

Forest Health Highlights

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Forest Health Specialist - East

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Emerald Ash Borer

- Wood-boring insect
- Native to Asia
- Attacks all ash species including white fringetree
- 2002 First found in US in SE Michigan.
 - Most likely arrived in early 90's in wood crating or pallets.
- 2013 First found in NC, Granville County.

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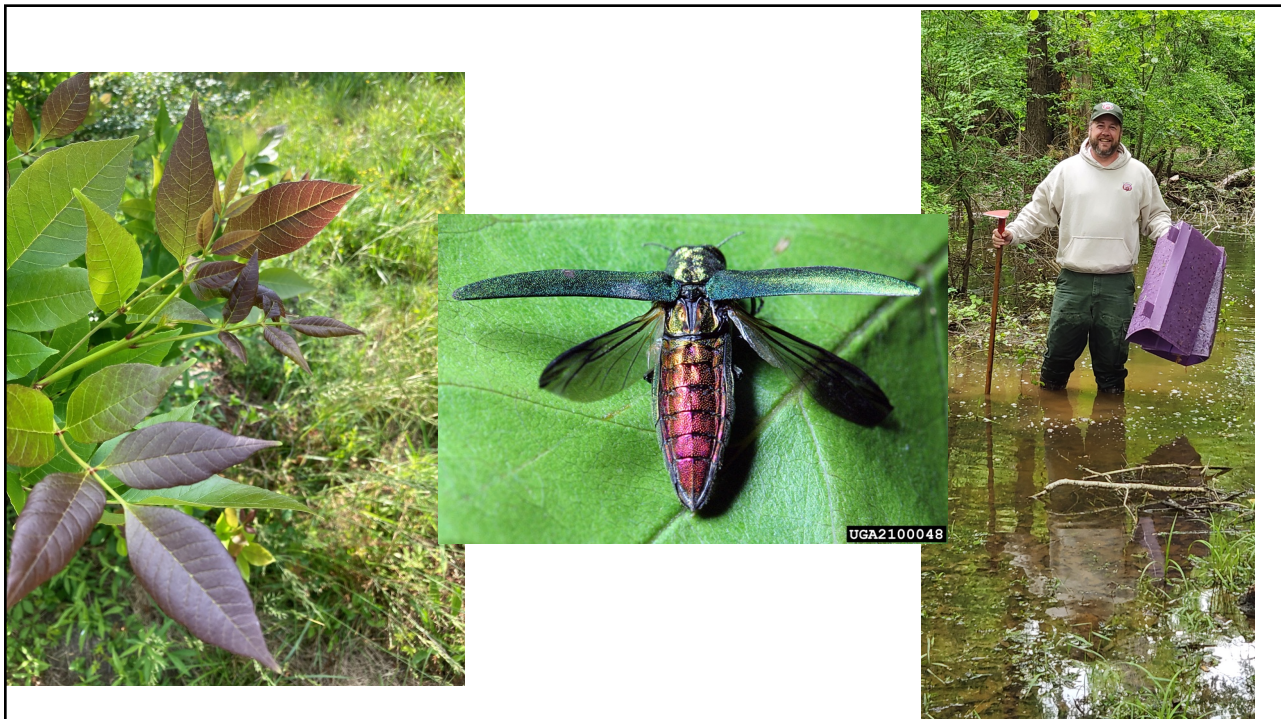
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EAB Trapping

