

Thinking Differently about Early Detection & Rapid Response and Invasive Species Outreach



UNIVERSITY OF GEORGIA

Center for Invasive Species and Ecosystem Health







It has been almost 25 years since the first Executive Order on Invasive **Species was** signed by **President Bill** Clinton.



Since then, hundreds of millions of dollars have been spent on preventing, detecting, managing, and researching invasive species, but what difference have we truly made?













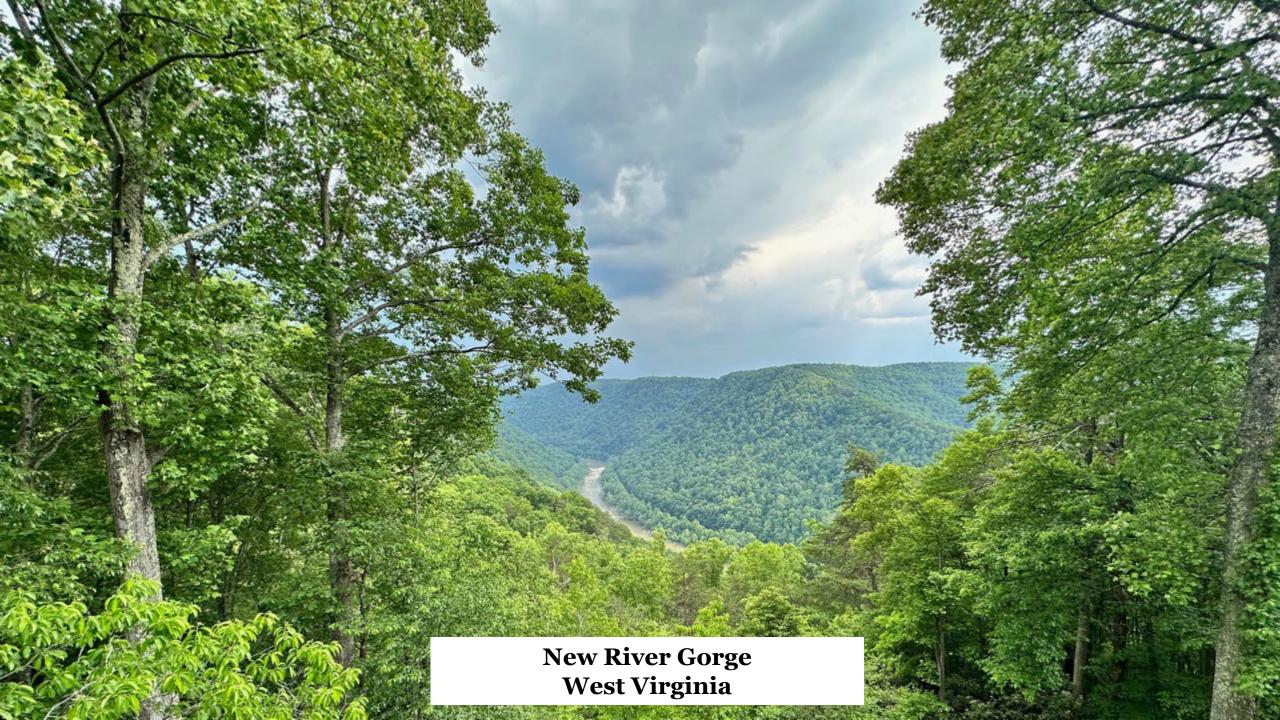










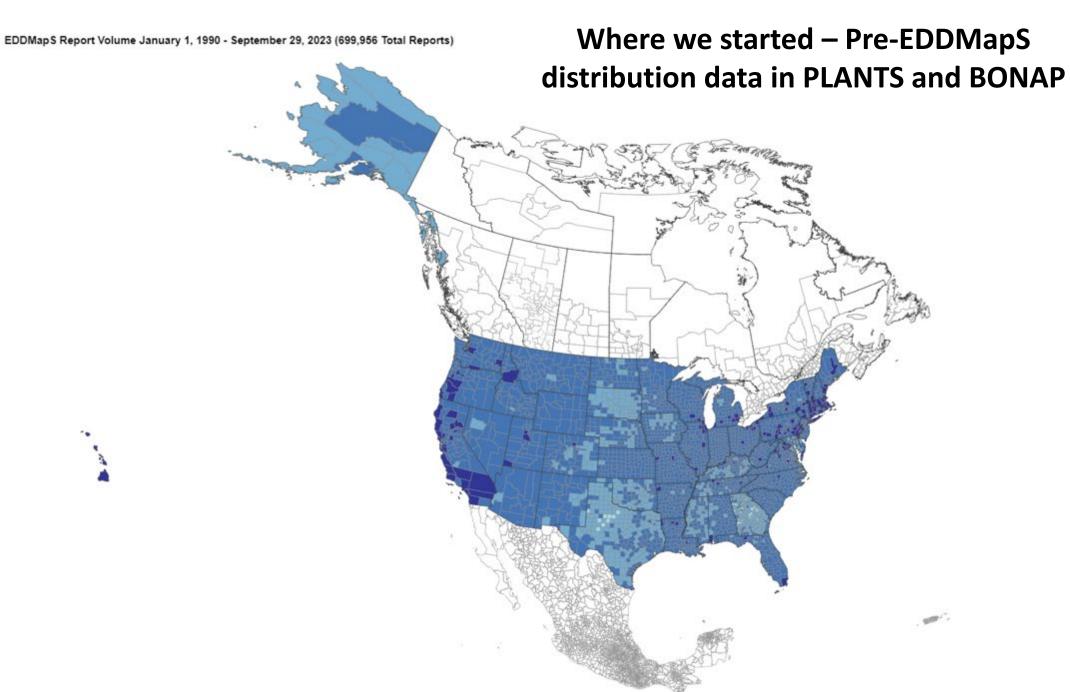








EDDMaps find · map · track

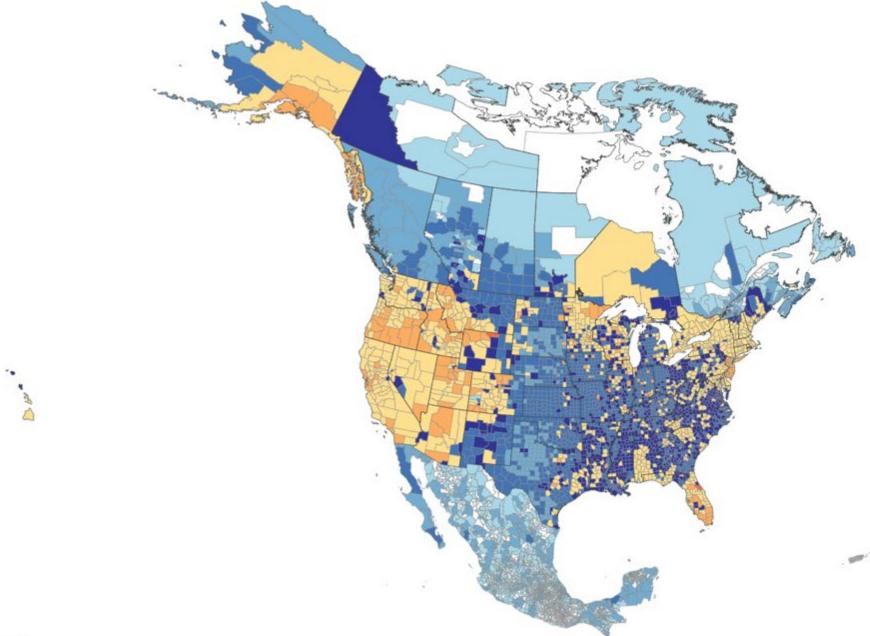


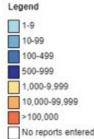




Where we are now!

