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# TRI-OLOGY

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

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



## BOTANY

Providing information about plants: native, exotic, protected and weedy



## ENTOMOLOGY

Identifying arthropods, taxonomic research and curating collections



## NEMATODOLOGY

Providing certification programs and diagnoses of plant problems



## PLANT PATHOLOGY

Offering plant disease diagnoses and information





## ABOUT TRI-OLOGY

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-OLOGY 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-OLOGY

Section Editor. Year. Section Name. P.J. Anderson and G.S. Hodges (Editors). TRI-OLOGY Volume (number): page. [Date you accessed site.]

For example: S.E. Halbert. 2015. Entomology Section. P.J. Anderson and G.S. Hodges (Editors). TRI-OLOGY 54(4): 9. [Accessed 5 June 2016.]

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## ACKNOWLEDGEMENTS

The editors would like to acknowledge the work of all those who contributed information and explanations by providing data, photographs or text, and by carefully reading early drafts.

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

Thank you,

Gregory Hodges, Ph.D.  
Editor  
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Patti J. Anderson, Ph.D.  
Managing Editor  
Botanist, Division of Plant Industry

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Cover Photo

*Thunbergia fragrans*, the white lady or sweet clock vine.  
Photo by Forest & Kim Starr Images



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## HIGHLIGHTS

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**1** *Anredera vesicaria* (Lam.) C. F. Gaertn. (Texas madeiravine; sacasile), is native to south Texas, Mexico, Central America, South America and the Old World tropics. It was introduced to Florida as an ornamental and has now been documented in 13 counties across the central and southern peninsula where it grows in disturbed areas, and along fencerows, roadsides and thickets. This is a new **County record** for Brevard County.



1 - *Anredera vesicaria*, Texas madeiravine; sacasile, fruit.  
Photo from [CABI \(Centre for Agriculture and Bioscience International\)](#)

**2** *Dendropsyche venezuelae* Davis, a bagworm moth, a new **Continental USA** record, was found in a trap in Miami-Dade County. This species was described from specimens collected in northern South America and has also been recorded in Jamaica and the Bahamas.



2 - *Dendropsyche venezuelae* Davis.  
Photo by James Hayden, FDACS-DPI

**3** *Meloidogyne incognita* (Kofoid and White, 1919) Chitwood, 1949 was found infecting the roots of noni, *Morinda citrifolia*. A root sample collected at a nursery in Miami-Dade County, Florida, was clearly galled, a typical symptom induced by root-knot nematodes. Nematode species identification was performed using DNA-based methods.

**4** Odonotoglossum ringspot virus (ORSV, Genus: Tobamovirus) and Cymbidium mosaic virus (CymMV, Genus: Potexvirus), with ORSV being a new **Florida Host record**, have been found simultaneously in *Spathoglottis plicata* (Family: Orchidaceae) on a residential site in Broward County, Florida.



3 - *Morinda citrifolia*, noni, fruit and leaves.  
Photo from Shutterstock



4 - Odonotoglossum ringspot virus and Cymbidium mosaic virus on *Spathoglottis plicata*. Overall decline and necrotic edges on newer leaves.  
Photo by Patricia Soria, DPI





## BOTANY

Compiled by Patti J. Anderson, Ph.D. and Alex de la Paz, B.S.

The Botany section of the Division of Plant Industry identifies plants for regulatory purposes as well as for other governmental agencies and private individuals. The section maintains a reference herbarium with over 18,000 plants and 1,400 vials of seeds.

### QUARTERLY ACTIVITY REPORT

|   | OCTOBER -<br>DECEMBER | 2024 - YEAR<br>TO DATE |
|---|-----------------------|------------------------|
| Samples Submitted<br>by Other DPI Sections                | 976                   | 5,717                  |
| Samples Submitted<br>for Botanical<br>Identification Only | 222                   | 1,218                  |
| Total Samples<br>Submitted                                | 1,198                 | 6,935                  |
| Specimens Added to<br>the Herbarium                       | 262                   | 812                    |



1a - *Anredera vesicaria*, Texas madeiravine, flowers and leaves.  
Photo by Shirley Denton

Some of the samples submitted recently are described below.

**1** *Anredera vesicaria* (Lam.) C. F. Gaertn. (Texas madeiravine; sacasile), from a genus of 12 species distributed across the tropical and subtropical Americas, in the plant family Basellaceae. This species is native to South Texas, Mexico, Central America, South America and the Old World tropics. It was introduced to Florida as an ornamental and has now been documented in 13 counties across the central and southern peninsula where it grows in disturbed areas, and along fencerows, roadsides and thickets. The first recorded occurrence of *A. vesicaria* in the state was documented with a 1964 herbarium specimen from Collier County. Plants are perennial herbaceous vines with twining, glabrous stems up to 8 meters (ca. 26 ft) long, producing tubers at or below the soil surface or in the lower leaf axils. The leaves are alternate, petiolate and ovate to elliptic with entire margins and glabrous surfaces. The inflorescence is composed of racemes or branched panicles of racemes, each consisting of numerous tiny, fragrant, cream-white colored flowers. The flowers are bisexual or functionally unisexual, each with two elliptic, keeled sepals becoming winged in fruit, five elliptic, spreading petals, five stamens and a superior ovary with three styles. The fruit is an utricle (a small, thin-walled, one-seeded, inflated fruit) enclosed by the persistent winged calyx. This species has two morphologically distinct forms, considered as functionally staminate (called male) and functionally pistillate (called female). When the species was first described and named, the two forms were thought to be two different species: *Boussingaultia leptostachys* and *Anredera vesicaria*. Functionally pistillate plants (traditional *A. vesicaria*) apparently do not produce pollen, yet produce fruit. Functionally staminate



1b - *Anredera vesicaria*, Texas madeiravine, flowers.  
Photo by Shirley Denton



plants (traditional *Boussingaultia leptostachys*) produce pollen, but rarely produce fruit. Now, the two names are known to refer to one species, with *Boussingaultia leptostachys* considered to be a synonym for the currently accepted name of the species. Both forms produce tubers at the base of the stem and below ground, and this is the apparent means of reproduction of the staminate plants. It is often cultivated for its showy inflorescences and fragrant flowers which bloom in late summer to fall. The tubers or rhizomes are eaten as a starch, and the plant is used as medicine across its range to treat wounds, infections, fractures and as an anti-inflammatory. *Anredera vesicaria* was documented for the first time in Brevard County this quarter. (Brevard County; LIST 11062024-10988; Chase Groninger; 31 October 2024.) (Vincent, 2003; Weakley and Southeastern Flora Team, 2025; Wunderlin and Hansen, 2011).

**2 *Elaeagnus pungens* Thunb. (silverthorn; thorny olive)** from a genus of 40-45 species native mainly to temperate regions, in the plant family Elaeagnaceae, the oleaster family. This species is native to China, South Korea and Japan but has become naturalized in several states after being introduced as an ornamental in the 1830s. It was sometimes planted as a hedge in landscapes and along highways to provide a dense screen in a short time. Unfortunately, this plant has often escaped from cultivation into nearby natural areas. Silverthorn is listed as a Category II invasive species by Florida Invasive Species Council, meaning it has been found growing aggressively in natural areas but is not yet known to alter native plant communities. *Elaeagnus pungens* has been documented in 22 Florida counties scattered from Escambia to Palm Beach. Two other species in this genus, *E. angustifolia* and *E. umbellata*, have also become pest plants in Florida or other states. Because *E. pungens* is a nitrogen-fixing species (growing in association with the nodule-forming actinomycete fungi, *Frankia* spp.), it might have an advantage over other non-nitrogen-fixing plants in disturbed areas with poor soils. Silverthorn is a fast-growing shrub, 2-5 m tall, with multiple stems armed with sharp thorns, and often seen sprawling into branches of neighboring plants. The alternate, simple, leathery, evergreen leaves with wavy margins are covered by scales on both blade surfaces: dense, shiny, ashy-white or brown on the undersides and shiny or dull, dark silvery green on the upper surface. The thick petioles are woody. Inflorescences are clusters of two to four tiny, fragrant flowers with four white- or cream-colored sepals, about 6 mm long, and four stamens. There is one stigma and no petals. The red or reddish-brown fruits are oblong, 8–12 mm long, and sparsely covered by scattered brown scales. This sample was a new record for St. Johns County where it was found growing in a natural area of the Guano Tolomato Matanzas National Estuarine Research Reserve. (St. Johns County; LIST 10022024-10113; Mark Laurint, Ray Jarrett, Lisa Tyler, Kelly Douglas, Diane McColl, David Brown, Kenneth Ellis, Cheryl Jones, DeAnn Hansen, Jennifer Hesse and Randi Shreve; 2 October 2024.) (Clawson, et al., 1997; Mabberley, 2017; Shultz and Varga, 2022; Weakley and Southeastern Flora Team, 2024; Wunderlin and Hansen, 2011; 2016; <https://www.cabidigitallibrary.org/doi/full/10.1079/cabicompdiem.20725> [accessed 26 December 2024].)