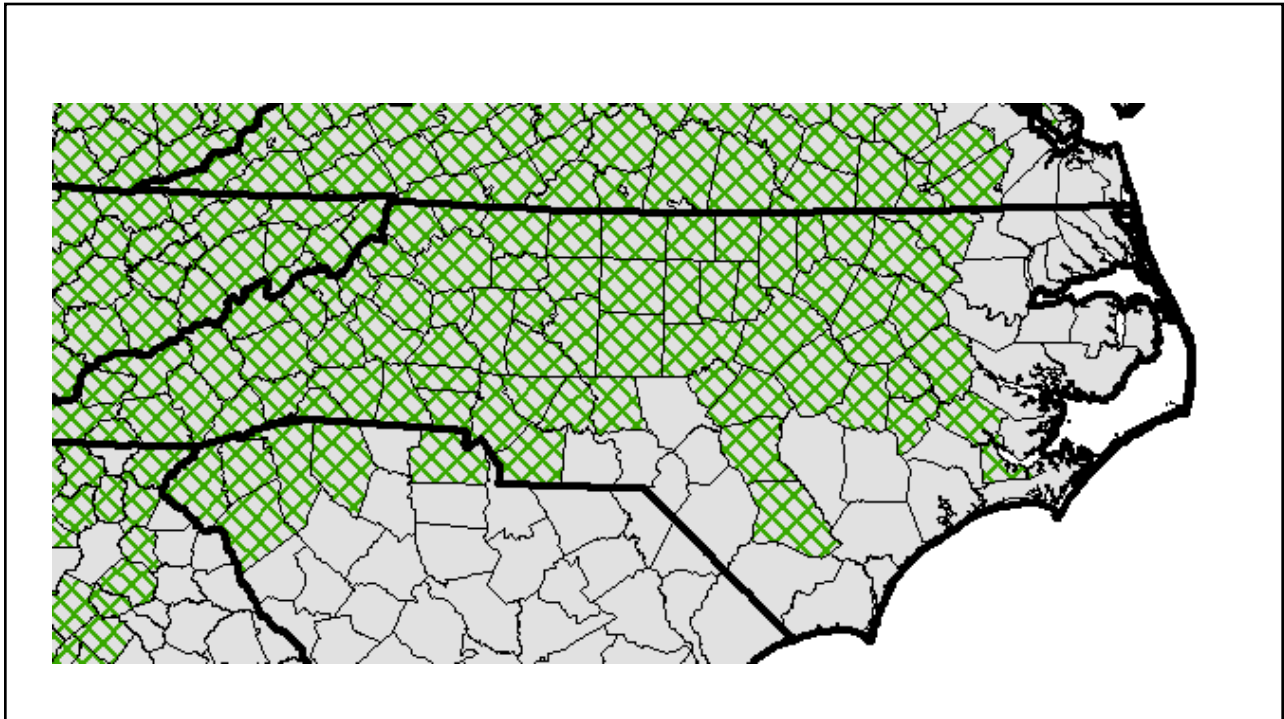
- Purple Prism Traps
- “Suspect” trees or areas
- Deploy to coincide with adult emergence

- 14 traps in 7 counties (2023)
- New Positives are Lee, Craven & Cumberland (2023)
- 70 Positive counties

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Laurel Wilt

- Disease vectored by redbay ambrosia beetle
- Native to Asia
- First found in Savannah in 2002
 - Most likely arrived in wood crating or pallets.
- First found in NC in 2011
- Attacks and kills healthy trees

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Laurel Wilt

- NC Susceptible Trees
 - Redbay
 - Sassafrass
 - Spicebush
 - Pondberry (federally endangered species)