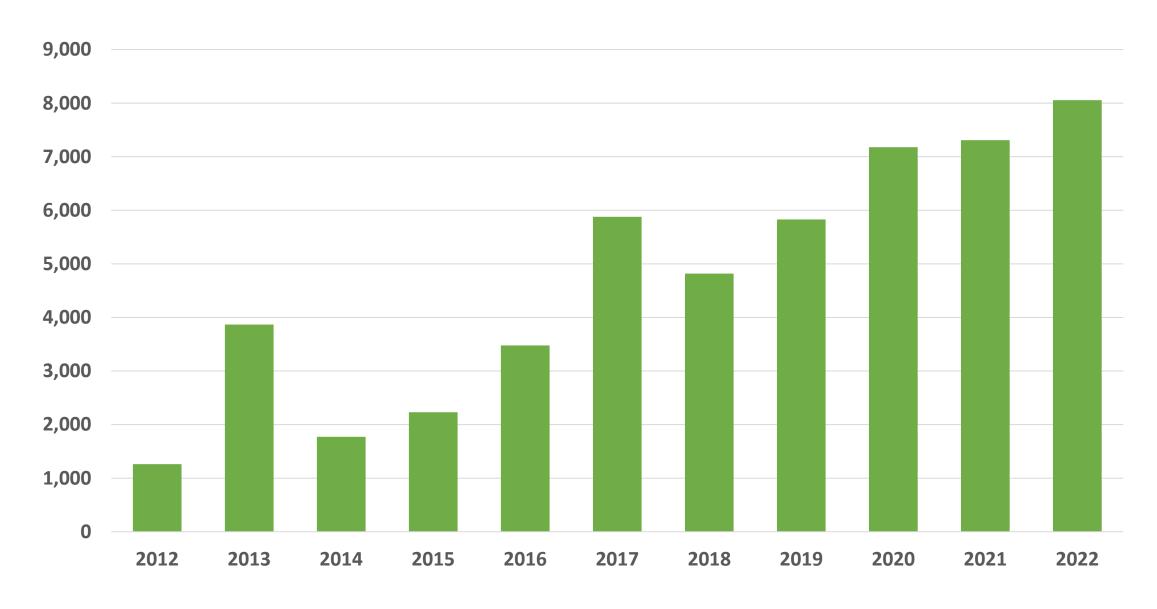






Map created: 9/27/2023

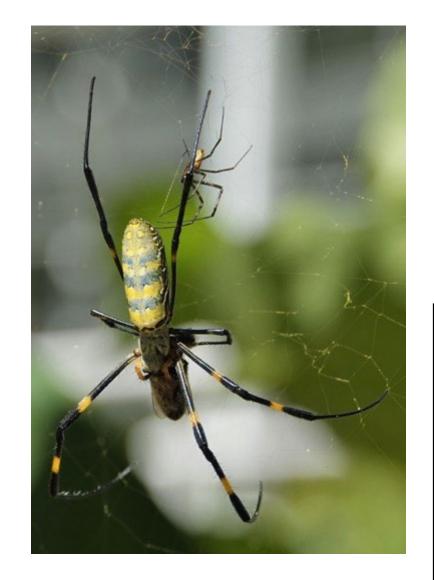
Active Users by Year





Joro Watch – What?

- Joro spider (*Trichonephila clavata*) was identified in GA in 2014
- First known infestation of this species in the US
- Highly charismatic and visible
 - Bright colors
 - Large size (for a spider)
 - Prolific where established
 - Webs in open areas; backyards
- Timing Adults most visible in Autumn





Joro Watch - Results 2022

- Report Source
 - Joro Watch 957
 - iNaturalist 474
 - EDDMapS App 277
 - EDDMapS Website 149
 - Literature 4
 - EDDMapS Pro 2
- Reporters
 - Unique Reporters 1111
 - Reporters who've only reported
 Joro spiders 1085

- Joro Spider Spotting Contest
 - Reports 320
 - Reporters 203
 - New Counties 5
 - Most Counties 6
 - Most Reports 15



Joro Watch - Results 2023

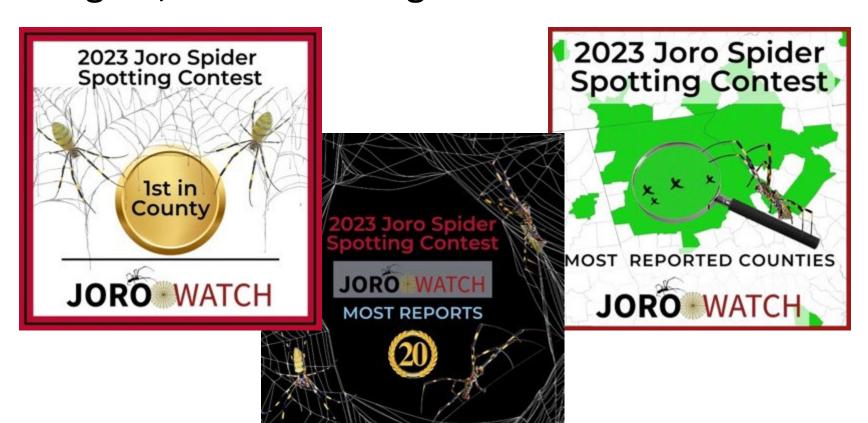
- Report Source
 - Joro Watch 567
 - iNaturalist 67
 - EDDMapS App 259
 - EDDMapS Website 84
- Reporters
 - Unique Reporters 659
 - Reporters who've only reported
 Joro spiders 649

