

**Spotted
Lanternfly**
Permit Training
*Part 1: Invasion of
the Spotted
Lanternfly*



Spotted Lanternfly

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

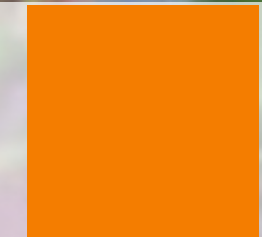






**Feeds on sap
from the
trunks, stems,
or leaves**

Does not bite or sting people



Feeds in swarms



Excretes honeydew



Honeydew and Sooty Mold

Spotted Lanternfly

Feeds on more than 70 plants, including:

Grape



Apple



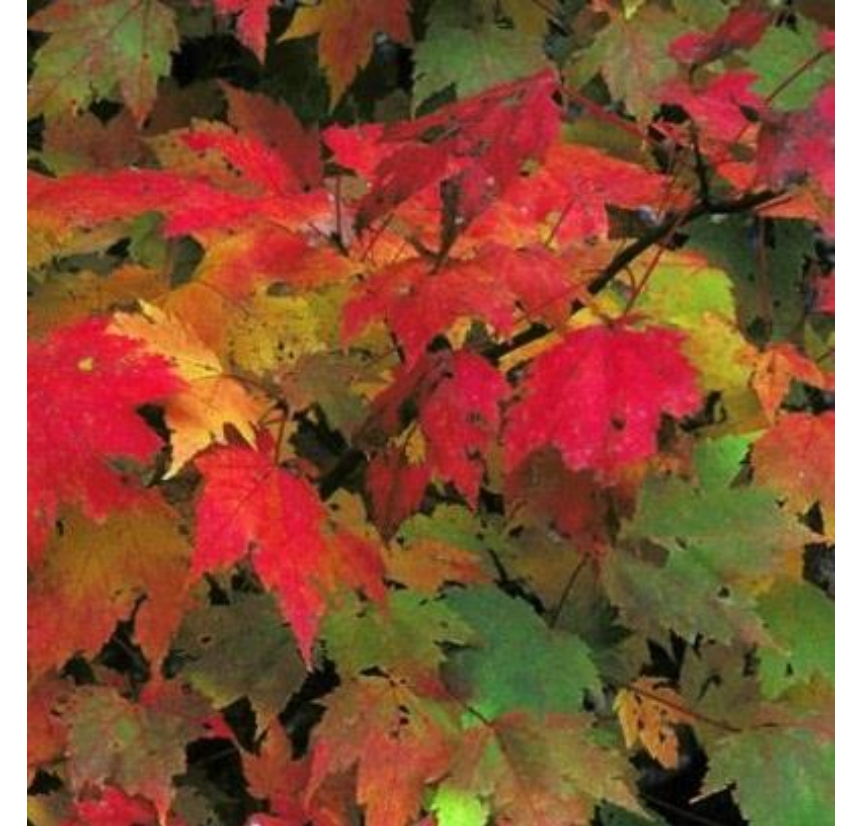
Peach



Black Walnut



Maple



Sycamore



Staghorn Sumac



Hops



Vegetables



Blueberry



What is at Risk for Pennsylvania?

5th largest producer of wine grapes

3rd largest producer of juice grapes

4th largest producer of apples

5th largest producer of peaches

Over 100 million dollars!

What is at Risk for Pennsylvania?

#1 exporter of hardwoods (\$19 billion annually)