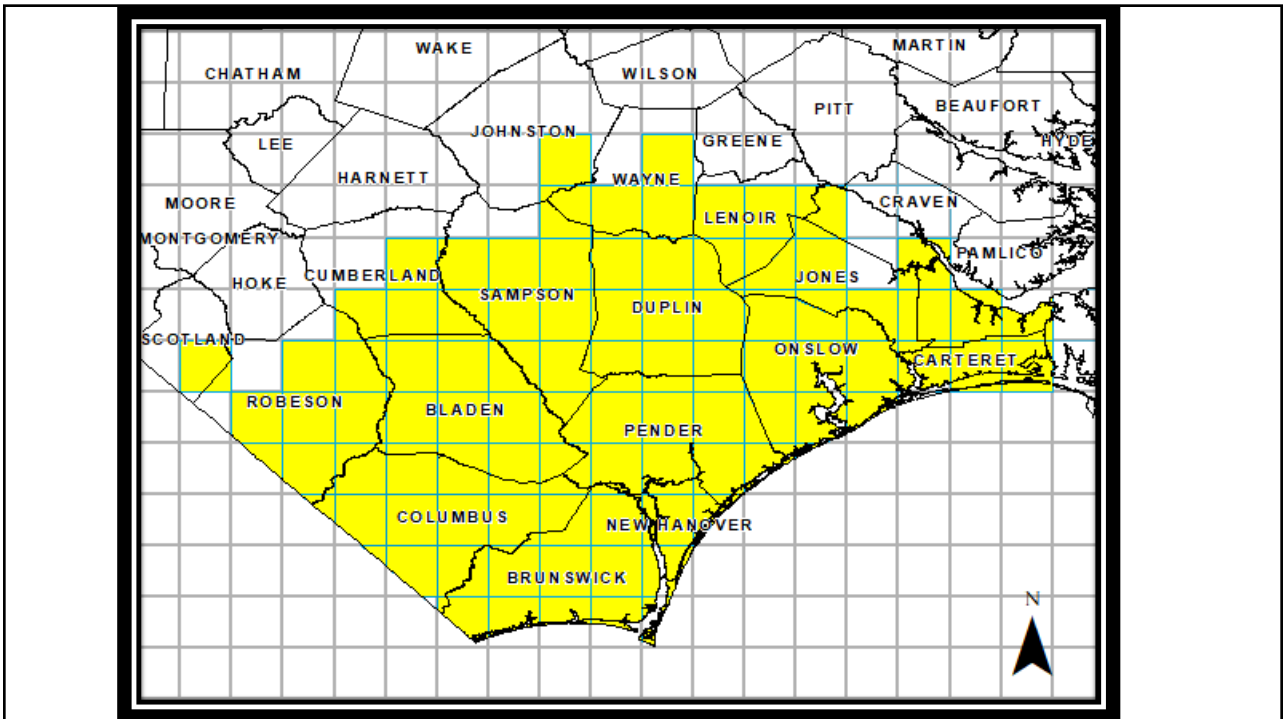
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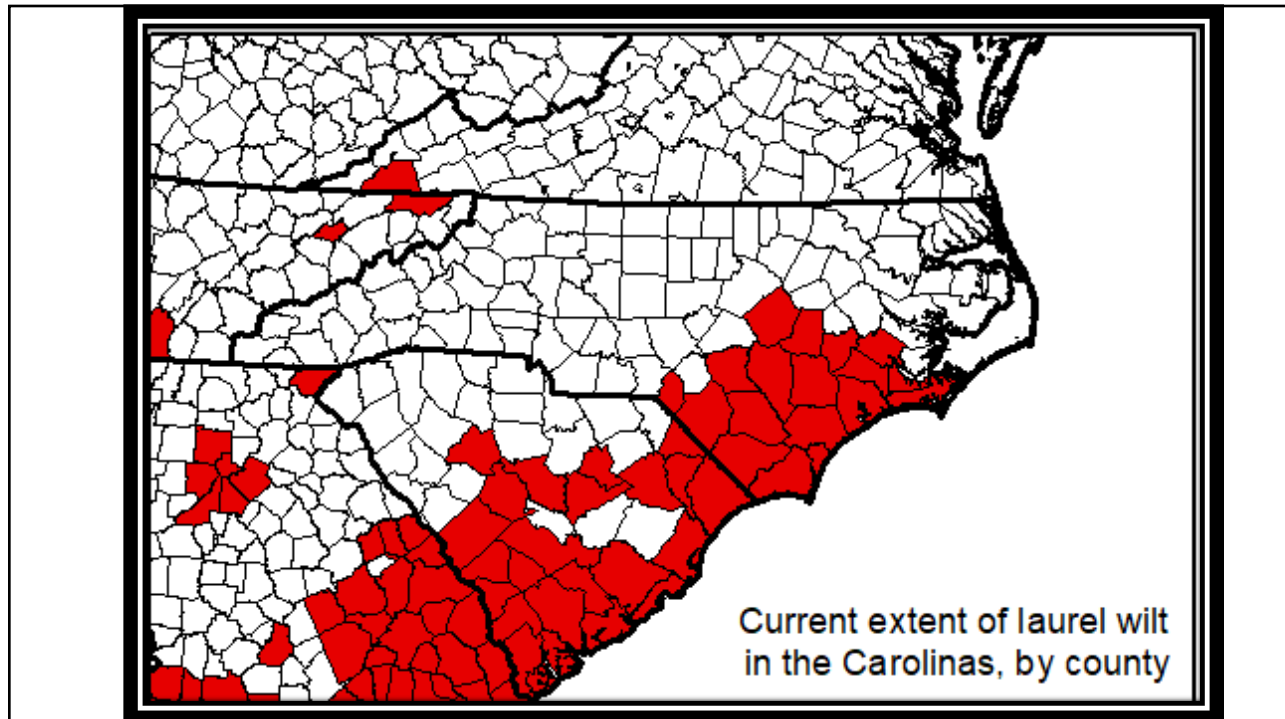
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Southern Pine Beetle

- *Considered the most destructive forest insect in the South*
- Cyclical populations
- All pine species are susceptible