- Joro Spider Spotting Contest
 - Reports 623
 - Reporters 409
 - New Counties 6
 - Most Counties 4
 - Most Reports 20



Joro Watch – Rewards

Digital, Sharable Badges



Sticker mailed out







ISDA confirms quagga mussel larvae in the Snake River

Boise, Idaho – The Idaho State Department of Agriculture (ISDA) confirmed yesterday the presence of quagga mussel larvae in the Centennial Waterfront Park area of the Snake River. Multiple samples of quagga mussel at larval life stages have been found in the Twin Falls area by ISDA's early detection monitoring program.

The findings mark the first time a rapid response plan has been put into action for quagga mussels in Idaho. ISDA is implementing a rapid response plan that includes notifying impacted entities, implementing containment measures, conducting delimiting surveys and evaluating for potential treatment options.

"These invasive pests will clog pipes that deliver water for drinking, energy, agriculture, and recreation," Governor Little said. "This is a very high priority for Idaho and for me, given the gravity of the risk. If we are not successful, an unchecked spread — which we are doing all we can to stop — has the potential to cost Idaho hundreds of millions of actual and indirect costs. Thankfully, we caught the mussels early on and have already started a robust response to get these mussels OUT of our waters. We need everyone to support these efforts."

ISDA is asking for the public's cooperation in staying out of the water in the Centennial Waterfront Park area, in an effort to contain the mussel populations. ISDA staff and boats will be in the water performing delimiting surveys to determine the physical range of the impacted area. Boat ramps and public access to the water are closed temporarily.

"Our Invasive Species Program is prepared to respond to these findings quickly in an effort to contain mussel population growth in such a vulnerable area," said Chanel Tewalt, ISDA Director. "We greatly appreciate the public's cooperation and plan on opening the area as soon as possible to minimize the impact to businesses that rely on the Snake River."

Quagga and zebra mussels pose a major threat to Idaho's water systems, native species, agriculture, utilities and more. ISDA's early detection monitoring program works to detect new outbreaks early, which allows ISDA to quickly control mussel populations. While working to determine the scope of the impacted area, ISDA officials will be exploring potential control strategies for the mussels.

All watercraft users are encouraged to follow the "Clean, Drain and Dry" actions for watercraft and equipment before entering and after leaving Idaho waterbodies. ISDA watercraft inspection stations are also currently operating across the state and mandatory for watercraft users to stop at.

For updates on the issue and to view a map of the impacted area, visit agri.idaho.gov/main/plants/snake-river-quagga-mussel-veligers/.

Quagga Mussel Larvae Detection Snake River

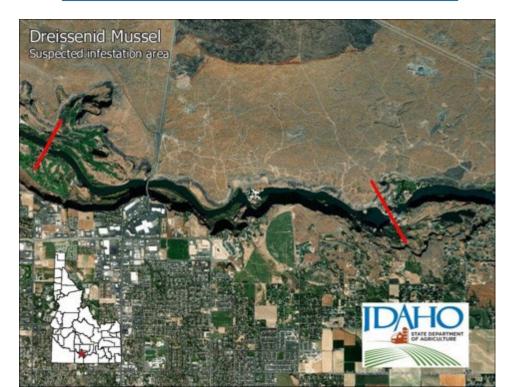
September 2023 - The ISDA has confirmed the presence of quagga mussels at larval life stages in the Centennial Waterfront Park area of the Snake River. These findings mark the first time a rapid response plan has been put into action for quagga mussels in Idaho.

Closures are in place in and along the Snake River until further notice as the investigation in the area continues. See map below for closures.

<u>If your watercraft has been in the Snake River Centennial</u>

<u>Park area in the last 30 days, please call (208) 332-8620</u>

or visit a hot wash location for decontamination.



Los Angeles Times

Invasive species of mud snails found in Lake Tahoe, a 'concerning' discovery



The New Zealand mud snall is much smaller than a U.S. dime. (U.S. Geological Survey)

BY CHRISTIAN MARTINEZ | STAFF WRITER SEPT. 22, 2023 6 AM PT



In the vastness of the second-deepest lake in the United States, a tiny snail is posing a threat of "concerning" proportions. The invasive New Zealand mud snail has been discovered in Lake Tahoe.