3rd largest state park system

hops

vegetables

landscaping and nursery stock

related services

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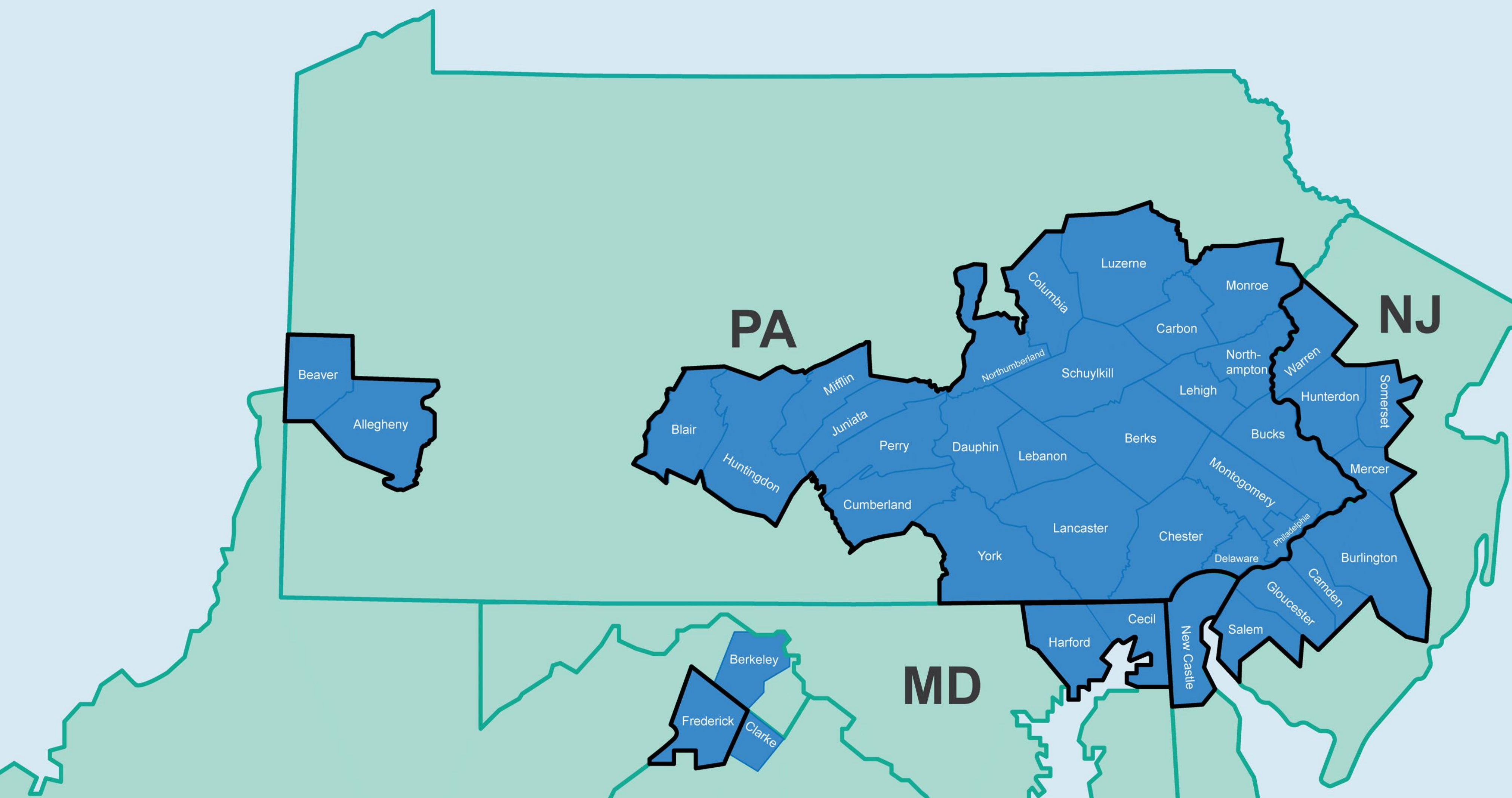
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**Spotted
Lanternfly**
Permit Training
*Part 2: Quarantine
Zones and the
Lifecycle*



Spotted Lanternfly Quarantine

- Slow the spread of spotted lanternfly
- Assure trading partners
- Give science and technology time to advance



Spotted Lanternfly Infestations and Quarantine Areas (March 2020)

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



What does the quarantine mean?