2a - *Elaeagnus pungens*, silverthorn, fruit and leaf underside.  
Photo by Allen Boatman, [Atlas of Florida Plants](#)



2b - *Elaeagnus pungens*, silverthorn, flowers and upper surface of leaves.  
Photo by Keith Bradley, [Atlas of Florida Plants](#)



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## 🔍 BOTANY IDENTIFICATION TABLE

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

| COLLECTOR NAME    | COLLECTOR 2  | LIST NUMBER | RECEIVED DATE | PLANT NAME                                    | COUNTY       |
|-------------------|--|-------------|---------------|---|--------------|
| Bobbe Rose        |  | 11579       | 12/3/2024     | <i>Dianella ensifolia</i>                     | Pinellas     |
| Bobbe Rose        |  | 11570       | 12/3/2024     | <i>Oeceoclades maculata</i>                   | Pinellas     |
| Caroline Pride    |  | 11239       | 11/20/2024    | <i>Sorghum bicolor ssp. bicolor</i>           | Indian River |
| Chase Groninger   |  | 10988       | 11/7/2024     | <i>Anredera vesicaria</i>                     | Brevard      |
| Christine Podos   |  | 11915       | 12/11/2024    | <i>Broussonetia papyrifera</i>                | Collier      |
| Christine Podos   |  | 11692       | 12/5/2024     | <i>Salvia misella</i>                         | Collier      |
| Gary Webb         | Daniel Merced, Vaden Edmondson, Cynthia Blattenberger, Christina Huetcher, Alec Nash | 12133       | 12/16/2024    | <i>Capsella bursa-pastoris</i>                | Pasco        |
| Gary Webb         | Daniel Merced, Vaden Edmondson, Cynthia Blattenberger, Christina Huetcher, Alec Nash | 12132       | 12/16/2024    | <i>Thunbergia fragrans</i>                    | Pasco        |
| Janie Echols      |  | 10931       | 11/6/2024     | <i>Imperata cylindrica</i>                    | Columbia     |
| Jeffrey Eickwort  | Brent Dixon, Dion Baskara  | 10991       | 11/6/2024     | <i>Sideroxylon reclinatum ssp. reclinatum</i> | Suwannee     |
| Jennifer Hesse    |  | 11022       | 11/8/2024     | <i>Fimbristylis cymosa</i>                    | Flagler      |
| Jennifer Hesse    | Ray Jarrett  | 11616       | 12/5/2024     | <i>Thunbergia grandiflora</i>                 | Volusia      |
| Jennifer Mckeever | Erika Lozano   | 10637       | 10/30/2024    | <i>Commelina gambiae</i>                      | Orange       |
| Jennifer Mckeever |  | 11231       | 11/19/2024    | <i>Tradescantia zebrina</i>                   | Orange       |
| Lane Smith        |  | 10171       | 10/8/2024     | <i>Dalbergia sissoo</i>                       | Palm Beach   |
| Logan Cutts       |  | 10295       | 10/15/2024    | <i>Antigonon leptopus</i>                     | Gilchrist    |
| Logan Cutts       |  | 10676       | 10/29/2024    | <i>Baccharis halimifolia</i>                  | Dixie        |
| Logan Cutts       |  | 10682       | 10/29/2024    | <i>Betula nigra</i>                           | Madison      |
| Logan Cutts       |  | 10601       | 10/25/2024    | <i>Calyptocarpus vialis</i>                   | Columbia     |
| Logan Cutts       |  | 10208       | 10/7/2024     | <i>Castanea pumila</i>                        | Union        |
| Logan Cutts       |  | 10375       | 10/17/2024    | <i>Cephalanthus occidentalis</i>              | Gilchrist    |
| Logan Cutts       |  | 10294       | 10/15/2024    | <i>Conoclinium coelestinum</i>                | Baker        |
| Logan Cutts       |  | 10515       | 10/22/2024    | <i>Crotalaria spectabilis</i>                 | Baker        |
| Logan Cutts       |  | 10513       | 10/22/2024    | <i>Dicerandra linearifolia var. robustior</i> | Gilchrist    |
| Logan Cutts       |  | 10229       | 10/8/2024     | <i>Eriobotrya japonica</i>                    | Levy         |
| Logan Cutts       |  | 12258       | 12/19/2024    | <i>Erythrina herbacea</i>                     | Dixie        |
| Logan Cutts       |  | 10427       | 10/18/2024    | <i>Geobalanus oblongifolius</i>               | Columbia     |

| COLLECTOR NAME | COLLECTOR 2                   | LIST NUMBER | RECEIVED DATE | PLANT NAME                           | COUNTY       |
|----------------|-------------------------------|-------------|---------------|--------------------------------------|--------------|
| Logan Cutts    |                               | 10429       | 10/18/2024    | <i>Hedychium coronarium</i>          | Hamilton     |
| Logan Cutts    |                               | 10372       | 10/17/2024    | <i>Heliotropium amplexicaule</i>     | Citrus       |
| Logan Cutts    |                               | 10298       | 10/15/2024    | <i>Ilex vomitoria</i>                | Gilchrist    |
| Logan Cutts    |                               | 10377       | 10/17/2024    | <i>Ligustrum japonicum</i>           | Gilchrist    |
| Logan Cutts    |                               | 10504       | 10/22/2024    | <i>Magnolia grandiflora</i>          | Dixie        |
| Logan Cutts    |                               | 10227       | 10/8/2024     | <i>Monarda punctata</i>              | Union        |
| Logan Cutts    |                               | 10683       | 10/29/2024    | <i>Morella cerifera</i>              | Santa Rosa   |
| Logan Cutts    |                               | 10684       | 10/29/2024    | <i>Nyssa biflora</i>                 | Gadsden      |
| Logan Cutts    |                               | 10231       | 10/8/2024     | <i>Passiflora incarnata</i>          | Union        |
| Logan Cutts    |                               | 10680       | 10/29/2024    | <i>Persea borbonia</i>               | Washington   |
| Logan Cutts    |                               | 10373       | 10/17/2024    | <i>Phyllostachys aurea</i>           | Gilchrist    |
| Logan Cutts    |                               | 10241       | 10/8/2024     | <i>Physostegia virginiana</i>        | Gilchrist    |
| Logan Cutts    |                               | 10232       | 10/8/2024     | <i>Platanus occidentalis</i>         | Levy         |
| Logan Cutts    |                               | 11399       | 11/21/2024    | <i>Portulaca oleracea</i>            | Nassau       |
| Logan Cutts    |                               | 10679       | 10/29/2024    | <i>Prunus serotina</i>               | Okaloosa     |
| Logan Cutts    |                               | 11368       | 11/21/2024    | <i>Pyrus calleryana</i>              | Gilchrist    |
| Logan Cutts    |                               | 10595       | 10/25/2024    | <i>Quercus laevis</i>                | Columbia     |
| Logan Cutts    |                               | 10746       | 10/30/2024    | <i>Rubus pensilvanicus</i>           | Washington   |
| Logan Cutts    |                               | 12259       | 12/19/2024    | <i>Salix nigra</i>                   | Gilchrist    |
| Logan Cutts    |                               | 10211       | 10/7/2024     | <i>Salvia coccinea</i>               | Gilchrist    |
| Logan Cutts    |                               | 10237       | 10/8/2024     | <i>Solanum viarum</i>                | Taylor       |
| Logan Cutts    |                               | 10296       | 10/15/2024    | <i>Solidago leavenworthii</i>        | Columbia     |
| Logan Cutts    |                               | 11379       | 11/21/2024    | <i>Spermacoce verticillata</i>       | Nassau       |
| Logan Cutts    |                               | 10512       | 10/22/2024    | <i>Symphyotrichum bahamense</i>      | Gilchrist    |
| Logan Cutts    |                               | 10300       | 10/15/2024    | <i>Symphyotrichum praealtum</i>      | Gilchrist    |
| Logan Cutts    |                               | 11376       | 11/21/2024    | <i>Tridax procumbens</i>             | Nassau       |
| Logan Cutts    |                               | 11441       | 11/22/2024    | <i>Trifolium repens</i>              | Gilchrist    |
| Logan Cutts    |                               | 10678       | 10/29/2024    | <i>Vaccinium myrsinites</i>          | Escambia     |
| Mark Laurint   |                               | 9971        | 10/3/2024     | <i>Arundo donax</i>                  | St. Johns    |
| Mark Laurint   |                               | 10190       | 10/8/2024     | <i>Arundo donax</i>                  | Clay         |
| Mark Laurint   |                               | 10113       | 10/3/2024     | <i>Elaeagnus pungens</i>             | St. Johns    |
| Samuel Smith   | Michael Claus, Caroline Pride | 10435       | 10/23/2024    | <i>Pseudognaphalium obtusifolium</i> | Indian River |