It's unclear how this Kiwi species wound up in the <u>cobalt blue waters</u> of the Sierra Nevada. But, officials said Thursday, the mud snails "are able to colonize new waters quickly" and are "difficult to detect" because of their small size.

The announcement of the discovery was made by the Tahoe Regional Planning Agency and the Tahoe Resource Conservation District.

Contract divers with Marine Taxonomic Services, Ltd. surveying invasive weeds on the South Shore discovered tiny snails on the bottom of the lake nearly a half mile offshore from the mouth of the Upper Truckee River. Consultation with experts and a DNA lab analysis confirmed the species is New Zealand mud snail, an aquatic invasive species (AIS) that has been detected in nearby waterways including the Lower Truckee River downstream from Lake Tahoe near Reno, Nevada.

The snails are thought to have been brought to the U.S. by shipping activity or aquaculture, and they have spread throughout the country probably because of aquatic recreation and fishing gear not being properly cleaned. California saw its first New Zealand mud snail population in the Owens River in 2000, according to the Center for Invasive Species Research, University of California Riverside, with all the western states, except New Mexico, now having permanent populations of the species.



11488756 old world climbing fern (Lygodium microphyllum)

Last Visit: Aug 16, 2023 **Current Status: Positive Revisit Record**

488756	Original	Aug 16, 2023	Positive	
Record ID	11488756			
Species Information				
Location Information				
Habitat	Edge: Field/forest			
Locality	Found on the edge of a planted pine stand.			
Location	Long, Georgia, United States			
Infestation Information				
Abundance	Single Plant			
Infestation Status	Positive			
Reporter Information				
Reporter	Ryan Bohannon , Clemson University			
Observation Date	August 16, 2023			
Date Entered	August 17, 2023			
Updated By	EDDMapS Adminisrator			
Identified By	Ryan Bohannon			
Source Type	Web Report			
Verification and Review				
Verification Method	Photographs			
Identification Credibility	Verified			
Observation Identifier	Eamonn Leonard			
Reviewed	Verified			
Reviewer	Rebekah Wallace			
Date Reviewed	September 27, 2023			

The Atlanta Journal-Constitution

Trump Georgia Indictment

Georgia Politics

Things To Do

Sports

Local News

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Bee-eating cousin of the 'murder hornet' found in Georgia

Yellow-legged hornet isn't supposed to be in the U.S. But officials say it's been found in Georgia



Credit: Yellow-legged hornet (Vespa velutina, formerly called Asian hornet) by Gilles San Martin is licensed under CC BY-SA 2.0 (cropped)

GEORGIA NEWS

By Drew Kann

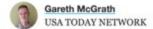






What the crab is that? Researchers ask public for help in tracking new arrival to NC coast

A non-native land crab that dwarfs the state's native crab species has been spotted at the N.C. coast. Now officials want the public's help in tracking its impacts



Published 5:24 a.m. ET Sept. 28, 2023 Updated 5:24 a.m. ET Sept. 28, 2023





PHOTOS: Blue land crabs in North Carolina

A non-native crab species has been spotted along the N.C. coast, and now researchers want the public's help in tracking it.

Imagine a ghost crab combined with a fiddler crab. Now imagine that hybrid on steroids, like the performance-enhancing drugs used by professional baseball players in the 1990s.

That image effectively describes one of the newest non-native species to make North Carolina home, at least for a visit.

Now researchers, teaming up with fellow scientists in South Carolina, want the public's help to find out if a crab native to warmer climates thousands of miles south of North Carolina will become a permanent member of the Tar Heel State's environment.

"If you see one, you know it's something different," said Dr. Bronwyn Williams, research curator with the N.C. Museum of Natural Sciences, about the blue land crab.



A fast-growing vine is one of the newest invasive species identified in Maine

Maine Public | By Caitlin Andrews Published October 2, 2023 at 8:53 AM EDT











Doug Cygan, an Invasive Species Coordinator for the New Hampshire Department of Agriculture, Markets and Food, pulls a mile-a-minute vine out from a stone wall in Seabrook, New Hampshire.

