanical Removal	Select from drop-down menu. Required if TREATMENT_DATE is not NULL.
TREATMENT_BY		Text	Name of people who treated. Required if TREATMENT_DATE is not NULL.
TREATMENT_AGENCY		USDA APHIS State Cooperator Private Cooperator Academic Institution Extension Office Joint Cooperator	Select from drop-down menu. Default= USDA-APHIS. Required if TREATMENT_DATE is not NULL.
CERTIFIED_APPLICATOR_NAME		Text	Name(s) of applicator(s)
CERTIFIED_APPLICATOR_#		Text	Number of certified applicator
ACTIVE_INGREDIENT		Dinotefuran Beta-cyfluthrin Bifenthrin Imidacloprid Beauveria bassiana Glyphosate Triclopyr Soybean Oil Omni Oil Mechanically Removed	Single select from drop down active ingredient in product applied. Required if TREATMENT_DATE is not NULL.
PRODUCT_NAME		Text	Name of product being applied.
PESTICIDE_BRAND_NAME		Text	Brand name of product being applied.
EPA_REGISTRATION_NUMBER		Text	EPA registration number of product.
CHEMICAL_FORMULATION		Text	Formulation of chemical applied
DOSAGE_OR_RATE		Text	Dosage or rate of chemical applied
PESTICIDE_AMOUNT		Numeric	Amount of pesticide applied
PESTICIDE_UNITS		Gallons (gal) Grams (g) Milliliters (ml) Ounces (oz)	Select from drop-down menu. Required if PESTICIDE_AMOUNT is not NULL.
START_TIME		MM/DD/YYYY HH:MM AM/PM	Time application was started
END_TIME		MM/DD/YYYY HH:MM AM/PM	Time application ended
CROP_OR_COMMODITY_TREATED		Text	Crop or commodity treated
DBH		Numeric	Diameter breast height of treated plant, in inches.
SAPLINGS		No Yes	Select from drop down menu.
ESTIMATED_#_OF_TREES		Numeric	Estimated number of trees treated in area. Required if TREATMENT_DATE is not NULL.
RESTRICTED_ENTRY_INTERVAL		Text	Amount of time needed before entry permitted
APPLICATION_METHOD		Text	Method of application
WIND_SPEED_AND_DIRECTION		Text	Wind speed and direction
TEMPERATURE		Text	Temperature in Fahrenheit
RELATIVE_HUMIDITY		Text	Percent relative humidity
SUBSITE_COMMENTS		Text	General comments on survey/assessment

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data - Treatment Areas SKP

Table 1	
PROPERTY_TYPE	
Agricultural Market	Maritime Port
Agricultural Property	Moving Company
Airport- Primary	Platform
Airport- Regional	Popular Destination
Boat Launch/Marina	Rail Yard/Intermodal
Bottling Plant	Residential Property
College/University	SWPM (Solid Wood Packing Material) Site
Distribution Center	Shipper/Mail Carrier
Green Industry (Agriculture)	Solid Waste
Industrial Facility	Truck Garage/ Auto Repair
Lumber Yard/Sawmill	Truck Stop/Rest Area
Major Road	Warehouse
Management Railroad Line	Other

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Addendum 1

Spotted Lanternfly Core Program Data -Treatment Points SKP

Program: Spotted Lanternfly

Survey Type: Treatment Points -States with Known Populations

Survey Situation: Treatment

State(s): Multi-state

Office(s): USDA/APHIS and State Cooperators

Target(s): *Lycorma delicatula*

Data Sharing System: APHIS GIS Portal

Data Sharing Frequency: Weekly*

Timelines: Current Day

**or within a reasonable time negotiated with the ADODR*

Parcel Data: Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities			
Data Field Name	Req.	Value(s)	Description
SITE_NAME	*	Text	Site Name or Locality Parcel ID (autogenerated)
TREATMENT_PLAN	*	Herbicide Insecticide Mechanical Removal Unassigned	Treatment plan that was defined for the parcel
ASSESSMENT_BY	*	Text	Name of person who created the assessment plan
ASSESSMENT_AGENCY	*	USDA APHIS [default] State Cooperator Private Cooperator Academic Institution Extension Office Joint Cooperator	Affiliation of surveyor entering data. Select from drop-down. Default= USDA APHIS
PROPERTY_TYPE		See Table 1	Single select site type from drop-down menu. Required if TREATMENT_DATE is not NULL.
PROPERTY_TYPE_OTHER		Text	Required if "Other" is selected for PROPERTY_TYPE
ASSESSMENT_COMPLETION_DATE	*	MM/DD/YYYY	Date assessment was created
SAPLINGS		No Yes	Select from drop-down menu whether saplings are present or not? Is this description accurate?
WETLAND_SITE	*	No Yes	Select from drop-down menu whether the site is a wetlands site. Default= No
GRID		Office post-processing after field collection	Based on state's grid allocation and office requirements; Post-processing in office after field operations. Keeping?
GEOGRAPHY	*	Parcel polygon or point	County polygon data or other data as available; Post-processing in office after field operations, as needed. Keeping?
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE	*		
SITE_COMMENTS		Text	General comment on area

One-to-Many Relationship

POINT DATA - Attributes associated with a specific ground point where activities are conducted.