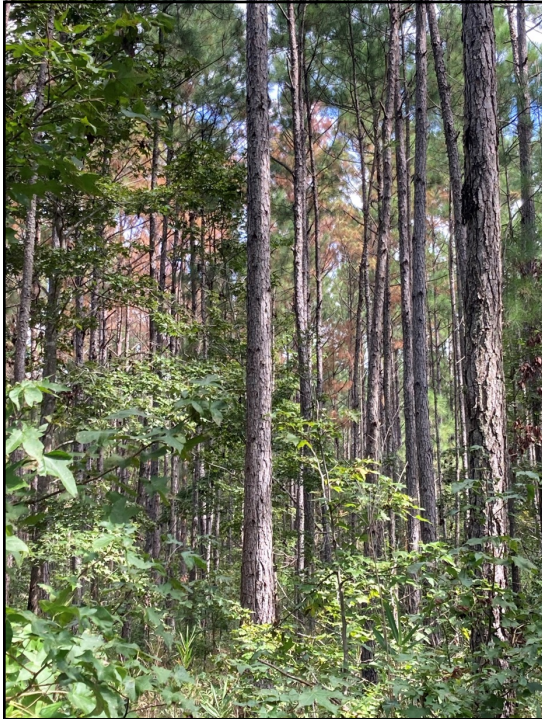


S- shaped galleries

Pitch Tubes



14



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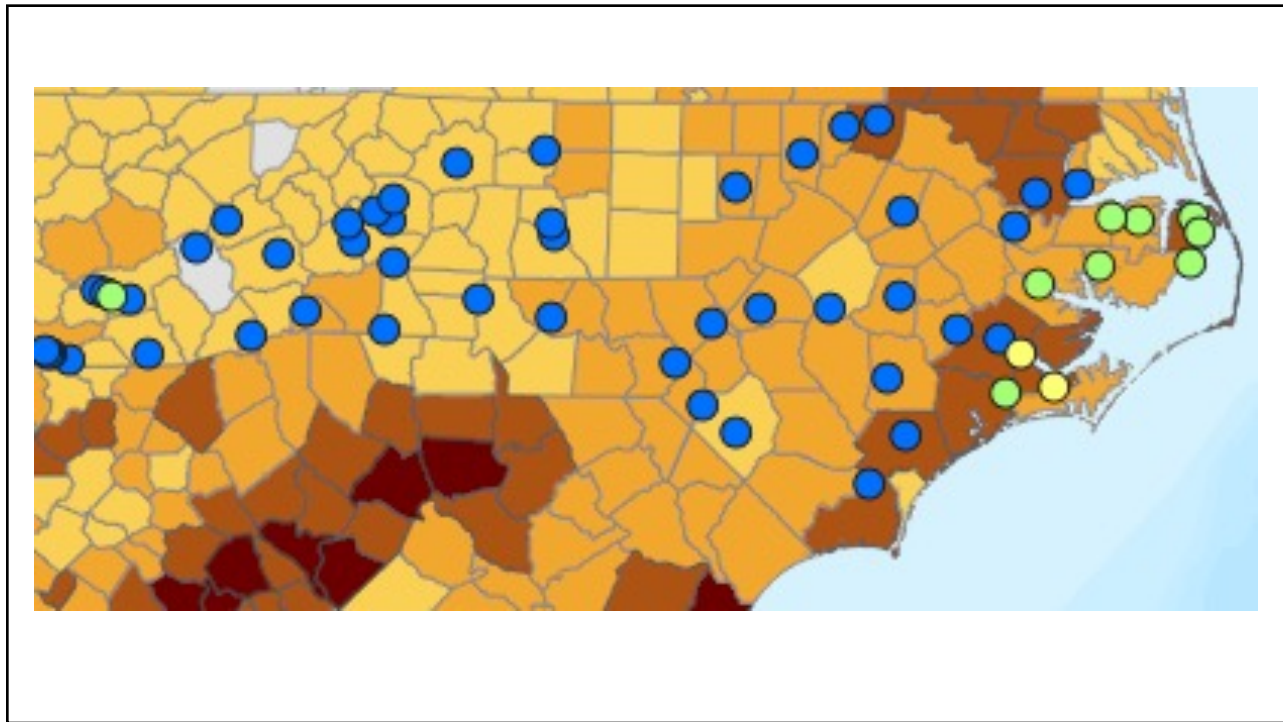
SPB Monitoring



