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TRI-OLOGY

A PUBLICATION FROM THE DIVISION OF PLANT INDUSTRY, BUREAU OF ENTOMOLOGY, NEMATOLOGY, AND PLANT PATHOLOGY

Division Director, Trevor R. Smith, Ph.D.



BOTANY

Providing information about plants:



ENTOMOLOGY

Identifying arthropods, taxonomic



NEMATOLOGY

Providing certification programs and



PLANT PATHOLOGY

Offering plant disease diagnoses



Florida Department of Agriculture and Consumer Services • Division of Plant Industry



Haimbachia indistinctalis Capps.
Photo by James E. Hayden, FDACS-DPI

ABOUT TRI-LOGY

The Florida Department of Agriculture and Consumer Services-Division of Plant Industry's (FDACS-DPI) Bureau of Entomology, Nematology, and Plant Pathology (ENPP), including the Botany Section, produces TRI-LOGY four times a year, covering three months of activity in each issue.

The report includes detection activities from nursery plant inspections, routine and emergency program surveys, and requests for identification of plants and pests from the public. Samples are also occasionally sent from other states or countries for identification or diagnosis.

HOW TO CITE TRI-LOGY

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We welcome your suggestions for improvement of TRI-LOGY. Please feel free to contact the [helpline](#) with your comments at 1-888-397-1517.

Thank you,

Gregory Hodges, Ph.D.

Editor

Assistant Director, Division of Plant Industry

Ayress D. Grinage, Ph.D.

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Botanist, Division of Plant Industry

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Cover Photo

Barleria repens, bilaterally symmetric red flowers.
Photo by Jay Keller, [Atlas of Florida Plants](#)



HIGHLIGHTS



1 *Barleria repens* Nees (coral creeper or small bush violet), is a perennial shrub of the Acanthaceae.

This quarter, the Botany section received a sample for botanical identification from a residential area in Palm Coast (Flagler County, Florida). With this **new county record**, *B. repens* is now officially known from 18 Florida counties.



1 - *Barleria repens*, bilaterally symmetric red flowers.
Photo by Jay Keller, [Atlas of Florida Plants](#)

2 *Bactrocera dorsalis* (Hendel), Oriental fruit fly, a regulatory incident. Two male specimens were captured in a Jackson trap baited with methyl eugenol, hung in a sapodilla tree in Davie, Florida.



2 - *Bactrocera dorsalis* (Hendel).
Photo by Craig Welch, FDACS-DPI

3 *Meloidogyne megatyla* Baldwin and Sasser, 1979, the pine root-knot nematode, was obtained from loblolly pine roots, *Pinus taeda* L. collected in Newnans Lake State Forest, Gainesville, Florida.



3 - Stubby mycorrhizal fibrous roots parasitized by *Meloidogyne megatyla* and covered by a mycelium of ectomycorrhizae.
Photo by Jeffrey Lotz and assembled by Scott Burton, FDACS-DPI

4 *Callicarpa mosaic-associated virus 1* (CaMaV1, Genus: *Emaravirus*), a new state record, was found on *Callicarpa americana* L. (American beautyberry, Family: Lamiaceae) in Citrus County, Florida. This is only the second time CaMaV1 has ever been detected, and the first time in Florida.



4 - *Callicarpa mosaic-associated virus 1* on *Callicarpa americana* showing mosaic and leaf deformation.
Photo by Shelby Kernahan, FDACS-DPI





BOTANY

Compiled by Ayress D. Grinage, Ph.D. and Alex de la Paz, B.S.

This section identifies plants for the Division of Plant Industry, as well as for other governmental agencies and private individuals. The Botany section maintains a reference herbarium with nearly 20,000 plants and 1,500 vials of seeds.

QUARTERLY ACTIVITY REPORT

	OCT - DEC	2025 - YEAR TO DATE
Samples Submitted by Other DPI Sections	1657	5977
Samples Submitted for Botanical Identification Only	462	1394
Total Samples Submitted	2119	7371
Specimens Added to the Herbarium	283	1176

Some of the samples submitted recently are described below.

1 *Barleria repens* Nees (coral creeper or small bush violet), is a perennial shrub of the Acanthaceae. Although *B. repens* is native to tropical eastern Africa, it is introduced in India, Brazil and the United States. This quarter, the Botany section received a sample for botanical identification from a residential area in Palm Coast (Flagler County, Florida). The plant was observed covering a citrus and oak tree. The plant was identified as *Barleria repens* from its stem nodes lacking spines, red petals and entire outer sepals, all characters that differentiate *B. repens* from the other two naturalized species of *Barleria*, *B. cristata* and *B. lupulina*. As a member of the Acanthaceae, *B. repens* also has the typical acanth morphology with opposite leaves bearing bracteate, bilaterally symmetric flowers. With this new county record, *B. repens* is now officially known from 18 Florida counties, it is not considered invasive. (Flagler County; 11032025-11336; Jennifer Hesse; 30 October 2025.)

2 *Barleria cristata* L. (crested Philippine violet or bluebell *Barleria*), is a perennial shrub of the Acanthaceae. *Barleria cristata* is native to tropical and subtropical Asia but is naturalized in Florida and a handful of other neotropical regions (e.g. Bahamas, Hispaniola, Honduras, Jamaica, Trinidad and Tobago). This quarter, the Botany section received a sample for botanical identification from the roadside edge of a wooded area in a residential neighborhood in Titusville (Brevard County, Florida). This sample had opposite leaves and bracteate flowers bearing white petals and sepals with prickly margins, characters associated with *Barleria cristata*. Like *B. repens*, this



1 - *Barleria repens*, bilaterally symmetric red flowers.
Photo by Jay Keller, [Atlas of Florida Plants](#)



2a - *Barleria cristata*, bilaterally symmetric purple flowers.
Photo by Keith Bradley, [Atlas of Florida Plants](#)



species also lacks stem nodes with spines, but the two species are readily distinguished from one another by petal color (*B. cristata*= white/purple petals versus *B. repens*= pink/red petals) and sepal margins (*B. cristata*= prickly margins versus *B. repens*= smooth/entire margins). With this new county record, *B. cristata* is now officially known from 14 Florida counties. *Barleria cristata* is listed on the Florida Invasive Species Council (FISC) watch list, meaning it shows potential for listing as a Category I or II invasive plant but currently lacks sufficient information (FISC), use caution when planting this species. (Brevard County; 11122025-11684; Chase Groninger; 10 November 2025.)

3 *Sorghastrum elliottii* (C. Mohr) Nash (slender Indiangrass), a grass (Gramineae/Poaceae), from a genus of about 20 species distributed across tropical and subtropical America and Africa. This species is native to the southeastern United States from Maryland, south to Florida, west to Texas, and inland to Tennessee, Arkansas and Oklahoma. It grows in dry to mesic hardwood forests, open grassy flatwoods and hammocks, and river-scour areas on sandy terraces. In Florida, it is found in the north-central peninsula and panhandle. It is named in honor of American botanist Stephen Elliott (1771-1830), who made significant contributions to the understanding of the flora of the southeastern U.S., most notably in his book *A Sketch of the Botany of South-Carolina and Georgia*. Plants are perennial, cespitose herbs with culms (stems) up to 2 meters tall with long, narrow leaf blades and distinctly arching inflorescences. The leaf sheaths are mostly glabrous, and the ligule is membranous with cilia. The inflorescence is a narrow terminal panicle consisting of numerous dark brown, lanceoloid spikelets ca. 6-7.5 mm long and 1-1.5 mm wide, each with a twice-geniculate lemma awn ca. 25-40 mm long. This species can be distinguished from the more common and widespread *Sorghastrum secundum* by its narrower, non-secund, arching inflorescences (versus more open, secund and straight inflorescences). *Sorghastrum elliottii* was documented for the first time in Marion County this quarter. (Marion County; 10162025-10636; Doug Hornbeck; 15 October 2025.)