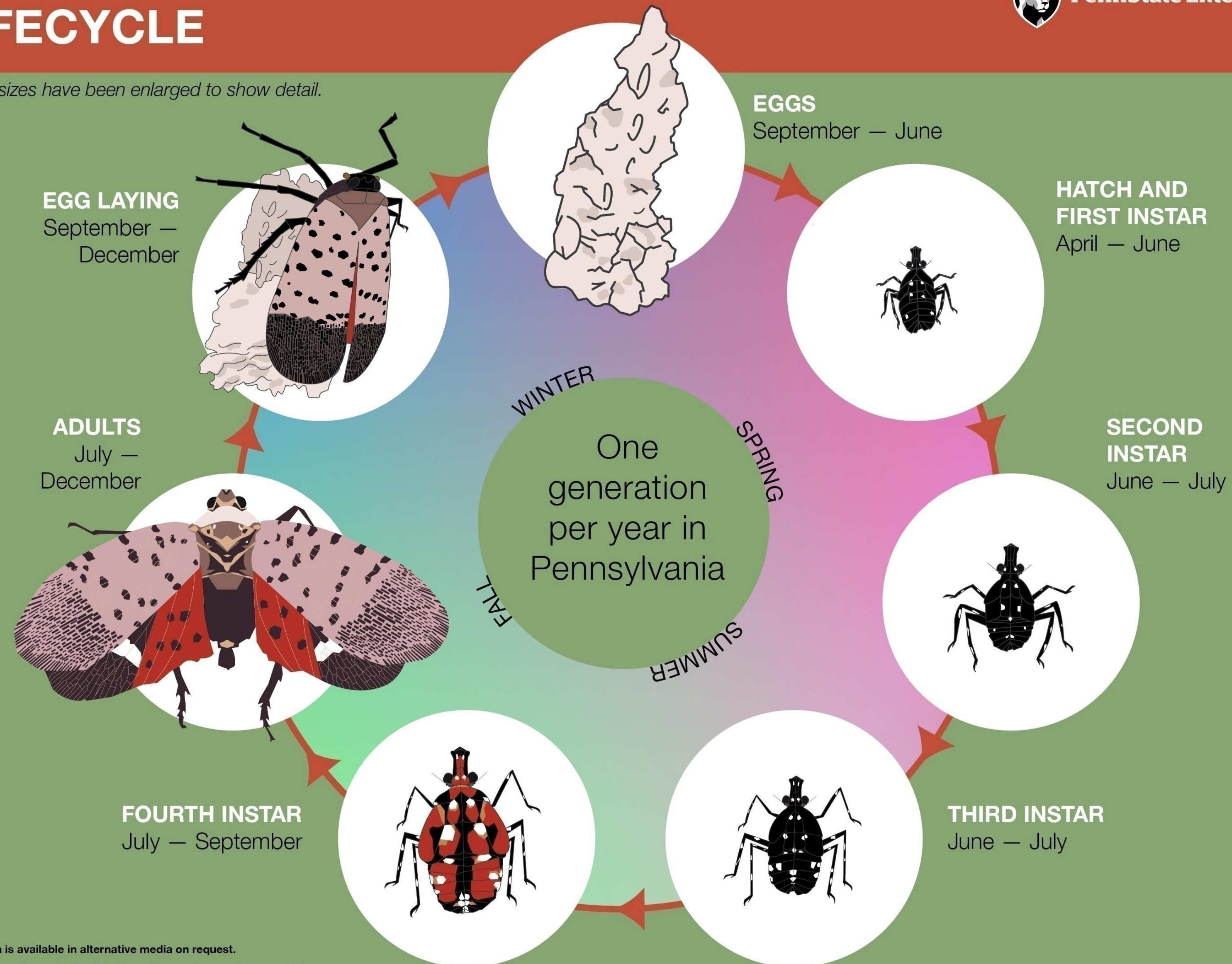
No one may intentionally move viable life stages of spotted lanternfly.

Residents and workers should inspect any items that may have the insects or egg masses before moving the items.

SPOTTED LANTERNFLY LIFECYCLE



Insect sizes have been enlarged to show detail.



This publication is available in alternative media on request.