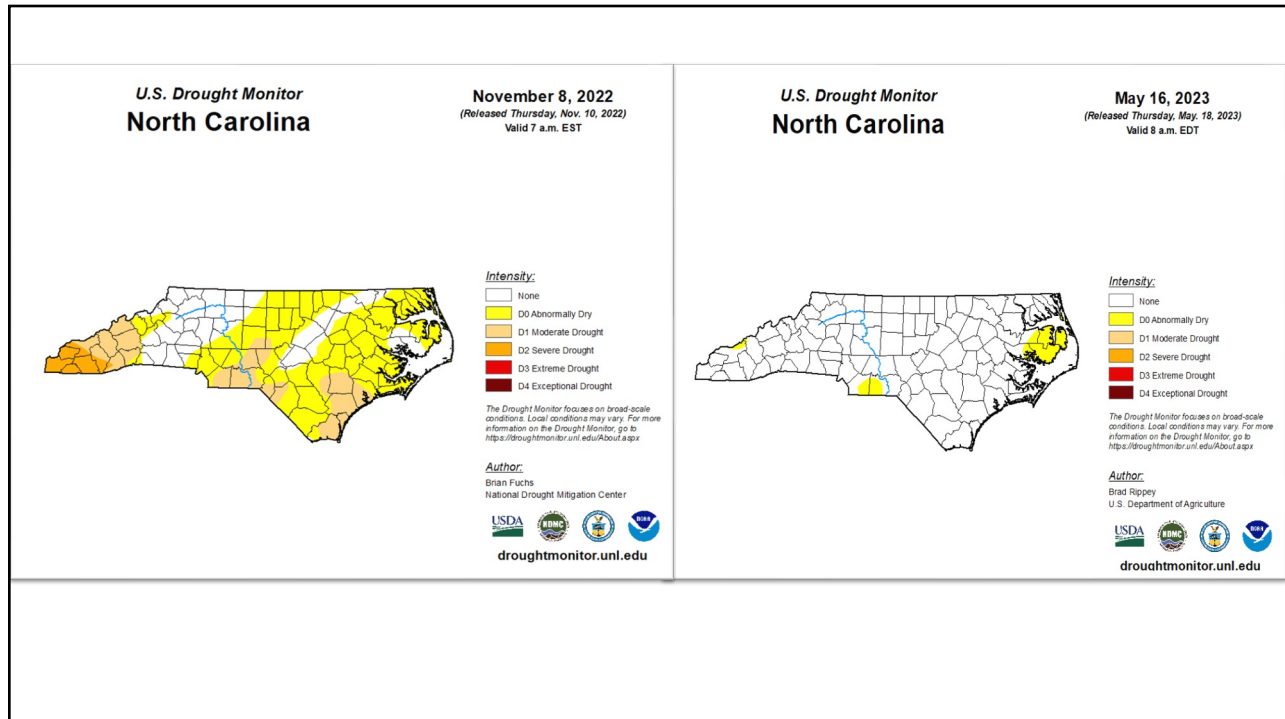
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🇺🇸 Stats by State/Forest		🇺🇸 Stats by State/Forest		🇺🇸 Stats by State/Forest	
Trap Count	% SPB	Trap Count	% SPB	Trap Count	% SPB
503	32.1	57	9.3	39	10.6
Sum SPB	Sum Clerids	Sum SPB	Sum Clerids	Sum SPB	Sum Clerids