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2b - *Barleria cristata*, side view of flowers showing sepals with prickly margins.
Photo by Walter Hodge, [Atlas of Florida Plants](#)



3 - *Sorghastrum elliottii*, inflorescence.
Photo by Alexander de la Paz, FDACS-DPI



🔍 BOTANY IDENTIFICATION TABLE

The following table provides information about new county records submitted in the reported quarter. The table is organized alphabetically by species name. The full version with more complete data is downloadable as a [PDF](#) or an [Excel](#) spreadsheet, also organized by species name, except new county records are listed first.

SPECIES NAME	COUNTY	LIST NUMBER	COLLECTOR	COLLECTOR 2
<i>Acacia auriculiformis</i>	Glades	12338	Patricia McGill	
<i>Acalypha arvensis</i>	Sumter	10368	William Hangen	
<i>Acalypha arvensis</i>	Flagler	11339	Jennifer Hesse	
<i>Acalypha arvensis</i>	Highlands	11894	Scott Berryman	
<i>Acalypha arvensis</i>	Collier	11842	Jamie Deshazo	
<i>Acalypha setosa</i>	Sumter	11022	William Hangen	
<i>Acmella repens</i>	Union	11154	Sam Hart	
<i>Agdestis clematidea</i>	Hendry	12339	Mary Graham	
<i>Ailanthus altissima</i>	Duval	11826	Chase Groninger	
<i>Allamanda cathartica</i>	Hendry	11485	Mary Graham	
<i>Aristolochia elegans</i>	Nassau	12032	Chase Groninger	
<i>Asystasia gangetica ssp. micrantha</i>	Indian River	10339	Caroline Pride	
<i>Asystasia gangetica ssp. micrantha</i>	Lee	10527	Stefan Hartz	
<i>Barleria cristata</i>	Brevard	11684	Chase Groninger	
<i>Barleria repens</i>	Flagler	11336	Jennifer Hesse	
<i>Butia odorata</i>	Orange	10399	Jennifer McKeever	
<i>Cardiospermum microcarpum</i>	Glades	12812	Mary Graham	
<i>Carya illinoensis</i>	Union	11413	Logan Cutts	
<i>Chamaecrista nictitans var. aspera</i>	Indian River	10103	Caroline Pride	
<i>Chromolaena odorata</i>	Highlands	10992	Caroline Pride	
<i>Chromolaena odorata</i>	Lake	11997	William Hangen	
<i>Cinnamomum camphora</i>	Highlands	10990	Caroline Pride	
<i>Cinnamomum camphora</i>	Columbia	12894	Caroline Pride	
<i>Commelina diffusa</i>	Hamilton	11425	Logan Cutts	
<i>Commelina diffusa</i>	Hendry	12665	Mark Zenoble	
<i>Commelina erecta</i>	Hendry	11603	Mary Graham	
<i>Commelina gambiae</i>	Sumter	10784	William Hangen	
<i>Commelina gambiae</i>	Lake	11636	William Hangen	
<i>Costus pulverulentus</i>	Brevard	10070	Chase Groninger	
<i>Cyperus albostratus</i>	Flagler	11338	Jennifer Hesse	
<i>Cyperus distinctus</i>	Hendry	12670	Mark Zenoble	
<i>Dactyloctenium ctenoides</i>	Nassau	12019	Mark Zenoble	
<i>Dactyloctenium ctenoides</i>	Hendry	12681	Mark Zenoble	
<i>Echinochloa colona</i>	Charlotte	12740	Emily Safran	
<i>Emilia fosbergii</i>	Nassau	12131	Mark Zenoble	
<i>Epipremnum pinnatum</i>	Marion	10148	Nora Marquez	
<i>Eriobotrya japonica</i>	Hendry	9881	Mary Graham	
<i>Eriobotrya japonica</i>	Glades	10152	Mary Graham	
<i>Eucalyptus robusta</i>	Indian River	10374	Caroline Pride	
<i>Eulophia graminea</i>	Hendry	10532	Mary Graham	
<i>Gaillardia pulchella</i>	Union	11406	Logan Cutts	
<i>Gomphrena serrata</i>	Union	11420	Logan Cutts	
<i>Helianthus angustifolius</i>	Hamilton	10132	Sam Hart	
<i>Helianthus angustifolius</i>	Gilchrist	10366	Logan Cutts	
<i>Heteranthera reniformis</i>	St. Johns	11493	Mark Laurint	



SPECIES NAME	COUNTY	LIST NUMBER	COLLECTOR	COLLECTOR 2
<i>Heterotheca subaxillaris</i>	Union	11419	Logan Cutts	
<i>Ilex cassine</i>	Bradford	10847	Sam Hart	
<i>Ilex vomitoria</i>	Columbia	12660	Logan Cutts	
<i>Imperata cylindrica</i>	Santa Rosa	11460	Kayla Walker	
<i>Indigofera hirsuta</i>	Union	11403	Logan Cutts	
<i>Ipomoea hederifolia</i>	Suwannee	11470	Logan Cutts	
<i>Ipomoea indica</i>	Glades	10928	Mary Graham	
<i>Ipomoea indica</i>	Nassau	12136	Chase Groninger	
<i>Ipomoea lacunosa</i>	Pinellas	10518	Pamela Bulu	
<i>Ipomoea leucantha</i>	Indian River	10734	Caroline Pride	
<i>Ipomoea triloba</i>	Glades	9987	Mary Graham	
<i>Ipomoea triloba</i>	Indian River	10721	Caroline Pride	
<i>Ipomoea triloba</i>	Brevard	11542	Chase Groninger	
<i>Jacquemontia tamnifolia</i>	Marion	9957	Nora Marquez	
<i>Juniperus virginiana</i>	Hamilton	11423	Logan Cutts	
<i>Juniperus virginiana</i>	Broward	11746	Mark Zenoble	
<i>Lantana montevidensis</i>	Sumter	10255	Nora Marquez	
<i>Lepidium virginicum</i>	Nassau	12035	Mark Zenoble	
<i>Ligustrum sinense</i>	Hamilton	11422	Logan Cutts	
<i>Macroptilium atropurpureum</i>	Hendry	11604	Mary Graham	
<i>Magnolia grandiflora</i>	Union	11395	Logan Cutts	
<i>Mecardonia procumbens</i>	Sumter	11821	William Hangen	
<i>Mecardonia procumbens</i>	Nassau	11872	Logan Cutts	
<i>Melilotus indicus</i>	Nassau	12139	Chase Groninger	
<i>Mirabilis jalapa</i>	Marion	11275	Nora Marquez	
<i>Momordica charantia</i>	Glades	11161	Mary Graham	
<i>Odontonema cuspidatum</i>	Lake	11077	Nora Marquez	
<i>Oenothera laciniata</i>	Union	11393	Logan Cutts	
<i>Oplismenus burmannii</i>	Hendry	10245	Mary Graham	
<i>Oplismenus burmannii</i>	Sumter	11019	William Hangen	
<i>Parkinsonia aculeata</i>	Nassau	12031	Chase Groninger	
<i>Pectis prostrata</i>	Hendry	10254	Mary Graham	
<i>Pectis prostrata</i>	Baker	10344	Sam Hart	
<i>Persea palustris</i>	Suwannee	12555	Logan Cutts	
<i>Phoenix reclinata</i>	Lake	10941	William Hangen	
<i>Phytolacca americana</i>	Union	11402	Logan Cutts	
<i>Pluchea carolinensis</i>	Hendry	12700	Mark Zenoble	
<i>Plumbago zeylanica</i>	Pinellas	10947	Donald Bracey	
<i>Polypremum procumbens</i>	St. Lucie	11985	Mark Zenoble	
<i>Psidium cattleianum</i>	Hendry	11488	Mary Graham	
<i>Pteris tripartita</i>	Brevard	10792	Chase Groninger	
<i>Quercus incana</i>	Volusia	11647	Jennifer Hesse	
<i>Rubus trivialis</i>	Union	11416	Logan Cutts	
<i>Ruellia simplex</i>	Hernando	10221	Nora Marquez	
<i>Ruellia simplex</i>	Nassau	12027	Mark Zenoble	
<i>Salvia misella</i>	Osceola	10828	Samantha Miller	
<i>Salvinia minima</i>	Columbia	11082	Victoria Benjamin	Samuel Smith
<i>Sapindus marginatus</i>	Orange	11009	Jacob Hicks	
<i>Schefflera actinophylla</i>	Orange	12508	Jacob Hicks	
<i>Senna alata</i>	Hendry	10036	Mary Graham	
<i>Sida ulmifolia</i>	Nassau	12137	Mark Zenoble	
<i>Smallanthus uvedalia</i>	Indian River	10162	Caroline Pride	
<i>Sorghastrum elliottii</i>	Marion	10636	Doug Hornbeck	Paul Cohen
<i>Sorghum halepense</i>	Hendry	12657	Mark Zenoble	
<i>Spartina alterniflora</i>	Nassau	12138	Chase Groninger	
<i>Sphagneticola trilobata</i>	Bradford	10849	Sam Hart	
<i>Symphyotrichum bahamense</i>	Indian River	10674	Caroline Pride	