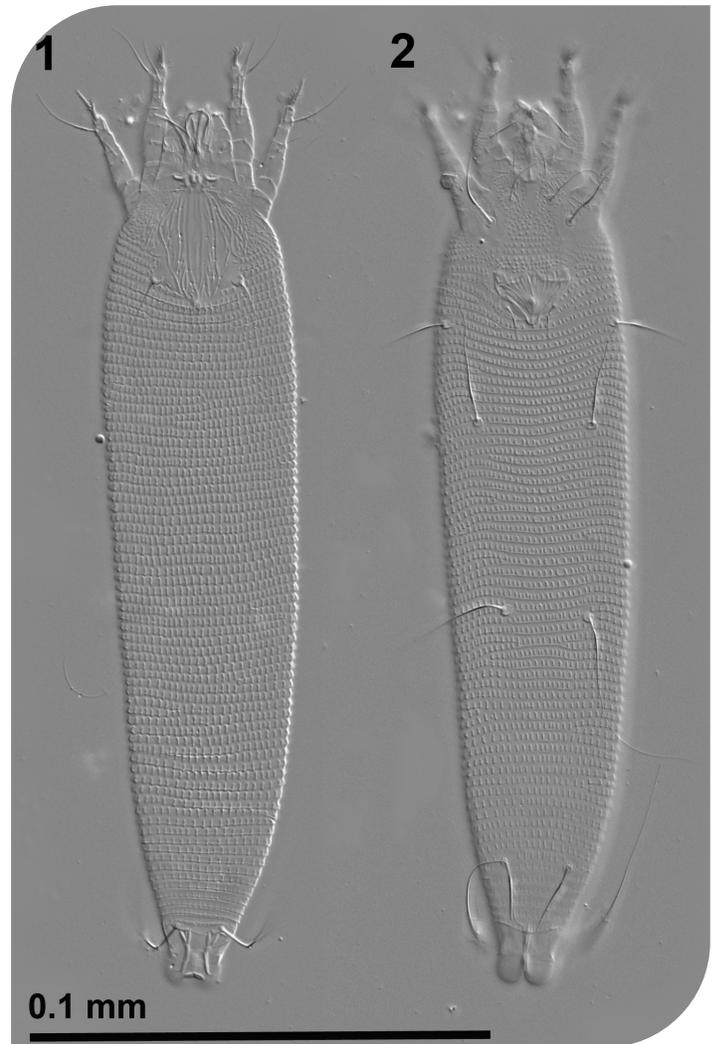
## ENTOMOLOGY

Compiled by Susan E. Halbert, Ph.D.

The Entomology section provides the division's plant protection specialists and other customers with accurate identifications of arthropods. This 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.

|                   | OCTOBER -<br>DECEMBER | 2024 - YEAR<br>TO DATE |
|-------------------|-----------------------|------------------------|
| Samples Submitted | 1,207                 | 6,192                  |
| Lots Identified   | 2,090                 | 10,192                 |

**1** *Aceria pongamiae* Keifer, pongamia mite, a new Western Hemisphere record. Until this new record, pongamia mite has been recorded only from Australia and South and Southeast Asia, including Pakistan (the first known location of the mite) and India. The host tree, *Millettia pinnata*, previously known as *Pongamia pinnata*, is native to Australia, the western Pacific Islands and Southeast Asia. Pongamia mite may have gone undetected in some places where the host is known to occur, including within the native range of the host. This mite causes galls on the leaves of the host tree. The host tree is an invasive species in the United States, but it also is used as a crop to produce biodiesel among other potential uses. (Palm Beach County; E5540-01-10252024-10614; member of public; 17 October 2024). (Dr. Samuel Bolton.)



1 - *Aceria pongamiae* Keifer, pongamia mite, 1) body dorsum; 2) body venter.  
Photo by Samuel Bolton, FDACS-DPI



**2** *Amrasca biguttula* (Ishida), two-spot cotton leafhopper, a new Continental USA record. The two-spot cotton leafhopper, known as the okra leafhopper in the Caribbean Islands, is a significant pest of cotton, okra and eggplant, along with some other crops and ornamentals. It was found in Puerto Rico in 2023 and has spread to several Caribbean islands since then. In November 2024, this leafhopper was found in a badly damaged Miami-Dade County okra field. By the end of 2024, it had been found in 11 more Florida counties, including a Jackson County commercial cotton crop. Please see the FDACS-DPI Pest Alert for more information: <https://ccmedia.fdacs.gov/content/download/117692/file/two-spot-cotton-leaf-hopper-pest-alert.pdf>. Identifications of diagnostic male specimens were confirmed by molecular data. (Miami-Dade County; E5820-01-11152024-11222; Mary Yong Cong, CAPS and Amy Roda, USDA-APHIS-PPQ; 14 November 2024.) (Dr. Susan E. Halbert and Matthew R. Moore.)



2a - *Amrasca biguttula* (Ishida), two-spot cotton leafhopper.  
Photo by Daphne Zapsas, USDA-APHIS-PPQ, Biological Science Laboratory

**3** *Dendropsyche venezuelae* Davis, a bagworm moth, a new Continental USA record. Two moths were removed from a CAPS glue trap and submitted for identification. The specimens key out to *Dendropsyche* Jones in Davis (1964), and the dissected genitalia and COI barcode match *D. venezuelae* Davis. After the first detection, searching the unidentified Psychidae holdings in the FSCA and McGuire Center yielded specimens from four other counties in South Florida, most collected since 2014 but one from 1996. Described from northern South America, this species also has been recorded in Jamaica and the Bahamas. The protective cases of the larvae, although not yet observed in Florida, are described as consisting of plant matter, narrowly elliptical, and 9-15 mm in length (Davis 1975). Little is known about the feeding habits of *Dendropsyche* species. They apparently feed on various vegetation, but they are not pests. (Orange County; E-5277-01-10012024-10060; Scott Weihman; 17 September 2024.) (Dr. James E. Hayden and Matthew R. Moore.)



2b - *Amrasca biguttula* (Ishida), two-spot cotton leafhopper on Florida okra.  
Photo by Sajjan KC, FDACS-DPI



3 - *Dendropsyche venezuelae* Davis collected in Miami-Dade County.  
Photo by James E. Hayden, FDACS-DPI



**4** *Trichromothrips trifasciatus* (Priesner), a new Continental USA record. The presence of *Trichromothrips trifasciatus* in Florida would be puzzling had it not been found in association with exotic ornamentals. Not many specimens of *T. trifasciatus* are known. This is an East Asian species originally described from Sumatra (Indonesia), and for a long time it was known from the single female holotype. In 2019, Li et al. (2019) recorded a second individual of *T. trifasciatus*, this time from China, also a single female. The five specimens collected in Indian River County are the largest group of this species ever reported. *Trichromothrips trifasciatus* seems to be polyphagous. In Indonesia, it was collected on *Costus* L., in China on sweet potato (*Ipomoea batatas* L.) and in Florida on *Philodendrum* Schott. This is a colorful species, with distinctly patterned wings, unique among members of the genus. The patterned wings in *T. trifasciatus* resemble patterns in species in the genus *Scolothrips*, a genus with several species commonly found in Florida, but the two genera differ in all important morphological details, including the number of prothoracic macrosetae (six pairs of long macroseta in *Scolothrips*, only two pairs on *Trichromothrips*). Despite being phytophagous, *T. trifasciatus* is not known to be a plant pest. (Indian River County; E5901-01-11152024-11235; Caroline Pride; 15 November 2024.) (Dr. Felipe Soto-Adames.)