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data -Treatment Points SKP

PARCEL DATA - Attributes associated with the place where USDA APHIS PPQ and Cooperators conduct plant safeguarding activities.

One-to-Many
Relationship

Point Data: Attributes associated with a specific ground point where activities are conducted

Data Field Name	Req.	Value(s)	Description
TREATMENT_DATE		MM/DD/YYYY	Date of treatment
TREATMENT_METHOD		Bark Spray Hack-and-Squirt Foliar Spray Soil Drench Trunk Injection Stump Treatment Broadcast Mechanical Removal	Select from drop-down menu. Required if TREATMENT_DATE is not NULL.
TREATMENT_BY		Text	Name of people who treated. Required if TREATMENT_DATE is not NULL.
TREATMENT_AGENCY		USDA APHIS State Cooperator Private Cooperator Academic Institution Extension Office Joint Cooperator	Select from drop-down menu. Default= USDA-APHIS. Required if TREATMENT_DATE is not NULL.
CERTIFIED_APPLICATOR_NAME		Text	Name(s) of applicator(s)
CERTIFIED_APPLICATOR_#		Text	Number of certified applicator
ACTIVE_INGREDIENT		Dinotefuran Beta-cyfluthrin Bifenthrin Imidacloprid Beauveria bassiana Glyphosate Triclopyr Soybean Oil Omni Oil Mechanically Removed	Single select from drop down active ingredient in product applied. Required if TREATMENT_DATE is not NULL.
PRODUCT_NAME		Text	Name of product being applied.
PESTICIDE_BRAND_NAME		Text	Brand name of product being applied.
EPA_REGISTRATION_NUMBER		Text	EPA registration number of product.
CHEMICAL_FORMULATION		Text	Formulation of chemical applied
DOSAGE_OR_RATE		Text	Dosage or rate of chemical applied
PESTICIDE_AMOUNT		Numeric	Amount of pesticide applied
PESTICIDE_UNITS		Gallons (gal) Grams (g) Milliliters (ml) Ounces (oz)	Select from drop-down menu. Required if PESTICIDE_AMOUNT is not NULL.
CROP_OR_COMMODITY_TREATED		Text	Crop or commodity treated
DBH	*	Numeric	Diameter breast height of treated plant, in inches.
RESTRICTED_ENTRY_INTERVAL		Text	Amount of time needed before entry permitted
APPLICATION_METHOD		Text	Method of application
WIND_SPEED_AND_DIRECTION		Text	Wind speed and direction
TEMPERATURE		Text	Temperature in Fahrenheit
RELATIVE_HUMIDITY		Text	Percent relative humidity
CUSTOMER_NAME		Text	First and last name
CUSTOMER_ADDRESS		Text	Address of customer
QC_FLAG			Maintained by GIS post processing
QC_STATUS			Maintained by GIS post processing
QC_FIELD		Text	Initials of QC Reviewer
QC_COMMENTS		Text	Additional QC Comments
LATITUDE	*	Decimal degree coordinates	WGS84 compatible value to six significant digits
LONGITUDE	*		
SUBSITE_COMMENTS		Text	General comments on survey/assessment

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*

Spotted Lanternfly Core Program Data -Treatment Points SKP

Table 1	
PROPERTY_TYPE	
Agricultural Market	Maritime Port
Agricultural Property	Moving Company
Airport- Primary	Platform
Airport- Regional	Popular Destination
Boat Launch/Marina	Rail Yard/Intermodal
Bottling Plant	Residential Property
College/University	SWPM (Solid Wood Packing Material) Site
Distribution Center	Shipper/Mail Carrier
Green Industry (Agriculture)	Solid Waste
Industrial Facility	Truck Garage/ Auto Repair
Lumber Yard/Sawmill	Truck Stop/Rest Area
Major Road	Warehouse
Management Railroad Line	Other*

*Note: Items with * are required for the program. Items that are not listed as required are highly recommended.*