192,234	60,560	2,437	3,794	410	1,614
Clerids Per Day	SPB Per Day	Clerids Per Day	SPB Per Day	Clerids Per Day	SPB Per Day
3.8	11.7	2.4	1.5	1.5	0.4

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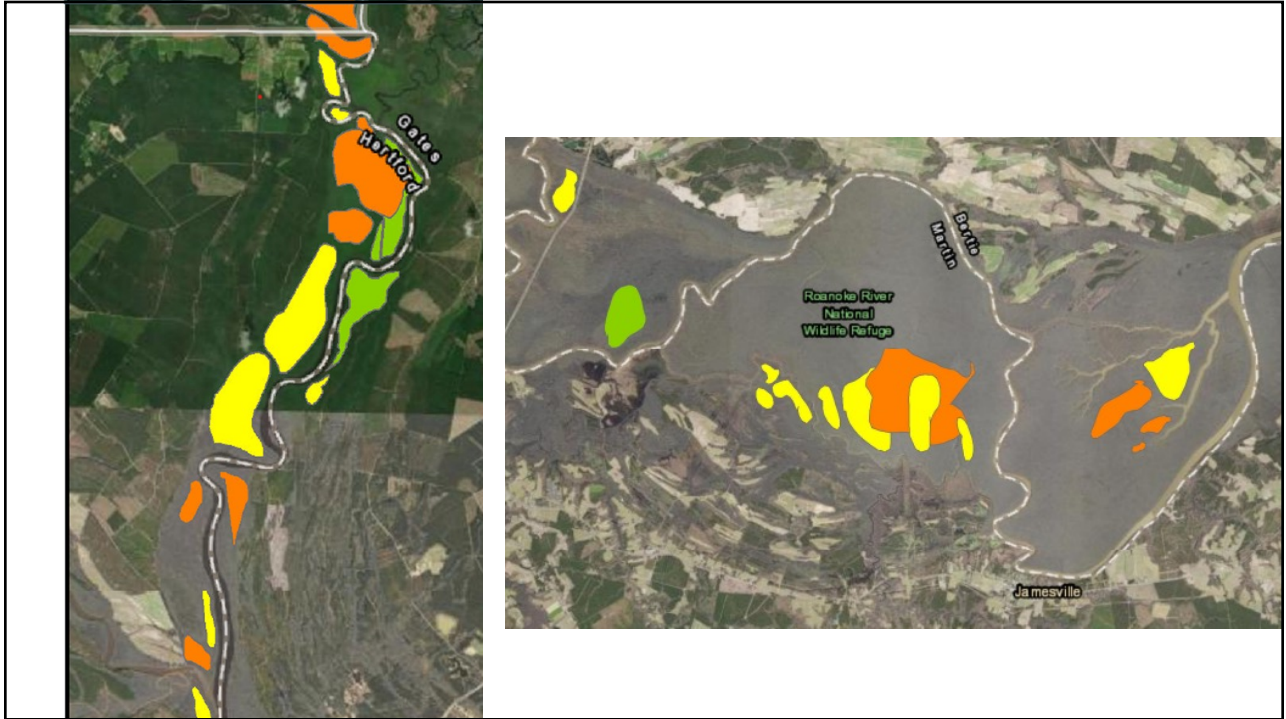
Forest Tent Caterpillar