4 - *Trichromothrips trifasciatus* (Priesner), habitus adult female.  
Photo by Isabelle Atchia, FDACS-DPI

**5** *Heterothrips limbatus* Hood, a new Florida State record. *Heterothrips limbatus* is native to North America and is not known to be a plant pest. The species was described originally from New York State (Hood 1925), but it also is known from Massachusetts (Bailey and Cott 1954). This species is unique among members of the genus *Heterothrips* because the posterior margin of abdominal terga 2-5 carry an uninterrupted chain of microtrichia. Along its range in the northeast, *H. limbatus* adults are active from May to June and can be found in flowers of *Prunus*, *Vaccinium* and *Cornus*. The specimens from Broward County were collected by sweeping mixed vegetation along a weedy roadside. (Broward County; E5439-40-10172024-10420; Mark Zenoble; 2 October 2024.) (Dr. Felipe Soto-Adames.)



5 - *Heterothrips limbatus* Hood, habitus adult female.  
Photo by Isabelle Atchia, FDACS-DPI

**6** *Prorastriopes coalingaensis* Snider, a new Florida State record. *Prorastriopes coalingaensis* is native to North America and is not known to be a plant pest. The species was described originally from California, but it also is known from Illinois (Soto-Adames, 1995). Very little is known about the habits of this species. In California, it was collected on *Plantago*, whereas in Illinois it was found on alfalfa (*Medicago sativa* L.). In Florida, *P. coalingaensis* was collected by sweeping grasses along a weedy roadside. According to the Checklist of Collembola (Bellinger et al, 1996-2024), the species displays sexual dimorphism in color pattern, with males having a brown thorax and paired anterior white spots and black abdomen, whereas females have a light-yellow trunk with lateral longitudinal strips and dorsal V-shaped marking on the posterior end of the abdomen. The specimens collected in Broward County display the sexual dimorphism in color pattern reported for populations in other parts of North America. (Broward County; E5439-41-10172024-10420; Mark Zenoble; 2 October 2024.) (Dr. Felipe Soto-Adames.)



6 - *Prorastriopes coalingaensis* Snider, dorsal view of female color pattern.  
Photo by Isabelle Atchia, FDACS-DPI



**7 *Spodoptera litura* (Fabricius), rice cutworm moth, a regulatory incident.** One moth was collected in a CAPS trap baited with pheromone specific to this species. Although the wings were worn when collected, the male genitalia and COI barcode match *S. litura*. This is a major polyphagous pest in its native range in East Asia. Single specimens are intercepted infrequently in Florida, most recently in 2014. CAPS has started an ongoing delimitation survey following standard protocols. No more specimens have been collected as of the time of writing. (Miami-Dade County; E6231-01-12132024-12137; Matthew Quenaudon, USDA-APHIS-PPQ; 27 November 2024.) (Dr. James E. Hayden and Matthew R. Moore.)

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7 - *Spodoptera litura* (Fabricius), rice cutworm moth, collected in Miami-Dade County (scale in mm).  
Photo by James E. Hayden, FDACS-DPI



## 🔍 ENTOMOLOGY SPECIMEN REPORT

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>Abelmoschus esculentus</i> | okra              | <i>Amrasca biguttula</i>       | two spot cotton leafhopper | Amy Roda, Mary Yong Cong   | New Continental USA record |
| <i>Abelmoschus esculentus</i> | okra              | <i>Amrasca biguttula</i>       | two spot cotton leafhopper | Douglas Restom-Gaskill   | First in County            |
| <i>Abelmoschus esculentus</i> | okra              | <i>Amrasca biguttula</i>       | two spot cotton leafhopper | Douglas Restom-Gaskill   | First in County            |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Aspidiotus cryptomeriae</i> | cryptomeria scale          | Logan Cutts, Justin Anto, Jakira Davis, Dyrana Russell, Renee Shiska, Twylah Morelli | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Aspidiotus cryptomeriae</i> | cryptomeria scale          | Logan Cutts, Justin Anto, Jakira Davis, Dyrana Russell, Renee Shiska, Twylah Morelli | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Aspidiotus cryptomeriae</i> | cryptomeria scale          | Twylah Morelli   | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Bactericera stylifera</i>   | a psyllid                  | Logan Cutts, Justin Anto, Jakira Davis, Dyrana Russell, Renee Shiska, Twylah Morelli | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Bactericera stylifera</i>   | a psyllid                  | Logan Cutts, Justin Anto, Jakira Davis, Dyrana Russell, Renee Shiska, Twylah Morelli | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Cuerna</i> sp.              | a sharpshooter             | Logan Cutts, Justin Anto, Jakira Davis, Dyrana Russell, Renee Shiska, Twylah Morelli | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Twylah Morelli   | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Vincent Barrios  | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Mark Zenoble   | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Mark Zenoble   | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Mark Zenoble   | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Caroline Pride   | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Logan Cutts, Justin Anto, Jakira Davis, Dyrana Russell, Renee Shiska, Twylah Morelli | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Logan Cutts, Justin Anto, Jakira Davis, Dyrana Russell, Renee Shiska, Twylah Morelli | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Logan Cutts, Justin Anto, Jakira Davis, Dyrana Russell, Renee Shiska, Twylah Morelli | Regulatory significance    |
| <i>Abies fraseri</i>          | Fraser's fir      | <i>Fiorinia externa</i>        | elongate hemlock scale     | Logan Cutts, Justin Anto, Jakira Davis, Dyrana Russell, Renee Shiska, 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                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Twylah Morelli  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Twylah Morelli  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Renee Shiska  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Twylah Morelli  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Twylah Morelli  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Twylah Morelli  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Caroline Pride  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Twylah Morelli  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Chase Groninger   | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Vincent Barrios   | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Vincent Barrios   | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Chase Groninger   | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Paola Ramos Perez   | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Jeanie Frechette  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Jeanie Frechette  | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Fiorinia externa</i>           | elongate hemlock scale     | Jacob Bryan   | Regulatory significance |
| <i>Abies fraseri</i>        | Fraser's fir                    | <i>Hemiberlesia ithacae</i>       | hemlock scale              | Twylah Morelli  | Regulatory significance |
| <i>Alcea rosea</i>          | hollyhock                       | <i>Amrasca biguttula</i>          | two spot cotton leafhopper | Douglas Restom-Gaskill  | New Florida host record |
| <i>Alocasia</i> sp.         | alocasia                        | <i>Phenacoccus multicerarii</i>   | a mealybug                 | Caroline Pride, Alexander Tasi, Michael Claus, Samuel Smith   | New Florida host record |
| <i>Bambusa</i> sp.          | bamboo                          | <i>Bambusaspis minuta</i>         | bamboo pit scale           | Chase Groninger, Victoria Benjamin, Alexander Tasi, Caroline Pride                                    | First in County         |
| <i>Bambusa</i> sp.          | bamboo                          | <i>Froggatiella gigantochloae</i> | an armored scale           | Chase Groninger, Victoria Benjamin, Alexander Tasi, Caroline Pride                                    | First in County         |
| <i>Bambusa</i> sp.          | bamboo                          | <i>Froggatiella gigantochloae</i> | an armored scale           | Chase Groninger   | First in County         |
| <i>Bambusa</i> sp.          | bamboo                          | <i>Odonaspis greeni</i>           | Green's scale              | Chase Groninger   | First in County         |
| <i>Bambusa</i> sp.          | bamboo                          | <i>Poliaspoides formosana</i>     | an armored scale           | Chase Groninger   | First in County         |
| <i>Bidens alba</i>          | beggarticks                     | <i>Aleurotrachelus trachoides</i> | a whitefly                 | Narciso Rodriguez medina, Maria Dulzaides   | New Florida host record |
| <i>Bothriochloa bladhii</i> | Australian beardgrass           | <i>Sipha flava</i>                | yellow sugarcane aphid     | Isabelle Atchia, Carly Dodgen   | New Florida host record |
| <i>Bothriochloa bladhii</i> | Australian beardgrass           | <i>Sitobion avenae</i>            | English grain aphid        | Isabelle Atchia, Carly Dodgen   | New Florida host record |
| <i>Brassica rapa</i>        | broccoli rabe                   | <i>Liriomyza langei</i>           | California pea leafminer   | Jakira Davis, Justin Anto   | Regulatory significance |
| <i>Capsicum annuum</i>      | poblano pepper                  | <i>Bactericera cockerelli</i>     | potato psyllid             | Jeanie Frechette  | Regulatory significance |
| <i>Capsicum annuum</i>      | poblano pepper                  | <i>Bactericera cockerelli</i>     | potato psyllid             | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance |
| <i>Capsicum annuum</i>      | bell pepper                     | <i>Bactericera cockerelli</i>     | potato psyllid             | Renee Shiska, Logan Cutts, Dyrana Russell, Callie Walker, Ethan Andrews, Cheryl Jones, Twylah Morelli | Regulatory significance |
| <i>Capsicum annuum</i>      | chilaca pepper                  | <i>Bactericera cockerelli</i>     | potato psyllid             | Jakira Davis, Justin Anto   | Regulatory significance |
| <i>Chloroleucon tortum</i>  | Brazilian rain tree             | <i>Heteropsylla huasachae</i>     | a psyllid                  | Alberto Rentas Muller   | New Florida host record |
| <i>Chromolaena odorata</i>  | Jack-in-the-bush, Christmasbush | <i>Aphis eugeniae</i>             | an aphid                   | Leann West  | New Florida host record |
| <i>Citrus limon</i>         | lemon tree                      | <i>Chondrocerca laticornis</i>    | a leaf footed bug          | Younes Belmoud  | First in County         |
| <i>Citrus</i> sp.           | citrus                          | <i>Thrips parvispinus</i>         | short spine thrips         | Lyle Buss   | First in County         |
| <i>Coriandrum sativum</i>   | cilantro                        | <i>Calophya schini</i>            | a jumping plant louse      | Renee Shiska  | Regulatory significance |
| <i>Cynara cardunculus</i>   | artichoke                       | <i>Brachycaudus cardui</i>        | thistle aphid              | Jakira Davis, Justin Anto   | Regulatory significance |
| <i>Cynara cardunculus</i>   | artichoke                       | <i>Platyptilia carduidactyla</i>  | artichoke plume moth       | Jakira Davis  | Regulatory significance |