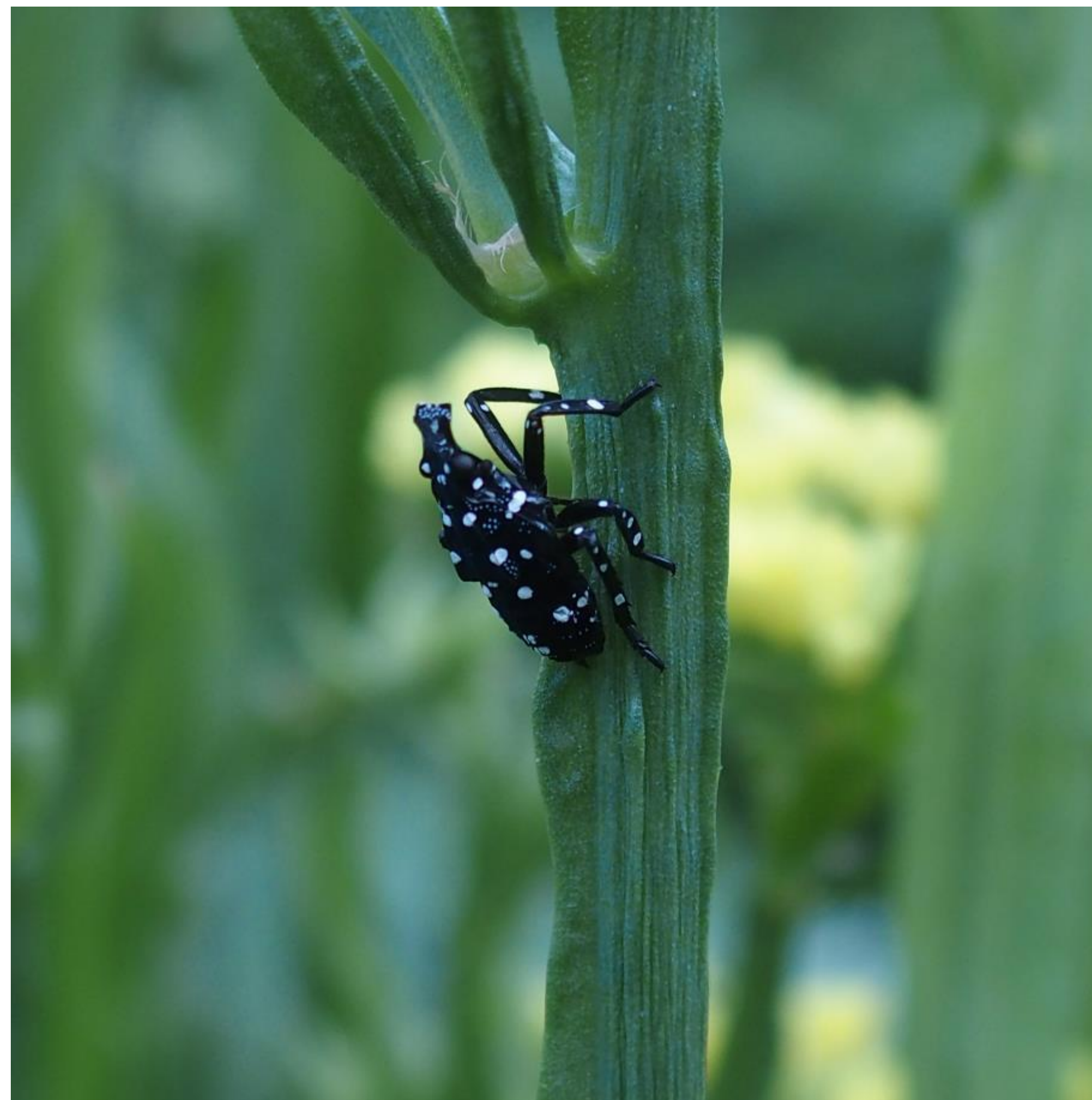
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Illustrations by Colleen Witkowski

Produced by Ag Communications and Marketing

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First to Third Instar:
April through July



Fourth Instar:
July through September



Adults:
July through December



Egg Laying:
September through December



Quarantine restrictions apply to:



- Brush, debris, bark, or yard waste
- Landscaping, remodeling, and construction waste
- Logs, stumps or any tree parts
- Firewood
- Packing materials like wood crates
- All plants and plant parts
- Outdoor items like grills, chairs, and tables
- Vehicles, trailers, and equipment not stored indoors
- Hardgoods (stone, tile, and decorative materials)
- ...and more!

Checklist for Residents Living in Spotted Lanternfly Quarantine Areas

IMPORTANT: Before you move outdoor items from the quarantine area, check for spotted lanternfly egg masses, adults, and nymphs. Make sure all items are pest free before you move them. Help keep this pest from spreading.