- NATIVE
- Bottomland hardwood defoliator
 - Water Tupelo
 - Sweetgum
 - Birch
 - Ash
 - Oak
 - Elm
 - Cherry
 - Basswood

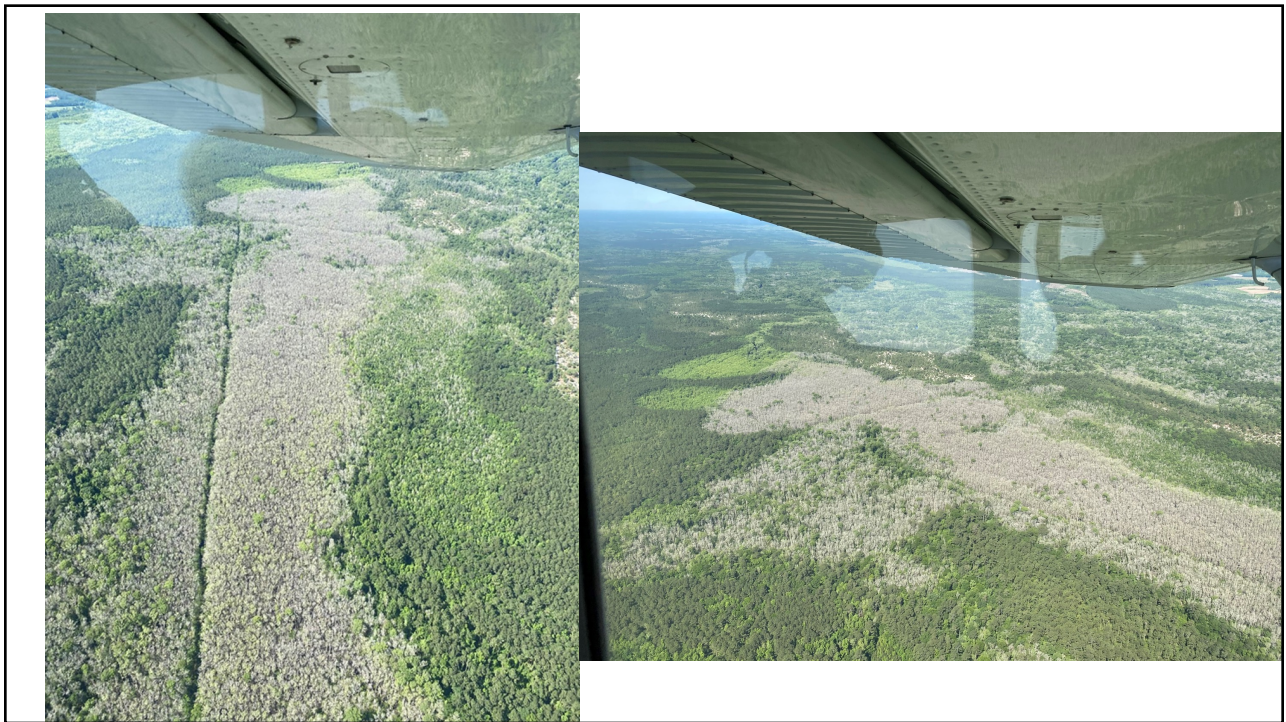



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Spotted Lanternfly

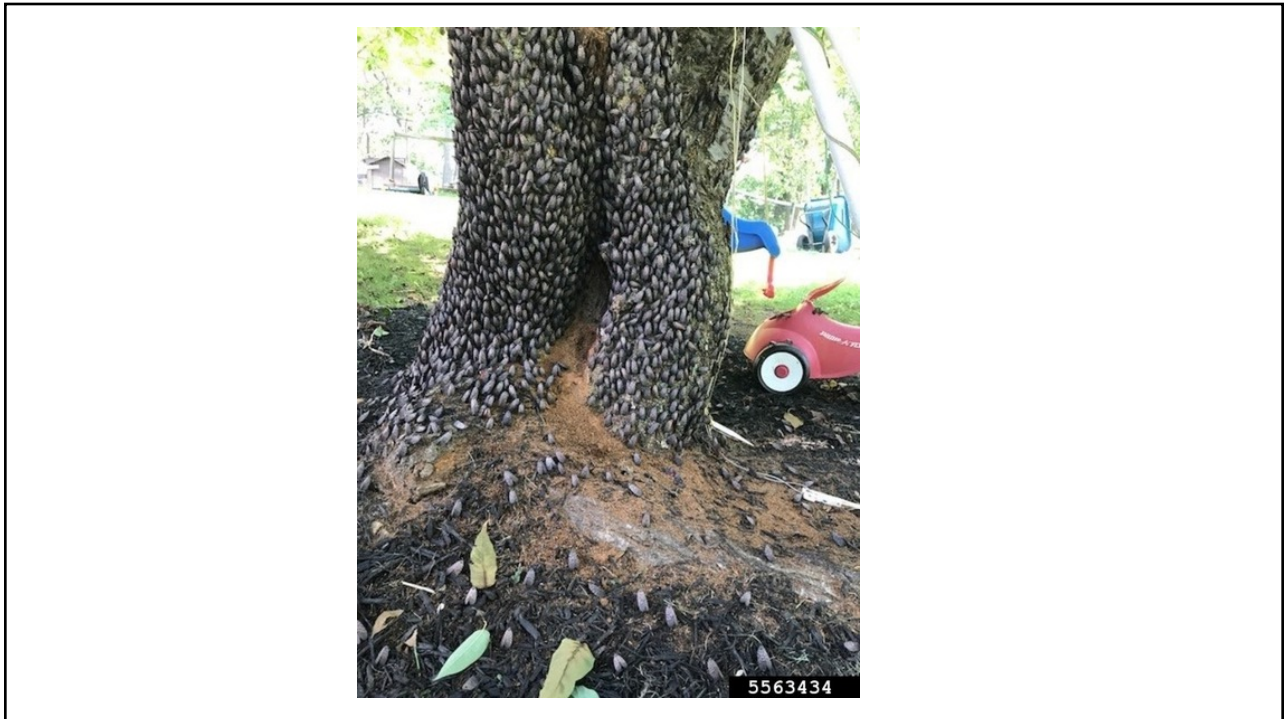
- Non-native invasive
- First detected in PA 2014
- First detected in NC 2022
- Primarily an agriculture, ornamental and nuisance pest



