

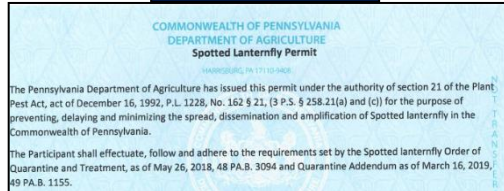
# Permitting & Regulation Update

## → For Businesses & Organizations:

### Do I need a permit?

- ✓ My business has vehicles that are used within or out of quarantine.
- ✓ My business moves products within or out of quarantine.

### Permit Sample



### Check if your business is permitted:

<http://www.depgreenport.state.pa.us/powerbiproxy/powerbi/Public/AG/PI/PBI/Spotted%20Lanternfly>

### How do I get a permit?

- ✓ Complete permit course online at: <https://extension.psu.edu/spotted-lanternfly-permit-training>
- ✓ In-person classes: [https://www.agriculture.pa.gov/Plants\\_Land\\_Water/PlantIndustry/Entomology/spotted\\_lanternfly/Permit%20Classes/Pages/default.aspx](https://www.agriculture.pa.gov/Plants_Land_Water/PlantIndustry/Entomology/spotted_lanternfly/Permit%20Classes/Pages/default.aspx)



### How do I comply once I have a permit?

- ✓ Train all employees to follow regulation.
- ✓ Keep a copy of the permit and an inspection log in every vehicle.
- ✓ Look before you leave!
- ✓ Stay updated with research and control measures at: [extension.psu.edu/spotted-lanternfly](https://extension.psu.edu/spotted-lanternfly)

## → For Homeowners:

- ✓ Report it if you find it at 1-888-4BAD-FLY
- ✓ Control it on your property following Penn State Extension resources such as the homeowner and traps guide pictured to the right.
- ✓ Keep a completed compliance checklist in your vehicle, pictured underneath.



### SPOTTED LANTERNFLY **Checklist for Residents**

**Help keep spotted lanternfly from spreading.** Before you travel or move any items stored outdoors within or out of the quarantine area, check for and remove all stages of spotted lanternfly. Use the guide below to know which items to check.

# Control Methods

## → Traps, Egg Scraping, & Squashing

### 1. Sticky Tape

- ✓ Wrap band about 4 feet up the tree tightly, securing with pushpins.
- ✓ Check bands every week.
- ✓ Fold tape in half or wrap chicken wire around the band to prevent bycatch like birds and bats.



Sticky Tape



Bycatch Wire

### 2. Egg Scraping

- ✓ Eggs are visible from September to May.
- ✓ Eggs with covering are smooth when laid and crack over time.
- ✓ Scrape eggs into a container with alcohol or step on them.



New Eggs



Old Eggs

Covered

Uncovered

### 3. Squashing

- ✓ Step on and kill spotted lanternflies of all stages.
- ✓ Report the location of the spotted lanternflies: <https://extension.psu.edu/have-you-seen-a-spotted-lanternfly>



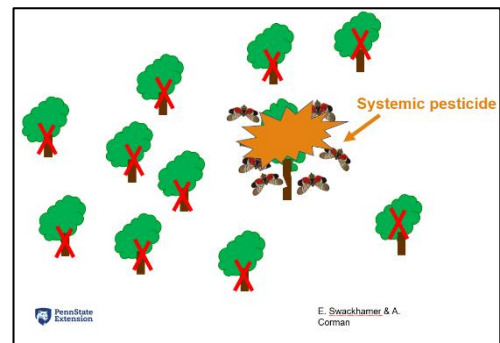
Nymphs



Adults

## → Trap Tree Method

- ✓ Use herbicide Triclopyr from June to September to kill 90% of *Ailanthus* using any of the control measures listed below.
- ✓ Keep only male trees and treat them with systemic insecticide Dinotefuran from July to September.
- ✓ Band trap trees to trap additional lanternflies.