Check before you move

Recreational or Camping Items

- | | | |
|--|--|--------------------------------|
| <input type="checkbox"/> Backpacks | <input type="checkbox"/> Ice chests | <input type="checkbox"/> Tarps |
| <input type="checkbox"/> Basketball backboards | <input type="checkbox"/> Motorcycles | <input type="checkbox"/> Tents |
| <input type="checkbox"/> Bicycles | <input type="checkbox"/> Motor homes | <input type="checkbox"/> Other |
| <input type="checkbox"/> Boats/Boat trailers | <input type="checkbox"/> Recreational vehicles | |
| <input type="checkbox"/> Campers | <input type="checkbox"/> Snowmobiles | |

Outdoor Household Items

- | | | |
|--|---|---|
| <input type="checkbox"/> Barrels | <input type="checkbox"/> Propane or oil tanks | <input type="checkbox"/> Storm/Screen doors and windows |
| <input type="checkbox"/> Cardboard or wooden boxes | <input type="checkbox"/> Trash cans | <input type="checkbox"/> Window awnings |
| <input type="checkbox"/> Outdoor poles | <input type="checkbox"/> Refrigerators/Freezers | <input type="checkbox"/> Outdoor furniture |
| <input type="checkbox"/> Plant containers | <input type="checkbox"/> Storage sheds | <input type="checkbox"/> Other |
| <input type="checkbox"/> Firewood | <input type="checkbox"/> Shutters | |

Building Materials

- | | | |
|---|--|--|
| <input type="checkbox"/> Bricks/Cinder blocks | <input type="checkbox"/> Roofing materials | <input type="checkbox"/> Skidsters/Forklifts |
| <input type="checkbox"/> Cement mixing tubs | <input type="checkbox"/> Tools and toolboxes | <input type="checkbox"/> Pipes |
| <input type="checkbox"/> Lumber | <input type="checkbox"/> Workbenches | <input type="checkbox"/> Other |

Yard and Garden Items

- | | | |
|---|---|---|
| <input type="checkbox"/> Dog houses, rabbit sheds, chicken coops, etc | <input type="checkbox"/> Garden tillers | <input type="checkbox"/> Signs and posts |
| <input type="checkbox"/> Barbecue grills | <input type="checkbox"/> Yard decorations | <input type="checkbox"/> Storage sheds |
| <input type="checkbox"/> Carts | <input type="checkbox"/> Garden tools | <input type="checkbox"/> Tractors and trailers |
| <input type="checkbox"/> Cold frames | <input type="checkbox"/> Backhoes | <input type="checkbox"/> Trees, shrubs and plants |
| <input type="checkbox"/> Fencing | <input type="checkbox"/> Lawnmowers | <input type="checkbox"/> Other |

Children's Playthings

- | | | |
|---------------------------------------|---|--------------------------------|
| <input type="checkbox"/> Play houses | <input type="checkbox"/> Bicycles, scooters | <input type="checkbox"/> Other |
| <input type="checkbox"/> Kiddie pools | <input type="checkbox"/> Sandboxes | |

Checklist for Residents Living in Spotted Lanternfly Quarantine Areas

IMPORTANT: Before you move outdoor items from the quarantine area, check for spotted lanternfly egg masses, adults, and nymphs. Make sure all items are pest free before you move them. Help keep this pest from spreading.

If you find any of these life stages of the Spotted Lanternfly, remove, devitalize, place in a sealed bag, and dispose of bag in the garbage.



Adult Spotted Lanternfly, present in autumn months.



Spotted Lanternfly nymphs, present in spring and summer months. (Images from Park et al. 2009)