SPECIES NAME	COUNTY	LIST NUMBER	COLLECTOR	COLLECTOR 2
<i>Symphyotrichum pilosum</i>	Santa Rosa	10684	Kayla Walker	
<i>Tecomaria capensis</i>	Marion	11021	Jimmy Hernandez	
<i>Tecomaria capensis</i>	Sumter	11873	Nora Marquez	
<i>Terminalia muelleri</i>	Hendry	11494	Matthew Brodie	
<i>Thespesia populnea</i>	Charlotte	12475	Christine Podos	
<i>Torenia crustacea</i>	Sumter	10737	William Hangen	
<i>Torenia crustacea</i>	Nassau	12001	Mark Zenoble	
<i>Tradescantia ohiensis</i>	Union	11414	Logan Cutts	
<i>Tradescantia pallida</i>	Marion	11277	Nora Marquez	
<i>Triadica sebifera</i>	Indian River	10340	Caroline Pride	
<i>Tridax procumbens</i>	Union	11404	Logan Cutts	
<i>Triumfetta rhomboidea</i>	Manatee	11608	Lane Southerland, USDA	
<i>Urena lobata</i>	Nassau	11367	Lisa Tyler	
<i>Vaccinium stamineum</i>	Union	11407	Logan Cutts	
<i>Yucca aloifolia</i>	Alachua	11626	Nora Marquez	
<i>Zanthoxylum clava-herculis</i>	Union	11412	Logan Cutts	
<i>Zingiber zerumbet</i>	Hernando	10218	Nora Marquez	
<i>Zingiber zerumbet</i>	Sumter	11870	Nora Marquez	





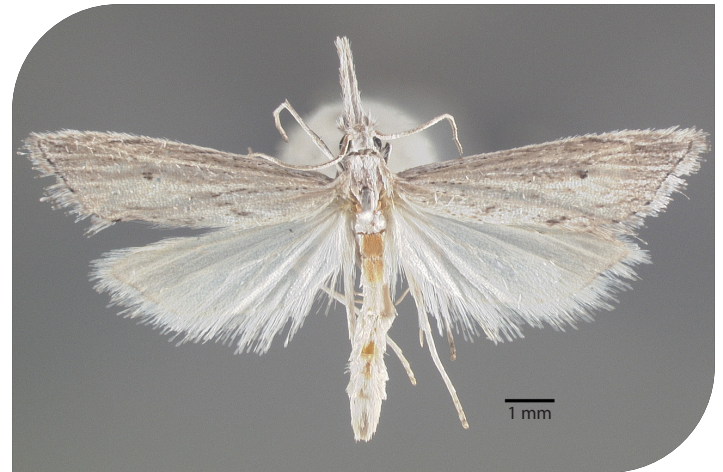
ENTOMOLOGY

Compiled by Susan E. Halbert, Ph.D.

This section provides the division's plant protection specialists and other customers with accurate identifications of arthropods. The Entomology section also builds and maintains the arthropod reference and research collection (the Florida State Collection of Arthropods with over 12.5 million specimens), and investigates the biology, biological control and taxonomy of arthropods.

	OCT - DEC	2025 - YEAR TO DATE
Samples Submitted	1,597	6,271
Lots Identified	2,828	10,516

1 *Haimbachia indistinctalis* Capps, a crambine moth, a new Florida state record. Two moths were collected in an ultraviolet light trap in Highlands Hammock State Park in a general insect survey. The habitat is a xeric hammock bordered by mesic flatwoods. The host plants of this species are not known, but related species, such as *Eoreuma loftini* (Dyar) (Mexican rice borer), can be major stem-boring pests of grasses. *Haimbachia indistinctalis* was described from Texas, and all other collection records are in that state. It is distinguished from related species by the vestigial postmedial line, a slightly conical frons, and the flat, rounded dorsal lobe of the valva. (Highlands County; E-5807-01-11032025-11333; James Hayden and David Serrano, Broward College Insect Collection; 25 October 2025.) (Dr. James E. Hayden.)



1 - *Haimbachia indistinctalis* Capps.
Photo by James E. Hayden, FDACS-DPI

2 *Bactrocera dorsalis* (Hendel), Oriental fruit fly, a regulatory incident. Two male specimens were captured in a Jackson trap baited with methyl eugenol, hung in a sapodilla tree in Davie, Florida. Increased trap densities in a 79-square-mile area around the detection site were maintained, and traps were monitored closely for two life cycles. No additional flies were found, and the delimitation program was terminated on November 18, 2025. (Broward County; E4473-01-09162025-09162; Frank Burgos, USDA-APHIS; 15 September 2025.) (Dr. Craig H. Welch, Dr. Erick J. Rodriguez, and Matthew R. Moore.)



2 - *Bactrocera dorsalis* (Hendel).
Photo by Craig Welch, FDACS-DPI



ENTOMOLOGY SPECIMEN REPORT

The following are tables with entries for records of new hosts or new geographical areas for samples identified in the current volume's reporting period as well as samples of special interest. An abbreviated table, with all the new records, but less detail about them, is presented in the body of this web page and another version with more complete data is downloadable as a [PDF](#) or an [Excel](#) spreadsheet.

The tables are organized alphabetically by plant host if the specimen has a plant host. Some arthropod specimens are not collected on plants and are not necessarily plant pests. In the table below, those entries with no plant information included are organized by arthropod name.

PLANT SPECIES	PLANT COMMON NAME	ARTHROPOD GENUS AND SPECIES	ARTHROPOD COMMON NAME	COLLECTOR	RECORD
<i>Abies balsamea</i>	balsam fir	<i>Ischnopteration virens</i>	white clover weevil	Alexis Thompson, Logan Cutts, Dyrana Russell, Renee Shiska, Justin Anto, Jakira Davis, Donald Bracey, Mark Zenoble, Lisa Tyler, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Aspidiotus cryptomeriae</i>	Cryptomeria scale	Donald Bracey, Chase Groninger, Mark Zenoble, Logan Cutts, Dyrana Russell, Renee Shiska, Justin Anto, Jakira Davis, Jimmy Hernandez, Twylah Morelli, Alexis Thompson	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Aspidiotus cryptomeriae</i>	Cryptomeria scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Aspidiotus cryptomeriae</i>	Cryptomeria scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Aspidiotus cryptomeriae</i>	Cryptomeria scale	Dyrana Russell, Logan Cutts, Renee Shiska, Alexis Thompson, Robert Denoux, Victoria Benjamin, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Aspidiotus cryptomeriae</i>	Cryptomeria scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Aspidiotus cryptomeriae</i>	Cryptomeria scale	Caroline Pride	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Dyrana Russell, Donald Bracey, Mark Zenoble, Lisa Tyler, Renee Shiska, Logan Cutts, Justin Anto, Jakira Davis, Twylah Morelli, Alexis Thompson	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Alexis Thompson, Twylah Morelli, Renee Shiska, Dyrana Russell, Justin Anto, Jakira Davis, Mark Zenoble, Lisa Tyler, Logan Cutts	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Caroline Pride	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Jimmy Hernandez, Chase Groninger, Renee Shiska, Dyrana Russell, Logan Cutts, Justin Anto, Jakira Davis, Twylah Morelli, Alexis Thompson	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Donald Bracey, Chase Groninger, Mark Zenoble, Logan Cutts, Dyrana Russell, Renee Shiska, Justin Anto, Jakira Davis, Jimmy Hernandez, Twylah Morelli, Alexis Thompson	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Donald Bracey, Chase Groninger, Mark Zenoble, Logan Cutts, Dyrana Russell, Renee Shiska, Justin Anto, Jakira Davis, Jimmy Hernandez, Twylah Morelli, Alexis Thompson	Regulatory significance



