# Spotted Lanternfly

#### A Overview by the Monmouth County Park System Matt Ruding, September 2021

#### <u>History</u>

- Discovered in Berks County in September 2014
- Estimated arrival in PA sometime in 2012
- Native to parts of Asia
- Recently introduced to South Korea









### Feeds in swarms





# **Excretes honeydew**

#### **Spotted Lanternfly** Feeds on more than 70 plants, including:



Grape



Staghorn

Sumac

Apple

Hops



Vegetables

Maple



Blueberry



Sycamore





Peach

**Black Walnut** 



#### What is at risk?

\$802 million in tree fruit

\$113 million in grapes

\$110 million in small fruit

\$2.6 billion in ornamental plants

Nationwide: over \$18 billion!

#### What is at risk?

Hardwood industry worth \$10s of billions

State and national parks

Shipping

Processing

Packaging

Other related services



#### **Spotted Lanternfly Infestations and Quarantine Areas (March 2021)**

For the latest quarantine information for a state, check the state's department of agriculture website



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**First to Third Instar:** April through July



July through September





Adults: July through December



Egg Laying: September through December

#### Swat or smash as many as you can!

Chip woody debris (1-inch chips)





Before moving equipment and supplies, inspect for insects and egg masses.





# Scrape and destroy egg masses.

# Egg Masses

Columns of eggs

30 – 50 eggs per mass

 Overall length: usually about an inch











Find the egg mass.



Find the egg masses.



Find the egg masses.

### Spotted Lanternfly Management

- Tree banding/ Circle
  Traps
- Trap tree method using tree-of-heaven
- Insecticides –
  Dinotefuran/Bifenthrin









**Spotted Lanternfly Management: Tree Banding** 

**Spotted lanternfly and tree-of-heaven** 

#### Spotted Lanternfly Management: Trap Tree Method



- **1.** Manage tree-of-heaven on the property.
- **2.** Treat tree-of heaven (the traps trees) with systemic pesticide.
- **3.** Spotted lanternfly feed on the trap trees and die.

#### Visit

https://extension.psu.edu/spottedlanternfly for information on identifying tree-of-heaven and using the trap tree method.





# Source Information

**Rutgers University** 

## Penn State University

## For additional information

https://www.nj.gov/agriculture/divisions/pi/prog/pestsdiseases/spotted-lanternfly/