| PLANT SPECIES                 | PLANT COMMON NAME | ARTHROPOD GENUS AND SPECIES        | ARTHROPOD COMMON NAME      | COLLECTOR   | RECORD                                   |
|-------------------------------|-------------------|------------------------------------|----------------------------|---|--|
| <i>Cynara cardunculus</i>     | artichoke         | <i>Platyptilia carduidactyla</i>   | artichoke plume moth       | Colton Striker  | Regulatory significance                  |
| <i>Desmodium tortuosum</i>    | beggarweed        | <i>Japanagromyza desmodivora</i>   | an agromyzid fly           | Craig Welch, Douglas Restom-Gaskill   | First in County                          |
| <i>Dracaena sanderiana</i>    | lucky bamboo      | <i>Lepidosaphes chinensis</i>      | a mussel scale             | Paola Ramos Perez   | Regulatory significance                  |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Aphrophora saratogensis</i>     | a spittlebug               | Logan Cutts   | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Balclutha incisa</i>            | a leafhopper               | Logan Cutts   | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Cantura albonotata</i>          | a leafhopper               | Logan Cutts   | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Graminella villica</i>          | a leafhopper               | Logan Cutts   | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Planicephalus flavicosta</i>    | a leafhopper               | Logan Cutts   | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Polyamia obtecta</i>            | a leafhopper               | Logan Cutts   | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Sanctanus fasciatus</i>         | a leafhopper               | Logan Cutts   | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Sufetula diminutalis</i>        | palm rootworm moth         | Randi Shreve  | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Syndelphax fulvidorsum</i>      | a leafhopper               | Logan Cutts   | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Xestocephalus desertorum</i>    | a leafhopper               | Logan Cutts   | First in County                          |
| <i>Eriobotrya japonica</i>    | loquat            | <i>Xyphon flaviceps</i>            | a leafhopper               | Logan Cutts   | First in County                          |
| <i>Fragaria x ananassa</i>    | strawberry        | <i>Chaetosiphon fragaefolii</i>    | strawberry aphid           | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | 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>Liriomyza langei</i>            | California pea leafminer   | Jakira Davis, Justin Anto   | Regulatory significance                  |
| <i>Fragaria x ananassa</i>    | strawberry        | <i>Lygus elisus</i>                | pale legume bug            | Jakira Davies, Justin Anto  | Regulatory significance                  |
| <i>Fragaria x ananassa</i>    | strawberry        | <i>Lygus hesperus</i>              | Western lygus bug          | Jakira Davies, Justin Anto  | Regulatory significance                  |
| <i>Fragaria x ananassa</i>    | strawberry        | <i>Lygus sp.</i>                   | Western lygus bug          | Jakira Davis, Justin Anto   | Regulatory significance                  |
| <i>Fragaria x ananassa</i>    | strawberry        | <i>Rhinacloa forticornis</i>       | Western plant bug          | Jakira Davis, Justin Anto   | Regulatory significance                  |
| <i>Gardenia jasminoides</i>   | gardenia          | <i>Karnyothrips melaleucus</i>     | a thrips                   | Abby Bartlett   | First in County                          |
| <i>Gossypium sp.</i>          | commercial cotton | <i>Amrasca biguttula</i>           | two spot cotton leafhopper | Douglas Restom-Gaskill  | First in County                          |
| <i>Gossypium sp.</i>          | commercial cotton | <i>Amrasca biguttula</i>           | two spot cotton leafhopper | Robert Leahy, Carly Dodgen  | New Florida host record, First in County |
| <i>Hibiscus rosa-sinensis</i> | hibiscus          | <i>Amrasca biguttula</i>           | two spot cotton leafhopper | Aaron Palmateer   | New Florida host record                  |
| <i>Lactuca sativa</i>         | lettuce           | <i>Acyrtosiphon lactucae</i>       | lettuce aphid              | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance                  |
| <i>Lactuca sativa</i>         | lettuce           | <i>Acyrtosiphon lactucae</i>       | lettuce aphid              | Jakira Davis, Justin Anto   | Regulatory significance                  |
| <i>Lactuca sativa</i>         | romaine lettuce   | <i>Aphalara sp.</i>                | a psyllid                  | Logan Cutts   | Regulatory significance                  |
| <i>Lactuca sativa</i>         | lettuce           | <i>Aphis asclepiadis</i>           | an aphid                   | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance                  |
| <i>Lactuca sativa</i>         | lettuce           | <i>Bactericera cockerelli</i>      | potato psyllid             | 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>         | lettuce           | <i>Delia radicum</i>               | cabbage root fly           | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance                  |
| <i>Lactuca sativa</i>         | lettuce           | <i>Deltocephalus fuscineruosus</i> | a leafhopper               | Justin Anto   | Regulatory significance                  |
| <i>Lactuca sativa</i>         | lettuce           | <i>Deltocephalus fuscineruosus</i> | a leafhopper               | Jakira Davis, Justin Anto   | Regulatory significance                  |
| <i>Lactuca sativa</i>         | romaine lettuce   | <i>Deltocephalus fuscineruosus</i> | a leafhopper               | Renee Shiska, Logan Cutts, Dyrana Russell, Callie Walker, Ethan Andrews, Cheryl Jones, Twylah Morelli | 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                  |