PLANT SPECIES	PLANT COMMON NAME	ARTHROPOD GENUS AND SPECIES	ARTHROPOD COMMON NAME	COLLECTOR	RECORD
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Donald Bracey, Chase Groninger, Mark Zenoble, Logan Cutts, Dyrana Russell, Renee Shiska, Justin Anto, Jakira Davis, Jimmy Hernandez, Twylah Morelli, Alexis Thompson	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Alexis Thompson, Jakira Davis, Donald Bracey, Mark Zenoble, Jimmy Hernandez, Chase Groninger, Renee Shiska, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Alexis Thompson, Dyrana Russell, Logan Cutts, Renee Shiska, Justin Anto, Jakira Davis, Donald Bracey, Mark Zenoble, Lisa Tyler, Jimmy Hernandez, Chase Groninger, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Alexis Thompson, Dyrana Russell, Logan Cutts, Renee Shiska, Justin Anto, Jakira Davis, Donald Bracey, Mark Zenoble, Lisa Tyler, Jimmy Hernandez, Chase Groninger, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Jakira Davis, Justin Anto	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Jakira Davis, Justin Anto	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Paula Precanico	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Robert Denoux, Dyrana Russell, Alexis Thompson, Renee Shiska, Logan Cutts, Victoria Benjamin, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Robert Denoux, Dyrana Russell, Alexis Thompson, Renee Shiska, Logan Cutts, Victoria Benjamin, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Robert Denoux, Dyrana Russell, Alexis Thompson, Renee Shiska, Logan Cutts, Victoria Benjamin, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Dyrana Russell, Logan Cutts, Renee Shiska, Alexis Thompson, Robert Denoux, Victoria Benjamin, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Dyrana Russell, Logan Cutts, Renee Shiska, Alexis Thompson, Robert Denoux, Victoria Benjamin, Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Twylah Morelli	Regulatory significance



PLANT SPECIES	PLANT COMMON NAME	ARTHROPOD GENUS AND SPECIES	ARTHROPOD COMMON NAME	COLLECTOR	RECORD
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Caroline Pride	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Jacob Bryan, Ruby Long, Ronald Cheshire	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Cameron Suiters	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Ronald Cheshire, Ruby Long, Jacob Bryan	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Paula Precanico, Mark Zenoble	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Vincent Barrios	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Fiorinia externa</i>	elongate hemlock scale	Vincent Barrios	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Hemiberlesia ithacae</i>	hemlock scale	Twylah Morelli	Regulatory significance
<i>Abies fraseri</i>	Fraser's fir, southern balsam fir	<i>Strophosoma melanogrammum</i>	nut leaf weevil	Alexis Thompson, Dyrana Russell, Logan Cutts, Renee Shiska, Justin Anto, Jakira Davis, Donald Bracey, Mark Zenoble, Lisa Tyler, Jimmy Hernandez, Chase Groninger, Twylah Morelli	Regulatory significance
<i>Arundo donax</i>	giant reed	<i>Melanaphis donacis</i>	arundo aphid	Riccardo Tordi	First in county
<i>Asimina parviflora</i>	smallflower pawpaw	<i>Fiorinia proboscidea</i>	snout scale	Ethan Gamble	New Florida host record; regulatory significance
<i>Bambusa multiplex</i>	hedge bamboo	<i>Bambusaspis minuta</i>	bamboo pit scale	Caroline Pride	First in county
<i>Bambusa tuldoidea</i>	puntingpole bamboo	<i>Bambusaspis coronata</i>	a bamboo pit scale	Lyle Buss	Regulatory significance
<i>Bidens alba</i>	beggarticks	<i>Ophraella slobodkini</i>	a chrysomelid beetle	George Lawrence	First in county
<i>Brassica rapa</i>	napa cabbage	<i>Amrasca biguttula</i>	two-spot cotton leafhopper	Twylah Morelli	Regulatory significance
<i>Bulbostylis coarctata</i>	Elliott's hairsedge	<i>Symococcus spirapunctus</i>	a mealybug	Erin Powell, Ethan Gamble	New Florida host record; first in county
<i>Buxus sempervirens</i>	common box, common boxwood, Caucasian boxwood, European box	<i>Monarthropalpus flavus</i>	Boxwood leaf miner	Chase Groninger	Regulatory significance
<i>Buxus sempervirens</i>	common box, common boxwood, Caucasian boxwood, European box	<i>Monarthropalpus flavus</i>	boxwood leafminer	Teresa Ortelli, Alexander Tasi	Regulatory significance
<i>Camellia japonica</i>	common camellia	<i>Fiorinia phantasma</i>	phantasma scale	Riccardo Tordi	New Florida host record
<i>Capsicum annuum</i>	pepper	<i>Amrasca biguttula</i>	two-spot cotton leafhopper	Carly Dodgen	New Florida host record
<i>Capsicum annuum</i>	bell pepper	<i>Amrasca biguttula</i>	two-spot cotton leafhopper	Samuel Smith, Barbra Williams, Dyrana Russell, Jakira Davis, Yvette Montesino, Brandon Di Lella, Logan Cutts, John Eubanks	Regulatory significance
<i>Capsicum annuum</i>	pepper	<i>Bactericera cockerelli</i>	potato psyllid	Stefan Hartz	Regulatory significance
<i>Capsicum annuum</i>	pasilla pepper	<i>Bactericera cockerelli</i>	potato psyllid	Jakira Davis, Justin Anto	Regulatory significance
<i>Carmona microphylla</i>	Fukien tea, Philippine tea, scorpionbush	<i>Andaspis hawaiiensis</i>	Hawaiian scale	Yamiley Guia Riquenes	New Florida Host Record
<i>Carmona microphylla</i>	Fukien tea	<i>Fiorinia phantasma</i>	phantasma scale	Justin Harvey	New Florida host record; regulatory significance
<i>Celtis laevigata</i>	hackberry	<i>Shivaphis celti</i>	Asian woolly hackberry aphid	Riccardo Tordi	First in county
<i>Chrysanthemum</i> sp.	chrysanthemum	<i>Amrasca biguttula</i>	two-spot cotton leafhopper	Carly Dodgen	First in county; new Florida host record; regulatory significance
<i>Chrysanthemum</i> sp.	chrysanthemum	<i>Seira brasiliana</i>	a springtail	Carly Dodgen	First in county
<i>Cichorium endivia</i>	endive, escarole, frisee	<i>Uroleucon picridis</i>	an aphid	Renee Shiska	Regulatory significance
<i>Citrus hystrix</i>	Thai lime, makrut lime	<i>Brepholoxa heidemanni</i>	a stink bug	Jason Rivera	First in county
<i>Coccinia grandis</i>	ivy gourd, tindora	<i>Diaphania nitidalis</i>	pickworm	Laura Dunn, Alexander Tasi	New Florida host record
<i>Conoclinium coelestinum</i>	blue mistflower	<i>Phenacoccus solani</i>	solanum mealybug	Caroline Pride, Alexander Tasi	New Florida host record
<i>Crataegus lasa</i>	sandhill hawthorn	<i>Schizoneurata tissoti</i>	a woolly aphid	Chantelle Viloria, David Ortiz, Armando Noguera, Jose Mayorga, Elizabeth Johnson, Ethan Beesley, George Lawrence, Jacob Haley, William Bailey, Julia Chapman, Rusty Noah, Logan Cutts	New Florida host record



