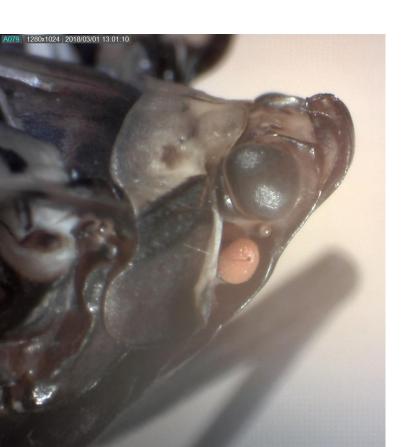
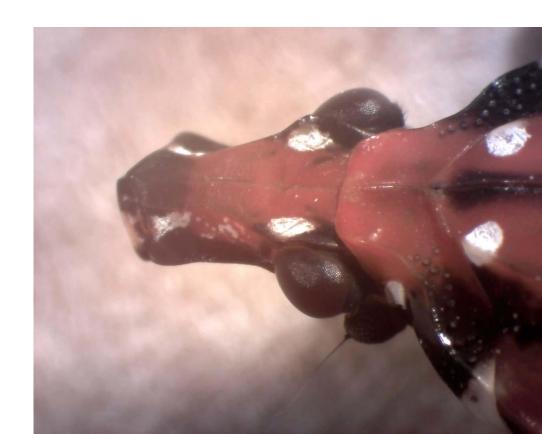
SLF in Virginia: Activity at Virginia Tech and VDACS





Virginia Tech Ffforts

- Mark Sutphin Extension Agent, Frederick
 - Assisting VDACS compile a landowner contact list for properties within the treatment area.
 - Scouting the perimeter
 - Education, Education
- Doug Pfeiffer
 - Phenology
 - Host range
 - Trapping methods
 - Education, Education
- Scott Salom, Rachel Brooks, Tom McAvoy, and Ashley Toland
 - Assessing whether SLF can vector Verticillium nonalfalfae
 - Attempting to rear this insect in quarantine.
- Tracy Leskey (USDA), Tom Kuhar, Scott Salom, and Andy Dechaine
 - Testing the suitability and preference of different hardwood species as hosts for SLF.
- Eric Day and Theresa Dellinger
 - Detection
 - Outreach
 - Extension publications
- Master Gardeners More later

Discovery in Virginia

- Presentations in anticipation!
 - Va Assoc Forest Health Prof. Jan 2017
 - SLF Preparedness Symposium Mar 2016
 - Fruit schools since 2015
- Jan 10 found at a stone yard in Winchester





Discovery in Virginia

- Meeting with VCE, VDACS, VDOF personnel in Frederick County
- Meeting with Rockingham County staff



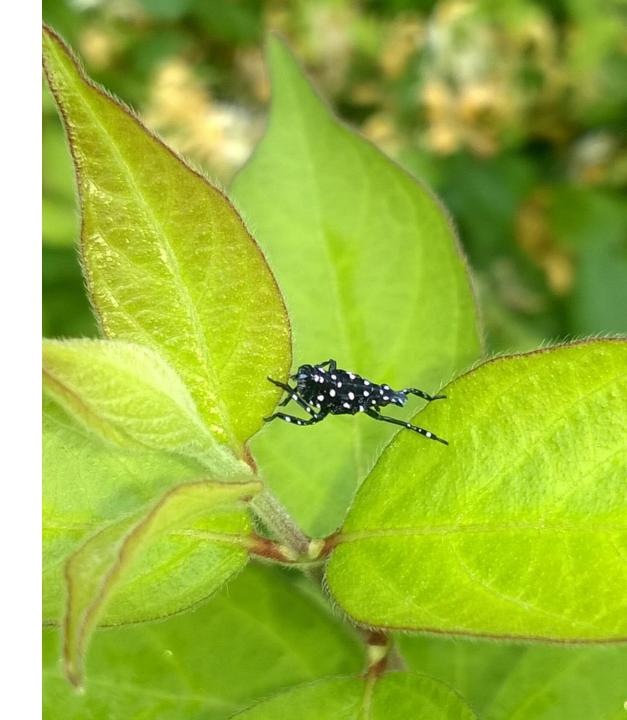
Host Range



Tree of heaven
Wild cherry
Multiflora rose
Poison ivy
Smooth sumac
Black locust
White pine
Wild grape
Table grape



Behavior



Phenology







Phenology

Instar/Stage	Predicted Date*	Observed Date	Body length (Korea) (mm)	Body Length (Virginia) (mm)
N1		9 May	3.91	3.81
N2	28 May	84% on 30 May	5.67	6.0
N3	18 Jun	75% on 13 Jun	8.88	9.1
N4	9 Jul	26 Jun	11.45	11.40
Adult	31 Jul	12 Jul		

^{*} Based on days/stadium in Park et al. (2009)