| PLANT SPECIES            | PLANT COMMON NAME     | ARTHROPOD GENUS AND SPECIES | ARTHROPOD COMMON NAME    | COLLECTOR   | RECORD                        |
|--------------------------|-----------------------|-----------------------------|--------------------------|---|-------------------------------|
| <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>    | butter 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>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>Liriomyza langei</i>     | California pea leafminer | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance       |
| <i>Lactuca sativa</i>    | lettuce               | <i>Liriomyza langei</i>     | California pea leafminer | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance       |
| <i>Lactuca sativa</i>    | romaine lettuce       | <i>Liriomyza langei</i>     | California pea leafminer | Renee Shiska, Logan Cutts, Dyrana Russell, Callie Walker, Ethan Andrews, Cheryl Jones, Twylah Morelli | Regulatory significance       |
| <i>Lactuca sativa</i>    | red leaf lettuce      | <i>Liriomyza langei</i>     | California pea leafminer | Renee Shiska  | Regulatory significance       |
| <i>Lactuca sativa</i>    | romaine lettuce       | <i>Lygus elisus</i>         | pale legume bug          | Logan Cutts   | Regulatory significance       |
| <i>Lactuca sativa</i>    | organic mixed lettuce | <i>Nasonovia ribisnigri</i> | currant-lettuce aphid    | Chase Groninger   | Regulatory significance       |
| <i>Lactuca sativa</i>    | lettuce               | <i>Nasonovia ribisnigri</i> | currant-lettuce aphid    | Justin Anto   | Regulatory significance       |
| <i>Lactuca sativa</i>    | lettuce               | <i>Nasonovia ribisnigri</i> | currant-lettuce aphid    | Jakira Davis, Justin Anto   | Regulatory significance       |
| <i>Lactuca sativa</i>    | lettuce               | <i>Nasonovia ribisnigri</i> | currant-lettuce aphid    | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance       |
| <i>Lactuca sativa</i>    | romaine lettuce       | <i>Nasonovia ribisnigri</i> | currant-lettuce aphid    | Renee Shiska, Logan Cutts, Dyrana Russell, Callie Walker, Ethan Andrews, Cheryl Jones, Twylah Morelli | Regulatory significance       |
| <i>Lactuca sativa</i>    | frisee lettuce        | <i>Nasonovia ribisnigri</i> | currant-lettuce aphid    | Jakira Davis, Justin Anto   | Regulatory significance       |
| <i>Lactuca sativa</i>    | lettuce               | <i>Nasonovia ribisnigri</i> | currant-lettuce aphid    | Jakira Davis, Justin Anto   | Regulatory significance       |
| <i>Lactuca sativa</i>    | lettuce               | <i>Rhopalomyzus poae</i>    | a Western aphid          | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance       |
| <i>Mentha</i> sp.        | mint                  | <i>Ovatus crataegarius</i>  | mint aphid               | Caroline Pride, Alexander Tasi, Michael Claus, Samuel Smith   | Regulatory significance       |
| <i>Mentha</i> sp.        | mint                  | <i>Ovatus</i> sp.           | mint aphid               | Gary Webb, Christina Huetcher, Alec Nash, Vaden Edmondson   | Regulatory significance       |
| <i>Millettia pinnata</i> | pongamia              | <i>Aceria pongamiae</i>     | pongamia mite            | Frank Burgos  | First in County               |
| <i>Millettia pinnata</i> | pongamia              | <i>Aceria pongamiae</i>     | pongamia mite            | Christopher Checo   | New Western Hemisphere record |
| <i>Musa</i> sp.          | banana                | <i>Fiorinia phantasma</i>   | phantasma scale          | Sallie Simmons  | New Florida host record       |
| <i>Olea europaea</i>     | olive                 | <i>Bactrocera oleae</i>     | olive fruit fly          | Yamiley Guia Riquenes   | Regulatory significance       |



| PLANT SPECIES                     | PLANT COMMON NAME                  | ARTHROPOD GENUS AND SPECIES        | ARTHROPOD COMMON NAME               | COLLECTOR   | RECORD                        |
|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|---|-------------------------------|
| <i>Pentas lanceolata</i>          | pentas                             | <i>Aleurotrachelus trachoides</i>  | a whitefly                          | Erika Lozano, Anthony Puppelo   | New Florida host record       |
| <i>Persea americana</i>           | avocado                            | <i>Acutaspis albopicta</i>         | albopicta scale                     | Vincent Barrios   | Regulatory significance       |
| <i>Persea americana</i>           | avocado                            | <i>Davidsonaspis aguacatae</i>     | an armored scale                    | Renee Shiska, Logan Cutts, Dyrana Russell, Callie Walker, Ethan Andrews, Cheryl Jones, Twylah Morelli | Regulatory significance       |
| <i>Petroselinum crispum</i>       | parsley                            | <i>Cavariella aegopodii</i>        | carrot aphid                        | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance       |
| <i>Philodendron</i> sp.           | philodendron                       | <i>Trichomothrips trifasciatus</i> | a thrips                            | Caroline Pride  | New Western Hemisphere Record |
| <i>Phyllanthus tenellus</i>       | Mascarene island leafflower        | <i>Cacocharis cymotoma</i>         | a leafroller moth                   | Caroline Pride, Michael Claus, Samuel Smith, Alexander Tasi   | New Florida host record       |
| <i>Physalis philadelphica</i>     | tomatillo                          | <i>Bactericera cockerelli</i>      | potato psyllid                      | Richard Blaney  | Regulatory significance       |
| <i>Physalis philadelphica</i>     | tomatillo                          | <i>Bactericera cockerelli</i>      | potato psyllid                      | Caroline Pride  | Regulatory significance       |
| <i>Physalis philadelphica</i>     | tomatillo                          | <i>Bactericera cockerelli</i>      | potato psyllid                      | Caroline Pride  | Regulatory significance       |
| <i>Physalis philadelphica</i>     | tomatillo                          | <i>Bactericera cockerelli</i>      | potato psyllid                      | Justin Anto, Jakira Davis, Renee Shiska, Logan Cutts, Dyrana Russell                                  | Regulatory significance       |
| <i>Pinus strobus</i>              | eastern white pine                 | <i>Chionaspis pinifoliae</i>       | pine needle scale                   | Lisa Tyler  | Regulatory significance       |
| <i>Rubus</i> sp.                  |                                    | <i>Amphorophora</i> sp.            | an aphid                            | Jakira Davis, Justin Anto   | Regulatory significance       |
| <i>Rubus</i> sp.                  | raspberry                          | <i>Rhinacloa forticornis</i>       | western plant bug                   | Jakira Davis, Justin Anto   | Regulatory significance       |
| <i>Rubus</i> sp.                  | raspberry                          | <i>Rhinacloa forticornis</i>       | western plant bug                   | Alberto Rentas Muller   | Regulatory significance       |
| <i>Salix nigra</i>                | black willow                       | <i>Chaitophorus minutus</i>        | an aphid                            | Jeffrey Eickwort  | First in County               |
| <i>Sida ulmifolia</i>             | common wireweed                    | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Amy Roda, Mary Yong Cong  | New Florida host record       |
| <i>Smilax tamnoides</i>           | hogbrier                           | <i>Neoprociophilus aceris</i>      | wooly maple aphid                   | Alec Nash, Daniel Merced, Gary Webb, Christina Heutcher, Cynthia Blattenberger                        | First in County               |
| <i>Solanum chenopodioides</i>     | black nightshade                   | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Amy Roda, Mary Yong Cong  | New Florida host record       |
| <i>Solanum melongena</i>          | eggplant                           | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Felipe Soto-Adames, Mary Yong Cong, Sajjan KC, Amy Roda, Susan Halbert, Daphne Zapsas                 | New Florida host record       |
| <i>Solanum melongena</i>          | eggplant                           | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Douglas Restom-Gaskill  | First in County               |
| <i>Solanum melongena</i>          | eggplant                           | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Douglas Restom-Gaskill  | First in County               |
| <i>Spinacia oleracea</i>          | spinach                            | <i>Hypogeococcus pungens</i>       | a mealybug                          | Leann West  | New Florida host record       |
| <i>Talinum fruticosum</i>         | Philippine-spinach, Ceylon-spinach | <i>Pulvinaria urbicola</i>         | urbicola soft scale                 | Mark Zenoble  | New Florida host record       |
| <i>Vitis</i> sp.                  | grapes                             | <i>Cadra figulilella</i>           | raisin moth                         | Jakira Davis, Justin Anto   | Regulatory significance       |
| <i>Vitis</i> sp.                  | grapes                             | <i>Erasmoneura variabilis</i>      | variegated western grape leafhopper | Jakira Davis, Justin Anto   | Regulatory significance       |
| <i>Vitis</i> sp.                  | grapes                             | <i>Texananus spatulatus</i>        | a leafhopper                        | Logan Cutts   | Regulatory significance       |
| x <i>Bacurio delphinatifolius</i> | string of dolphins                 | <i>Aphis gossypii</i>              | cotton/melon aphid                  | Helen Beiriger, William Piwowarek   | New Florida host record       |
|                                   |                                    | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Julia Laur  | First in County               |
|                                   |                                    | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Julia Laur  | First in County               |
|                                   |                                    | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Julia Laur  | First in County               |
|                                   |                                    | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Douglas Restom-Gaskill  | First in County               |
|                                   |                                    | <i>Amrasca biguttula</i>           | two spot cotton leafhopper          | Douglas Restom-Gaskill  | First in County               |



