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(SUSTAINMENT)
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INFORMATION BULLETIN ON SPOTTED LANTERNFLY (SLF)

25 November 2019

1. The intent of this bulletin is to provide current information about the spotted lanternfly (SLF) (*Lycorma delicatula*) and facilitate proactive communication among pest management and natural resource stakeholders, encouraging networking across installations currently or potentially impacted by this invasive insect to discuss surveillance and mitigation efforts, sharing best business practices.
2. The SLF is a highly invasive insect native from East Asia likely arriving in imported goods to the United States. First detected in Pennsylvania, this insect is rapidly spreading with detections occurring at military installations in the northeastern US and could easily be spread to the midwest, mid-Atlantic or Pacific northwest. For current distribution, see: <https://nysipm.cornell.edu/environment/invasive-species-exotic-pests/spotted-lanternfly/>.
3. Immatures and adult SLF's prefer to feed on the invasive tree of heaven (*Ailanthus altissima*) but also feed on a wide range of high value crops and plants, including grapes, apples, hops, walnuts and hardwood trees. The insects pierce plant tissue and suck sap, which can cause stunted growth, reduced yields and even plant death. They also leave behind a sugary, sticky excrement called honeydew that attracts other insects, has a foul odor, and promotes sooty mold growth, which is slippery and damages anything underneath and near the infestation. Figures 1 and 2 show the SLF life cycle and adult photo, respectively.
4. Spotted lanternfly is an easily transported hitchhiking pest where adults and nymphs readily cling to clothing, cargo, automobiles, etc. in and near infested areas and have cryptic, well camouflaged overwintering eggs deposited on most surfaces, including landscaping, vehicles, cargo, household goods, construction material, etc.
5. Per DoDI 4150.07, "DoD Pest Management Program," Components shall comply with regulations, including Executive Orders 13112 and 13751, requiring Federal agencies, subject to availability of appropriations, to use relevant programs and authorities to prevent the introduction of invasive species and detect and respond rapidly to and control populations of such species using IPM techniques.
6. Early detection and rapid response (EDRR) is critical. SLF detection and control requires cooperation between multiple installation stakeholders to include pest management, natural resources, ground maintenance, public affairs, logistics, and operations. Integrated pest management efforts for SLF may include any or all of the following: surveys, egg mass scraping, sanitation, tree removal, herbicide applications, and applications of insecticides. In many cases, and depending on regional priorities, supplemental resources may be available from the state or USDA APHIS.

7. There are a growing number of continually updated SLF resources including distribution, best management practices, and quarantine references available from Federal, State and academic sources.
8. While DoD is not required to follow specific state quarantine regulations, it is recommended that installations follow the "spirit" of these quarantines to reduce the risk of spread.
9. Please contact the AFPMB Environmental Biologist, Dr. Doug Burkett at douglas.a.burkett.civ@mail.mil or (301) 295-8304 for further information and questions.

Resources

Federal

United States Department of Agriculture (USDA)

Animal and Plant Health Inspection Service: <https://www.aphis.usda.gov/aphis/resources/pests-diseases/hungry-pests/the-threat/spotted-lanternfly/spotted-lanternfly>

https://www.aphis.usda.gov/aphis/ourfocus/planthealth/plant-pest-and-disease-programs/pests-and-diseases/sa_insects/slf

USDA-APHIS Environmental Assessments:

https://www.aphis.usda.gov/aphis/ourfocus/planthealth/plant-pest-and-disease-programs/sa_environmental_assessments/ct_slf

National Invasive Species Information Center:

<https://www.invasivespeciesinfo.gov/profile/spotted-lanternfly>

Northeastern Integrated Pest Management Center: <https://www.northeastipm.org/working-groups/spotted-lanternfly/>

State

Connecticut

Connecticut Department of Energy and Environmental Protection:

https://www.ct.gov/deep/cwp/view.asp?a=2697&q=608416&deepNav_GID=1631

Delaware

Delaware Department of Agriculture: <https://agriculture.delaware.gov/plant-industries/spotted-lanternfly/>

Illinois

Illinois Department of Agriculture:

<https://www2.illinois.gov/sites/agr/Insects/Pests/Pages/Spotted-Lanternfly.aspx>

Indiana

Indiana Department of Natural Resources: <https://www.in.gov/dnr/entomolo/>

Kentucky

Office of the State Entomologist:

http://www.uky.edu/Ag/NurseryInspection/pests/spotted_lanternfly_info.html

Maryland

Maryland Department of Agriculture: <https://mda.maryland.gov/plants-pests/pages/spotted-lantern-fly.aspx>

Massachusetts

Massachusetts Department of Natural Resources:

<https://massnrc.org/pests/pestFAQsheets/spottedlanternfly.html>

Michigan

Michigan Department of Natural Resources: https://www.michigan.gov/dnr/0,4570,7-350-79136_79237_81077-476236--,00.html

Minnesota

Minnesota Department of Agriculture: <https://www.mda.state.mn.us/plants-insects/spotted-lanternfly>

New Jersey

New Jersey Department of Agriculture:

