



NCDA&CS

Plant Industry Division Plant Protection Section

PEST WATCH

Spotted Lanternfly

Lycorma delicatula (White)
(Hemiptera: Fulgoridae)



Spotted lanternfly, *Lycorma delicatula* (White), is an invasive planthopper that was first detected in the United States in Berks County, Pennsylvania, in 2014. The pest is native to northern China and was introduced to Korea in 2004 where it has become a major pest. This pest is not known to occur in North Carolina but early detection is critical for protecting North Carolina businesses and agriculture.



a) Spotted lanternfly adult (photo by Lawrence Barringer, Pennsylvania Dept. of Agriculture); b) Spotted lanternfly egg mass (photo by Pennsylvania Dept. of Agriculture); c) Spotted lanternfly eggs after hatching (photo by Kenneth R. Law, USDA-APHIS-PPQ); d) Late stage spotted lanternfly nymph with early stage nymph in inset (photos by Lawrence Barringer, Pennsylvania Dept. of Agriculture); e) Spotted lanternfly adults on *Ailanthus* with damage to tree evident in weeping wounds (photo by Emelie Swackhamer, PennState Extension)

HOSTS:

This insect is a known pest of grapes, stone fruits, apples, maples, oaks, willows (*Salix* sp.), and tree of heaven (TOH; *Ailanthus altissima*). The known host list contains over 70 species of plant. TOH appears to be the preferred host for late stage instars and adults.

IDENTIFICATION:

Adults of spotted lanternfly are approximately 1" long and 0.5" wide at rest. Their forewings are light gray with black spots with wing tips patterned with lines of small black blocks. The hindwings are red and black with a white band. Their bodies are yellow with black bands down the middle. The immature stages are black with white spots which develop into red and black with white spots in the later stages.

SIGNS AND SYMPTOMS:

This pest damages trees causing them to develop weeping wounds that leave a gray or black trail of sap down the trunk. This sap attracts other insects, such as wasps and ants, and can lead to the formation of fungal mats at the base of trees. In late fall, adults will lay egg masses on host trees and other smooth surfaces like outdoor furniture and equipment. These egg masses have a gray, mud-like appearance.

WHAT TO DO:

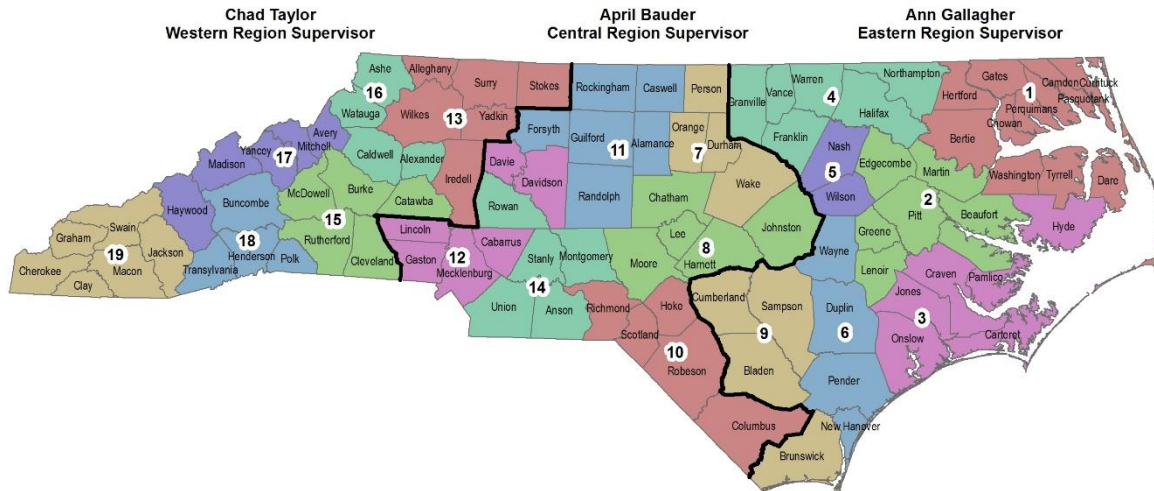
Collect a specimen. If you suspect you have found spotted lanternfly please collect a specimen and contact your local plant pest specialist (see contact information on back) who will assist you with specimen submission.