| PLANT SPECIES | PLANT COMMON NAME | ARTHROPOD GENUS AND SPECIES        | ARTHROPOD COMMON NAME      | COLLECTOR                     | RECORD                     |
|---------------|-------------------|------------------------------------|----------------------------|-------------------------------|----------------------------|
|               |                   | <i>Amrasca biguttula</i>           | two spot cotton leafhopper | Scott Weihman                 | First in County            |
|               | mixed vegetation  | <i>Arorathrips sensitivus</i>      | a thrips                   | Mark Zenoble                  | First in County            |
|               |                   | <i>Atractomus miniatus</i>         | a mirid                    | Monica Triana                 | First in County            |
|               |                   | <i>Ceratocapsus bifercus</i>       | a mirid                    | James Bouie, Joseph Hanus     | First in County            |
|               |                   | <i>Clastoptera querci</i>          | oak spittlebug             | Alesha Fuller                 | First in County            |
|               |                   | <i>Dallasiellus lugubris</i>       | a burrower bug             | Monica Triana                 | First in County            |
|               |                   | <i>Dendropsyche venezuelae</i>     | a bagworm moth             | Scott Weihman                 | New Continental USA record |
|               |                   | <i>Dendropsyche venezuelae</i>     | a bagworm moth             | Mary Yong Cong                | First in County            |
|               |                   | <i>Eoreuma loftini</i>             | Mexican rice borer         | Julien Beuzelin               | First in County            |
|               |                   | <i>Eoreuma loftini</i>             | Mexican rice borer         | Julien Beuzelin               | First in County            |
|               |                   | <i>Eoreuma loftini</i>             | Mexican rice borer         | Julien Beuzelin               | First in County            |
|               |                   | <i>Eudarcia</i> sp. 8              | a lichen-feeding moth      | Isabelle Atchia, Carly Dodgen | First in County            |
|               | mixed vegetation  | <i>Heterothrips limbatus</i>       | a thrips                   | Mark Zenoble                  | New Florida state record   |
|               |                   | <i>Lesmone formularis</i>          | an erebid moth             | Krystal Ashman                | First in County            |
|               |                   | <i>Mitrapysylla cubana</i>         | a psyllid                  | Julia Laur                    | First in County            |
|               |                   | <i>Paratelenomus saccharalis</i>   | parasitoid wasp            | Alyssa Lucas                  | First in County            |
|               |                   | <i>Pleuroprucha asthenaria</i>     | a wave moth                | James Pernsteiner             | First in County            |
|               |                   | <i>Prepops rubrovittatus</i>       | a plant bug                | Monica Triana                 | First in County            |
|               | mixed vegetation  | <i>Prorastriopes coalingaensis</i> | a thrips                   | Mark Zenoble                  | New Florida state record   |
|               |                   | <i>Sericophanes heidemanni</i>     | a mirid                    | Monica Triana                 | First in County            |
|               |                   | <i>Sericophanes heidemanni</i>     | a mirid                    | James Bouie, Joseph Hanus     | First in County            |
|               |                   | <i>Sophonia orientalis</i>         | two-spotted leafhopper     | Brooke Welch                  | First in County            |
|               |                   | <i>Spodoptera litura</i>           | rice cutworm               | Matthew Quenaudon             | Regulatory incident        |
|               |                   | <i>Thiotricha</i> sp.              | a gelechioid moth          | Isabelle Atchia, Carly Dodgen | First in County            |
|               |                   | <i>Thyanta maculata</i>            | a stink bug                | Jakira Davis, Justin Anto     | Regulatory significance    |
|               |                   | <i>Ymeldia</i> sp. 1               | a gelechioid moth          | Mary Yong Cong                | First in County            |
|               |                   | <i>Ymeldia</i> sp. 1               | a gelechioid moth          | Isabelle Atchia, Carly Dodgen | First in County            |
|               |                   | <i>Zyginama rossi</i>              | an oak leafhopper          | Krystal Ashman                | First in County            |





## NEMATOLOGY

Compiled by Janete Brito, Ph.D.; Matthew Moore, M.S.; Lynn Combee, B.S.;  
Cheryl Roberts, B.S. and Ruimin Xue, M.S.

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 -<br>DECEMBER | 2024 - YEAR<br>TO DATE |
|----------------------------------|-----------------------|------------------------|
| Morphological<br>Identifications | 3,940                 | 13,724                 |
| Molecular<br>Identifications *   | 244                   | 925                    |

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

### Nematode of Special Interest

**1** *Meloidogyne incognita* (Kofoid and White, 1919) Chitwood, 1949 was found infecting the roots of noni, *Morinda citrifolia* (Miami-Dade County; 12122024-12073; Sandra Domenech; 12 December 2024).

A root sample collected from noni plants at a nursery in Miami-Dade County, Florida, was submitted to the Nematode Diagnostic Laboratory at the Division of Plant Industry (FDACS-DPI). Infected roots were clearly galled, a typical symptom induced by root-knot nematodes. Nematode species identification was performed using DNA-based methods (*NADH5*, *COX*, *COX2* and qPCR) (Janssen et al., 2016; Yimer et al., 2022). Results obtained with these analyses identified the nematode as *Meloidogyne incognita*. To our knowledge, it is the first report of this nematode species infecting noni in Florida. Because infected plant material used for planting is one of the major pathways to spread plant-parasitic nematodes, we recommend using clean soil, clean pots and healthy seedlings as well as good sanitation practices to produce plants for both national and international exports.

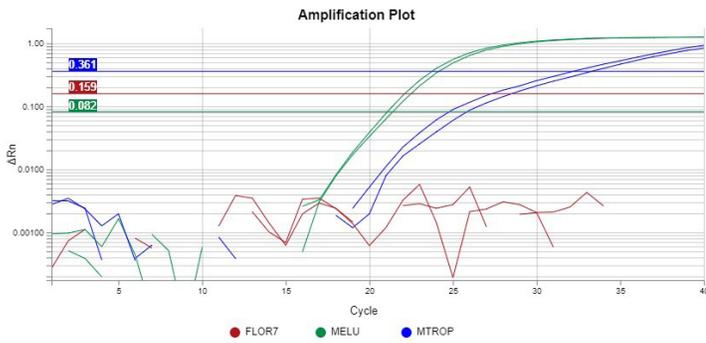


1a - *Morinda citrifolia*, noni, plant with leaves and fruits.  
Photo from Shutterstock



1b - *Morinda citrifolia*, noni, cut and whole fruits.  
Photo from Shutterstock





**Triplex qPCR amplification profile of two female *Meloidogyne* specimens extracted from the roots of *Morinda citrifolia*.** Both specimens were positive for mitochondrial (curved green line) and ribosomal (curved blue line) qPCR targets. This qPCR result indicated they belong to a species of *Meloidogyne* in the tropical group (*Meloidogyne arenaria*, *M. incognita*, *M. javanica*, etc.), excluding *M. floridensis* or *M. hispanica*. DNA sequencing confirmed the nematode specimens to be *Meloidogyne incognita*.