<https://www.nj.gov/agriculture/divisions/pi/prog/spottedlanternfly.html>

New York

New York Department of Environmental Conservation:

<http://www.dec.ny.gov/animals/113303.html>

Pennsylvania

Pennsylvania Department of Agriculture:

https://www.agriculture.pa.gov/Plants_Land_Water/PlantIndustry/Entomology/spotted_lanternfly/Pages/default.aspx

Virginia

Virginia Department of Agriculture and Consumer Services:

<https://www.vdacs.virginia.gov/plant-industry-services.shtml>

West Virginia

West Virginia Department of Agriculture:

https://agriculture.wv.gov/divisions/plantindustries/Documents/New%20Docs/spotted_lanternfly%201.pdf

Academia

Cornell University: <https://nysipm.cornell.edu/environment/invasive-species-exotic-pests/spotted-lanternfly/>

Pennsylvania State University Extension: <https://extension.psu.edu/spotted-lanternfly>

University of Florida Extension:

http://entnemdept.ufl.edu/creatures/ORN/TREES/spotted_lanternfly.html

University of Maryland Extension: <https://extension.umd.edu/hgic/topics/spotted-lanternfly>

University of Missouri: <https://ipm.missouri.edu/MEG/2018/6/spottedLanternFly/>

Ohio State University Extension: <https://cfaes.osu.edu/news/articles/spotted-lanternfly-settling-in-little-too-close>

Virginia Cooperative Extension: <https://ext.vt.edu/agriculture/commercial-horticulture/spotted-lanternfly.html>

West Virginia University Extension: <https://extension.wvu.edu/lawn-gardening-pests/pests/spotted-lanternfly>

Other

Entomology Society of America: <https://entomologytoday.org/2019/10/03/invasive-spotted-lanternfly-large-potential-range-united-states-beyond/>

Media

Pittsburg Post-Gazette: <https://www.post-gazette.com/life/outdoors/2019/10/06/spotted-lanternfly-Pennsylvania-Penn-State-Extension/stories/201910060043>

Baltimore Sun: <https://www.baltimoresun.com/news/environment/bs-md-spotted-lanternfly-20191028-20191028-sfyiwyn42zfebn6ays77qypc4-story.html>

PennLive: <https://www.pennlive.com/life/2019/10/where-will-the-spotted-lanternfly-strike-next.html>

DrexelNow: <https://drexel.edu/now/archive/2019/October/Spotted-Lanternflies-at-Drexel/>

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United States Department of Agriculture

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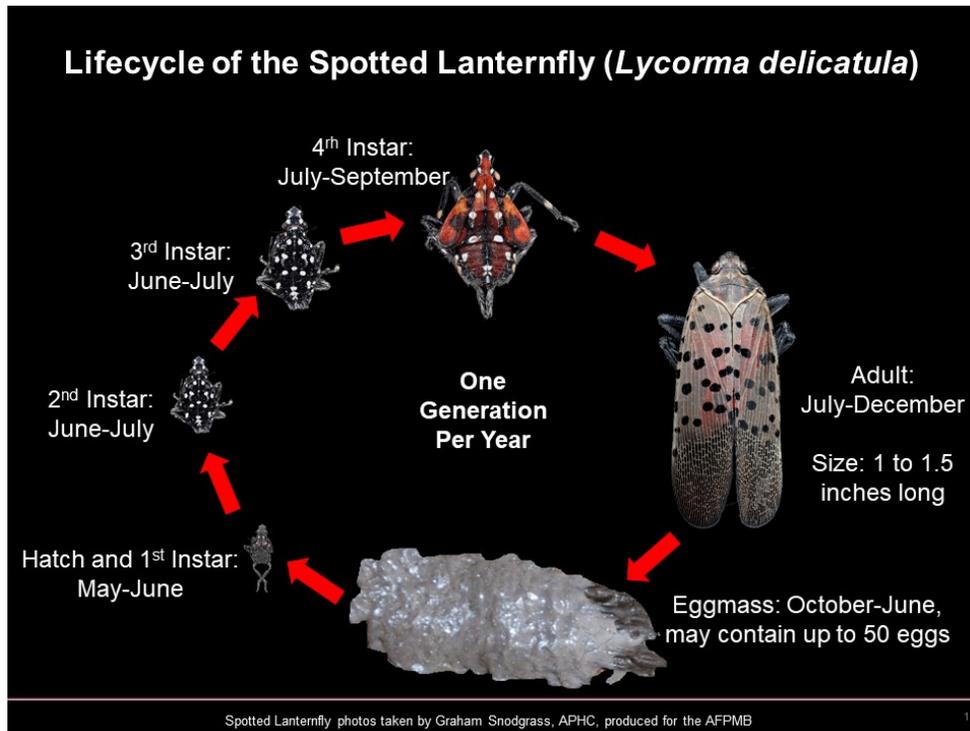


Figure 1. Spotted lanternfly lifecycle. G. Snodgrass



Figure 2. Spotted lanternfly adult measures about one inch. DA Burkett