PLANT SPECIES	PLANT COMMON NAME	ARTHROPOD GENUS AND SPECIES	ARTHROPOD COMMON NAME	COLLECTOR	RECORD
<i>Cucurbita pepo</i>	yellow squash	<i>Amrasca biguttula</i>	two-spot cotton leafhopper	Carly Dodgen	New Florida host record; regulatory significance
Cyperaceae	a sedge	<i>Symococcus spirapunctus</i>	a mealybug	Ethan Gamble	First in county
<i>Cyperus croceus</i>	Baldwin's flatsedge	<i>Symococcus spirapunctus</i>	a mealybug	Erin Powell	First in county
<i>Eucalyptus</i> sp.	heavily infested cut eucalyptus branches	<i>Ctenarytaina spatulata</i>	rose gum psyllid	Justin Anto	Regulatory significance
<i>Fragaria x ananassa</i>	strawberry	<i>Chaetosiphon fragaefolii</i>	strawberry aphid	Jakira Davis, Justin Anto	Regulatory significance
<i>Fragaria x ananassa</i>	strawberry	<i>Lygus elisus</i>	pale legume bug	Logan Cutts, Alexis Thompson	Regulatory significance
<i>Fragaria x ananassa</i>	strawberry	<i>Lygus hesperus</i>	a Western lygus bug	Jakira Davis, Justin Anto	Regulatory significance
<i>Fragaria x ananassa</i>	strawberry	<i>Lygus</i> sp.	a Western lygus bug	Jakira Davis, Justin Anto	Regulatory significance
<i>Gaillardia pulchella</i>	firewheel	<i>Neortholomus jamaicensis</i>	a seed bug	Logan Cutts	First in county
Gramineae	unknown grass	<i>Acanthococcus orzo</i>	muhly grass felt scale	Riccardo Tordi	First in county
Gramineae	grass	<i>Paradoxococcus mcdanieli</i>	Johnson grass mealybug	Erin Powell, Ethan Gamble, Rhys Campo	First in county
Gramineae	grass	<i>Symococcus spirapunctus</i>	a mealybug	Elise Pounders	First in county
<i>Haworthia</i> sp.	haworthia	<i>Rhizocis pseudocacticans</i>	a root mealybug	Katherine Steinkamp	New Florida host record
<i>Hibiscus rosa-sinensis</i>	hibiscus	<i>Amrasca biguttula</i>	two-spot cotton leafhopper	Riccardo Tordi	First in county
<i>Hibiscus</i> sp.	hibiscus	<i>Amrasca biguttula</i>	two-spot cotton leafhopper	Carly Dodgen	First in county; regulatory significance
<i>Hydrangea</i> sp.	hydrangea	<i>Thrips setosus</i>	Japanese flower thrips	Karianne Rivera & K-9 Chewie	Regulatory significance
<i>Ilex</i> sp.	holly	<i>Fiorinia proboscidea</i>	snout scale	Riccardo Tordi	First in county; regulatory significance
<i>Impatiens</i> sp.	SunPatens	<i>Halyomorpha halys</i>	brown marmorated stink bug	Sherry Steele, Dyrana Russell, Justin Anto, Yvette Montesino, Victoria Benjamin, Logan Cutts, John Eubanks	Regulatory significance
<i>Lactuca sativa</i>	lettuce, Romaine lettuce, leaf lettuce	<i>Acyrtosiphon lactucae</i>	lettuce aphid	Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	heavily infested lettuce	<i>Agallia barretti</i>	a leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Bactericera cockerelli</i>	potato psyllid	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	heavily infested lettuce	<i>Bactericera</i> sp.	a psyllid	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	green leaf lettuce	<i>Ceratagallia californica</i>	a leafhopper	Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	Romaine hearts	<i>Ceratagallia californica</i>	a leafhopper	Twylah Morelli, Justin Anto, Jenifer Escoto, Kevin Williams, Victoria Benjamin, Brandon Di Lella, Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	green leaf lettuce	<i>Ceratagallia californica</i>	a leafhopper	Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	artisan lettuce	<i>Ceratagallia californica</i>	a leafhopper	Twylah Morelli, Justin Anto, Jenifer Escoto, Kevin Williams, Victoria Benjamin, Brandon Di Lella, Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Ceratagallia californica</i>	a leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Ceratagallia californica</i>	a leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Ceratagallia californica</i>	a leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Ceratagallia</i> sp.	a cicadellid	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	Romaine lettuce	<i>Chlorotettix nigrolabes</i>	a leafhopper	Yamiley Guia Riquenes, Ariadna Gonzalez	Regulatory significance
<i>Lactuca sativa</i>	red leaf lettuce	<i>Coniatus splendidulus</i>	splendid tamarisk weevil	Alexis Thompson, Renee Shiska, Logan Cutts	Regulatory significance
<i>Lactuca sativa</i>	heavily infested lettuce	<i>Dalbulus maidis</i>	corn leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Deltocephalus fuscinevrosus</i>	a leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	baby gem lettuce	<i>Deltocephalus fuscinevrosus</i>	a leafhopper	Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	green leaf lettuce	<i>Deltocephalus fuscinevrosus</i>	a leafhopper	Twylah Morelli, Justin Anto, Jenifer Escoto, Kevin Williams, Victoria Benjamin, Brandon Di Lella, Renee Shiska	Regulatory significance



PLANT SPECIES	PLANT COMMON NAME	ARTHROPOD GENUS AND SPECIES	ARTHROPOD COMMON NAME	COLLECTOR	RECORD
<i>Lactuca sativa</i>	lettuce	<i>Deltocephalus fuscinevrosus</i>	a leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Deltocephalus fuscinevrosus</i>	a leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Deltocephalus fuscinevrosus</i>	a leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	heavily infested lettuce	<i>Frankliniella brunneae</i>	a thrips	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	heavily infested lettuce	<i>Frankliniella williamsi</i>	a thrips	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	green leaf lettuce	<i>Liriomyza langei</i>	California pea leafminer	Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Liriomyza langei</i>	California pea leafminer	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Liriomyza langei</i>	California pea leafminer	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Liriomyza langei</i>	California pea leafminer	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	Romaine hearts	<i>Liriomyza langei</i>	California pea leafminer	Twylah Morelli, Barbra Williams, Samuel Smith, Brandon Di Lella, Kevin Williams, Jakira Davis, Jenifer Escoto, Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	lettuce, Romaine lettuce, leaf lettuce	<i>Liriomyza langei</i>	California pea leafminer	Yvette Montesino, Victoria Benjamin, Dyrana Russell, Cheryl Jones, Kelly Douglas, Sherry Steele, Karianne Rivera, Logan Cutts	Regulatory significance
<i>Lactuca sativa</i>	Romaine hearts	<i>Liriomyza langei</i>	California pea leafminer	Twylah Morelli, Justin Anto, Jenifer Escoto, Kevin Williams, Victoria Benjamin, Brandon Di Lella, Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	green leaf lettuce	<i>Liriomyza langei</i>	California pea leafminer	Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	artisan lettuce	<i>Liriomyza langei</i>	California pea leafminer	Twylah Morelli, Justin Anto, Jenifer Escoto, Kevin Williams, Victoria Benjamin, Brandon Di Lella, Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	green leaf lettuce	<i>Liriomyza langei</i>	California pea leafminer	Kevin Williams, Justin Anto, Sherry Steele, Jenifer Escoto, Twylah Morelli, Victoria Benjamin, Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	lettuce, Romaine lettuce, leaf lettuce	<i>Liriomyza langei</i>	California pea leafminer	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Liriomyza langei</i>	California pea leafminer	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Liriomyza langei</i>	California pea leafminer	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Lygus elisus</i>	pale legume bug	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce, Romaine lettuce, leaf lettuce	<i>Lygus hesperus</i>	a Western lygus bug	Yvette Montesino, Victoria Benjamin, Dyrana Russell, Cheryl Jones, Kelly Douglas, Sherry Steele, Karianne Rivera, Logan Cutts	Regulatory significance
<i>Lactuca sativa</i>	Romaine hearts	<i>Lygus mexicanus</i>	a lygus bug	Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Lygus mexicanus</i>	a plant bug	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	Romaine hearts	<i>Nasonovia ribisnigri</i>	currant-lettuce aphid	Twylah Morelli, Justin Anto, Jenifer Escoto, Kevin Williams, Victoria Benjamin, Brandon Di Lella, Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	Romaine hearts	<i>Nothodelphax consimilis</i>	a delphacid planthopper	Twylah Morelli, Justin Anto, Jenifer Escoto, Kevin Williams, Victoria Benjamin, Brandon Di Lella, Renee Shiska	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Nothodelphax consimilis</i>	a delphacid planthopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Pseudacris sierra</i>	Sierra chorus frog	Logan Cutts, Dyrana Russell, Justin Anto, Kayla Walker, Renee Shiska, Jakira Davis	Significant find
<i>Lactuca sativa</i>	heavily infested lettuce	<i>Scaphytopius fuliginosus</i>	a leafhopper	Jakira Davis, Justin Anto	Regulatory significance
<i>Lactuca sativa</i>	lettuce	<i>Stictopleurus</i> sp.	a scentless plant bug	Alexis Thompson, Dyrana Russell, Logan Cutts, Renee Shiska, Justin Anto, Jakira Davis, Donald Bracey, Mark Zenoble, Lisa Tyler, Jimmy Hernandez, Chase Groninger, Twylah Morelli	Regulatory significance