**1c - *Morinda citrifolia*, noni, root infected with *Meloidogyne incognita*.** Notice the presence of root galls, a typical below ground symptom induced by this nematode species.  
Photo by Jeffrey Lotz and Janete Brito, FDACS-DPI

## REFERENCES

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## SAMPLES FOR MOLECULAR ANALYSIS

|                     | OCTOBER - DECEMBER | 2024 - YEAR TO DATE |
|---------------------|--------------------|---------------------|
| Regulatory Purposes | 210                | 493                 |
| Other Purposes      | 0                  | 0                   |
| Identifications     | 34                 | 432                 |
| Surveys             | 0                  | 0                   |
| <b>Total</b>        | <b>244</b>         | <b>925</b>          |

## SAMPLES FOR MORPHOLOGICAL ANALYSIS

### Certifications and Regulatory Purposes

|   | OCTOBER - DECEMBER | 2024 - YEAR TO DATE |
|---|--------------------|---------------------|
| Multistate Certification involving California                             | 1,456              | 4,766               |
| Multistate Certification excluding California Certification               | 2,468              | 8,474               |
| Citrus Certification (Citrus Nursery Certification, Site or Pit Approval) | 16                 | 142                 |
| <b>Total</b>  | <b>3,940</b>       | <b>13,382</b>       |

### Other Purposes

|                                  | OCTOBER - DECEMBER | 2024 - YEAR TO DATE |
|----------------------------------|--------------------|---------------------|
| Identification (other organisms) | 0                  | 2                   |
| Interdiction Station (AIS)       | 46                 | 190                 |
| Plant Problems                   | 24                 | 88                  |
| Survey                           | 58                 | 190                 |
| <b>Total</b>                     | <b>128</b>         | <b>470</b>          |





# 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. and Vishal Negi, Ph.D.

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 Odonotoglossum ringspot virus** (ORSV, Genus: Tobamovirus) and **Cymbidium mosaic virus** (CymMV, Genus: Potexvirus), **with ORSV being a new Florida Host record**, have been found simultaneously in *Spathoglottis plicata* (Family: Orchidaceae) at a residential site in Broward County, Florida. CymMV and ORSV are among the most common viruses found in orchids, impacting horticultural industries worldwide. CymMV has been reported in French Polynesia (Pearson and Grisoni, 2002) and Hawaii where viral symptoms typically present as mottled younger leaves and elongated pale areas developing into necrotic dark spots or streaks (Hu et al., 1993). These viruses spread through sap and close contact between plants, resulting in visual damage and reducing the aesthetic value of the orchids (Hu et al., 1993). As *S. plicata* has become more popular as a Florida landscape plant for its hardiness and attractive flowers, it is important to monitor potential threats to production of this valuable plant for the horticulture industry. Mitigating potential issues resulting from infected *S. plicata* in the Florida landscape, such as threatening native distributions of *Orchidaceae* (including the endangered *Dendrophylax lindenii*), is also essential. (Broward County; 12052024-11790; Keith Zugar; 5 December 2024.)



1 - *Odonotoglossum ringspot virus* and *Cymbidium mosaic virus* on *Spathoglottis plicata*. Necrotic spotting and streaks along the leaf. Photo by Patricia Soria, FDACS-DPI

**2 Phytophthium (=Pythium) chamaehyphon** (Sideris) Abad, de Cock, Bala, Robideau, Lodhi & Lévesque (Pythiales, Pythiaceae), (**root rot**) a **new Florida Host Record**, was found in *Prunus persica* (L.) Batsch (Rosids, Rosaceae) rootstock at a nursery in Alachua County, Florida, where 100% of the plants were affected. These plants showed dieback with rotten roots. Furthermore, the rootstock was planted too deeply, restricting air exchange within the root system and contributing to excessive moisture accumulation around the trunk, increasing the risk of damage by this pathogen. The genus *Phytophthium* is a significant waterborne plant pathogen but is also well-established as a soil-borne pathogen and saprophyte, capable of causing root and crown rot, as well as damping-off in susceptible plants (Nam and Choi, 2019; Savian et al., 2021). *Phytophthium chamaehyphon* is a broad-distributed pathogen reported on *Actinidia deliciosa*, *Carica papaya*, *Glycine max*, *Theobroma cacao* and *Phaseolus vulgaris* in Argentina, Colombia, Rwanda and the United States (Farr and Rossman, 2018). *Pythium* sp. and *Phytophthora* sp. have previously been reported in *Prunus persica* in Florida. (Alachua County; P3155-11012024-10892; external collector; 1 November 2024.)

## QUARTERLY ACTIVITY REPORT

|   | OCTOBER - DECEMBER | 2024 - YEAR TO DATE |
|---|--------------------|---------------------|
| Citrus black spot                           | 83                 | 344                 |
| Citrus canker                               | 213                | 759                 |
| Citrus greening / HLB                       | 15                 | 159                 |
| HLB certification for out-of-state shipping | 2,862              | 8,379               |
| Import inspections                          | 12                 | 27                  |
| Interdictions                               | 75                 | 218                 |
| Palm phytoplasma                            | 5                  | 32                  |
| Pathology, General                          | 859                | 3,677               |
| Soil  | 36                 | 179                 |
| Totals                                      | 4,160              | 13,774              |



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## 🔍 PLANT PATHOLOGY IDENTIFICATION TABLE

The following table provides information about samples identified between October-December 2024. 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>Gordonia lasianthus</i>   | loblolly-bay                            | <i>Parvodonia relampaga</i>         | relampago blight | natural area  | P3625-12202024-12327 | Osceola  | Brent Dixon        | 12/17/24 | host, county  |
| <i>Prunus persica</i>        | peach                                   | <i>Phytophthium chamaehyphon</i>    | root rot         | nursery       | P3155-11012024-10892 | Alachua  | external collector | 11/1/24  | host  |
| <i>Quercus laurifolia</i>    | laurel oak                              | <i>Parvodonia relampaga</i>         | relampago blight | natural area  | P3626-12202024-12328 | Osceola  | Brent Dixon        | 12/17/24 | host  |
| <i>Spathoglottis plicata</i> | ground orchid, Philippine ground orchid | <i>Odontoglossum ringspot virus</i> | none             | residence     | P3469-12052024-11790 | Broward  | Keith Zugar        | 12/5/24  | host  |
| <i>Spathoglottis plicata</i> | ground orchid, Philippine ground orchid | <i>Cymbidium mosiac virus</i>       | none             | residence     | P3469-12052024-11790 | Broward  | Keith Zugar        | 12/5/24  | not record but occurs at same time as ORSV which is a host record |
| <i>Zea Mays</i>              | corn                                    | <i>Phyllachora maydis</i>           | maize tar spot   | pumpkin patch | P3065-10252024-10619 | Pinellas | Cheryl Jones       | 10/24/24 | county  |





# FROM THE EDITOR

By Patti Anderson

## Inquiring minds want to know...

**Logan Cutts, Agricultural Interdiction Inspector** in the Bureau of Plant & Apiary Inspection, is a member of DPI's interdiction station inspection team and the third generation of his family to work for the Division. Interdiction inspectors work at stations in and around Interstates I-10 E/W, I-75 N/S, and I-95 N/S intercepting and preventing the movement of exotic pests into the state. Although their focus is at the four main stations in Yulee, White Springs, Pensacola and Live Oak, the inspectors also travel to 19 other stations for survey and inspection activities. Carriers of all agricultural products, including plants and produce, are subject to detailed inspections. Visual surveys and insect trapping activities are also conducted in the immediate environs of these stations.



1a - *Tradescantia ohioensis*, bluejacket; Ohio spiderwort.  
Photo by Matthew Merritt, Atlas of Florida Plants



In addition to carrying out his full-time duties inspecting tractor trailers, refrigerated trucks and flatbed trucks, Mr. Cutts went the extra mile by submitting 113 botany specimens found to be New County Records in 2024. These plants were

collected mainly in his free time on weekends and holidays and during lulls in traffic near the interdiction stations. He collected plants in 18 different counties with the largest numbers from Gilchrist (44 specimens), Dixie (17), Suwannee (9), Levy (8) and Union (8). To complete this accomplishment, Logan submitted nearly 100 additional samples that were not found to be new in their counties. He explained his knowledge of plants and their locations is based on his interest in bees and good pollen sources for them.



1b - *Crataegus michauxii*, Michaux's hawthorn.  
Photo by Shirley Denton, Atlas of Florida Plants

We expect Logan will likely enjoy his weekends engaged in other activities, such as tending his bees, after collecting this amazing number of plants, and we thank him for this contribution to our knowledge of Florida's flora.

Here are a few examples of new county records Logan submitted this year.



1c - *Conoclinium coelestinum*, blue mistflower.  
Photo by Patti Anderson, FDACS-DPI





# TRI-OLGY

[FDACS.gov/TRI-OLGY](https://fdacs.gov/TRI-OLGY)

1-888-397-1517

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Division of Plant Industry  
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