MICHIGAN

'One of the world's most invasive aquatic plants' found for first time in Michigan



Keith Matheny Detroit Free Press

Published 5:16 p.m. ET Oct. 2, 2023 | Updated 9:36 p.m. ET Oct. 2, 2023



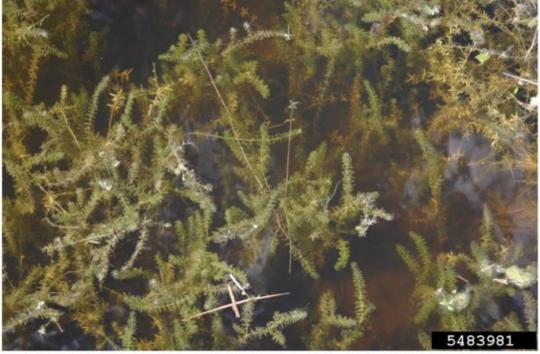








Hydrilla, called "one of the world's most invasive aquatic plants," by Michigan Department of Environment, Great Lakes and Energy (EGLE) officials, has been found for the first time in Michigan waterways.



Hydrilla is characterized by serrated leaves, generally in whorls of five, surrounding long stems. Leslie J. Mehrhoff, University Of Connecticut, Bugwood.org

2 species of invasive insects found in Minnesota for first time



BY WCCO STAFF SEPTEMBER 13, 2023 / 11:13 AM / CBS MINNESOTA







MINNEAPOLIS — Two species of invasive insects were reported for the first time in Minnesota last month. The state's Department of Agriculture is asking residents to be vigilant.

Two separate homeowners reported an elm seed bug and an Asiatic garden beetle to the department's Report a Pest service in August.



Asiatic garden beetle (left) and Elm seed bug (right)

The ag department said the elm seed bug is a nuisance pest that is native to Europe. It first appeared in the U.S. in 2012. They are about one-third of an inch long and are dark red and black in color.

READ MORE: All Minnesota worms are invasive, but which ones do you need to worry about? An expert weighs in

Asiatic garden beetles feed on fruit, vegetables, perennials and annuals, according to officials.

Another invasive species found in North Carolina, Apple Snails now confirmed

O October 3, 2023 2 Submitted





An Apple Snail. (N.C. Wildlife Resources Commission)

Θ

The N.C. Wildlife Resources Commission (NCWRC) announced Monday that Apple Snail, a harmful invasive aquatic species, have been identified along the Lumber River in Lumberton. Native to South America, this is the first known population of Apple Snails in North Carolina. Globally, Apple Snails are a problematic invasive species and have been introduced in Europe, Asia, and multiple states within the U.S.

A concerned citizen sent photographs of suspected Apple Snail egg clusters to the NCWRC. An NCWRC biologist inspected multiple sites along the Lumber River and collected additional egg masses for submission to the N.C. Museum of Natural Sciences, which confirmed the identification of Apple Snail eggs. Subsequent surveys by an NCWRC biologist detected adult snails and eggs near the I-95 bridge crossing of the Lumber River, at the High Hill Boating Access Area, and in Fivemile Branch, a tributary to

Prolific invasive species that's hard to eradicate is found in NC wild, officials say

BY MAKIYA SEMINERA

SEPTEMBER 25, 2023 3:55 PM



Zebra mussels are considered to be a harmful, invasive species that can spread quickly in waterways. They have now been found in North Carolina, officials say. *Photo from the U.S. Fish and Wildlife Service*

Spotted lanternfly found in Nashville area. Why Tennessee officials want you to kill it.

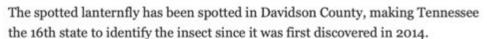
Jordan Green Nashville Tennessean

Published 10:23 a.m. CT Sept. 29, 2023 Updated 11:22 a.m. CT Sept. 29, 2023









"Our Plant Certification Section inspectors responded to a tip from a vigilant citizen about a sighting of spotted lanternfly," Commissioner Charlie Hatcher said in a statement from the Tennessee Department of Agriculture. "This non-native insect is harmful to a range of crops and natural resources in our state. Wood products businesses and fruit growers could be especially vulnerable, and we want your help in watching out for this pest and eliminating any you find."

So far, it has only been identified in Davidson County. The Tennessee Department of Agriculture advises residents and travelers to check their vehicles to reduce the spreading of the insect's eggs.

What's the problem with the spotted lanternfly?

The spotted lanternfly is an invasive plant hopper that was first detected in 2014. It is a sapsucking insect that feeds on water and nutrients in plants. It is an invasive species that gathers in large numbers on host plants and flat surfaces.