Take a picture: If you aren't sure if what you're looking at is spotted lanternfly you can submit a photograph of any life stage to badbug@ncagr.gov with the subject "Suspected Spotted Lanternfly".

Report a find: Contact your local plant pest specialist (contact information on back) or report your find to 800-206-9333 or badbug@ncagr.gov.

Note: Most of the information gathered for this Pest Watch was obtained from the Pennsylvania Department of Agriculture. Currently, 14 counties in Pennsylvania and portions of Delaware and New Jersey have been placed under quarantine for spotted lanternfly and as of May 2019 the pest has been intercepted in CT, DE, MD, MA, NJ, NY, and VA.

NC Department of Agriculture & Consumer Services
Plant Industry Division – Plant Protection Section
Plant Pest Specialist Work Areas



Specialist's Names, Contact Information and Assigned Areas

Area 1:	Bertie, Camden, Chowan, Currituck, Dare, Gates, Hertford, Pasquotank, Perquimans, Tyrrell, Washington	Joe Davenport	(919) 608-0635
Area 2:	Beaufort, Edgecombe, Greene, Lenoir, Martin, Pitt	Bonnie Faulkner	(252) 521-3180
Area 3:	Carteret, Craven, Hyde, Jones, Onslow, Pamlico	David Pearce	(252) 670-1742
Area 4:	Franklin, Granville, Halifax, Northampton, Vance, Warren	Derreck Long	(252) 567-1247
Area 5:	Nash, Wilson	Ann Gallagher	(919) 218-1765
Area 6:	Duplin, New Hanover, Pender, Wayne	Scott Cannady	(919) 270-4910
Area 7:	Durham, Orange, Person, Wake	April Bauder	(919) 777-3251
Area 8:	Chatham, Harnett, Johnston, Lee, Moore	Mike Massey	(919) 218-8654
Area 9:	Bladen, Brunswick, Cumberland, Sampson	Jensen McLamb	(910) 638-4943
Area 10:	Columbus, Hoke, Richmond, Robeson, Scotland	Michelle Shooter	(910) 734-3477
Area 11:	Alamance, Caswell, Forsyth, Guilford, Randolph, Rockingham	Andrew Allen	(336) 404-5873
Area 12:	Cabarrus, Davidson, Davie, Gaston, Mecklenburg, Lincoln	Heidi Humlicek	(406) 750-6432
Area 13:	Alleghany, Iredell, Stokes, Surry, Wilkes, Yadkin	Ginger Hemmings	(336) 314-9334
Area 14:	Anson, Montgomery, Rowan, Stanly, Union	Samuel Harris	(919) 604-3896
Area 15:	Burke, Catawba, Cleveland, McDowell, Rutherford	Amanda Cook	(828) 443-1289
Area 16:	Alexander, Ashe, Caldwell, Watauga	Chad Taylor	(336) 466-0478
Area 17:	Avery, Madison, Mitchell, Yancey	Tim Hartley	(828) 260-0588
Area 18:	Buncombe, Henderson, Polk, Transylvania	Sue Dial	(828) 577-0915
Area 19:	Cherokee, Clay, Graham, Haywood, Jackson, Macon, Swain	Ryan Holquist	(828) 421-5445

Mailing Address: 1060 Mail Service Center, Raleigh NC 27699-1060

Physical Address: 216 West Jones Street, Raleigh NC 27603

Phone: (919) 707-3730 | Fax: (919) 733-1041

Please visit our website at www.ncagr.gov/plantindustry for more information!