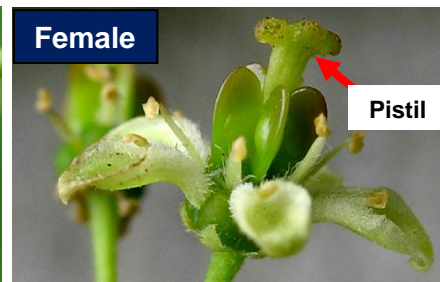
### Male vs Female *Ailanthus*

- ✓ When sexing for the Trap Tree method, look for presence of a pistil or a tree with seeds. This makes it female.

Male



Female



## → Non-Hazardous *Ailanthus* Control Options

### 1. Hack & Squirt

- ✓ Cost-effective option.
- ✓ Swing hatchet in at 45 degrees through bark.
- ✓ Spray Triclopyr directly into the sapwood.
- ✓ Number of hacks to kill *Ailanthus* depends on tree DBH.



### 2. Foliar Application

- ✓ Tree size must be small to be effective.
- ✓ Spray Triclopyr directly on foliage.
- ✓ Avoid spraying non-target trees.



### 3. Basal Bark Spray

- ✓ Tree size must be under 6 in. DBH to be effective.
- ✓ Spray oil-based Triclopyr 12-16 inches down the trunk just to wet the bark.



- ✓ All three treatments are most effective from June to September

## → Hazardous *Ailanthus* Control Options

### 1. Cut Stump & Apply Herbicide

- ✓ Herbicide must be applied at time of cut to stump to prevent root sucker growth.
- ✓ Recommended method after techniques such as basal bark spray, foliar application, and hack and squirt.
- ✓ Effective from June to Sept.



### 2. Disposal Options

1. Leave tree as is.
2. Chip log into 1 in x 1 inch pieces. Use as mulch after 3 weeks of composting.
3. Incinerate log following municipality ordinances.



## Images & Information Credit:

1. *Ailanthus* flowers
  - ❖ Available at:  
[https://keyserver.lucidcentral.org/weeds/data/media/Html/ailanthus\\_altissima.htm](https://keyserver.lucidcentral.org/weeds/data/media/Html/ailanthus_altissima.htm) ;  
<https://landscapeplants.oregonstate.edu/plants/ailanthus-altissima> ;  
[https://www.smmflowers.org/bloom/species/Ailanthus\\_altissima.htm](https://www.smmflowers.org/bloom/species/Ailanthus_altissima.htm)
2. Caged Wire over sticky tape
  - ❖ Available at:  
[extension.psu.edu/spotted-lanternfly](https://extension.psu.edu/spotted-lanternfly)
  - ❖ Available at:  
<https://news.psu.edu/story/578421/2019/06/19/impact/spotted-lanternfly-expert-penn-state-offers-advice-using-tree-bands>
3. Japanese Knotweed Foliar Spray Image, slide 16.
  - ❖ Available at  
<https://www.japaneseknotweed.london/herbicide-treatments/>
4. NC State Extension Image on Stump Herbicide, slide 18.
  - ❖ Available at :  
<https://content.ces.ncsu.edu/accompl>
5. [ishing-forest-stewardship-with-hand-applied-herbicides](#)  
Pennsylvania Department of Agriculture (PDA)
  - ❖ Information, spotted lanternfly images, and regulation available at:  
[agriculture.pa.gov/Plants\\_Land\\_Water/PlantIndustry/Entomology/SpottedLanternfly](http://agriculture.pa.gov/Plants_Land_Water/PlantIndustry/Entomology/SpottedLanternfly)
6. Penn State Extension:
  - ❖ Information, spotted lanternfly images, and factsheets available at:  
[extension.psu.edu/spotted-lanternfly](https://extension.psu.edu/spotted-lanternfly)
  - ❖ Foliar application image, slide 16, available at:  
<https://sites.psu.edu/transmissionlineecology/management-practices/>
  - ❖ Basal bark information, slide 17. Available at:  
<https://extension.psu.edu/using-basal-bark-herbicide-applications-to-control-understory-tree-species>
7. Zion Bogess' hack and squirt images on Hunt the Land
  - ❖ Available at:  
<http://www.huntingtheland.com/hack-and-squirt/>