Risk of Range Expansion









Risk of Range Expansion







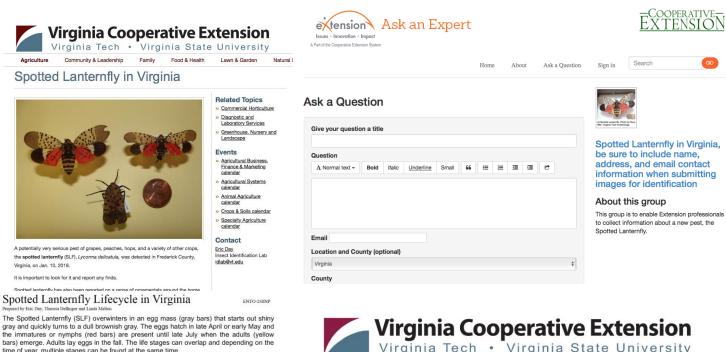




Existing Material:

https://ext.vt.edu/spotted-lanternfly

spottedlanternflyvirginia@gmail.com





Pest Alert:

Spotted Lanternfly Lycorma delicatula

The spotted lanternfly (SLF) was detected in Virginia in January 2018. It is an invasive planthopper that was discovered in Pennsylvania in 2014. In Pennsylvania and its native range, it is a pest of grapes, peaches, hops, and apples. It is commonly associated with tree-of-heaven, Ailanthus altissima. It has the potential to be a serious pest of agriculture and home gardens in Virginia.



EXTENSION

Adult Spotted Lanternfly, USDA photo



Spotted Lanternfly

Lycorma delicatula (White) (Hemiptera: Fulgoridae)

By: Douglas G. Pfeiffer, Eric R. Day and Phillip A. Sisti, Virginia Tech Entomology

Origin & Distribution: The spotted lanternfly (SLF) has been detected in Virginia in Frederick County in the northern part of the state in January of 2018. The SLF originates from China where its presence has been documented in detail dating as far back as the 12th century. In modern times, it was first recorded from a sample collected in Nankin, China. SLF is native to China, India, Japan, Korea, and Vietnam. In September 2014, the first detection of spotted lanternfly in the US was confirmed in eastern Pennsylvania. In 2017, the range expanded to 13 Pennsylvania counties and a single county in both Delaware and New York; the geographical range is likely to expand further. SLF is likely to have arrived from China up to two years earlier than first detected on shipping materials, pointing to its ability to overwinter successfully. It is highly invasive and can spread rapidly when introduced to new areas. This is attributed to its wide host range (more than 70 host plant species) and a lack of natural native

Description: The first stage nymph is wingless, black, and has white spots on the body and legs. The last nymphal instar develops red patches over the body while retaining the white-

Adult SLF are approximately 1" long and 1/4" wide. The legs and





Eric Day Doug Pfeiffer, Theresa Dellinger, Beth Sastre, Linda Melton



Eggs

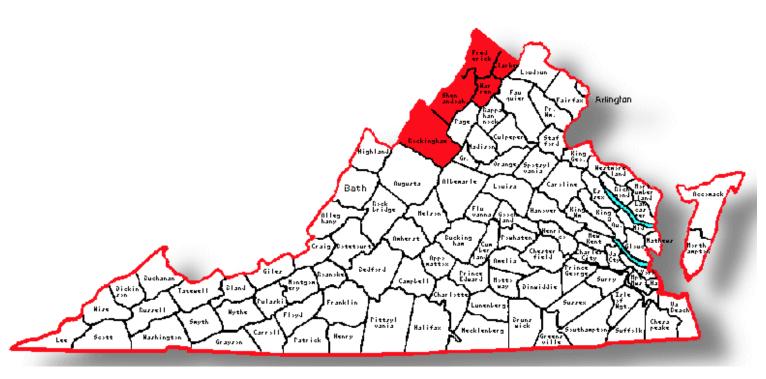
Adults

Phillip Sistre

Nymphs

Feb March April May June July Aug Sept. Oct Nov Dec

SLF PILOT DETECTION PROGRAM Master gardeners and Extension employees



- 20+ volunteers
- 5 counties
 - Frederick
 - Clarke
 - Warren
 - Shenandoah
 - (Rockingham)
- Landowners with tree-of-heaven

SLF PILOT DETECTION PROGRAM Master gardeners Training April 26





Pilot detection project Pilot Project Suzanne Boag, Mark Sutphin and Kris Behrends

- A group of about 20 volunteer banders from our area Extension Master Gardener volunteers. Scouting the five-county region to see if we pick up SLF anywhere else in the area.
- First year limited to Northern Virginia
- Will expand to other counties if needed
- Special thanks to the Northern Shenandoah Valley Master Gardeners Association
- Devon Johnson, Dave Close, John Freeborn

VDACS Eradication Program

- Also sampling to clarify zone
- Public information meeting
- 24 (c) for dinotefuran on Ailanthus
- Aim to cut and treat TOH in infestation zone
- Will start in about two weeks

VDACS Eradication Program