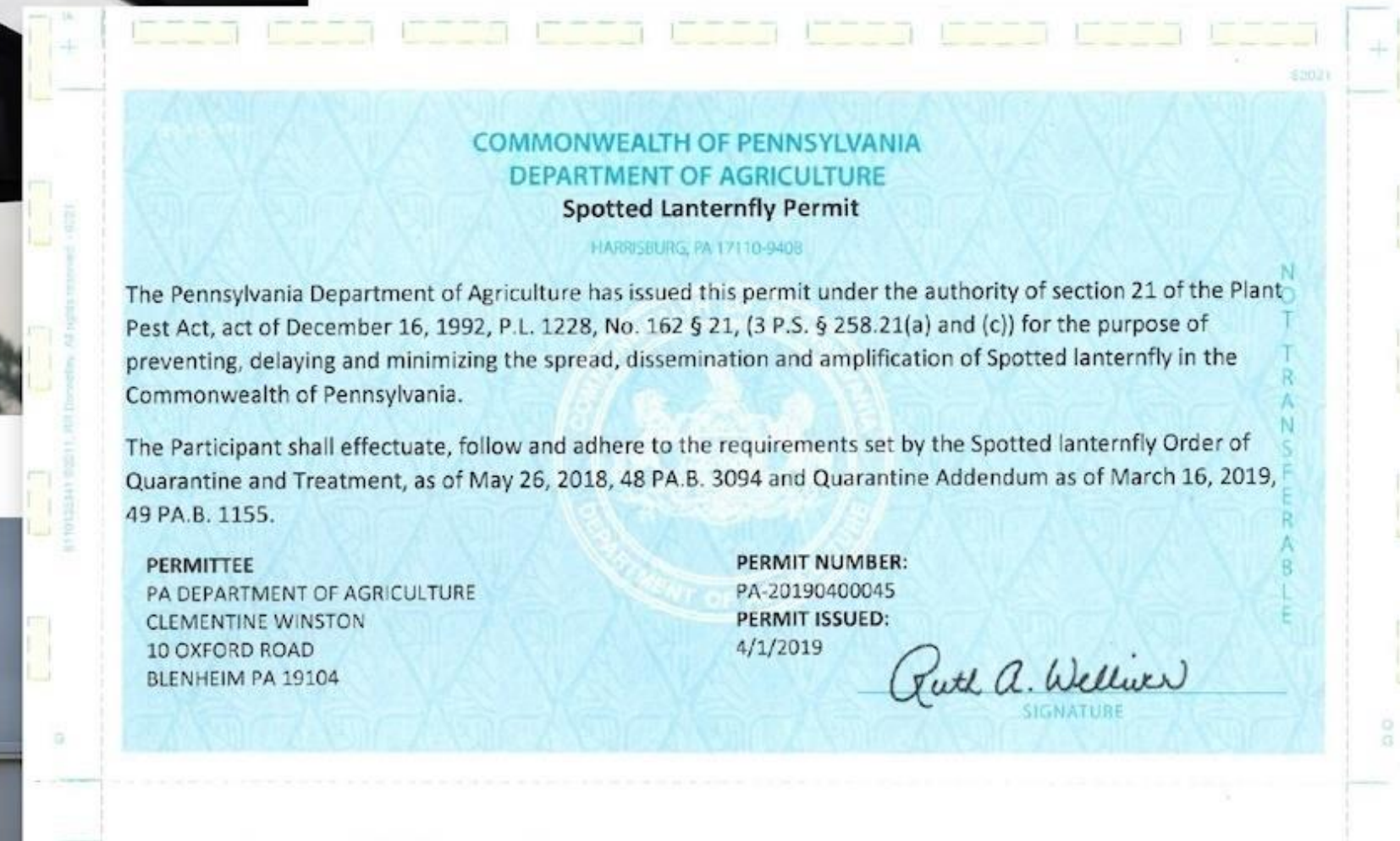
Fresh Spotted Lanternfly egg mass (outlined in red). Egg masses are present in autumn and winter months, blending in with their surroundings.



By signing this checklist, I am confirming that I have inspected my vehicle and those items I am moving from the Spotted Lanternfly quarantine area, and do not see any egg masses or insects in or on anything I am moving.

Signature _____ Address _____ Date _____

Please sign, date, and keep this checklist in your vehicle with you – use it each time you need it.