PLANT SPECIES	PLANT COMMON NAME	ARTHROPOD GENUS AND SPECIES	ARTHROPOD COMMON NAME	COLLECTOR	RECORD
<i>Laportea aestuans</i>	West Indian woodnettle	<i>Aphis gossypii</i>	cotton aphid/melon aphid	Keith Zugar, Mark Zenoble	New Florida host record
<i>Laportea aestuans</i>	West Indian woodnettle	<i>Tetralicia</i> sp.	a whitefly	Keith Zugar, Mark Zenoble	New Florida Host Record
<i>Ligustrum sinense</i> 'Sunshine'	sunshine ligustrum	<i>Aleurotrachelus trachoides</i>	solanum whitefly or pepper whitefly	Patrick Mackay	New Florida host record
<i>Ligustrum sinense</i> 'Sunshine'	sunshine ligustrum	<i>Paraleyrodes naranjae</i>	a whitefly	Patrick Mackay	New Florida host record
<i>Mangifera indica</i>	mango	<i>Eumaeus atala</i>	coontie hairstreak, atala butterfly	Ruben Cliatt	First in county
<i>Manilkara zapota</i>	sapodilla	<i>Bactrocera dorsalis</i>	Oriental fruit fly	Frank Burgos	Regulatory significance
<i>Mentha</i> sp.	Mint	<i>Haplothrips robustus</i>	a thrips	Logan Cutts	Regulatory significance
<i>Mentha</i> sp.	Mint	<i>Ovatus crataegarius</i>	mint aphid	Logan Cutts	Regulatory significance
<i>Monarda punctata</i>	spotted beebalm	<i>Anchonus blatchleyi</i>	a weevil	Dyrana Russell, Logan Cutts	First in county
<i>Pachypodium</i> sp.	pachypodium	<i>Fiorinia phantasma</i>	phantasma scale	Julian Cordo	New Florida host record
<i>Panicum repens</i>	quack grass	<i>Pintalia delicata</i>	a cixiid planthopper	Carly Dodgen, John McVay	First in county
<i>Panicum repens</i>	quack grass	<i>Toya idonea</i>	a delphacid planthopper	Carly Dodgen, John McVay	First in county; new Florida host record
<i>Petroselinum crispum</i>	Italian parsley	<i>Cavariella aegopodii</i>	carrot aphid	Matthew Flanagan, Barbra Williams, Brandon Di Lella, Twylah Morelli, Jeniffer Escoto, Jakira Davis, Samuel Smith, Kevin Williams, Renee Shiska	Regulatory significance
<i>Petroselinum crispum</i>	parsley	<i>Craspedolepta martini</i>	a psyllid	Dyrana Russell, Logan Cutts, Alexis Thompson	Regulatory significance
<i>Phyllostachys nigra</i>	black bamboo	<i>Antonina nakaharai</i>	a mealybug	Employee	Regulatory significance
<i>Physalis philadelphica</i>	Cascara tomatillo; common tomatillo	<i>Bactericera cockerelli</i>	potato psyllid	Renee Shiska	Regulatory significance
<i>Pinus</i> and/or <i>Abies</i> wood	lumber from ship originating in Latvia	<i>Pieris brassicae</i>	large cabbage white	Julia Chapman, Rusty Noah, Chantelle Vilorio	Regulatory significance
<i>Pinus strobus</i>	eastern white pine	<i>Chionaspis pinifoliae</i>	pine needle scale	Lisa Tyler	Regulatory significance
<i>Pinus strobus</i>	eastern white pine	<i>Chionaspis pinifoliae</i>	pine needle scale	Lisa Tyler	Regulatory significance
<i>Pinus strobus</i>	eastern white pine	<i>Chionaspis pinifoliae</i>	pine needle scale	Paula Precanico, Mark Zenoble	Regulatory significance
<i>Poncirus trifoliata</i>	trifoliolate orange	<i>Leptoglossus zonatus</i>	a leaffooted bug	Riccardo Tordi	New Florida host record; first in county
<i>Pouzolzia zeylanica</i>	graceful Pouzol's bush	<i>Planococcus minor</i>	a mealybug	Keith Zugar, Mark Zenoble	New Florida host record
<i>Pouzolzia zeylanica</i>	graceful Pouzol's bush	<i>Planococcus minor</i>	Lebbeck mealybug	Keith Zugar, Mark Zenoble	New Florida host record
<i>Pseudotsuga menziesii</i>	Douglas fir	<i>Pseudocris regilla</i>	Pacific tree frog	Matthew Flanagan, Barbra Williams, Brandon Di Lella, Twylah Morelli, Jeniffer Escoto, Jakira Davis, Samuel Smith, Kevin Williams, Renee Shiska, Dyrana Russell, Victoria Benjamin	Significant find
<i>Psidium cattleyanum</i>	Cattley guava; strawberry guava	<i>Cryptocephalus irroratus</i>	a leaf beetle	Eduardo Solis	First in county
<i>Pueraria montana</i> var. <i>lobata</i>	kudzu	<i>Anaphothrips sudanensis</i>	a thrips	Felipe Soto-Adames	New Florida host record; first in county
<i>Quercus</i> sp.	oak	<i>Microlychnia pusilla</i>	a louse fly	Wayne Ernst	First in county
<i>Rhizophora mangle</i>	red mangrove	<i>Fiorinia phantasma</i>	phantasma scale	David Ortiz, Armando Noguera	New Florida host record, regulatory significance
<i>Ricinus communis</i>	castorbean	<i>Stethoconus praefectus</i>	a lace bug predator	Mary Sellers	First in county
<i>Rosa</i> sp.	rose	<i>Phyllocoptes fructiphilus</i>	an eriophyid mite	La Tanya Richards, Caroline Gallagher	Regulatory significance
<i>Rosa</i> sp.	rose	<i>Phyllocoptes fructiphilus</i>	an eriophyid mite	Lisa Tyler	Regulatory significance
<i>Rubus</i> sp.	raspberry	<i>Amphorophora</i> sp.	an aphid	Jakira Davis, Justin Anto	Regulatory significance
<i>Rubus trivialis</i>	southern dewberry	<i>Phenacoccus solenopsis</i>	solenopsis mealybug	Jennifer Henry	New Florida host record
<i>Serenoa repens</i>	saw palmetto	<i>Karnyothrips melaleucus</i>	a thrips	Isabelle Atchia	First in county
<i>Sida ulmifolia</i>	common wireweed	<i>Phenacoccus miruku</i>	a mealybug	Donald Bracey	First in county
<i>Solanum diphyllum</i>	twoleaf nightshade	<i>Arvelius albopunctatus</i>	tomato stink bug	Eduardo Solis	First in county