Image of the spotted lanternfly from the Tennessee Department of Agriculture on Sept. 28, 2023 Tennessee Department Of Agriculture

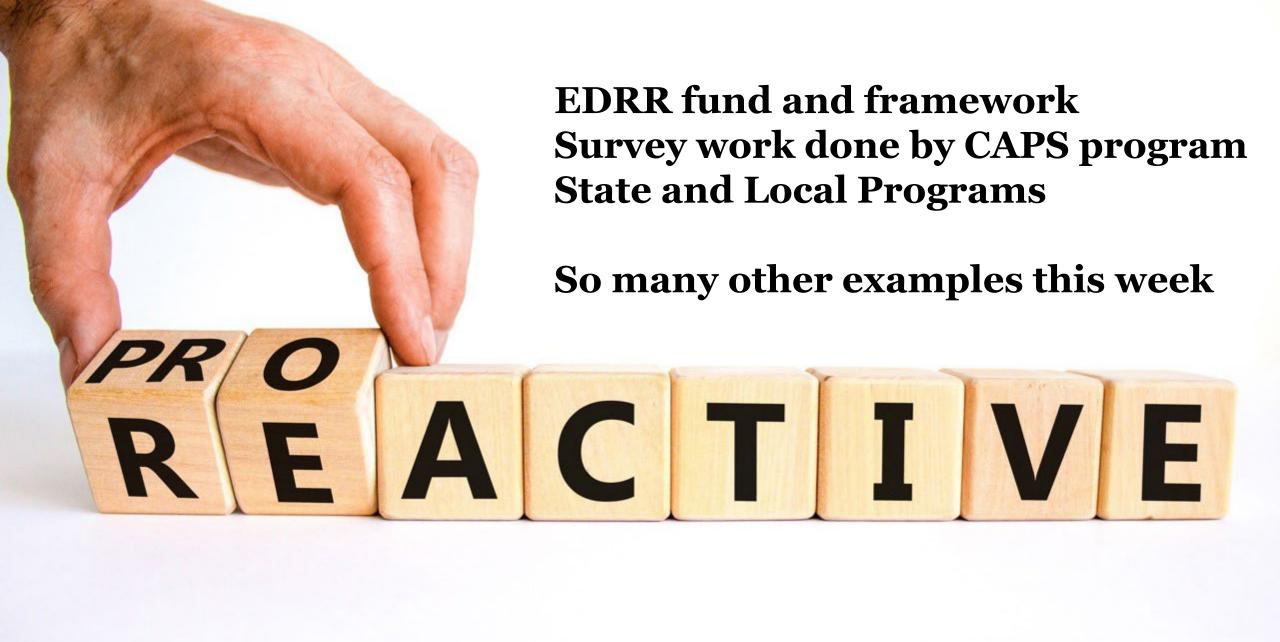




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ILLINOIS FOR THE FIRST TIME











Prevention Campaigns

BUY IT WHERE YOU BURN IT.

PONTMOVE FIREWOOD.org





Now we need a Detection Campaign!



Mapping Invasives in America's Wild Places™

















Wild Spotter is another interface for EDDMapS, it is not a new database! All data is part of EDDMapS which is a part of the EDRR Framework!

EDDMapS
find · map · track





- Not just an App!
- The Detection Campaign
- We can't get people to report invasive species if they don't understand and care about the problem of invasive species
- We need the public help us protect the places we all care about!



Then we need to challenge ourselves and work toward making your favorite place Invasives Free





Join us for the Inaugural

Wild Spotter Invasive Species Ambassador

Training Course



This intensive training will include building relationships, partnerships and engaging stakeholders; branding and marketing programs; using innovative tools and technologies; and volunteer citizen-science coordination, recruitment, and retention to meet invasive species management goals and expand local community capacity for action.

This gathering will have <u>limited attendance</u> through a merit selection process; please apply now at www.invasivesfree.org to submit your candidacy and reserve your space for this unique opportunity....More to come!

December 5th - 7th, 2023

Coeur d'Alene Lake Resort

Northern Idaho

https://www.cdaresort.com/





Invasive Species Ambassador Training Lake Guntersville State Park, Alabama February 4-6, 2025





Challenge

- 1. Present invasive species to a new audience
 - #invasivesfree or @invasivesfree
- 2. Adopt Wild Spotter as the Detection Campaign for your public lands
- 3. Pick your favorite place and help make it Invasives Free set a date and work toward it





QUESTIONS?

cbargero@uga.edu www.wildspotter.org

https://invasivesfree.org