Spotted Lanternfly Permits

For businesses that move items within and out of a quarantine zone

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Permit Training
*Part 3: What You
Can Do*





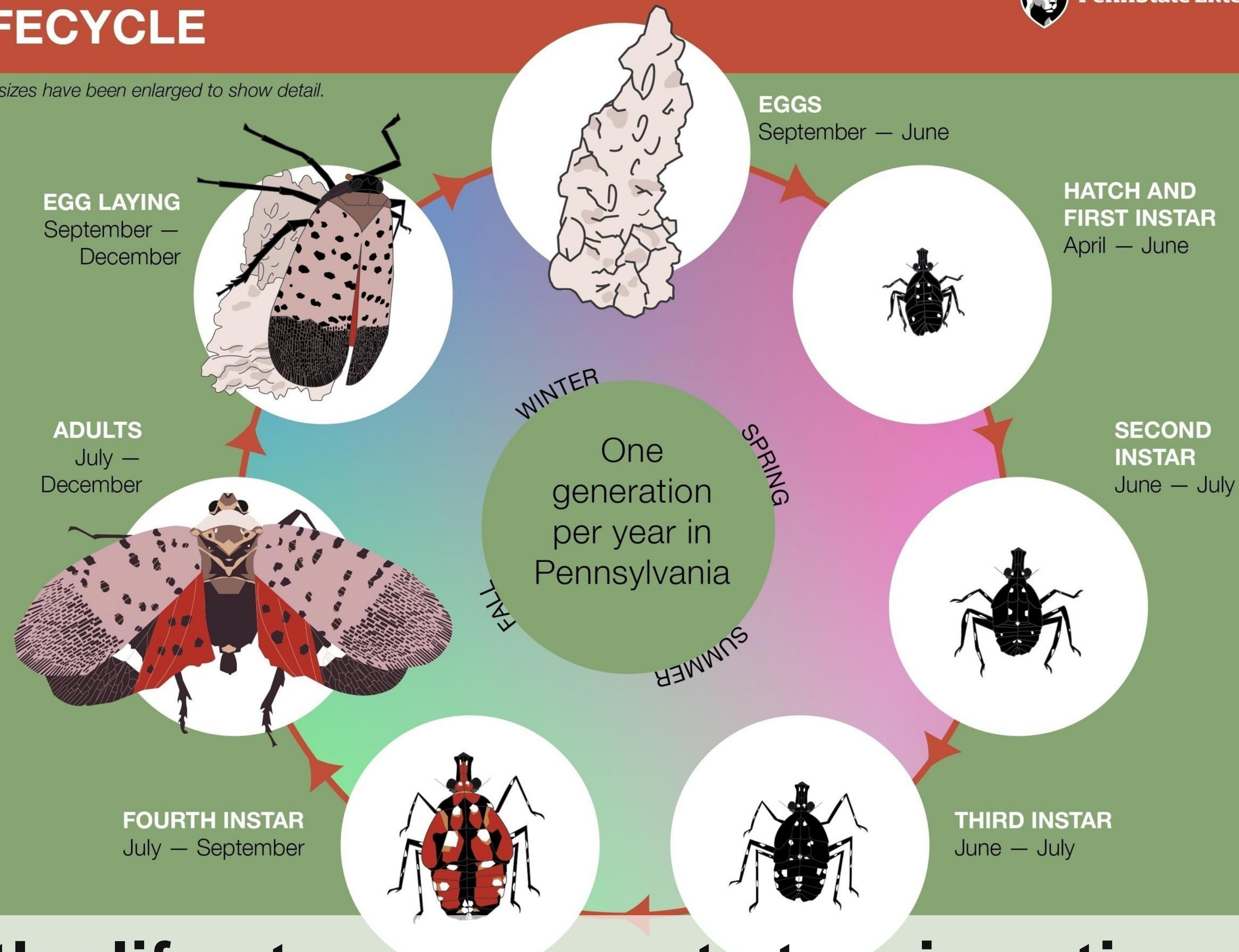
**Help stop the spread
of spotted lanternfly
by following
biosecurity best
practices.**