PLANT SPECIES	PLANT COMMON NAME	ARTHROPOD GENUS AND SPECIES	ARTHROPOD COMMON NAME	COLLECTOR	RECORD
<i>Solidago leavenworthii</i>	Leavenworth's goldenrod	<i>Asteromyia carbonifera</i>	a gall midge	Chantelle Vilorio, David Ortiz, Armando Noguera, Jose Mayorga, Elizabeth Johnson, Ethan Beesley, George Lawrence, Jacob Haley, William Bailey, Julia Chapman, Rusty Noah, Logan Cutts	First in county
<i>Spermacoce verticillata</i>	shrubby false buttonweed	<i>Neolochmaea dilatipennis</i>	a leaf beetle	Donald Bracey	First in county
<i>Swietenia mahagoni</i>	West Indian mahogany	<i>Fiorinia phantasma</i>	phantasma scale	Armando Noguera	New Florida host record
<i>Swietenia mahagoni</i>	West Indian mahogany	<i>Fiorinia phantasma</i>	phantasma scale	Kevin Martinez Gonzalez	New Florida host record
<i>Thuja</i> sp.	Arborvitae 'Emerald green'	<i>Diaprepes abbreviatus</i>	diaprepes root weevil	Karianne Rivera, Logan Cutts & K-9 Chewie	Regulatory significance
<i>Urena lobata</i>	Caesar weed	<i>Amrasca biguttula</i>	two-spot cotton leafhopper	Brad Danner, Carly Dodgen	First in county; regulatory significance
<i>Vesicularia</i> sp.	moss	<i>Rhopalosiphum nymphaeae</i>	waterlily aphid	Paula Precanico	New Florida host record
<i>Vitis</i> sp.	grape	<i>Cadra figulilella</i>	raisin moth	Jakira Davis, Justin Anto	Regulatory significance
<i>Vitis</i> sp.	grape	<i>Cadra figulilella</i>	raisin moth	Jakira Davis, Justin Anto	Regulatory significance
<i>Vitis</i> sp.	grape	<i>Planococcus ficus</i>	a mealybug	Jakira Davis, Justin Anto	Regulatory significance
		<i>Aphanisticus cochinchinae</i>	a buprestid beetle	Mark Zenoble	First in county
		<i>Bothriocera drakei</i>	a cixiid planthopper	Douglas Restom-Gaskill	First in county
		<i>Carynota maculata</i>	a treehopper	Logan Cutts, Dyrana Russell, Renee Shiska, Alexis Thompson	First in county
		<i>Cryptostemma</i> sp.	a dipsocorid bug	Douglas Restom-Gaskill	First in county
		<i>Diaprepes abbreviatus</i>	diaprepes root weevil	Gregg Farina	Regulatory significance
		<i>Eumetopiella rufipes</i>	a picture-winged fly	Julie Laur	First in county
		<i>Haimbachia indistinctalis</i>	a crambine moth	James Hayden, David Serrano	New Florida state record
	found at station	<i>Halyomorpha halys</i>	brown marmorated stink bug	Twylah Morelli	Regulatory significance
		<i>Hoplothrips pergandei</i>	a thrips	Isabelle Atchia	First in county
		<i>Karyothrips americanus</i>	a thrips	Felipe Soto-Adames, Isabelle Atchia	First in county
		<i>Keltonia tuckeri</i>	a mirid plant bug	Jennifer McKeever	First in county
		<i>Melanophthalma picta</i>	a scavenger beetle	Mark Zenoble	First in county
		<i>Osteopilus septentrionalis</i>	Cuban treefrog	Logan Cutts	First in county
		<i>Pila scutata</i>	an apple snail	Lisa Tyler	Regulatory significance
		<i>Polyamia obtecta</i>	a leafhopper	Chase Groninger	First in county
		<i>Rhinoleucophenga obesa</i>	a vinegar fly	Mark Walker	First in county
		<i>Spodoptera pulchella</i>	Caribbean armyworm	Alexander Tasi	First in county





NEMATOLOGY

Compiled by Renato N. Inserra, Ph.D. and Janete A. Brito, Ph.D.

This section analyzes soil and plant samples for nematodes, conducts pest detection surveys and provides diagnoses of plant problems, in addition to completing identification of plant parasitic nematodes involved in regulatory and certification programs. State of Florida statutes and rules mandate the predominant regulatory activities of the section. Analyses of plant and soil samples include those from in-state programs, plant shipments originating in Florida destined for other states and countries, as well as samples intercepted in Florida from outside the United States.

QUARTERLY ACTIVITY REPORT

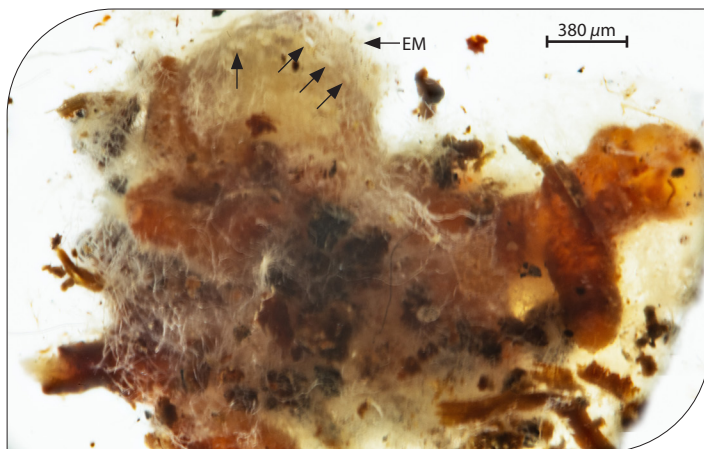
	OCTOBER - DECEMBER	2025 - YEAR TO DATE
Morphological Identifications	4,061	17,352
Molecular Identifications *	290	1,289

* The majority of these analyses involved root-knot nematode species.

Nematode of Special Interest

1 *Meloidogyne megatyla* Baldwin and Sasser, 1979, the pine root-knot nematode, was obtained from loblolly pine roots, *Pinus taeda* L. collected in Newnans Lake State Forest, Gainesville, Florida. (Alachua County; 03122025-02240; Forest Biologist Jeff Eickwort, 03 December 2025.)

There are five root-knot nematodes in the genus *Meloidogyne* Göldi, 1887 that parasitize pines (*Pinus* spp.) in the United States. These species have been found mainly in southeastern states and include *M. arenaria* (Neal, 1889) Chitwood, 1949, *M. incognita* (Kofoid and White, 1919), Chitwood, 1949, *M. javanica* (Treub, 1885) Chitwood, 1949, *M. megatyla* Baldwin and Sasser, 1979 and *M. pini* Eisenback, Yang and Hartman, 1985. The first three species were reported by Ruehle and Sasser (1962), Hopper (1958), and Donaldson (1967), whereas the last two were found and described by Baldwin and Sasser (1979) and Eisenback et al. (1985), respectively. *Meloidogyne arenaria*, *M. incognita* and *M. javanica* are polyphagous species with a very wide host range, on the contrary, *M. megatyla* and *M. pini* have a narrow host range limited to pines. Based on findings of this quarter and historical records, two species of *Meloidogyne* have been reported on *Pinus* spp. in Florida, *M. javanica* by Donaldson and *M. megatyla* by Lehman (2002). However, prior to this quarter, identification of these two species in the state had not been confirmed by subsequent nematode surveys and identification studies. The morphological identification of root-knot nematode species is usually challenging and requires the analysis of the morphology of (1) motile second stage juveniles (J2), (2) males, and (3) sedentary obese females. The configuration of the body annulation around the anus and vulva (perineal pattern) in swollen females is a character



1 - Stubby mycorrhizal fibrous roots parasitized by *Meloidogyne megatyla* and covered by a mycelium of ectomycorrhizae. Note a large nematode egg mass (EM) showing nematode eggs (arrowed) embedded in the gelatinous matrix. Photo by Jeffrey Lotz and assembled by Scott Burton, FDACS-DPI



of relevant diagnostic value. The speciation of *M. megatyla* in pine roots is more challenging than that of other root-knot nematodes because the obese females of this species escape detection and are difficult to find due to their low number and lack of formation of prominent root galls. A nematode survey was conducted in April 2025 in Newnans Lake State Forest in North Florida. Life stages of a root-knot nematode consisting of J2, adults and egg-masses were found in soil and root samples collected from loblolly pine trees (*Pinus taeda* L.). Examination of the roots parasitized by the nematode revealed presence of egg-masses surrounded by mycorrhizal stubby fibrous roots (Fig. 1). Obese egg-laying females were located under the egg-masses with their body embedded in the mycorrhizal root tissues. Morphological characters and morphometrics of both the J2, males and shape of the perineal patterns of females matched those of *M. megatyla*, confirming the occurrence of this nematode in Florida. Since *M. megatyla* was described morphologically in North Carolina using a population from the same host and has not been characterized molecularly and biochemically, molecular and isozyme analyses of this Florida population are in progress to obtain molecular and biochemical data for a more accurate diagnosis of this species.

