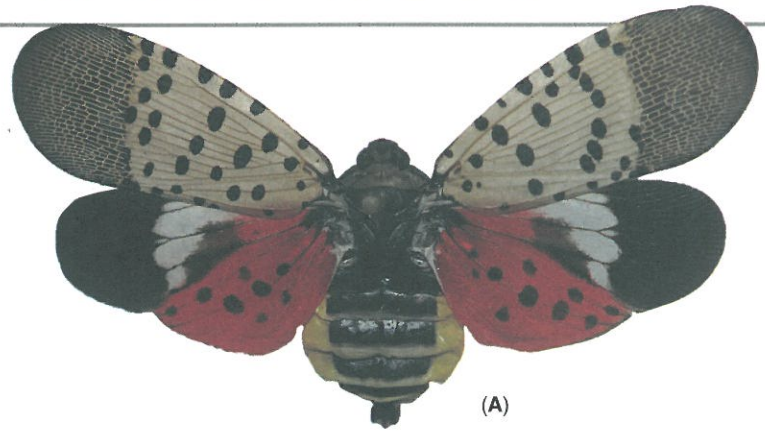
Pest Alert



Spotted Lanternfly

***Lycorma delicatula* (WHITE)**
(Hemiptera: Fulgoridae)

The Spotted Lanternfly, *Lycorma delicatula* (White), an invasive planthopper, has been discovered in Berks County, Pennsylvania. It is native to China, India, Vietnam, and introduced to Korea where it has become a major pest. This insect attacks many hosts including grapes, apples, stone fruits, and tree of heaven and has the potential to greatly impact the grape, fruit tree, and logging industries. Early detection is vital for the protection of Pennsylvania businesses and agriculture.

**Photos courtesy of Park et al. 2009, Biological Characteristics of Lycorma delicatula and the Control Effects of Some Insecticides.*

(A) Spotted Lanternfly showing the fore and hind wings (B) Resting against bark (C) Lateral view (D) Early nymphs (E) Late nymphs (F) Feeding on wild *Vitis* sp. (G) Weeping sap trail on tree (H) Egg mass covered in waxy coating (I) Old hatched egg mass on a trunk.

Identification:

The Spotted Lanternfly adult is approximately 1" long and 1/2" wide at rest. The forewing is grey with black spots and the wings tips are reticulated black blocks outlined in grey (A, B, C). The hind wings have contrasting patches of red and black with a white band (A). The legs and head are black; the abdomen is yellow with broad black bands. Immature stages are black with white spots, and develop red patches as they grow (D,E).

Hosts:

In the fall, adults congregate on tree of heaven (*Ailanthus altissima*) (F), willows (*Salix* sp.), and other trees, in groups of up to 20. Egg masses will be laid on medium to large trees, on trunk, branches, and limb bases. After hatching in the spring, nymphs will move off the tree and search out new hosts, including several kinds of agricultural crops. In Korea, it has been reported to attack 65 different species, 25+ of which are known to grow in Pennsylvania.

Signs and Symptoms:

Trees, such as tree of heaven and willow, will develop weeping wounds. These wounds will leave a greyish or black trail along the trunk (G). This sap will attract other insects to feed, notably wasps and ants. In late fall, adults will lay egg masses on host trees and nearby smooth surfaces like stone, outdoor furniture, vehicles, and structures. Newly laid egg masses have a grey mud-like covering which can take on a dry cracked appearance over time (H). Old egg masses appear as rows of 30-50 brownish seed-like deposits in 4-7 columns on the trunk, roughly an inch long (I).

What to do:

If you see egg masses, scrape them off, double bag them and throw them away. You can also place the eggs into alcohol or hand sanitizer to kill them. Please report all destroyed egg masses on our website listed below.

Collect a specimen: Specimens of any life stage can be turned in to the Pennsylvania Department of Agriculture's Entomology lab for verification. Directions for submission are on the reverse side of this alert.

Take a picture: A photograph of any life stage (including egg masses) can be submitted to Badbug@pa.gov.

Report a site: If you can't take a specimen or photograph, call the Automated Invasive Species Report Line at 1-866-253-7189 and leave a message detailing your sighting and contact information.

For up to date information, visit:
www.pda.state.pa.us/spottedlanternfly

By: Lawrence Barringer, Entomologist
Pennsylvania Department of Agriculture

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ENTOMOLOGY PROGRAM SAMPLE SUBMISSION FORM

The Entomology Program at the Pennsylvania Department of Agriculture can provide identification. Please complete this form to be submitted with the specimen(s).

SPECIMEN REQUIREMENTS:

1. All specimens should be dead.
2. Most specimens should be placed in 70-80% Ethyl or Isopropyl Alcohol in a leak proof vial.
   (Moths, Butterflies, and Mealy bugs should be frozen and placed in a hard plastic container with dry paper toweling)
3. The vial should be placed in a zipper style bag.
4. Specimens from different locations (if applicable) should be placed in different vials.
5. A completed sample submission form must accompany the vial/container.

REQUIRED INFORMATION:

Name of Submitter: _____

Contact Information: Telephone: _____ Email: _____

Address where specimen was collected: _____

_____

Date Collected: _____ Plant Host/Habitat: _____

Name of Person Who Collected Specimen: _____

Comments/Special Instruction: _____

_____

_____

Mail the vial/container and completed form, or deliver in person to:

Pennsylvania Department of Agriculture
Entomology - Room 111
2301 North Cameron Street
Harrisburg, PA 17110

Contact: Sven-Erik Spichiger at 717-772-5229 or Leo Donovall at 717-772-5225