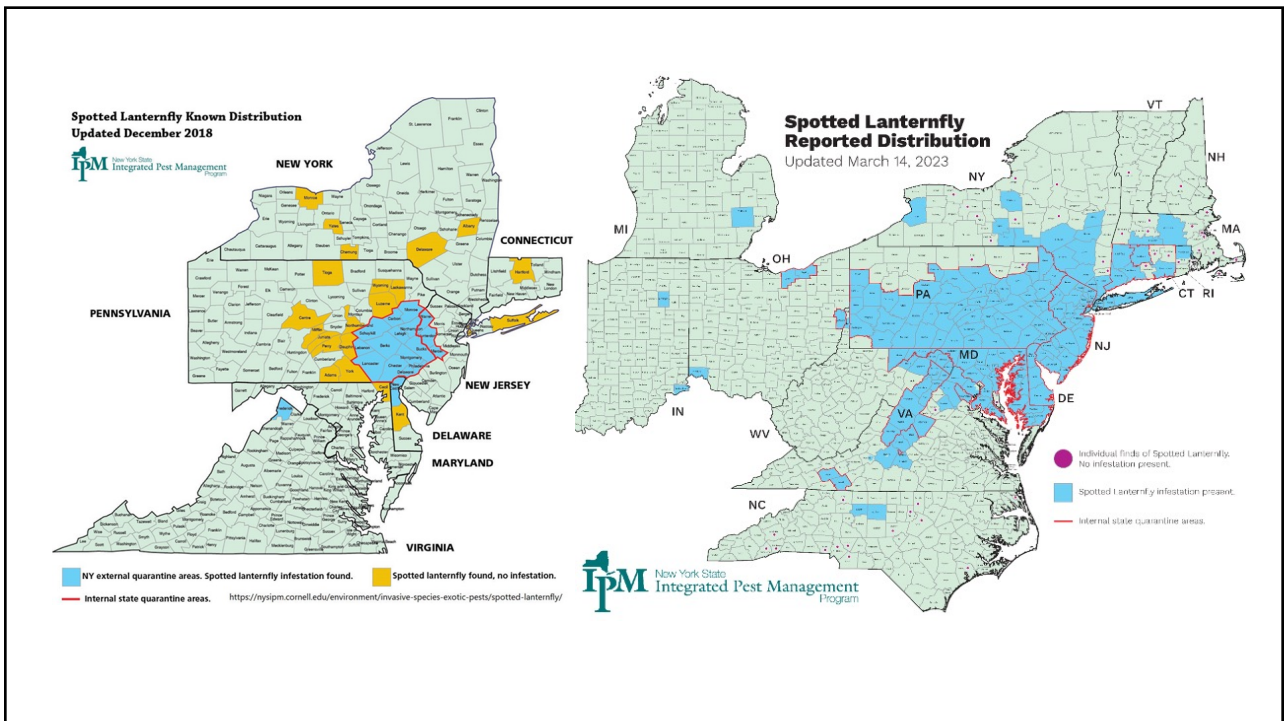
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North Carolina Department of Agriculture & Consumer Services

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Plant Industry - Plant Protection Section Entomological Services

Spotted Lanternfly

Report suspect Spotted Lanternfly [HERE](#)

Spotted lanternfly, *Lycorma delicatula*, is an invasive planthopper that was first detected in the United States in Berks County, Pennsylvania, in 2014. Since then, the pest has been detected in over 14 states. Reproducing infestations of this pest have been found throughout Pennsylvania as well as portions of Connecticut, Delaware, Maryland, Ohio, New Jersey, New York, Virginia, Massachusetts, Indiana, and West Virginia. **The first live population of spotted lanternfly was found in Forsyth County, North Carolina near the border with Guilford County in June 2022.** This is currently the only known population of this pest in the state.

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Spotted Lanternfly Invasive Forest Pests

Introduction

The spotted lanternfly (SLF; *Lycorma delicatula*) is a non-native invasive pest native to China, India, and Vietnam. It was first detected in the United States in eastern Pennsylvania (Berks County) in 2014 and is suspected to have arrived via imported goods, likely as an egg mass (Figure 3) adhered to stone products. Since its initial detection, SLF has been detected in eight additional states: New Jersey (2018), Virginia (2018), Delaware (2019), West Virginia (2019), Maryland (2019), Connecticut (2019), New York (2020), Ohio (2020), Indiana (2021), and Massachusetts (2021). Spotted lanternfly egg masses can easily be moved large distances on firewood or other (often smooth) surfaces on which females deposit eggs. **In June 2022, an established population of SLF was confirmed in North Carolina for the first time.**

The threat of SLF is largely as an agricultural, ornamental, and nuisance pest. Agriculturally, the threat is primarily to grapevine, in which up to 90% yield reduction of infested vineyards is documented. During heavy infestations, grapevines may be killed and mating swarms may disrupt agrotourism events at vineyards (e.g., tours, weddings). Spotted lanternflies also attack hops, fruit trees, and many ornamental plants. As a nuisance pest, SLF congregates near and in homes and businesses and landscape plants, causing aggravation among those who encounter it. Because they aggregate, copious amounts of honeydew and sooty mold accompany an infestation (Figure 6). Spotted lanternfly is not suspected to cause tree mortality, but feeding can cause oozing, wilting, or dieback and/or predispose trees to other stress agents.




Figure 1. Adult spotted lanternflies have grayish wings with black spots and black speckles at the wing tips. They hold their wings tent-like over their bodies when at rest.
Emelle Svackhamer, Penn


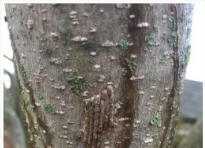


Figure 2. Adult SLF have bright red hind wings, which can only be seen when in flight or if a specimen is spread.
Lawrence Barringer, Pennsylvania Department of Agriculture, Burnwood.org






Figure 4. Young SLF nymphs are black with white spots and about 1/8-1/4".
EM 103774

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