SPOTTED LANTERNFLY LIFECYCLE



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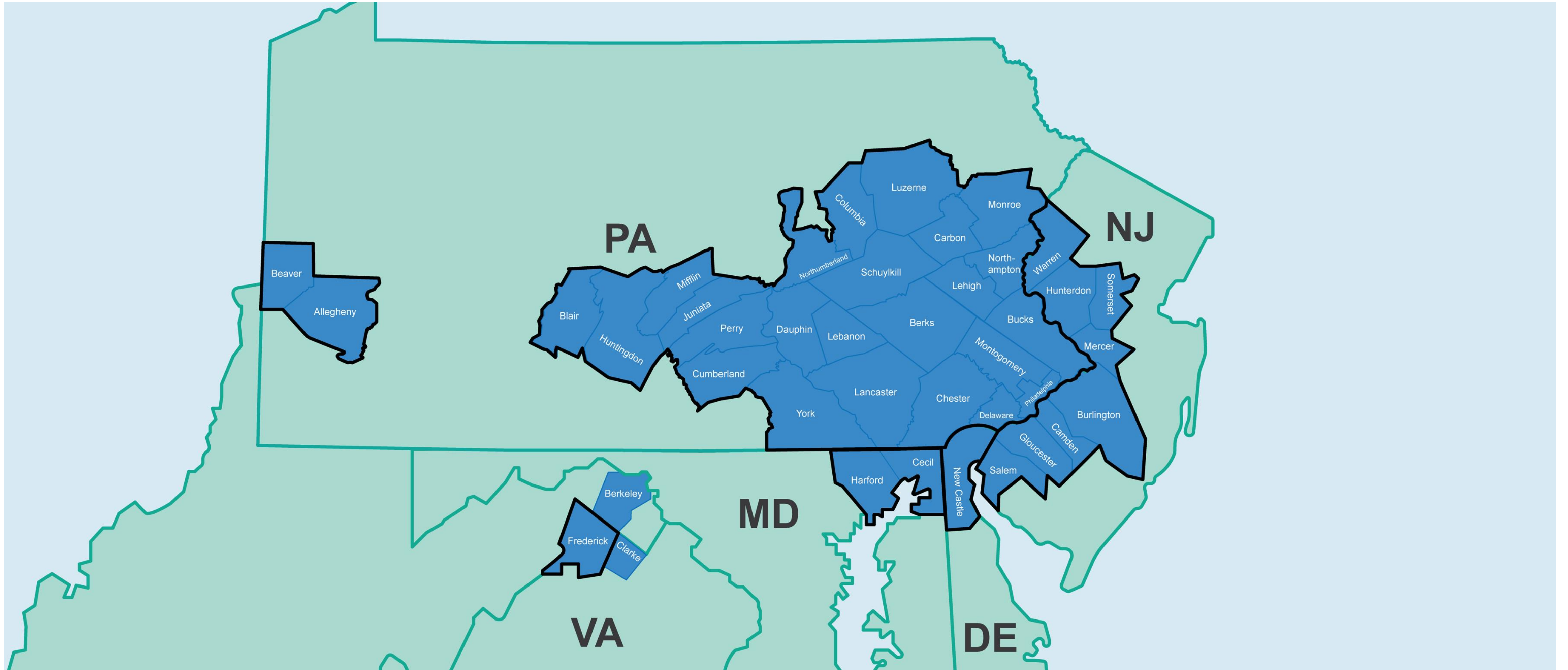


Be aware of the life stages present at a given time of the year.

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Illustrations by Colleen Witkowski

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Know when you are in an infested area.

Biosecurity Best Practices



Do **not** park under trees or tree lines.



Do **not** leave vehicles open.

If possible, store vehicles and equipment inside.

Biosecurity Best Practices



In heavily infested areas,
tuck pant legs into socks.



Make sure none are
resting on your person.



 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.



Report Sightings of Spotted Lanternfly

1. Take a photograph of it. If you can, use a smartphone or a camera with the GPS turned on so that we know the exact location.
2. If you can, capture it and put it in a container filled with alcohol to kill and preserve it, so that the sighting can be verified.
3. Refer to the following state websites for reporting instructions:

Pennsylvania: <https://extension.psu.edu/have-you-seen-a-spotted-lanternfly>
New Jersey: <https://www.nj.gov/agriculture/divisions/pi/prog/spottedlanternfly.html>
Maryland: <https://mda.maryland.gov/plants-pests/Pages/spotted-lantern-fly.aspx>
Delaware: <https://agriculture.delaware.gov/plant-industries/spotted-lanternfly/>
Virginia: <https://www.vdacs.virginia.gov/pdf/spotted-lanternfly-pest-alert.pdf>
New York: <https://www.agriculture.ny.gov/AD/release.asp?ReleaseID=3821>



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