ACKNOWLEDGMENTS

The participation of Forest Biologist Jeff Eickwort, FDACS-Florida Forest Service, in the nematode surveys conducted in pine forests played a pivotal role in detection of the nematode in pine roots.

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SAMPLES FOR MOLECULAR ANALYSIS

	OCTOBER - DECEMBER	2025 - YEAR TO DATE
Regulatory Purposes	201	723
Other Purposes	0	0
Identifications	89	566
Surveys	0	0
Total	290	1,289

SAMPLES FOR MORPHOLOGICAL ANALYSIS

Certifications and Regulatory Purposes

	OCTOBER - DECEMBER	2025 - YEAR TO DATE
Multistate Certification involving California	1,326	4,476
Multistate Certification excluding California Certification	1,876	8,598
Citrus Certification (Citrus Nursery Certification, Site or Pit Approval)	44	186
Total	3,246	13,260

Other Purposes

	OCTOBER - DECEMBER	2025 - YEAR TO DATE
Identification (other organisms)	1	1
Identification (plant-parasitic nematodes)	45	89
Agricultural Interdiction Stations (AIS)	18	168
Plant Problems	42	100
Survey	0	502
Total	106	860

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PLANT PATHOLOGY

Compiled by Jodi Hansen, M.S.; Hector Urbina, Ph.D.; Kishore Dey, Ph.D.; Patricia Soria, M.S.; Shelby Kernahan, B.S.; Claudia Paez, Ph.D.; Vishal Negi, Ph.D.; and Taryn Griffith, B.S.

The Plant Pathology section provides plant disease diagnostic services for the department. The agency-wide goal of protecting the flora of Florida very often begins with accurate diagnoses of plant problems. Management recommendations are offered where appropriate and available. Our plant pathologists are dedicated to keeping informed about endemic plant diseases along with those diseases and disorders active outside Florida in order to be prepared for potential introductions of new pathogens to our area.

1 Callicarpa mosaic-associated virus 1 (CaMaV1, Genus: *Emaravirus*), **a new state record**, was found on *Callicarpa americana* L. (American beautyberry, Family: Lamiaceae) in Citrus County, Florida. Symptomatic leaves displayed a yellow mosaic and leaf deformation. CaMaV1 is a type of emaravirus recently described by the USDA-ARS (2023) in tandem with Callicarpa mosaic-associated virus 2, CaMaV2. Both CaMaV1 and CaMaV2 were first genetically verified using the whole genome sequence of symptomatic *C. americana* plants from Alabama (USDA, 2023). Although symptomatic beautyberry plants have been collected and received at FDACS-DPI throughout the years, this is only the second time CaMaV1 has ever been detected, and the first time in Florida.

In this sample, all genome segments of CaMaV1 and CaMaV2 were present. For emaraviruses for which the vector is known, the virus is transmitted by various species of eriophyid mites (USDA, 2023). Given how recent CaMaV1 was identified, the role of these mites in transmission is still not known. This finding highlights the importance of identifying previously uncharacterized and emerging viruses on Florida's key ornamental crops through whole genome sequencing. (Citrus County; 09112025-08956; Abby Bartlett and Stephen Jenner; 11 September 2025.)

2 Sida golden mosaic virus (SiGMV, Genus *Begomovirus*), **a new host record**, has been found on *Passiflora edulis* Sims (passionfruit, Family: Passifloraceae), a tropical climbing and fruiting vine, at the University of Florida in Gainesville, Alachua County, Florida. The submitted sample exhibited yellow mottling and severe foliar deformities, characteristic symptoms of the disease. SiGMV was first detected in Florida in 2006 when growers had suffered significant economic losses from the decline of snap bean crops (*Phaseolus vulgaris* L.) infected by the virus (Gautam et al., 2023). Host range studies for SiGMV throughout the years have revealed that the virus is closely related to other sida viruses reported in the western hemisphere (Gautam et al., 2023). Furthermore, research on SiGMV identified it is transmitted by white flies (*Bemisia tabaci*), and it has infected a wide range of hosts from commercial crops to perennial plants (Gautam et al., 2023). Records of infection from other *Passiflora* species in Brazil, are reported of several related *Begomovirus* species, such as Sida mottle Alagoas virus (Mituti et al., 2018) and Melochia yellow



1 - Callicarpa mosaic-associated virus 1 on *Callicarpa americana* showing mosaic and leaf deformation.

Photo by Shelby Kernahan, FDACS-DPI



2 - Sida golden mosaic virus infection exhibiting mottling and leaf crumple in *Passiflora edulis*.

Photo by Shelby Kernahan, FDACS-DPI



mosaic virus (Spadotti et al., 2019). Although the symptoms of infection can overlap between these other *Begomovirus* species and SiGMV, neither Sida mottle Alagoas virus nor Melochia yellow mosaic virus have been documented in Florida. Potyviruses, other Geminiviridae, and several other genera of viruses have also been found in various *Passiflora* species within recent years worldwide (Wu et al., 2024), prompting attention from the scientific community to identify pathogenic challenges for passionfruit production and ornamental plant propagation. It is important for the industry to safeguard the economic importance of *Passiflora* in Florida, for growers and consumers alike, with continued identification and research. (Alachua County; 1102025-11614; external collector; 6 November 2025.)

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QUARTERLY ACTIVITY REPORT

	OCTOBER - DECEMBER	2025 - YEAR TO DATE
Citrus black spot	57	225
Citrus canker	105	901
Citrus greening / HLB	30	242
HLB certification for out-of-state shipping	2,620	6,434
Import inspections	9	29
Interdictions	53	220
Palm phytoplasma	1	13
Pathology, General	1,195	3,752
Soil	55	191
Totals	4,125	12,007



PLANT PATHOLOGY IDENTIFICATION TABLE

The following table provides information about samples identified between October - December 2025. The table is organized alphabetically by plant species, with new records listed on the right.

PLANT SPECIES	PLANT COMMON NAME	CAUSAL AGENT	DISEASE NAME	LOCATION TYPE	SPECIMEN #	COUNTY	COLLECTOR	DATE	NEW RECORDS
<i>Acer rubrum</i>	red maple	<i>Fusarium decemcellulare</i>	wilt	nursery	P3358-11052025-11503	Lake	External Collector	10/28/25	Florida host record
<i>Callicarpa americana</i>	American beautyberry	Callicarpa mosaic-associated virus 1 (CaMaV1)	none	natural area at nursery	P2750-09112025-08956	Citrus	Abby Bartlett, Stephen Jenner	9/11/25	State record
<i>Passiflora edulis</i>	passion vine	Sida golden mosaic virus (SiGMV)	none	landscape	P3385-11102025-11614	Alachua	External collector	11/6/25	Florida host record
<i>Rosa</i> sp.	rose	<i>Phytophthium helicoides</i>	root and stem rot	nursery	P3195-10222025-10869	Volusia	Diane McColl	10/22/25	Florida host record
<i>Tabebuia impetiginosa</i>	pink trumpet tree ipe quebracho pau d'arco	<i>Plagiostoma phragmiticola</i>	deformation and puckering of leaves	landscape at nursery	P3068-10102025-10381	Hillsborough	Kristin Doeblin	10/10/25	New hemisphere record
<i>Thunbergia fragrans</i>	whitelady, white thunbergia, sweet clock vine	<i>Podosphaera xanthii</i>	powdery mildew	nature trail	P3857-12292025-13062	Volusia	Jennifer Hesse	12/26/25	Florida host record





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